P.P.N. (P.G.) College, Kanpur

96/12 Mahatma Gandhi Marg, Kanpur -208001

●Telefax: (0512)2361924 ● Mob.: 8707538344●

●Website:www.ppncollege.org● ●email:ppncollegekanpur@gmail.com●

[Subject- CHEMISTRY]

Lesson Plan:[2023-24][SEMESTER-III]

[Name of course M.Sc.(FINAL)CHEMISTERY/Master in Chemistry]

[Paper–ELECTIVE PAPER]

[Course code- CH304E]

[Paper title-PHOTOCHEMISTRY]

[Lecture duration 60mins]

[Mode Offline]

[Credits/Maxmarks-04/100]

S. No. of Units	No. of Lectures	Topic covered	Teaching Pedagogy	Name of the Faculty involved in delivering the course
Unit-I	No. of Lecture -08	**Photochemical Reactions** • Interaction of electromagnetic radiation with matter, • types of excitations, • the fate of excited molecule, quantum yield, • transfer of excitation energy actinometry.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint or Beamer in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentationskills. • For this purpose, topics of discussion allotted a day or two before.	PROF. NIDHI SRIVASTAVA
Unit-II	No. of Lecture -10	**Determination of reaction mechanism** • Classification • Types of reactions • rate constants, • life times of reactive energy states • determination of rate constants of reactions. • Effect of light intensity on the rate of photochemical reactions, • Their examples • types of photochemical reactions- • photo dissociation, gas-phase photolysis.		
		Revision / Tutorial		
		Class test / Quiz-1		

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Unit-III	No. of Lecture -08	**Photochemistry of alkenes** • Photochemistry of alkenes • Their examples • Intra molecular reactions of the olefinic bond • geometrical isomerization, • cyclisation reactions, • Types of rearrangement • rearrangement of 1,4- and • 1,5-dienes rearrangement • More Examples of Photochemistry of alkenes	• Regular delivering of the Revision / Tutorial class of the taught topics. • Conduction of class test/quizzes through Offline or online mode. **Students also encouraged to see Content uploaded on CSJM University website YouTube channel** **Books suggested-** 1. Fundamental of Photochemistry, K. K. Rohtagi-Mukherji, Wiley-Eastern. 2. Molecular Photochemistry, N.J. Turro, W. A. Benjamin. 3. Organic Photochemistry, J. Coxon and B. Halton, Cambridge University Press. 4. Photochemistry, R P. Kundall and A. Gilbert, Thomson Nelson 5. Prof Jagdamba Singh and Jaya Singh	DR. DHANANJAY SINGH
		Revision / Tutorial		
		Class test / Quiz-2		
Unit-IV	No. of Lecture -14	**Photochemistry of carbonyl compounds** • Introduction of Photochemistry • Photochemistry of carbonyl compound • Intramolecular reactions of the carbonyl compounds- • Saturated compounds • Cyclic compounds • acyclic compounds • β, γ-saturated compounds • α, β-unsaturated compounds, • their examples • cyclohexadienones. compounds • Intermolecular cycloaddition reactions • their examples • dimerization, and • oxetane formation.		PROF. NIDHI SRIVASTAVA
Unit-V	No. of Lecture -08	**Photochemistry of aromatic compounds** • Photochemistry of aromatic compounds • Isomerization, • addition, and substitutions..		DR. DHANANJAY SINGH
Unit-VI	No. of Lecture -12	**Miscellaneous photochemical reactions** • Photo-Fries reactions of anilids, • Photo-Fries rearrangement. • Barton reaction • Their examples • Singlet molecular oxygen reactions,		DR. DHANANJAY SINGH

		• Photochemical formation of smog • Their effect, • Photodegradation of polymers • Their examples photochemistry of vision.		
		Revision / Tutorial		
		Class test / Quiz-4		
Total no of lectures = 60		**DISPERSAL OF CLASS**		
		Vth SEMESTER EXAM		

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[Subject- CHEMISTRY]

Lesson Plan: [2023-24] [semester III]

[Name of course M. Sc. CHEMISTERY]

[Elevtive Paper]

[Course code- CH305E]

[Paper title- Organotransition Metal Chemistry]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

S. No. of Units	No. of Lectures	Topic covered	Teaching Pedagogy	Name of the Faculty involved in delivering the course
Unit-I	No. of Lecture -07	**Alkyls and Aryls of Transition Metals** Types, routes of synthesis, stability and decomposition pathways, organocopper in organic synthesis.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint or Beamer in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills. • For this purpose, topics of discussion allotted a day or two before.	**Dr. Anoop Kumar Gupta**
Unit-II	No. of Lecture -08	**Compounds of Transition Metal-Carbon Multiple Bonds** Alkylidenes, alkylidynes, low valent carbenes and carbynes- synthesis, nature of bond, structural characteristics, nucleophilic and electrophilic reactions on the ligands, role in organic synthesis.		
		Revision / Tutorial		
		Class test / Quiz-1		
Unit-III	No. of Lecture -18	**Transition Metal π- complexes** Transition metal π - complexes with unsaturated organic molecules, alkenes, alkynes, allyl, diene, dienyl, arene and trienyl complexes, preparations, properties, nature of bonding and structural features.		

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		Important reactions relating to nucleophilic and electrophilic attack on ligands and to organic synthesis. Revision / Tutorial **Class test / Quiz-2**	• Regular delivering of the Revision / Tutorial class of the taught topics. • Conduction of class test/quizzes through Offline or online mode. **Students also encouraged to see Content uploaded on CSJM University website YouTube channel** **Books Suggested:** 1. Principles and application of Organotransition Metal Chemistry, J.P. Collman, L.S. Hegsdus, J.R. Norton and R.G. Finke, University Science Books. 2. The Organometallic Chemistry of the Transition Metals, R.H. Crabtree, John Wiley. 3. Metallo-organic Chemistry, A.J. Pearson, Wiley. 4. Organometallic Chemistry, R.C. Mehrotra and A. Singh, New Age International.	
Unit-IV	No. of Lecture -07	**Transition Metal Compounds with bonds to Hydrogen** Transition metal compounds with bonds to hydrogen.		
Unit-V	No. of Lecture -15	**Homogenous Catalysis** Stoichiometric reactions for catalysis, homogeneous catalytic hydrogenation, Zeigler-Natta polymerization of olefins, catalytic reactions involving carbon monoxide such as hydrocarbonylation of olefins (oxo reaction), oxopalladation reactions, activation of C-H bond. Revision / Tutorial **Class test / Quiz-3**		**Mr. Rohit Kumar Maurya**
Unit-VI	No. of Lecture -05	**Fluxional Organometallic Compounds** Fluxionality and dynamic equilibria in compounds such as η_2-olefin, η_3-allyl and dienyl complexes. Revision / Tutorial **Class test / Quiz-4**		
Total no of lectures = 60		**DISPERSAL OF CLASS**		
		IIIrd SEMESTER EXAM		

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[Subject- CHEMISTRY]

Lesson Plan: [2023-24] [semester III]

[Name of course M. Sc. CHEMISTERY]

[Elevtive Paper]

[Course code- CH306E]

[Paper title- Analytical Chemistry

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

S. No. of Units	No. of Lectures	Topic covered	Teaching Pedagogy	Name of the Faculty involved in delivering the course
Unit-I	No. of Lecture -10	**Introduction** Role of analytical chemistry. Classification of analytical methods-classical and instrumental. Types of Instrumental analysis. Selecting an analytical method. Neatness and cleanliness. Laboratory operations and practices. Analytical balance. Techniques of weighing, errors. Volumetric glassware-cleaning and calibration of glassware. Sample preparations- dissolution and (decomposition. Gravimetric techniques. Selecting and handling of reagents. Laboratory notebooks, Safety in the analytical laboratory.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint or Beamer in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills. • For this purpose, topics of discussion allotted a day or two before.	**Dr. Anita Rai**
Unit-II	No. of Lecture -08	**Errors and Evaluation** Definition of terms in mean and median. precision-standard deviation, relative standard deviation. Accuracy-absolute error, relative error. Types of error in experimental data determinate (systematic), indeterminate (or random) and gross. Sources of errors and the effects upon the analytical results. Methods for, reporting analytical data. Statistical evaluation of data-		

		indeterminate errors. The uses of statistics. Revision / Tutorial **Class test / Quiz-1**	• Regular delivering of the Revision / Tutorial class of the taught topics. • Conduction of class test/quizzes through Offline or online mode. **Students also encouraged to see Content uploaded on CSJM University website YouTube channel** Books Suggested: **1.** Analytical Chemistry, G.D. Christian, J. Wiley. **2.** Fundamentals of Analytical Chemistry, D. A. Skoog, D. M. West and F.J. Holler, W.B. Saunders **3.** Analytical Chemistry-Principles, J.H. Kennedy, W.B. Saunders. **4.** Analytical Chemistry-Principles and Techniques, L.G. Hargis, Prentice Hall. **5.** Principles of Instrumental Analysis, D.A. Skoog and J.L. Loary, W.B. Saunders **6.** Principles of Instrumental Aanalysis. D.A. Skoog, W.B. Saunders. **7.** Quantitative Analysis, R.A. Daty, Jr. and A.L. Underwood, Prentice Hall. **8.** Environmental Solution Analysis, S.M. Khopkar, Wiley Eastern. **9.** Basic Concepts of Analytical Chemistry, S.M. Khopkar, Wiley Eastern. **10.** Handbook of Instrumental Techniques For Analytical Chemistry, F. Settle, Prentice Hall.	
Unit-III	No. of Lecture -12	**Food Analysis** Moisture, ash, crude protein, fat, crude fibre, carbohydrates, calcium, potassium, sodium and phosphate. Food adulteration common adulterants in food, contamination of food stuffs. Microscopic examination of foods for adulterants. Pesticide analysis in food products. Extraction and purification of sample. HPLC Gas chromatography for organophosphates. Thin-layer chromatography for identification of chlorinated pesticides in food products. Revision / Tutorial **Class test / Quiz-2**		
Unit-IV	No. of Lecture -10	**Analysis of Water Pollution** Origin of waste water, types, water pollutants and the effects. Sources of water pollutiondomestic, industrial agricultural soil and radioactive wastes as sources of pollution. Objectives of analysis parameter for analysis colour, turbidity, total solids, conductivity, acidity, alkalinity, hardness, chloride, sulphate, fluoride, silicon phosphates and different forms of nitrogen. Heavy metal pollution-public health significance of cadmium, chromium, copper, lead, zinc, manganese, mercury and arsenic. General survey of instrumental technique for the analysis of heavy metals in aqueous systems. Measurements of DO, BOD and COD. Pesticides as water pollutants and analysis. Water pollution laws and standards Revision / Tutorial **Class test / Quiz-3**		

Unit-V	No. of Lecture -20	**Analysis of Soil, Fuel, Body Fluids and Drugs** **(a)** Analysis of soil: moisture, pH, total nitrogen, phosphorus, silica, lime, magnesia, manganese, sulphur and alkali salts. **(b)** Fuel analysis: solid, liquid and gas, Ultimate and proximate analysis- heating values grading of coal. Liquid fuels-flash point, aniline point, octane number and carbon residue. Gaseous fuels-producer gas and gas-calorific value. **(c)** Clinical chemistry: Composition of blood-collection and preservation of samples. Clinical analysis, serum electrolytes, blood glucose, blood urea, nitrogen, uric acid, albumin, globulins, barbiturates, acid and alkaline phosphatases. Immunoassay: principles of radio immunoassay (RIA) and applications. The blood gas analysis-trace elements in the body. **(d)** Drug analysis: Narcotics and dangerous drugs Classification of drugs. Screening by gas and thin-layer chromatography and spectrophotometric measurements.		
		Revision / Tutorial		
		Class test / Quiz-4		
Total no of lectures = 60		**DISPERSAL OF CLASS**		
		III SEMESTER EXAM		

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[Subject- CHEMISTRY]

Lesson Plan: [2023-24] [semester III]

[Name of course M. Sc. CHEMISTERY]

[Elevtive Paper]

[Course code- CH408E]

[Paper title-Bioinorganic and Supramolecular Chemistry]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

S. No. of Units	No. of Lectures	Topic covered	Teaching Pedagogy	Name of the Faculty involved in delivering the course
Unit-I	No. of Lecture -10	**Metal Storage Transport and Biomineralization** Ferritin, transferrin, and siderophores.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint or Beamer in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills. • For this purpose, topics of discussion allotted a day or two before.	**Mr. Rohit Kumar Maurya**
Unit-II	No. of Lecture -08	**Calcium in Biology** Calcium in living cells, transport and regulation, molecular aspects of Intramolecular processes, extracellular binding proteins.		
		Revision / Tutorial		
		Class test / Quiz-1		
Unit-III	No. of Lecture -12	**Metalloenzymes** Zinc enzymes carboxypeptidase and carbonic anhydrase. Iron enzymes- catalase. peroxidase and cytochrome P-450. Copper enzymes- superoxide dismutase. Molybdenum oxo-transferase enzymes- xanthine oxidase. Coenzyme vitamin B_{12}.		
		Revision / Tutorial		
		Class test / Quiz-2		
Unit-IV	No. of Lecture -05	**Metal- Nucleic Acid Interactions** Metal ions and metal complex interactions, Metal complexes-nucleic acids.		

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Unit-V	No. of Lecture -05	**Metals in Medicine** Metal deficiency and disease, toxic effects of metals, metals used for diagnosis and chemotherapy with particular reference to anticancer drugs. Revision / Tutorial **Class test / Quiz-3**	• Regular delivering of the Revision / Tutorial class of the taught topics. • Conduction of class test/quizzes through Offline or online mode. **Students also encouraged to see Content uploaded on CSJM University website YouTube channel** **Books Suggested:** 1. Principle of Bioinorganic Chemistry, S.J. Lippard and J.M. Berg, University Science Books. 2. Bioinorganic Chemistry, I. Bertini, H.B. Gray, S.J. Lippard and J.S. Valentine, University Science Books. 3. Inorganic Biochemistry Vol. I and II ed. G.L Eichhorn, Elsevier. 4. Supramolecular Chemistry, J.M. Lehn, VCH.	**Dr. Monal Singh**
Unit-VI	No. of Lecture -20	**Supramolecular chemistry** **Concepts and language:** **(A)** Molecular recognition: Molecular receptors for different types of molecules including arisonic substrates, design, and synthesis of coreceptor molecules, and multiple recognition. **(B)** Supramolecular reactivity and catalysis. **(C)** Transport processes and carrier design. **(D)** Supramolecular devices. Supramolecular photochemistry, supramolecular electronics, ionic and switching devices. Some examples of self-assembly in supramolecular chemistry. Revision / Tutorial **Class test / Quiz-4**		
Total no of lectures = 60		**DISPERSAL OF CLASS**		
		IV SEMESTER EXAM		

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[Subject- CHEMISTRY]

Lesson Plan: [2023-24] [semester I]

[Name of course M.Sc. (PREVIOUS) CHEMISTERY/ Master in Chemistry]

[Paper – 1]

[Course code- B020802T/CH101]

[Paper title- INORGANIC CHEMISTRY]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

S. No. of Units	No. of Lectures	Topic covered	Teaching Pedagogy	Name of the Faculty involved in delivering the course
Unit-I	No. of Lecture -15	**Stereochemistry and Bonding in Main Group Compounds** • VSEPR Theory • Walsh diagrams (Tri- and Penta atomic molecules) • dπ-pπ bonds • Bent rule • Energetics of hybridizations • Some simple reactions of covalently bonded molecules	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint or Beamer in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills.	**Dr. Anoop Kumar Gupta**
		Revision/ Tutorial		
		Class test/quiz -1		
Unit-II	No. of Lecture -15	**Metal-Ligand Equilibria in solution** • Stepwise and overall formation constants and their interaction • Trends in stepwise constants • Factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand		**Dr. Monal Singh**

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		• Chelate effect and it's thermodynamic origin • Determination of binary formation constants by pH-metry and spectrophotometry	• For this purpose, topics of discussion allotted a day or two before. • Regular delivering of the Revision / Tutorial class of the taught topics. • Conduction of class test/quizzes through Offline or online mode. **Students also encouraged to see Content uploaded on CSJM University website YouTube channel** **Books Suggested:** 1. Advanced Inorganic Chemistry, F.A. Cotton and Wilkinson , John Wiley. 2. Inorganic Chemistry, J.E. Huhey, Harpes & Row. 3. Chemistry of the elements, N.N. Greenwoods and A. Earnshow, Pergamon. 4. Inorganic Electronic Spectroscopy, A.B.P. Lever, Elsevier. 5. Magnetochemistry, R.L. Carlin, Springer Verlag 6. Comprehensive Coordination Chemistry Eds G.Wilkinson, R.D.	
		Revision/ Tutorial		
		Class test/quiz -2		
Unit-III	No. of Lecture -15	**Reaction Mechanism of Transition Metal Complexes** • Energy profile of a reaction • Reactivity of metal complexes • Inert and labile complexes • Kinetic application of valence bond and crystal field theories • Kinetics of octahedral substitution • Acid hydrolysis • Factor affection, acid hydrolysis • Base hydrolysis • Conjugate base mechanism • Direct and indirect evidences in favour of conjugate mechanism • Anation reaction • Reaction without metal-ligand bond cleavage • Substitution reaction in square planar complexes • The trans effect • Mechanism of the substitution reaction • Redox reactions • Electron transfer reactions • Outer sphere type reaction • Cross reaction and Marcus-Hush Theory • Inner sphere type reactions		**Dr. Monal Singh**

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		Revision/ Tutorial	Gillars and J.A. McCleverty, Pergamon	
		Class test/quiz -3		
Unit-IV	No. of Lecture -15	**Metal –Ligand Bonding** • Limitation of crystal field theory • molecular orbital theory • σ-bonding and molecular orbital theory for octahedral, tetrahedral and square planar complexes • π-bonding and molecular orbital theory for octahedral, tetrahedral and square planar complexes molecular orbital theory		**Dr. Anoop Kumar Gupta**
		Revision/ Tutorial		
		Class test/quiz -4		
Total no of lectures = 60		**DISPERSAL OF CLASS**		
		Ist SEMESTER EXAM		

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P. P. N. (P.G.) COLLEGE KANPUR

Lesson Plan: [2019-20] 3rd year

[Name of course B.A / B.sc (final) Geography]

[Course code-]

[Subject-Geography]

[Paper- Regional Studies of any one of the following Regions

[Paper – (A) South West Asia]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks-]

Names of faculty involved in delivering the course- Dr Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	South West Asia -Region as a geographical entity and as a component of global system	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 6- 10	Basis of regionalisation/ grouping of counties – geographical, political,	
3	Lecture 11- 15	Basis of regionalisation/ grouping of counties- historical, cultural etc.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Structure -Relief, climate and climatic region.	
6	Class quiz		
7	Lecture 21- 25	Vegetation, irrigation.	
8	Lecture 26- 30	Power and mineral resources.	
9	Revision/ Tutorial		
10 11	Class quiz Mid- Term Exam		
12	Lecture 31-35	Population distribution, growth.	
13	Lecture 36- 40	Population distribution pattern, migration, Agriculture.	
14	Lecture 41- 45	Industries Transport and Trade.	
15	Lecture 46- 50	Strategic importance of the region.	

16	Lecture 51- 55	Suez Canal, Geographical background of the modem problems.	Quizzes conducted. Books suggested- WB. Fisher The Middle East Cressey: Cross-Road East and Spate Changing Map of Asia NS Ginnsburg: Pattern of Asia W. Willcocks: The Irrigation of Mesopotamia J Jones: Turkey The Statesmans Year book: 2001-2002 Vishwanath Tiwari-Asia. Ka Bhugolic swaroop Mahesh Narain Nigam And BL. Garg-Pashchimi Asia
17	Lecture 56- 60	Detailed regional study of Turkey, Iraq, Israel and Saudi Arabia.	
18 19	Revision Class Quiz		

Lesson Plan: [2019-20]

[Name of course M.A / M.sc (previous) Geography]

[Course code-]

[Subject-Geography]

[Paper-Geographical Concepts And Research Methodology]

[Paper – 3]

[Lecture duration 60 minutes]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr. Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 10	The nature of Geography - from the earliest time to the present day.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Quizzes conducted. Books suggested: 1.Singh 1,Bhugolic Chintan ka Mooladhar. 2 Kaushik, S.D., Bhugolik Vichar Dharain Aur Vidhitantra. 3. Hartshorne, R., Perspectives on the Nature of Geography, Chicago and London, 1959
2	Lecture 11-20	Trends in Geographical thought (i) concept of Earth surface (ii)Landscape analysis.	
3	Lecture 21-30	Spatial organisation, system analysis.	
4 5	Revision/ Tutorial Class Quiz		
6	Lecture 31-40	Concept of region and regionalism-region of different types and hierarchies.	
7	Lecture 41-50	Concept of core and marginal areas, concept related to man and environment,	

		relationship determinism, adaptation.	4.Tripathi, & Virlley, Bhaugolic Chintan ka vikas Aur vidhitantra. 5.James, PE Jones, C.F., American Geography: Inventory and Prospect, A.A.G Syracuse University Press, 1964. 6 Woodridge, SW, The Geographer as a Scientist 7.Crone, JR., Modern Geography, London, New Edition, 1970 8. Berry, BJL. and Marble, D.F. Spatial Analysis-AReader in Statistical Geography Englewood Cliffs, N.J., Prentice-Hall, 1968 10.Freeman TW, Geography and Planning, London, 1962.
8	Lecture 51-60	Possibilism, perception of environment, concept relating to city country functional relationship, umland (urban-field).	
9 10 11 12	Revision/ Tutorial Class Quiz Mid-term Exam Lecture 61-70	 Research Methodology - Meaning and objective of research, types and approaches.	
13	Lecture 71-80	Research process, problems encountered by researchers in India,	
14	Lecture 81-90	Defining research problem, research design, sampling design.	
15 16	Revision/ Tutorial Lecture 91-95	 Processing and Analysis of data-Methods of measuring concentration and dispersion of human and	

		economic activities.	
17	Lecture 96-100	Hierarchy of central places and Neighbour analysis.	
18	Lecture 101-105	Chi- square test, Binomial test, Application of remote sensing techniques.	
19	Lecture 106-110	Hypothesis testing Needs and types of hypothesis.	
20	Lecture 111-115	Goodness of fit and significance and confidence levels.	
21	Lecture 115-120	Parametric and non- parametric procedures, Analysis of variance (ANOVA).	
22 23	Revision/ Tutorial Class Quiz		

Lesson Plan: [2019-20]

[Name of course M.A / M.sc(final)Geography]

[Course code-]

[Subject-Geography]

[Paper-REGIONAL PLANNING AND DEVELOPMENT]

[Paper – II]

[Lecture duration 60 mins]

[Old course]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr. Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 10	Regional concept in geography, conceptual and theoretical framework, merits, and limitations for application to regional planning and development, changing concept of the region from an inter-disciplinary view-point, concept of space, area and locational attributes.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 11-20	Types of regions: Formal and functional; uniform and nodal, single purpose and composite region, in the context of planning; regional hierarchy, special purpose regions.	
3	Lecture 21-30	Physical regions, resource regions, regional divisions" according to variations in levels of socio-economic development; special purpose regions-river valley regions.	
4	Revision/ Tutorial		
5	Lecture 31-40	Metropolitan regions, problem regions-hilly regions, tribal regions, regions of drought and floods.	
6	Class quiz		
7	Lecture 41-50	Approaches to delineation of different types of regions and their utility in planning.	

8	Lecture 51-60	Planning Process: Sectoral, temporal and spatial dimensions; short- term and long term perspectives of planning. Planning for a region Es development and multi-regional planning in a national context.	Quizzes conducted. 1. Abler, R.,et al: Spatial Organisation. The Geographer's View of the World, Prentice Hall, Englewood Cliffs, NJ 1971 2. Shut, L.S Regional Planning in India, Statistical Publishing Society, Calcutta, 1973. 3. Bhat, L.S., et al.: Micro-Level Planning: A Case Study of Karma Area, Haryana, KB Publications, New Delhi, 1976. 4.Chorley, RJ. and Hagget, P. Models in Geography, Methuen, London, 1967. 5.Christaller, W., Central Places in Southern Germany, Translated by C.W. Baskin, Prentice Hall, Englewood Cliffs, New Jersey, 1966. 6. Friedmann, J. and Alonso, W. Regional Development Policy - A Case Study of Venezuela, M.I.T. Press Cambridge, Mass, 1966.
9	Revision/ Tutorial		
10 11	Class quiz Mid-term Exam		
12	Lecture 61-70	Indicators of development and their data sources, measuring levels of regional development and disparities-case study of India	
13	Lecture 71-80	Regional development strategies-concentration vs. dispersal.	
14	Lecture 81-90	Case studies for plans of developed and developing countries, Regional plans of India.	
15	Lecture 91-100	Concept of Multi-level planning, decentralised planning, peoples participation in the planning process.	
16	Lecture 101-110	Panchayati Raj system, role and relationship of Panchayati Raj Institutions (Village Panchayat, Panchayat Samithi and Zila Parishad) and administrative structure (village, Block and District).	
17	Lecture 111-120	Regional development in India-problems and prospects.	
18	Revision/ Tutorial		
19	Class quiz		

Lesson Plan: [2019-20]

[Name of course B.A./B.Sc. Geography]

[Course code-]

[Subject-Geography]

[Paper-Human geography]

[Part– 1]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks-]

Names of faculty involved in delivering the course- Dr.Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Human Geography- Concept and Nature: Meaning, Scope and Development of Human Geography.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Quizzes conducted.
2	Lecture 6- 10	Man and Environment relationship-Determinism, Possibilism, Neo determinism, Probabilism.	
3	Lecture 11- 15	Basic principles Principle of Activity or Change, Principle of Terrestrial Unity or whole	
4	Revision/ Tutorial		
5	Lecture 16- 20	Habitation (Population and Settlement)-Distribution of population and world pattern, global migration causes and consequences, concept of over population and under population	
6	Class quiz		
7	Lecture 21- 25	Human Settlements Origin, types (Rural Urban) characteristics, size and distribution.	
8	Lecture 26- 30	House types and their distribution with special reference to India.	
9	Revision/ Tutorial		
10 11	Class quiz Mid- Term Exam		

12	Lecture 31-35	Economy- Evolution of Human Economy: Sequence of human occupance.	Books suggested- Spencer J.E. and Thomas W.L. ducting Cultural Geography. Thomas W.L. (ed) Man's role in Changing the Face of the Earth.
13	Lecture 36- 40	Primitive Economics- Food gathering Hunting, Pastoral herding, Fishing, Lumbering and Primitive agriculture.	
14	Lecture 41- 45	Later major innovations and their impact.	
		Society and Culture Evolution of man (Australopithecus, Homo Erectus, Homosapiens.)	
15	Lecture 46-50	Man's spread over the earth during the Pleistocene, cultural diffusion.	
		Cultural realms, World Human Races Classification, Characteristics and Distribution	
16	Lecture 51-55	Population Tribes Some typical modes of life of world Tribes Eskimos, Kirghiz.	
		Bushman, Masai, Semang and Pygmies.	
		Habitat, Economy and Society of Indian Tribes-Bhotias, Gaddis, Tharus.	
17	Lecture 56-60	Economy and Society of Indian Tribes Bhotias, Gaddis.	
18 19	Revision/ Tutorial Class Quiz	Tharus, Bhil, Gond tribes. Santhal, Nagas tribes.	

Lesson Plan: [2022-23] [semester 3]

[Name of course B.A / B.sc Geography]

[Course code-A110301T]

[Subject-Geography]

[Paper- Environment, Disaster Management and Climate Change]

[Paper –I]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr.Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Concepts & Components of Environment. Ecology and Ecosystem.	Lectures delivered in the language comfortable to the students (Hindi and English). Chalk and board method used most of the time. Interactive teaching preferred including group discussions before the start of some tedious topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Quizzes conducted. Books suggested: Casper J.K. (2010). Changing
2	Lecture 6- 8	Indian Traditional Knowledge in Environment and Disaster Management.	
3	Lecture 9-13	Bio-diversity and its Conservation.	
4	Revision/ Tutorial		
5	Lecture 14-16	Sustainable Development.	
6	Class quiz		
7	Lecture 17-21	Deforestation, Soil Erosion, Soil Exhaustion, Desertification. Air Pollution, Water pollution.	
8	Lecture 26- 30	Disposal of solid Waste.	
9	Revision/ Tutorial		
10	Class quiz		
11	Lecture 25-28	Institutional Initiatives Ganga Action plan.	
12	Lecture 29-32	Tiger Project Tehri Dam & Narmada Valley Project.	
13	Mid- term Exam		
14	Lecture 33-36	Understanding Climate Change.	
15	Lecture 37-40	Green House Gases and Global Warming	

16	Lecture 41-42	Global Climatic Assessment - IPCC, Impacts of Climate Change.	Ecosystems: Effects of Global Warming New York USA: Infobase Pub. 2. Hudson, T. (2011). Living with Earth: An Introduction to Environmental Geology Delhi, India: PHI Learning Private Limited. 3. Miller, G.T. (2007). Living in the Environment. Principal, Connections, and Solutions Belmont, Australia: Brooks/Cole Cengage Learning. 4. Singh, R.B. (1993) Environmental Geography, Delhi, India Heritage Publishers 5. UNEP (2007). Global Environment Outlook GEO4 Environment For Development. United Nations Environment Programme. UK University Press, Cambridge. 6. Government of India. (2011). Disaster Management in India. Delhi, India. Ministry of Home affairs. Singh, Savendra (2019) Pryavaran Bhugol, Pravalika Publication, Allahabad. 8. Kapur, A. (2010). Vulnerable India: A Geographical Study of Disasters. Delhi, India
17	Lecture 43-47	National Action Plan on Climate Change.	
18	Lecture 48-51	Risk, Vulnerability. Hazards, Disasters, Type of Disasters.	
19	Lecture 52-54	Disaster Management: Concept and Cycle	
20	Lecture 55-60	Flood, Drought, Cyclone, Earthquake. Tsunami, Landslide, Chemical, Epidemiological Disaster and Nuclear Disaster Management. Do's and Don'ts During Disaster.	
21	Revision/ Tutorial		
22	Class quiz		

Lesson Plan: [2021-22] [semester 1]

[Name of course M.A / M.sc Geography]

[Course code-]

[Subject-Geography]

[Paper-1 Geographical Thought: Concepts and Issues]

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr. Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Changing Paradigm of Geography.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 6- 10	Development of Dualism in Geography Physical vs Human.	
3	Lecture 11- 15	Systematic v/s Regional.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Positivism in Geography: Quantitative Revolution and its Impact.	
6	Class quiz		
7	Lecture 21- 25	Systems and Models in Geography.	
8	Lecture 26- 30	Theories and Laws in Geography.	
9	Revision/ Tutorial		
10 11	Class quiz Mid- Term Exam		
12	Lecture 31-35	Concept of Earth Surface: Concept of landscape	
13	Lecture 36- 40	Concept of Region and its Typology	
14	Lecture 41- 45	Concept of Spatial Organization	
15	Lecture 46- 50	Radical Geography	
16	Lecture 51- 55	Geography as a Science of Human Ecology.	
17	Lecture 56- 60	Behavioralism & Phenomenology in Geography	
18	Revision/ Tutorial		

19	Class Quiz		Students also encouraged to see the e-PGPathshala lectures available online for understanding the some topics Quizzes conducted. Books suggested- James, P.E (1980): A Hundred Years of Geography, Sachin Pub Jaipur . Davies, W.K.D. (1972): The Conceptual Revolution in Geography, University of London Press London Dickinson, R.E. (1965): The Makers of Modem Geography, Routledge and Kegon Paul, London Hartshorne, R. (1959): Perspectives on the Nature of Geography, John Murray, London. Chorley, R.J. & Haggett, P. eds. (1967): Integrated Models in Geography, Methuen, Landon.

Lesson Plan: [2023-24] [semester V]

[Name of course B.A / B.sc Geography]

[Course code-A110501T]

[Subject-Geography]

[Paper-REGIONAL GEOGRAPHY AND PLANNING]

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr. Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Regions Concept and Classification Bass and Approaches of Regionalisation.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 6- 10	Evolution and Objectives of Regional Planning. Planning Practices in Ancient India. Types of Region, Formal and Functional	
3	Lecture 11- 15	Planning Regions Macro Meso and Micro Regions.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Approaches to Regional Geography of Middle Ganga plain Chotanagpur Plateau.	
6	Class quiz		
7	Lecture 21- 25	Rajasthan Desert and Ladakh. Concept of development and under- Development .	
8	Lecture 26- 30	Sustainable development	
9	Revision/ Tutorial		
10	Class quiz		
11	Lecture 31-35	Concept Theories and Modes for Regional Planning Perroux Myrdal,	
12	Mid-term exam		

13	Lecture 36- 40	Rostow model	Quizzes conducted. Books suggested: 1.Agyeman, Julian, Robert D. Bullard and Bob Evans (Eds) (2003) Just Sustainabilities: Development in an Unequal Word London:Earthscan (Introduction and conclusion) 2. Pattanak, B.K. (2020) Introduction to Urban Development and Planning: Sage. Text, Delhi 4. Anand Subhash, (2011) Ecodevelopment local Perspectives New Delhi, India Research India Press. 5.Misra R. P. Sundaram, KV and Rao, VLS (1974) Regional Development planning in India. Delhi: India Vikas Publishing House 6.Sing MB Pradeshi Vikas Niyogan Tara Book Agency Varanasi 7. Peet R. (1999). Theories of Development. New York, USA The Guilford Press 8.Berry BJ.L. and Horton, F F. (1970) Geographic Perspectives on Urban Systems Prentice Hall. New Jersey.
14	Lecture 41- 45	Indicators of Development and Regional Disparity (Economic Social and environment)	
15	Lecture 46- 50	Efficiency-Equity Debate: Definition, Components.	
16	Lecture 51- 55	Sustainability for Development. Regional planning in India: Experience Through Five year plans.	
17	Lecture 56- 60	Multi Level Planning Participatory Planning, Role of Panchayati Raj institutions and Urban Local Bodies	
18 19	Revision Class quiz		

Lesson Plan: [2022-23] [semester 2]

[Name of course M.A / M.sc Geography]

[Course code-]

[Subject-Geography]

[Paper- REGIONAL PLANNING AND DEVELOPMENT]

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Abha shukla

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Concept of Regional Development.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint in the topics of relevance. Interactive teaching preferred including group discussions before the start of some topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Quizzes conducted.
2	Lecture 6- 10	Changing paradigm.	
3	Lecture 11- 15	Sustainable development.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Indian Thoughts of Development Ideas of Gandhi.	
6	Class quiz		
7	Lecture 21- 25	Census of India.	
8	Lecture 26- 30	NITI Aayog	
9	Revision/ Tutorial		
10	Class quiz		
11 12	Lecture 31-35 Mid-term Exam	Identification of Regional Disparities	
13	Lecture 36- 40	Spatial patterns and temporal trends	
14	Lecture 41- 45	Human Development Index.	
15	Lecture 46- 55	Regionalization for Sustainable Development	
16	Lecture 56- 65	Area development programmes	
17	Lecture 66- 75	Agro-climatic regions, metropolitan regions	
18	Revision/ Tutorial		

			Books suggested- Bardhan, P. 1984. The Political Economy of Development in India, Oxford, Blackwell. Bhalla, A.S. 1992. Uneven Development in the Third World: A Study of India and China, London, Macmillan . Nath, V. 2009. Regional Development and Planning in India, Concept Publishing Company. Sharma, H.S and Chattopadhyaya, S. 1998. Sustainable Development Issues and Case Studies, Concept Publishing, Delhi. Ganguli B.N. 1997. Indian Economic Thought: A 19th Century, Perspective, Tata McGraw Hill, New Delhi

[Subject- MATHEMATICS]

Lesson Plan: [2023-24] [semester VI]

[Name of course B.Sc. (III) MATHEMATICS/ Degree in Mathematics]

[Paper – I]

[Course code- B030601T]

[Paper title: METRIC SPACES & COMPLEX ANALYSIS]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr. Sunil Kumar, Dr. Kirti Chauhan, Ms. Shivoli Mourya

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lectures - 08	Basic Concepts Metric spaces: Definition and examples, Sequences in metric spaces, Cauchy sequences, Complete metric space.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel
UNIT- 2	No. of Lectures - 08	Topology of Metric Spaces Open and closed ball, Neighborhood, Open set, Interior of a set, limit point of a set, derived set, closed set, closure of a set, diameter of a set, Cantor's theorem, Subspaces, Dense set.	
		Revision/ Tutorial	
		Class test/quiz -1	
UNIT-3	No. of Lectures – 07	Continuity & Uniform Continuity in Metric Spaces Continuous mappings, Sequential criterion and other characterizations of continuity, Uniform continuity, Homeomorphism, Contraction mapping, Banach fixed point theorem.	
UNIT 4	No. of Lectures- 07	Connectedness and Compactness Connectedness, Connected subsets of ,	

		Connectedness and continuous mappings, Compactness, Compactness and boundedness, Continuous functions on compact spaces.	
		Revision/ Tutorial	• **Suggested books:** 1. Mathematical Analysis by Shanti Narain. 2. Shirali, Satish & Vasudeva, H. L. (2009). Metric Spaces, Springer, First Indian Print. 3. Kumaresan, S. (2014). Topology of Metric Spaces (2nd ed.). Narosa Publishing House. New Delhi. 4. Simmons, G. F. (2004). Introduction to Topology and Modern Analysis.Tata McGraw Hill. New Delhi. 5. Suggested digital plateform:NPTEL /SWAYAM/MOOCS, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/ 6. Function of Complex Variable by Shanti Narain. 7. Complex variable and applications by Brown & Churchill.
		Class test/quiz -2	
UNIT -5	No. of Lectures-08	Analytic Functions and Cauchy-Riemann Equations Functions of complex variable, Mappings; Mappings by the exponential function, Limits, Theorems on limits, Limits involving the point at infinity, Continuity, Derivatives, Differentiation formulae, Cauchy-Riemann equations, Sufficient conditions for differentiability; Analytic functions and their examples.	
UNIT -6	No. of Lectures-08	Elementary Functions and Integrals Exponential function, Logarithmic function, Branches and derivatives of logarithms, Trigonometric function, Derivatives of functions, Definite integrals of functions, Contours, Contour integrals and its examples, Upper bounds for moduli of contour integrals.	
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lectures-07	Cauchy's Theorems and Fundamental Theorem of Algebra Antiderivatives, Proof of antiderivative theorem, Cauchy-Goursat theorem, Cauchy integral formula; An extension of Cauchy integral formula, Consequences of Cauchy integral formula, Liouville's theorem and the fundamental theorem of algebra.	
UNIT -8	No of lectures -07	Series and Residues Convergence of sequences and series, Taylor series and its examples; Laurent series and its examples, Absolute and uniform convergence of power series, Uniqueness of series representations of power series, Isolated singular points, Residues, Cauchy's residue theorem, residue at infinity; Types of isolated singular points, Residues at poles and its examples.	
		Revision/ Tutorial	
		Class test/quiz -4	

	Total no. of lectures =60	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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[Subject- MATHEMATICS]

Lesson Plan: [2023-24] [semester VI]

[Name of course B.Sc. (III) MATHEMATICS/ Degree in Mathematics]

[Paper – II]

[Course code- B030602T]

[Paper title: Numerical Analysis & Operation Research]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr. M. S. Arora, Dr. Tarannum Siddiqi, Ms. Shivoli Mourya

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lectures - 08	Solution of equations: bisection, Secant, Regular Falsi, Newton Raphson's method, Newton's method for multiple roots, Interpolation, Lagrange and Hermite interpolation, Difference schemes, Divided differences, Interpolation formula using differences.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from
UNIT- 2	No. of Lectures - 08	Numerical differentiation, Numerical Quadrature: Newton Cotes Formulas, Gaussian Quadrature Formulas, System of Linear equations: Direct method for solving systems of linear equations (Gauss elimination, LU Decomposition, Cholesky Decomposition), Iterative methods (Jacobi, Gauss Seidel, Relaxation methods). The Algebraic Eigen value problem: Jacobi's method, Givens method, Power method.	
		Revision/ Tutorial	

		Class test/quiz -1	time to time to come on board to enhance their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel
UNIT-3	No. of Lectures – 07	Numerical solution of Ordinary differential equations: Euler method, single step methods, Runge-Kutta method, Multi-step methods: Milne-Simpson method, Types of approximation: Last Square polynomial approximation, Uniform approximation, Chebyshev polynomial approximation.	
UNIT 4	No. of Lectures-07	Difference Equations and their solutions, Shooting method and Difference equation method for solving Linear second order differential equation with boundary conditions of first, second and third type.	
		Revision/ Tutorial	• **Suggested books:** 1. Numerical Methods for Engineering and scientific computation by M. K. Jain, S.R.K. Iyengar & R.K. Jain. 2. Introductory methods of Numerical Analysis by S. S. Sastry 3. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/ 4. Taha, Hamdy H, "Opearations
		Class test/quiz -2	
UNIT -5	No. of Lectures-08	Introduction, Linear programming problems, statement and formation of general linear programming problems, graphical method, slack and surplus variables, standard and matrix forms of linear programming problem, basic feasible solution.	
UNIT -6	No. of Lectures-08	Convex sets, fundamental theorem of linear programming, basic solution, Simplex method, introduction to artificial variables, two phase method Big-M method and their comparison.	
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lectures-07	Resolution of degeneracy, duality in linear programming problems, primal dual relationships, revised simplex method, sensitivity analysis.	

UNIT -8	No of lectures - 07	Transportation problems, assignment problems.	Research- An Introduction ", Pearson Education. 5. Kanti Swarup, P. K. Gupta, Man Mohan Operations research, Sultan Chand & Sons 6. Hillier Frederick S and Lieberman Gerald J., "Operations Research", McGraw Hill Publication. 7. Winston Wayne L., "Operations Research: Applications and Algorithms", Cengage Learning, 4th Edition. 8. Hira D.S. and Gupta Prem Kumar, "Problems in Operations Research: Principles and Solutions", S Chand & Co Ltd. 9. Kalavathy S., "Operations Research",S Chand.
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no. of lectures =60	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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[Subject- MATHEMATICS]

Lesson Plan: [2023-24] [semester V]

[Name of course B.Sc. (II1) MATHEMATICS/ Degree in Mathematics]

[Paper – II (i)]

[Course code- B030501T]

[Paper title- Number Theory & Game Theory]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course**:** Dr. M. S. Arora, Dr. Tarannun Siddiqi, Ms. Shivoli Mourya

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lecture - 10	Theory of Numbers, Divisibility; Euclidean algorithm; primes; congruences; Fermat's theorem, Euler's theorem and Wilson's theorem; Fermat's quotientsand their elementary consequences; solutions of congruences; Chinese remainder theorem; Euler's phi-function	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including group discussions.
UNIT- 2	No. of Lecture - 10	Congruences, Congruence modulo powers of prime; primitive roots and their existence; quadratic residues; Legendre symbol, Gauss' lemma about Legendre symbol; quadratic reciprocity law; proofs of various formulations; Jacobi symbol.	

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		Revision/ Tutorial	• Students invited from time to time to come on board to enhance their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel • **Suggested books:** 1. Niven, I., Zuckerman, H. S. and Montegomery, H. L. (2003) An Int. to the Theory of Numbers (6th edition) John Wiley and sons, Inc., New York. 2. Burton, D. M. (2002) Elementary Number Theory (4th edition) Universal Book Stall, New Delhi. 3. Balakrishnan, V. K. (1994) Schaum's Outline of Theory and Problems of Combinatorics Including Concepts of Graph Theory, Schaum's Outline.
		Class test/quiz -1	
UNIT-3	No. of Lectures – 09	Diophantine equations, solution of $ax + by = c, x^n + y^n = z^n$; properties of Pythagorean triples; sum of two, four and five squares; assorted examples of Diophantine equations.	
UNIT 4	No. of Lecture-09	Generating Functions and Recurrence Relations Generating Function Models, Calculating coefficient of generating functions, Partitions, Exponential Generating Functions, A Summation Method. Recurrence Relations: Recurrence Relation Models, Divide and conquer Relations, Solution of Linear, Recurrence Relations, Solution of Inhomogeneous Recurrence Relations, Solutions with Generating Functions.	

		Revision/ Tutorial	4. Balakrishnan,V. K. (1996) Introductory Discrete Mathematics, Dover Publications.
		Class test/quiz -2	

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UNIT -5	No. of Lecture-10	Introduction, overview, uses of game theory, some applications and examples, and formal definitions of: the normal form, payoffs, strategies, pure strategy Nash equilibrium.	5. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/ 6. Martin Osborne, An Introduction to Game Theory, Oxford University Press, 2003 7. Vijay Krishna, Game Theory, Academic Press. 8. Prajit Dutta, Strategies and Games, MIT Press, (Website 1) http://www.ece.stevens-tech.edu/~ccomanic/ee800c.html 9. Allan MacKenzie, Game Theory for Wireless Engineers, Synthesis lectures on Communications, 2006 10. Suggested digital plateform:NPTEL/SWAYAM/MOOCS, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/
UNIT -6	No. of Lecture-09	Introduction, characteristic of game theory, Two- person zero-sum game, Pure and Mixed strategies, Saddle point and its existence.	
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lecture-09	Fundamental Theorem of Rectangular games, Concept of Dominance, Dominance and Graphical method of solving Rectangular games.	
UNIT -8	No of lectures -09	Relationship between rectangular game and Linear Programming Problem, Solving rectangular game by Simplex method, reduction of m x n game and solution of 2x2, 2 x s, and r x 2 cases by graphical method, algebraic and linear programming solution of m x n games	
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no. of lectures =75	DISPERSAL OF CLASS	
		V th SEMESTER EXAM	

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●Telefax: (0512)2361924 ● Mob.: 8707538344●

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[Subject- MATHEMATICS]

Lesson Plan: [2022-23] [semester IV]

[Name of course B.Sc. (1I) MATHEMATICS/ Diploma in Mathematics]

[Paper – 1]

[Course code- B030401T]

[Paper title- Differential Equations & Mechanics]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course - Dr. M. S. Arora,Dr. Sunil Kumar, Dr. Kirti Chauhan, Dr. Tarannun Siddiqi, Mr. Mayank Pandey

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lectures -12	Second order linear differential equations with variable coefficients: Use of a known solution to find another, normal form, method of undetermined coefficient, variation of parameters, Series solutions of differential equations, Power series method.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including
UNIT-2	No. of Lectures -11	Bessel, Legendre and Hypergeometric functions and their properties, recurrence and generating relations.	
		Revision/ Tutorial	
		Class test/quiz -1	

UNIT-3	No. of Lectures – 11	Origin of first order partial differential equations. Partial differential equations of the first order and degree one, Lagrange's solution, Partial differential equation of first order and degree greater than one. Charpit's method of solution, Surfaces Orthogonal to the given system of surfaces.	group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel
UNIT 4	No. of Lectures-11	Origin of second order PDE, Solution of partial differential equations of the second and higher order with constant coefficients, Classification of linear partial differential equations of second order, Solution of second order partial differential equations with variable coefficients, Monge's method of solution.	
		Revision/ Tutorial	• **Suggested books:** 1. G.F. Simmons, Differential Equations with Application and Historical Notes, Tata –McGrawHill 2. B. Rai, D.P. Choudhary & H. J. Freedman, A Course of Ordinary Differential Equations, Narosa 3. Ian N. Snedden, Elements of Partial Differential Equations, Dover Publication 4. L.E. Elsgolts, Differential Equation and
		Class test/quiz -2	
UNIT - 5	No. of Lectures-12	Frame of reference, work energy principle, Forces in three dimensions, Poinsot's central axis, Wrenches, Null lines and planes.	
UNIT - 6	No. of Lectures-11	Virtual work, Stable and Unstable equilibrium, Catenary, Catenary of uniform strength.	
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT - 7	No. of Lectures-11	Velocities and accelerations along radial and transverse directions, and along tangential and normal directions, Simple Harmonic motion, Motion under other law of forces. Elastic strings, Motion in	

		resisting medium, Constrained motion, Motion on smooth and rough plane curves.	Calculus of variations, University Press of the Pacific. 5. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/ 6. R.C. Hibbeler, Engineering Mechanics-Statics, Prentics Hall Publishers 7. A.Nelson, Engineering Mechanics Statics and Dynamics, Tata McGraw Hill 8. J.L. Synge & B.A. Griffith, Principles of Mechanics, Tata McGraw Hill
UNIT - 8	No of lectures - 11	Velocities and accelerations along radial and transverse directions, and along tangential and normal directions, Simple Harmonic motion, Motion under other law of forces. Elastic strings, Motion in resisting medium, Constrained motion, Motion on smooth and rough plane curves.	
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no. of lectures =90	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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[Subject- MATHEMATICS]

Lesson Plan: [2022-23] [semester III]

[Name of course B.Sc. (I1) MATHEMATICS/ Diploma in Mathematics]

[Paper – 1]

[Course code- B030301T]

[Paper title- Algebra & Mathematical Methods]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course - Dr. M. S. Arora, Dr. Sunil Kumar, Dr. Kirti Chauhan, Dr. Tarannun Siddiqi, Mr. Mayank Pandey

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lectures -12	Introduction to Indian ancient Mathematics and Mathematicians should be included under Continuous Internal Evaluation (CIE). Equivalence relations and partitions, Congruence modulo n, Definition of a group with examples and simple properties, Subgroups, Generators of a group, Cyclic groups.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching
UNIT- 2	No. of Lectures -11	Permutation groups, Even and odd permutations, The alternating group, Cayley's theorem, Direct products, Coset decomposition, Lagrange's theorem and its consequences, Fermat and Euler theorems	
		Revision/ Tutorial	
		Class test/quiz -1	

UNIT-3	No. of Lectures – 11	Normal subgroups, Quotient groups, Homomorphism and isomorphism, Fundamental theorem of homomorphism, Theorems on isomorphism.	preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel
UNIT 4	No. of Lectures-11	Rings, Subrings, Integral domains and fields, Characteristic of a ring, Ideal and quotient rings, Ring homomorphism, Field of quotient of an integral domain.	
		Revision/ Tutorial	• **Suggested books:** 1. J.B. Fraleigh, A first course in Abstract Algebra, Addison-weley 2. I. N. Herstein, Topics in Algebra, John Wiley & Sons 3. Suggested digital plateform: NPTEL/SWAYAM/MOOCS,
		Class test/quiz -2	
UNIT -5	No. of Lectures-12	Limit and Continuity of functions of two variables, Differentiation of function of two variables, Necessary and sufficient condition for differentiability of functions two variables, Schwarz's and Young theorem, Taylor's theorem for functions of two variables with examples, Maxima and minima for functions of two variables, Lagrange multiplier method, Jacobians.	
UNIT -6	No. of Lectures-11	Existence theorems for Laplace transforms, Linearity of Laplace transform and their properties, Laplace transform of the derivatives and integrals of a function, Convolution theorem, inverse Laplace transforms, Solution of the differential equations using Laplace	

		transforms.	www.mooc-list.com/tags/mathe , http://heecontent.upsdc.gov.in 4. T.M. Apostal, Mathematical Analysis, Pearson 5. G.F. Simmons, Differential Equations with Application and Historical Notes, Tata - McGrawHill 6. Erwin Kreyszig, Advanced Engineering Mathematics, John Wiley & Sons. 7. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lectures-11	Fourier series, Fourier expansion of piecewise monotonic functions, Half and full range expansions, Fourier transforms (finite and infinite), Fourier integral.	
UNIT -8	No of lectures -11	Mathematical Statistics- Probability, Theoretical distributions (Binomial, Poisson and Normal), Curve fitting, Correlation, Regression	
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no. of lectures =90	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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[Subject- MATHEMATICS]

Lesson Plan: [2022-23] [semester II]

[Name of course B.Sc. (1) MATHEMATICS/ Certificate Course in Applied Mathematics]

[Paper – 1]

[Course code- B030201T]

[Paper title- Matrices and Differential Equations & Geometry]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course - Dr. M. S. Arora, Dr. Sunil Kumar, Dr. Kirti Chauhan, Dr. Tarannun Siddiqi

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lectures - 12	Types of Matrices, Elementary operations on Matrices, Rank of a Matrix, Echelon form of a Matrix, Normal form of a Matrix, Inverse of a Matrix by elementary operations, System of linear homogeneous and non-homogeneous equations, Theorems on consistency of a system of linear equations.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including group discussions.
UNIT- 2	No. of Lectures - 11	Eigen values, Eigen vectors and characteristic equation of a matrix, Caley-Hamilton theorem and its use in finding inverse of a matrix, Complex functions and separation into real and imaginary parts, Exponential and Logarithmic functions Inverse trigonometric and hyperbolic functions.	
		Revision/ Tutorial	

		Class test/quiz -1	• Students invited from time to time to come on board to enhance their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel • **Suggested books:** 1. Stephen H. Friedberg, A.J Insel & L.E. Spence, Linear Algebra, Person 2. B. Rai, D.P. Choudhary & H. J. Freedman, A Course in Differential Equations, Narosa 3. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/
UNIT-3	No. of Lectures – 11	Formation of differential equations, Geometrical meaning of a differential equation, Equation of first order and first degree, Equation in which the variables are separable, Homogeneous equations, Exact differential equations and equations reducible to the exact form, Linear equations.	
UNIT 4	No. of Lecture-11	First order higher degree equations solvable for x, y, p, Clairaut's equation and singular solutions, orthogonal trajectories, Linear differential equation of order greater than one with constant coefficients, Cauchy- Euler form.	
		Revision/ Tutorial	4. D.A. Murray, Introductory Course in Differential Equations, Orient Longman
		Class test/quiz -2	

UNIT -5	No. of Lecture-12	General equation of second degree, System of conics, Tracing of conics, Confocal conics, Polar equation of conics and its properties.	5. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/ 6. Course Books published in Hindi may be prescribed by the Universities. 7. Robert J.T Bell, Elementary Treatise on Coordinate Geometry of three dimensions, Macmillan India Ltd. 8. P.R. Vittal, Analytical Geometry 2d & 3D, Pearson. 9. S.L. Loney, The Elements of Coordinate Geometry, McMillan and Company, London. 10. R.J.T. Bill, Elementary Treatise on Coordinate Geometry of Three Dimensions, McMillan India Ltd., 1994.
UNIT -6	No. of Lecture-11	Three-Dimensional Coordinates, Projection and Direction Cosine, Plane (Cartesian and vector form), Straight line in three dimension.	
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lectures-11	Sphere, Cone and Cylinder.	
UNIT -8	No of lectures -11	Central conicoids, Paraboloids, Plane section of conicoids, Generating lines, Confocal conicoids, Reduction of second degree equations.	
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no. of lectures =90	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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[Subject- MATHEMATICS]

Lesson Plan: [2022-23] [semester 1]

[Name of course B.Sc. (1) MATHEMATICS/ Certificate Course in Applied Mathematics]

[Paper – 1]

[Course code- B030101T]

[Paper title- Differential Calculus & Integral Calculus]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course - Dr. M. S. Arora, Dr. Sunil Kumar, Dr. Kirti Chauhan, Dr. Tarannun Siddiqi

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lectures - 09	Introduction to Indian ancient Mathematics and Mathematicians should be included under Continuous Internal Evaluation (CIE). Definition of a sequence, theorems on limits of sequences, bounded and monotonic sequences, Cauchy's convergence criterion, Cauchy sequence, limit superior and limit inferior of a sequence, subsequence, Series of non-negative terms, convergence and divergence, Comparison tests, Cauchy's integral test, Ratio tests, Root test, Raabe's logarithmic test, de Morgan and Bertrand's tests, alternating series, Leibnitz's theorem, absolute and conditional convergence.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance their understanding and
UNIT- 2	No. of Lectures - 07	Limit, continuity and differentiability of function of single variable, Cauchy's definition, Heine's definition, equivalence of definition of Cauchy and Heine, Uniform continuity, Borel's theorem, boundedness theorem, Bolzano's theorem, Intermediate value theorem, extreme value theorem, Darboux's intermediate value theorem for derivatives, Chain rule, indeterminate forms.	

		Revision/ Tutorial	presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel • **Suggested books:** 1. R.G. Bartle & D.R. Sherbert, Introduction to Real Analysis, John Wiley & Sons 2. T.M. Apostal, Calculus Vol. I, John Wiley & Sons Inc. 3. S. Balachandra Rao & C. K. Shantha, Differential Calculus, New Age Publication. 4. H. Anton, I. Birens and S. Davis, Calculus, John Wiley and Sons, Inc., 2002. 5. G.B. Thomas and R.L. Finney, Calculus, Pearson Education, 2007.
		Class test/quiz -1	
UNIT-3	No. of Lectures – 07	Rolle's theorem, Lagrange and Cauchy Mean value theorems, mean value theorems of higher order, Taylor's theorem with various forms of remainders, Successive differentiation, Leibnitz theorem, Maclaurin's and Taylor's series, Partial differentiation, Euler's theorem on homogeneous function.	
UNIT 4	No. of Lectures-07	Tangent and normals, Asymptotes, Curvature, Envelops and evolutes, Tests for concavity and convexity, Points of inflexion, Multiple points, Parametric representation of curves and tracing of parametric curves, Tracing of curves in Cartesian and Polar forms.	

		Revision/ Tutorial	6. Suggestive digital platforms web links: NPTEL/SWAYAM/MOOCS, www.mooc-
		Class test/quiz -2	

UNIT -5	No. of Lectures-09	Definite integrals as limit of the sum, Riemann integral, Integrability of continuous and monotonic functions, Fundamental theorem of integral calculus, Mean value theorems of integral calculus, Differentiation under the sign of Integration.	list.com/tags/mathe, http://heecontent.upsdc.gov.in/ 7. T.M. Apostal, Calculus Vol. II, John Wiley Publication 8. Shanti Narayan & Dr. P.K. Mittal, Integral Calculus, S.Chand 9. Erwin Kreyszig, Advanced Engineering Mathematics, John Wiley & Sons. 10. Suggestive digital platforms web links: NPTEL/SWAYAM/MOOCS, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/
UNIT -6	No. of Lectures-07	Improper integrals, their classification and convergence, Comparison test, μ-test, Abel's test, Dirichlet's test, quotient test, Beta and Gamma functions.	
		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lectures-07	Rectification, Volumes and Surfaces of Solid of revolution, Pappus theorem, Multiple integrals, change of order of double integration, Dirichlet's theorem, Liouville's theorem for multiple integrals.	
UNIT -8	No of Lectures -07	Vector Differentiation, Gradient, Divergence and Curl, Normal on a surface, Directional Derivative, Vector Integration, Theorems of Gauss, Green, Stokes and related problems.	
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no.of lectures =60	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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[Subject- MATHEMATICS]

Lesson Plan: [2023-24] [semester V]

[Name of course B.Sc. (III) MATHEMATICS/ Degree in Mathematics]

[Paper – 1]

[Course code- B030501T]

[Paper title- Group and Ring Theory & Linear Algebra]

[Lecture duration 60 mins]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course - Dr. Sunil Kumar, Dr. Kirti Chauhan.

S. No.	No. of Lectures	Topics Covered	Teaching Pedagogy/ Suggested books
UNIT -I	No. of Lecture -10	Introduction to Indian ancient Mathematics and Mathematicians should be included under Continuous Internal Evaluation (CIE). Automorphism, inner automorphism, Automorphism groups, Automorphism groups of finite and infinite cyclic groups, Characteristic subgroups, Commutator subgroup and its properties; Applications of factor groups to automorphism groups.	• Lectures delivered in the language comfortable to the students (Hindi and English mix) • Chalk and board method used most of the time. • Presentation delivered through PowerPoint in the topics of relevance. • Interactive teaching preferred including group discussions. • Students invited from time to time to come on board to enhance
UNIT- 2	No. of Lecture -10	Conjugacy classes, The class equation, p-groups, The Sylow theorems and consequences, Applications of Sylow theorems; Finite simple groups, Nonsimplicity tests; Generalized Cayley's theorem, Index theorem, Embedding theorem and applications.	
		Revision/ Tutorial	
		Class test/quiz -1	

UNIT-3	No. of Lectures – 09	Polynomial rings over commutative rings, Division algorithm and consequences, Principal ideal domains, Factorization of polynomials, Reducibility tests, Irreducibility tests, Eisenstein criterion, Unique factorization in Z[x].	their understanding and presentation skills. Students also encouraged to see Content uploaded on CSJM University website YouTube channel • **Suggested books:** 1. Topics in Algebra by I. N. Herstein. 2. Linear Algebra by K. Hoffman and R. Kunze. 3. Suggested digital plateform:NPTEL/SWAYAM/MOOCs, www.mooc-list.com/tags/mathe, http://heecontent.upsdc.gov.in/
UNIT 4	No. of Lecture-09	Divisibility in integral domains, Irreducibles, Primes, Unique factorization domains, Euclidean domains.	
		Revision/ Tutorial	
		Class test/quiz -2	
UNIT -5	No. of Lecture-10	Vector spaces, Subspaces, Linear independence and dependence of vectors, Basis and Dimension, Quotient space.	
UNIT -6	No. of Lecture-09	Linear transformations, The Algebra of linear transformations, rank nullity theorem, their representation as matrices.	

		Revision/ Tutorial	
		Class test/quiz -3	
UNIT -7	No. of Lecture-09	Linear functionals, Dual space, Characteristic values, Cayley Hamilton Theorem.	
UNIT -8	No of lectures -09	Inner product spaces and norms, Cauchy-Schwarz inequality, Orthogonal vectors, Orthonormal sets and bases, Bessel's inequality for finite dimensional spaces, Gram-Schmidt orthogonalization process, Bilinear and Quadratic forms.	
		Revision/ Tutorial	
		Class test/quiz -4	
	Total no. of lectures =75	DISPERSAL OF CLASS	
		END SEMESTER EXAM	

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LESSON PLAN – 2022-2023

[M. Sc. – Semester I]

[Subject – Mathematics]

[Course Code – B030704T]

[Course Title – Dynamics of Rigid Bodies]

[Course Type – Core Paper]

[Lecture duration – 60 Min.]

[Paper – IV]

[Level – P. G.]

[Mode – Offline]

[Credits / Max. Marks – 05/100]

Name of Faculty involved delivering the course – Dr. Tarannum Siddiqi

S.No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	1—5	Introductory lecture including Moments and product of inertia with examples	➢ Lectures delivered in the language comfortable to the students (Hindi and English mix). ➢ Chalk and board method used most of the time. ➢ Presentation delivered through PowerPoint or Beamer in the topics of relevance.
2.	6 – 10	Use of Routh's nile, Radius of gyration, Momental ellipsoid and ellipse	
3.	11 – 15	Principal axes, Equimomental system	
4.	16 – 20	D'Alembert's principle, General equation of motion, Motion of the centre of inertia	
5.	21- 25	Application of D'Alembert's principle to general equation of motion	

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6.	26- 30	Compound pendulum, Simple equivalent pendulum, Centre of percussion	➢ Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. ➢ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ➢ Students also encouraged to see the NPTEL and SWAYAM lectures available online. ***Recommended Books** ➢ Classical mechanics by J.C. Upadhyaya, Himalaya Publishing House Pvt. Ltd. ➢ Classical Mechanics by H. Goldstein, 2nd edition, Naross Publishing House. ➢ Classical Mechanics by
7.	31-35	Generalized coordinates, Degrees of freedom, Classification of mechanical systems	
8.	36-42	Generalized velocities, forces, kinetic energy	
9.	43-48	Lagrangian equations by D'Alembet's principle, Lagrangian function, Principle of conservation of energy	
10.	**Revision and Tutorial**		
11.	**Mid – Term exams**		
12.	49-54	Hamilton's principle, Hamilton's equation of motion and Hamiltonian function	
13.	55-60	Physical significance of the Hamiltonian, Derivation of Lagrange's equation by Hamilton's principle	
14.	61-65	Principle of least action, Deduction of Lagrange's equations using Hamilton's principle	
15.	66-70	Euler's dynamical equations, Kinetic energy. Euler's geometrical equations	
16.	71-75	Deduction of Euler's equations from Lagrange's equation, Deduction of Euler's equations from Hamilton's equation	

17.	**Revision**	Gupta, Kumar and Sharma. ➢ Dynamics of rigid Bodies by B.D. Sharma, B.S. Tyagi, Brahmanand, Kedar Nath Ram Nath Publishers, India.
18.	**Dispersal of class**	

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Lesson Plan: [2022-23] [Semester 2]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030802T]

[Subject- Mathematics]

[Paper-Advanced Topology]

[Paper – 2]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Maninder Singh Arora

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Compact sets and their properties, Finite intersection property, Bolzano Weierstrass property.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see
2	Lecture 6- 10	Continuous functions and compactness, Sequential compactness, Countable compactness and their comparison.	
3	Lecture 11- 15	Locally compact spaces and compactness in real line, ϵ-net, totally bounded sets.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Lebesgue numbers for covers, Lebesgue covering lemma, One point compactification.	
6	Class quiz		
7	Lecture 21- 25	Separated sets, Connectedness in terms of	

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		separated sets, Characterization of connected sets in terms of open sets and closed sets, Closure of a connected set.	the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook Topology without tears by Sidney A. Morris. Students also encouraged to see Content of Dr M S Arora uploaded on CSJM University website YouTube channel https://youtu.be/th2V6ffEjKI https://youtu.be/WhQ6gTRkrMg https://youtu.be/NDjmIjWne6o https://youtu.be/enADC9_cUuw and Video lectures of Dr M S Arora about the course on his personal YouTube channel. @drmanindersingharora6693 Quizzes conducted. Books suggested- George F. Simmons, Introduction to Topology and Modern Analysis, Mc Graw-Hill Book Company (1963). J. L. Kelley, General Topology, Van Nostrand, Reinhold Co., New York (1995). K. D. Joshi, Introduction to General Topology, Wiley Eastern Ltd. (1983). James R. Munkres, Topology, Prentice Hall of India Pvt. Ltd., New Delhi (2000). S. Willard, General Topology Addison-Wesley, Reading, 1970.
8	Lecture 26- 30	Union of connected sets, Connected sets in R, Continuity of a function and connectedness.	
9	Lecture 31- 35	Components and partition of space, Locally connected sets, Totally disconnected sets.	
10	Revision/ Tutorial		
11	Class quiz		
12	Lecture 36- 40	Directed sets, Residual subset, Cofinal subset, Nets and subnets and their examples, Convergence of a net.	
13	Lecture 41- 45	Characterisation of open sets, closed sets, closure, cluster point and limit point of a set in terms of net convergence. Hausdorffness and continuity of a function in terms of nets.	
14	Mid term exam		
15	Lecture 46- 50	Definition of filter and its examples, Free and fixed filters, Discrete and indiscrete filters, Neighbourhood filter,	
16	Lecture 51- 55	Comparison of filters, Filter base and convergence of a filter, Ultrafilters, Continuous functions and filters, Net based on filter and filter based on net.	
17	Lecture 56- 60	Quotient topology, Quotient	

		space X/R, Finite product space, Projection mapping,	J. Dugundji, Topology, Allyn and Bacon, 1966 (Reprinted in India by PHI).
18	Micro teaching by students		
19	Lecture 61- 65	Tychonoff product topology in terms of standard subbase and its characterizations in terms of projection maps,	
20	Lecture 66- 70	Continuous functions, Product of T_0, T_1, T_2, spaces,	
21	Lecture 71- 75	Connectedness and compactness, First and second countability for product spaces.	
22	Revision/ Tutorial		
23	Class quiz		
24	Dispersal of class		

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Lesson Plan: [2022-23] [semester 1]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030703T]

[Subject- Mathematics]

[Paper- Advanced Complex Analysis]

[Paper – 3]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Kirti Chauhan, Ms Ahana Verma

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 19	Stereographic projection, Branch point, Branch cut, Branches of multi-valued functions with special reference to $\arg z$, $log\, z$ and z^a, Morera's theorem, Cauchy's inequality, Maximum and minimum modulus principle, Schwarz's lemma, Open mapping theorem, Meromorphic functions.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 20- 38	Zeros of analytic functions, Singularities and their classification, Residues,	

		Argument principle, Rouche's theorem, Evaluation of real integrals, Linear and bilinear transformations, Fixed points, Cross ratio, Inverse points and critical points, Conformal transformations involving straight lines, circles and half-planes.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- Complex Variables with an Introduction to Conformal Mapping and its Applications, Schaum's Outlines, McGraw-Hill, 2009. John B. Convey, Functions of One Complex Variable, Springer. Walter Rudin, Real and Complex Analysis, McGraw-Hill Co., 1966. H. S. Kasana, Complex Variables: Theory and Applications, PHI Learning. S. Ponnusamy, Foundations of Complex Analysis, Narosa Pub. R. V. Churchill & J. W. Brown, Complex Variables and Applications, 5th Edition, McGraw-Hill, New York, 1990. Shanti Narayan, Theory of
5	Mid-Term		
6	Lecture 39-57	Weierstrass' factorization theorem, Gamma function and its properties, Riemann zeta function, Mittag-Leffler's theorem, Analytic continuation, Uniqueness of analytic continuation along a curve, Power series method of analytic continuation, Natural boundary, Schwarz's reflection principle.	
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 58-75	Harmonic functions on a disk, Harnack's inequality and theorem, Canonical products, Jensen's formula, Hadamard's three circle theorem, Entire functions, Order of an entire function, Exponent of convergence, Univalent functions, Bieberbach's theorem (statement only) and	

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		$^1/_4$ theorem, Convex functions and its properties.	Functions of a Complex Variable, S. Chand & Co., New Delhi.
10	Revision/ Tutorial		
11	Class quiz		
12	Dispersal of class		

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Lesson Plan: [2022-23] [semester 2]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030801T]

[Subject- Mathematics]

[Paper- Advanced Real Analysis]

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Sunil Kumar

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 19	Algebra of sets, Boral sets, F_σ and G_δ set, Measure, Finite and σ finite measure, Complete measure, Regularity of a measure, Lebesgue outer measure, Lebesgue measure, Measurable sets.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 20- 38	Measurable functions, Egoroff's theorem, Borel and Lebesgue measurability, Convergence in measure.	
5	Mid-Term		

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6	Lecture 39-57	Lebesgue integral of a bounded function, The general Lebesgue integral, Riemann and Lebesgue integrals, Lebesgue bounded convergence theorem, Integration of non-negative measurable functions, Fatau lemma, Lebesgue monotone convergence theorem, Integrable functions, Lebesgue integral of unbounded function, Lebesgue dominated convergence theorem.	theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Books suggested- G. de Barra, Measure theory and Integration, New age International (P) Limited publishers H. L. Royden, Real Analysis, Pearson Education Pvt. Ltd. P. R. Halmos, Measure theory, D Van Nostrand company. Parijat Sinha, Real Analysis, Kedarnath Ramnath Publications.
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 58-75	The L^P Spaces, Convex functions, Jensen's inequality, Holder and Minkowski inequalities, Risez Fischer theorem, Convergence in measure, Almost uniform convergence Signed measure, Positive and negative sets, Hahn-decomposition theorem, Jordan-decomposition theorem, Radon-Nikodym theorem.	
10	Revision/ Tutorial		
11	Class quiz		

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12	Dispersal of class		

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Lesson Plan: [2022-23] [Semester 2]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030803T]

[Subject- Mathematics]

[Paper- Operations Research]

[Paper – 3]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Tarannum Siddiqi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 19	History and development of operations research, Operations research and its scope, necessity of operations research in industry and management, Role of operations research in decision-making, Development of operations research in India, Job sequencing, Convex set and their Application.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 20- 38	Linear Programming: Simplex method, Theory of simplex method, Duality and	

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		sensitivity analysis. Integer programming: Branch and bound technique, Transportation and assignment problems.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- Kanti Swarup, P. K. Gupta and Manmohan: Operations Research, S. Chand and Co. H.A. Taha: Operations Research-An introduction, Macmillan Publishing Co. Inc., New York. P. K. Gupta and D. S. Hira: Operations Research-An introduction, S. Chand and Co. Ltd. New Delhi.
5	Mid-Term		
6	Lecture 39-57	Game theory: Two-person, zero-sum games, Games with mixed strategies, Principle of dominance, Solution of 2x2 games without saddle point, Graphical solution, Solution by linear programming. Dynamic Programming: Deterministic and probabilistic dynamic programming.	
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 58-75	Network Analysis: Shortest path problem, Minimum spanning tree problem, Maximum flow problem, Minimum cost flow problem, Project planning and control with PERT-CPM. Non-linear Programming: One and multi-variable unconstrained optimisation, Kuhn-Tucker conditions for constrained optimisation, Quadratic programming.	

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10	Revision/ Tutorial		
11	Class quiz		
12	Dispersal of class		

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Lesson Plan: [2022-23] [Semester 2]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030804T]

[Subject- Mathematics]

[Paper- Mathematical Statistics]

[Paper – 4(i)]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Kirti Chauhan

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 19	Random variable, Probability mass function, Probability density function, Cumulative distribution function, Two and higher dimensional random variables, Joint distribution, Marginal and conditional distributions, Stochastic independence, Function of random variables and their probability density functions. Discrete probability distributions: Binomial, Poisson, Geometric, Hyper geometric multinomial. Continuous probability distributions: Exponential, Gamma, Beta, Normal	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to

		distributions.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- Hogg R.V., Mckean, J. W. and Craig A. T.: Introduction of Mathematical Statistics, Seventh Edition (2013) Pearson India. Hoel P. G: Introduction to Mathematical Statistics, Fourth Edition ((1971), John Wiley & sons. Gupta S. C.and Kapoor V. K.: Fundamentals of Mathematical Statistics, (2019) Kedarnath Ramnath pub., Meerut India Mukhopadhyay, P. : Mathematical Statistics, (2016) Books and Allied Publications. Goon, A. M.,Gupta M. K. & Das Gupta B.: Fundamental of statistics, Vol. I, (2005), 8th Edition World Press, Kolkata.
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 20- 38	Mathematical expectations and moments, Moment generating function and its properties, Chebyshev's inequality and its application, Stochastic convergence, Central limit theorem, Partial and Multiple correlation coefficients, Correlation ratio, Association of attributes.	
5	Mid-Term		
6	Lecture 39-57	Sampling Distributions: Chi-square, t and F-distributions with their properties, Distribution of sample mean and variance, Distribution of order statistics and sample range from continuous populations. Applications of Sampling Distributions: Test of mean and variance in the normal distribution, Tests of single proportion and equality of two proportions, Chi-square test, t-test, F-test.	
7	Class quiz		
8	Revision/ Tutorial		

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9	Lecture 58-75	Testing of Hypothesis: Null hypothesis and its test of significance, Simple and composite hypothesis, MP test, UMP test, Likelihood tests (excluding properties of likelihood ratio tests). Point Estimation: Estimators, Properties of estimators, Unbiasedness, Consistency, Sufficiency, Efficiency.	
10	Revision/ Tutorial		
11	Class quiz		
12	Dispersal of class		

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Lesson Plan: [2022-23] [semester 1]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030701T]

[Subject- Mathematics]

[Paper-Real Analysis]

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Sunil Kumar

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 19	Countable and uncountable sets, Cardinal numbers, Schroeder-Bernstein theorem, Definition and existence of Riemann-Stieltjes integral, Properties of integral, Riemann Stieltjes integral as a limit of sums, Mean value theorem for RS-Integrals, Integration and differentiation, Fundamental theorem of integral calculus, Integration of vector valued functions, Rectifiable curves.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 20- 38	Uniform convergence of sequence and series of	

		functions, M_n-test, Weierstrass M-test, Abel test, Dirichlet test, Uniform convergence and continuity, Uniform convergence and integration, Uniform convergence and differentiation, Weierstrass approximation theorem.	presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Books suggested- G.F. Simmons, Topology and Modern Analysis, McGraw-Hill Book company. T.M. Apostol, Mathematical Analysis, Narosa Publishing House. W. Rudin, Principles of Mathematical Analysis, McGraw-Hill Book company. Parijat Sinha, Real Analysis, Kedarnath Ramnath Publications.
5	Mid-Term		
6	Lecture 39-57	Power series, Radius of convergence, Uniform convergence of power series, Uniqueness theorem for power series, Abel Theorem, Tauber's theorem, Function of bounded variation, Algebra of function of bounded variation, Jordan decomposition theorem, Absolute continuity.	
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 58-75	Concept of functions of several variables, Euclidian's spaces, Linear transformations, Limit of function, Continuous function, Derivatives in an open subset of R^n, Chain rule, partial derivatives. Directional derivative, Repeated partial derivatives, Mean value theorem for vector valued functions, Taylor's theorem, Inverse function theorem,	

		Implicit function theorem, Maxima and Minima of a real valued function defined on a subset of R^n.	
10	Revision/ Tutorial		
11	Class quiz		
12	Dispersal of class		

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Lesson Plan: [2022-23] [semester 1]

[Name of course M.Sc. (I) Mathematics/ Bachelor (Research) in Mathematics]

[Course code- B030702T]

[Subject- Mathematics]

[Paper-Topology]

[Paper – 2]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Dr Maninder Singh Arora

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Introductory lecture, Set, Continuum hypothesis, Axiom of choice, Zorn's lemma, Well ordering principle.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see
2	Lecture 6- 10	Topological space: Definition through open set axioms, Examples include usual topology, Ray, Lower limit and upper limit topologies on R, Co-finite and co-countable topologies, Weak and strong topologies.	
3	Lecture 11- 15	The topology of metric spaces, Equivalent metrics, Metrizable spaces, Intersection and union of topologies, Closed sets, Limit points, Derived sets, Adherent points, Dense set, Nowhere dense sets, Perfect sets, Characterization of closed sets in terms of derived sets, The interior of a set, Closure, Exterior, Boundary of a set.	
4	Revision/ Tutorial		

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5	Lecture 16- 20	Characterization of topologies in terms of closed sets, Kuratowski's closure axioms and characterization of topology in terms of these.	the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook Topology without tears by Sidney A. Morris. Students also encouraged to see Content of Dr M S Arora uploaded on CSJM University website YouTube channel https://youtu.be/th2V6ffEjKI https://youtu.be/WhQ6gTRkrMg https://youtu.be/NDjmIjWne6o https://youtu.be/enADC9_cUuw and Video lectures of Dr M S Arora about the course on his personal YouTube channel. @drmanindersingharora6693 Quizzes conducted. Books suggested- George F. Simmons, Introduction to Topology and Modern Analysis, Mc Graw-Hill Book Company (1963). J. L. Kelley, General Topology, Van Nostrand, Reinhold Co., New York (1995). K. D. Joshi, Introduction to General Topology, Wiley Eastern Ltd. (1983). James R. Munkres, Topology, Prentice Hall of India Pvt. Ltd., New Delhi (2000). S. Willard, General Topology
6	Class quiz		
7	Lecture 21- 25	Neighbourhoods, Neighbourhood system and neighbourhood base, Topology through neighbourhood axioms, Interior operator, Exterior operator,	
8	Lecture 26- 30	Characterization of topological spaces in terms of neighbourhoods, interior and exterior operator.	
9	Lecture 31- 35	Base and subbase for topology and characterization of topology in terms of base and subbase axioms, Topology generated by a family of subsets.	
10	Revision/ Tutorial		
11	Class quiz		
12	Lecture 36- 40	First countable and second countable spaces, Relative topology and subspaces, Hereditary property.	
13	Lecture 41- 45	Lindelof theorem and separable spaces, Continuous functions and their properties,	
14	Mid term exam		
15	Lecture 46- 50	Continuity in terms of open sets, closed sets, neighbourhoods and closures, Convergence of a sequence, Sequential continuity,	
16	Lecture 51- 55	Open mapping, Homeomorphisms, Topological invariant properties.	
17	Lecture 56- 60	Separation axioms- T_o, T_1, T_2 spaces.	

			Addison-Wesley, Reading, 1970. J. Dugundji, Topology, Allyn and Bacon, 1966 (Reprinted in India by PHI).
18	Micro teaching by students		
19	Lecture 61- 65	Regular, T_3, Normal and T_4 spaces, Their comparison and examples,	
20	Lecture 66- 70	Hereditary and Topological invariant characteristics, Completely regular space,	
21	Lecture 71- 75	Tychonoff space, Completely normal spaces, Urysohn's lemma and Tietze extension theorem.	
22	Revision/ Tutorial		
23	Class quiz		
24	Dispersal of class		

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Lesson Plan: [2023-24] [Semester 3]

[Name of course M.Sc. (II) Mathematics/ Master Degree in Mathematics]

[Course code- B030904T]

[Subject- Mathematics]

[Paper-Special Functions (Elective)]

[Paper – 4]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr Maninder Singh Arora, Ms. Shivoli Mourya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Introductory lecture, Absolute and uniform convergence of infinite products, The Weierstrass's infinite product and Euler's integral for Gamma function and their equivalence.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come
2	Lecture 6- 10	Beta function, Factorial function, Legendre's duplication formula, Gauss' multiplication theorem,	
3	Lecture 11- 15	Orthogonal sets of functions, orthogonal sets of polynomials, Gram-Schmidt process of orthonormalization.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Hypergeometric function, Series solution of hypergeometric differential equation. Integral representation of hypergeometric function.	
6	Class quiz		
7	Lecture 21- 25	Deductions from integral	

		representation of hypergeometric function, Contiguous function relations	on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Tutorials for weaker students. Quizzes conducted. Books suggested- E. D. Rainville: Special Functions, Chelsea Publishing Co., 1971. N. Saran, S. D. Sharma & T. N. Triuedi: Special Functions, PragatiPrakashan, Meerut. M. A. Pathan, V. B. L. Chaurasia, P. K. Banerji & M. C. Goyal : Special Functions and Calculus of Variations, Indus Valley Publications, New Delhi, 2004.
8	Lecture 26- 30	Relations between hypergeometric functions of z and $1-z$, Simple and quadratic transformations of hypergeometric function.	
9	Lecture 31- 35	Generalised and confluent hypergeometric function, Formation and solution of differential equation for generalised and confluent hypergeometric function.	
10	Revision/ Tutorial		
11	Mid term exam		
12	Lecture 36- 40	Contiguous function relations of confluent and generalized hypergeometric finctions, Saalschutz theorems.	
13	Lecture 41- 45	Whipple's theorems and Dixon's theorem, Contour integrals of Barnes' type, Hypergeometric forms of Legendre's polynomials.	
14	Lecture 46- 50	Doubly periodic functions, Elliptic functions and their properties.	
15	Lecture 51- 55	Weierstrass elliptic function and it's differential equation, Theta functions.	
16	Lecture 56- 60	Properties of theta functions, Relations involving theta functions and differential equations satisfied by theta functions.	
17	Micro teaching by students		
18	Revision/ Tutorial		
19	Class quiz		
20	Dispersal of class		

			Special Functions, Dr. Vinod Kumar, Epsilon Publishing House Pvt. Ltd., Kanpur, 2020.

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Lesson Plan: [2023-24] [Semester 3]

[Name of course M.Sc. (II) Mathematics/ Master Degree in Mathematics]

[Course code- B030903T]

[Subject- Mathematics]

[Paper- Fluid Dynamics

[Paper – 3]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr Tarannum Siddiqi, Ms. Shivoli Mourya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 15	Types of fluids, Continuum hypothesis, Lagrangian and Eulerian method of describing fluid motion, Equation of continuity in cartesian, Cylindrical polar, Spherical polar and Orthogonal curvilinear coordinates, Vorticity vector, Velocity potential, Stream lines, Path lines and streak lines, Rotational and irrotational motion of fluid, Boundary surface and boundary condition.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to
2	Class quiz		
3	Revision/ Tutorial		

4	Lecture 16-30	Euler's equation of motion: conservation of momentum, Bernoulli's equation, Lagrange's equation of motion, Energy equation, Impulsive effects, Helmholtz's vorticity theorem and vorticity equation, Applications of Bernoulli's equation.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Books suggested- W.H. Besant and A.S. Ramsey, A Treatise on Hydrodynamics, CBS publishers and Distributors, Delhi, 1988. R.K. Rathy, An introduction to Fluid Dynamics, Oxford and IBH Publishing Company, New Delhi; 1976. F. Charlton, A Text Book of Fluid Dynamics, CBC, 1985. S.W. Yuan, Foundations of Fluid Dynamics, Prentice – Hall of India, 1988.
5	Mid-Term		
6	Lecture 31-45	Two dimensional irrotational motion, Stream or current function, Physical significance of stream function, sources, sinks, doublets and their images in two-dimension, Complex potential, The Milne-Thomson circle theorem, Theorem of Blasius, Flow and circulation, Kelvin's circulation theorem, Permanence of irrotational motion, Kelvin's Minimum Kinetic Energy theorem.	
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 46-60	Motion of cylinders: General motion of cylinder in two dimensions, Kinetic energy, Motion of circular, coaxial and elliptic cylinders, Streaming past and circulation for a fixed circular and elliptic cylinder, Kinetic energy of rotating	

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		elliptic cylinder, The aerofoil.	
10	Revision/ Tutorial		
11	Class quiz		
12	Dispersal of class		

P.P.N. (P.G.) College, Kanpur

96/12 Mahatma Gandhi Marg, Kanpur -208001

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Lesson Plan: [2023-24] [Semester 4]

[Name of course M.Sc. (II) Mathematics/ Master Degree in Mathematics]

[Course code- B031002T]

[Subject- Mathematics]

[Paper- Integral Equations and Boundary Value Problems]

[Paper – 2]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr Maninder Singh Arora

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Introductory lecture, Definition of integral equations, Types of integral equations, Kernel, Fredholm and Volterra integral equations.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from
2	Lecture 6- 10	Verification of solution of integral equation, Conversion of integral equation to differential equation and vice-versa, Initial value problem & Volterra integral equation.	
3	Lecture 11- 15	Boundary value problem and Fredholm integral equation.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Solution of Fredholm integral equation by method of successive approximation, Resolvent kernel.	
6	Class quiz		
7	Lecture 21- 25	Solution of Fredholm integral equation by method of	

		resolvent kernel, Solution of Volterra integral equation by method of successive approximation	time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Tutorials for weaker students. Quizzes conducted. Books suggested- Linear integral equations theory & techniques, R.P. Kanwal Academic Press New York 1971. Linear integral equation & boundary value problem by M. D. Rai Singhania, S. Chand & Co. 2005. Integral Equation by Shanti Swaroop, Krishna Prakashan, 1989. A first course in integral equation, A
8	Lecture 26- 30	Solution of Volterra integral equation by method of successive substitution, Fredholm determinant, Convergence of Fredholm series.	
9	Lecture 31- 35	Contiguous function relations of confluent and generalized hypergeometric finctions, Saalschutz theorems.	
10	Revision/ Tutorial		
11	Mid term exam		
12	Lecture 36- 40	Solution of integral equation by Fourier transform method, Singular integral equation.	
13	Lecture 41- 45	Cauchy and Hilbert type kernel, Solution of singular integral equation having kernel of h(s)- h(t) type.	
14	Lecture 46- 50	Boundary value problem, Initial value problem, Green's function.	
15	Lecture 51- 55	Construction of Green's function from given boundary value problem.	
16	Lecture 56- 60	Applications of Green's function, Modified Green's function, Dirac Delta function.	
17	Micro teaching by students		
18	Revision/ Tutorial		
19	Class quiz		
20	Dispersal of class		

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Lesson Plan: [2023-24] [Semester 3]

[Name of course M.Sc. (II) Mathematics/ Master Degree in Mathematics]

[Course code- B030901T]

[Subject- Mathematics]

[Paper- Abstract Algebra

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr Sunil Kumar

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 15	Internal and external direct product of groups and their relationship, Normal and sub normal series of groups, Composition series, Zassenhaus lemma, Schreier theorem, Jordan Holder theorem.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 16-30	Commutator subgroup and commutator series of a group, Solvable groups, Solvability of subgroups and factor groups and of finite p groups, Lower and upper central series, Nilpotent groups.	

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5	Mid-Term		presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics.. Quizzes conducted. Books suggested- I. N. Herstein, Topics in Algebra, Wiley student edition Ram Ji Lal, Algebra I and Algebra II, Springer Joseph A. Gallian, Contemporary Abstract Algebra, Narosa Publications John B. Fraleign, A First Course in Abstract Algebra, Narosa Publications Vijay K. Khanna, S.K Bhambri, A Course in Abstract Algebra S. Lipschutz, Linear Algebra, Schaum's Outline Series.
6	Lecture 31-45	Cauchy theorems, Action of a group G on a set, Stabilizer subgroups and orbit decomposition, Class equation of an action, Sylow subgroups, Sylow's theorem I, II and III, p-groups, Examples and applications, Groups of order p.q, Direct and inverse images of Sylow subgroups, Structure theorem for finite abelian groups.	
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 46-60	Canonical forms, Similarity of linear transformations, Invariant subspaces, Reduction to triangular forms, Nilpotent transformations, Index of nilpotency, Invariants of a nilpotent transformation, The primary decomposition theorem, Jordan blocks and Jordan canonical forms.	
10	Revision/ Tutorial		
11	Class quiz		
12	Dispersal of class		

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Lesson Plan: [2023-24] [Semester 3]

[Name of course M.Sc. (II) Mathematics/ Master Degree in Mathematics]

[Course code- B030902T]

[Subject- Mathematics]

[Paper- Functional Analysis

[Paper – 2]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Dr Kirti Chauhan

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 15	Normed linear spaces, Examples of normed linear spaces and its topological properties, Cauchy's inequality, Hölder's and Minkowski's inequality, Convergence in normed linear spaces, Cauchy sequence, Banach space, Examples of Banach space, Quotient space of normed linear space, Equivalent norms, Riesz lemma.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to
2	Class quiz		
3	Revision/ Tutorial		
4	Lecture 16-30	Continuous linear transformation, Bounded	

		linear transformations, Norm of bounded linear transformation, Space of bounded linear transformations. Conjugate space (dual space), Functional, Hahn-Banach theorem for real and complex normed linear spaces, Applications of Hahn-Banach theorem, The natural embedding.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- G. F. Simmons, Introduction to Topology and Modern Analysis, McGraw-Hill, 1963. S. Ponnusamy, Foundations of Functional Analysis, Narosa Publishing House, New Delhi, 2002. G. Bachman and L. Narici, Functional Analysis, Academic Press, 1966. B. V. Limaye, Functional Analysis, Wiley Eastern Ltd. N. Saran and S. L. Shukla, Functional Analysis, Pragati Prakashan, Meerut. P. K. Jain, O. P. Ahuja and K. Ahmad, Functional Analysis, New Age International (P) Ltd. And Wiley Eastern Ltd., New Delhi, 1997.
5	Mid-Term		
6	Lecture 31-45	Open mapping theorem, Projection of Banach space, Closed graph theorem, Baire category theorem, Uniform boundedness principle. Inner product spaces, Hilbert spaces with examples, Cauchy-Schwarz's inequality.	
7	Class quiz		
8	Revision/ Tutorial		
9	Lecture 46-60	Orthogonal complement, Orthonormal set and its existence, Bessel's inequality, Complete orthonormal sets and its characterization. Continuous linear functional on Hilbert space, Riesz representation theorem, Reflexivity of Hilbert space. Weak and strong convergence.	

10	Revision/ Tutorial		B. Choudhary and S. Nanda, Functional Analysis with Applications, Wiley Eastern Ltd., 1989. J. N. Sharma and A. R. Vasishtha, Functional Analysis, Krishna Prakashan Media (P) Ltd., 2015.
11	Class quiz		
12	Dispersal of class		

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Mechanics and Wave Motion
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG11T
Year	First	**Theory/Pra.**	Theory
Faculty	Prof. Shripal	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Newtonian Mechanics and Conservation laws	15	Blackboard Teaching
II	Dynamics of Rigid Bodies and Elasticity	15	Blackboard Teaching
III	Central Forces and Gravitation	10	Blackboard Teaching
IV	Osillation and Waves	20	Blackboard Teaching
	Internal Assessment	2	Offline MCQ Test
	Total	**62**	

Faculty	Prof. Shripal	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Kinetic Theory and Thermodynamics
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG12T
Year	First	**Theory/Pra.**	Theory
Faculty	Dr. Satish Chandra	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Ideal gas and real gas	15	Blackboard & Powerpoint Teaching
II	Liquefaction of gases and transport phenomena in gases	15	Blackboard & Powerpoint Teaching
III	The laws of thermodynamics	20	Blackboard & Powerpoint Teaching
IV	Blackbody radiation	10	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Circuit Fundamentals and Basic Electronics
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG13T
Year	First	**Theory/Pra.**	Theory
Faculty	Dr. D. K. Pandey	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Fundamental Circuits and theorems	12	Blackboard & Powerpoint Teaching
II	Basics of Semiconductor, Diodes, Transitors and their Characteristics	18	Blackboard & Powerpoint Teaching
III	Transistor Biasing, Amplifiers and Oscillators	18	Blackboard & Powerpoint Teaching
IV	Modulation, Demodulation and CRO	12	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Physical Optics and Lasers
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG21T
Year	Second	**Theory/Pra.**	Theory
Faculty	Dr. Satish Chandra	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Interference	18	Blackboard & Powerpoint Teaching
II	Diffraction	18	Blackboard & Powerpoint Teaching
III	Polarization	14	Blackboard & Powerpoint Teaching
IV	Lasers	10	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Electromagnetics
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG22T
Year	Second	**Theory/Pra.**	Theory
Faculty	Dr. D. K. Pandey	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Electrostatics	18	Blackboard & Powerpoint Teaching
II	Magnetostatics	18	Blackboard & Powerpoint Teaching
III	Electromagnetic Induction	12	Blackboard & Powerpoint Teaching
IV	Electromagnetic Wave	12	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Elements of Quantum Mechanics, Atomic and Molecul…
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG23T
Year	Second	**Theory/Pra.**	Theory
Faculty	Dr. Renuka Arora	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Matter Waves	15	Blackboard & Powerpoint Teaching
2	Schrodinger Eq and its applications	15	Blackboard & Powerpoint Teaching
3	Atomic Spectra	23	Blackboard & Powerpoint Teaching
4	Molecular spectra	7	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. Renuka Arora	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Relativeity and Statistical Physics
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG31T
Year	Third	**Theory/Pra.**	Theory
Faculty	Prof. Shripal	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Special Theory of Relativity I	18	Blackboard Teaching
2	Special Theory of Relativity II	12	Blackboard Teaching
3	Statistical Physics I	13	Blackboard Teaching
4	Statistical Physics II	17	Blackboard Teaching
	Internal Assessment	2	Offline MCQ Test
	Total	**62**	

Faculty	Prof. Shripal	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Solid State and Nuclear Physics
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG32T
Year	Third	**Theory/Pra.**	Theory
Faculty	Dr. Renuka Arora	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1a	Crystal structure	7	Blackboard & Powerpoint Teaching
1b	Crystal diffraction and Reciprocal Lattice	7	Blackboard & Powerpoint Teaching
2a	Crystal bondings	7	Blackboard & Powerpoint Teaching
2b	Lattice vibrations	5	Blackboard & Powerpoint Teaching
3	Hall effect	4	Blackboard & Powerpoint Teaching
4a	General properties of nucleus	9	Blackboard & Powerpoint Teaching
4b	Nuclear forces and nuclear models	9	Blackboard & Powerpoint Teaching
4c	Nuclear Reactions	6	Blackboard & Powerpoint Teaching
4d	Elementary Particles	6	Blackboard & Powerpoint Teaching
	Internal assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. Renuka Arora	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	UG Physics	**Course**	Solid State Electronics
Programe Specific	Degree in Bachelor of Science	**Course Code**	PYUG33T
Year	Third	**Theory/Pra.**	Theory
Faculty	Dr. Satish Chandra	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Band Theory of Solids and pn Junction diode	18	Blackboard & Powerpoint Teaching
II	Transistor, Amplifier and Couplings	18	Blackboard & Powerpoint Teaching
III	Oscillators and FET, MOSFET	14	Blackboard & Powerpoint Teaching
IV	Digital Electronics	10	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Online MCQ Test
	Total	**62**	

Faculty	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
		Principal	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Mathematical Physics and Computational Methods
Programe Specific	Degree in Master of Science	**Course Code**	PYPG11C
Year	First	**Theory/Pra.**	Theory
Faculty 1	Guest Faculty I	**Lectures**	Three per week
Faculty 2	Guest Faculty III	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Elementary ideas about tensors, elements of complex analysis	40	Blackboard Teaching
II	Second order linear differential equation, fourier series and integarl transforms	40	Blackboard Teaching
III	Computational methods	35	Blackboard Teaching
IV	Numerical differentiation and integration	35	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Guest Faculty I	**Head**	Dr. Renuka Arora
Faculty	Guest Faculty III	**Principal**	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Classical and Statistical Physics
Programe Specific	Degree in Master of Science	**Course Code**	PYPG12C
Year	First	**Theory/Pra.**	Theory
Faculty 1	Prof. Shripal	**Lectures**	Three per week
Faculty 2	Guest Faculty I	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Lagrangian Formulation and Central Forces	28	Blackboard Teaching
2	Hamiltonian Formulation and Variational Principles	18	Blackboard Teaching
3	Canonical trnasformations and Poisson Brackets	12	Blackboard Teaching
4	Hamilton-Jacobi Theory, Small Oscillations	15	Blackboard Teaching
5	Foundation of Statistical Mechanics and Ensembles	32	Blackboard Teaching
6	Quantam Statistics	15	Blackboard Teaching
7	Interacting Systems	15	Blackboard Teaching
8	Fluid Statistics	15	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty	Guest Faculty I	**Principal**	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Quantum Mechanics
Programe Specific	Degree in Master of Science	**Course Code**	PYPG13C
Year	First	**Theory/Pra.**	Theory
Faculty 1	Prof. Shripal	**Lectures**	One per week
Faculty 2	Dr. Renuka Arora	**Lectures**	Three per week
Faculty 3	Guest Faculty I	**Lectures**	One per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Linear vector spaces	35	Blackboard Teaching
2	Angular momentum and identical particles	35	Blackboard Teaching
3	Perturbation theory	40	Blackboard Teaching
4	Scattering and relativistic wave equations	40	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty	Dr. Renuka Arora	**Principal**	Prof. Anoop Kumar Singh
Faculty	Guest Faculty I		

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Condensed Matter Physics and Semiconductor Devices
Programe Specific	Degree in Master of Science	**Course Code**	PYPG14C
Year	First	**Theory/Pra.**	Theory
Faculty 1	Guest Faculty II	**Lectures**	Two per week
Faculty 2	Dr. Satish Chandra	**Lectures**	One per week
Faculty 3	Guest Faculty III	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Crystallography, X-rays Diffraction and Reciprocal Lattice	40	Blackboard Teaching
II	Band Theory of Solids, Magnetic Properties of Matter	35	Blackboard Teaching
III	Power semiconductor devices and high frequency devices	40	Blackboard & Powerpoint Teaching
IV	Optoelectronic devices, memory and other devices	35	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Guest Faculty II	**Head**	Dr. Renuka Arora
Faculty	Dr. Satish Chandra	**Principal**	Prof. Anoop Kumar Singh
Faculty	Guest Faculty III		

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Atomic & Molecular Spectra and Nuclear & Particle Ph…
Programe Specific	Degree in Master of Science	**Course Code**	PYPG21C
Year	Second	**Theory/Pra.**	Theory
Faculty 1	Prof. Shripal	**Lectures**	One per week
Faculty 2	Dr. Renuka Arora	**Lectures**	Two per week
Faculty 3	Dr. D. K. Pandey	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Atomic Spectra	35	Blackboard Teaching
2	Molecular Spectra	40	Blackboard Teaching
3	Nuclear Forces, Reactions and Models	50	Blackboard Teaching
4	Nuclear Decay and Elementary Particles	25	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty	Dr. Renuka Arora	**Principal**	Prof. Anoop Kumar Singh
Faculty	Dr. D. K. Pandey		

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Electronics - I
Programe Specific	Degree in Master of Science	**Course Code**	PYPG22S
Year	Second	**Theory/Pra.**	Theory
Faculty 1	Guest Faculty I	**Lectures**	One per week
Faculty 2	Dr. Satish Chandra	**Lectures**	One per week
Faculty 3	Guest Faculty III	**Lectures**	Three per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Operational Amplifier	40	Blackboard Teaching
II	Optoelectronics and Fiber Optics	40	Blackboard Teaching
III	Microwave Devices & Communications	35	Blackboard & Powerpoint Teaching
IV	Communication Electronics	35	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Guest Faculty I	**Head**	Dr. Renuka Arora
Faculty	Dr. Satish Chandra	**Principal**	Prof. Anoop Kumar Singh
Faculty	Guest Faculty III		

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Electronics - II
Programe Specific	Degree in Master of Science	**Course Code**	PYPG23S
Year	Second	**Theory/Pra.**	Theory
Faculty 1	Dr. Satish Chandra	**Lectures**	Two per week
Faculty 2	Guest Faculty II	**Lectures**	Three per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
I	Digital Electronics	35	Blackboard & Powerpoint Teaching
II	Digital Communication I	45	Blackboard Teaching
III	Digital Communication II	40	Blackboard Teaching
IV	Microprocessor	30	Blackboard & Powerpoint Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**152**	

Faculty	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
Faculty	Guest Faculty II	**Principal**	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Electrodynamics and Plasma Physics
Programe Specific	Degree in Master of Science	**Course Code**	PYPG24C
Year	Second	**Theory/Pra.**	Theory
Faculty 1	Dr. D. K. Pandey	**Lectures**	Two per week
Faculty 2	Guest Faculty II	**Lectures**	One per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Radiation by Accelerated Charge Particle	25	Blackboard Teaching
2	Tensor Analysis of Electromagnetic Fields	15	Blackboard Teaching
3	Plasma and its Properties	25	Blackboard Teaching
4	Magnetohydrodynamics	10	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**77**	

Faculty	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
Faculty	Guest Faculty II	**Principal**	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Laser Physics and Applications
Programe Specific	Degree in Master of Science	**Course Code**	PYPG26E
Year	Second	**Theory/Pra.**	Theory
Faculty 1	Guest Faculty II	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Laser and Its Characteristics	35	Blackboard Teaching
2	Different Laser systems	25	Blackboard Teaching
3	Laser Spectroscopy	15	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**77**	

Faculty	Guest Faculty II	**Head**	Dr. Renuka Arora
Faculty		**Principal**	Prof. Anoop Kumar Singh

Session	2019-20	**Department**	Physics
Programe	PG Physics	**Course**	Physics of Nanomaterials
Programe Specific	Degree in Master of Science	**Course Code**	PYPG27E
Year	Second	**Theory/Pra.**	Theory
Faculty 1	Prof. Shripal	**Lectures**	Two per week

Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
1	Physics of Solid State	10	Blackboard Teaching
2	Quantam Nature of Nanoworld	30	Blackboard Teaching
3	Nano-fabrication	15	Blackboard Teaching
4	Characteriztion of Nano-materials	20	Blackboard Teaching
	Internal Assessment	2	Offline Subjective Test
	Total	**77**	

Faculty	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty		**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	UG Physics	**Course**	Mathematical Physics & Newtonian Mechanics
Programe Specific	Certificate in Basic Physics & Semiconductor Devices	**Course Code**	B010101T
Year	First	**Theory/Pra.**	Theory
Semester	I	**Credit**	4

A	**Faculty 1**	Mr. Rishabh Gupta	**Lectures**	Two per week
B	**Faculty 2**	Dr. Satish Chandra	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Vector Algebra	7	Blackboard Teaching
	II	Vector Calculus	8	Blackboard Teaching
	III	Coordinate Systems	8	Blackboard Teaching
	IV	Introduction to Tensors	7	Blackboard Teaching
B	V	Dynamics of a System of Particles	8	Blackboard & Powerpoint Teaching
	VI	Dynamics of a Rigid Body	8	Blackboard & Powerpoint Teaching
	VII	Motion of Planets & Satellites	7	Blackboard & Powerpoint Teaching
	VIII	Wave Motion	7	Blackboard & Powerpoint Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Mr. Rishabh Gupta	**Head**	Dr. Renuka Arora
Faculty 2	Dr. Satish Chandra	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	UG Physics	**Course**	Thermal Physics & Semiconductor Devices
	Programe Specific	Certificate in Basic Physics & Semiconductor Devices	**Course Code**	B010201T
	Year	First	**Theory/Pra.**	Theory
	Semester	II	**Credit**	4
A	**Faculty 1**	Dr. Satish Chandra	**Lectures**	Two per week
B	**Faculty 2**	Dr. D. K. Pandey	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	0th & 1st Law of Thermodynamics	8	Blackboard & Powerpoint Teaching
	II	2nd & 3rd Law of Thermodynamics	8	Blackboard & Powerpoint Teaching
	III	Kinetic Theory of Gases	7	Blackboard & Powerpoint Teaching
	IV	Theory of Radiation	7	Blackboard & Powerpoint Teaching
B	V	DC & AC Circuits	7	Blackboard & Powerpoint Teaching
	VI	Semiconductors & Diodes	8	Blackboard & Powerpoint Teaching
	VII	Transistors	8	Blackboard & Powerpoint Teaching
	VIII	Electronic Instrumentation	7	Blackboard & Powerpoint Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
Faculty 2	Dr. D. K. Pandey	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	UG Physics	**Course**	Electromagnetic Theory & Modern Optics
	Programe Specific	Diploma in Applied Physics with Electronics	**Course Code**	B010301T
	Year	Second	**Theory/Pra.**	Theory
	Semester	III	**Credit**	4
A	**Faculty 1**	Dr. D. K. Pandey	**Lectures**	Two per week
B	**Faculty 2**	Dr. Satish Chandra	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Electrostatics	8	Blackboard & Powerpoint Teaching
	II	Magnetostatics	8	Blackboard & Powerpoint Teaching
	III	Time Varying Electromagnetic Fields	7	Blackboard & Powerpoint Teaching
	IV	Electromagnetic Waves	7	Blackboard & Powerpoint Teaching
B	V	Interference	8	Blackboard & Powerpoint Teaching
	VI	Diffraction	8	Blackboard & Powerpoint Teaching
	VII	Polarization	7	Blackboard & Powerpoint Teaching
	VIII	Lasers	7	Blackboard & Powerpoint Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
Faculty 2	Dr. Satish Chandra	**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	UG Physics	**Course**	Perspectives of Modern Physics & Basic Electronics
Programe Specific	Diploma in Applied Physics with Electronics	**Course Code**	B010401T
Year	Second	**Theory/Pra.**	Theory
Semester	IV	**Credit**	4

A	**Faculty 1**	Dr. Renuka Arora	**Lectures**	Two per week
B	**Faculty 2**	Mr. Rishabh Gupta	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Relativity-Experimental Background	7	Blackboard & Powerpoint Teaching
	II	Relativity-Relativistic Kinematics	8	Blackboard & Powerpoint Teaching
	III	Inadequacies of Classical Mechanics	8	Blackboard & Powerpoint Teaching
	IV	Introduction to Quantum Mechanics	7	Blackboard & Powerpoint Teaching
B	V	Transistor Biasing	7	Blackboard Teaching
	VI	Amplifiers	7	Blackboard Teaching
	VII	Feedback & Oscillator Circuits	8	Blackboard Teaching
	VIII	Introduction to Fiber Optics	8	Blackboard Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Dr. Renuka Arora	**Head**	Dr. Renuka Arora
Faculty 2	Mr. Rishabh Gupta	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	UG Physics	**Course**	Classical & Statistical Mechanics
	Programe Specific	Degree in Bachelor of Science	**Course Code**	B010501T
	Year	Third	**Theory/Pra.**	Theory
	Semester	V	**Credit**	4
A	**Faculty 1**	Prof. Shripal	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Constrained Motion	6	Blackboard Teaching
	II	Lagrangian Formalism	9	Blackboard Teaching
	III	Hamiltonian Formalism	8	Blackboard Teaching
	IV	Central Force	7	Blackboard Teaching
	V	Macrostate & Microstate	6	Blackboard Teaching
	VI	Concept of Ensemble	6	Blackboard Teaching
	VII	Distribution Laws	10	Blackboard Teaching
	VIII	Applications of Statistical Distribution Laws	8	Blackboard Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	UG Physics	**Course**	Quantum Mechanics & Spectroscopy
	Programe Specific	Degree in Bachelor of Science	**Course Code**	B010501T
	Year	Third	**Theory/Pra.**	Theory
	Semester	V	**Credit**	4
A	**Faculty 1**	Mr. Rishabh Gupta	**Lectures**	Two per week
B	**Faculty 2**	Dr. Renuka Arora	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Operator Formalism	5	Blackboard Teaching
	II	Eigen & Expectation Values	6	Blackboard Teaching
	III	Uncertainty Principle & Schrodinger's Equation	7	Blackboard Teaching
	IV	Applications of Schrodinger Equation	12	Blackboard Teaching
B	V	Vector Atomic Model	10	Blackboard & Powerpoint Teaching
	VI	Spectra of Alkali & Alkaline Elements	6	Blackboard & Powerpoint Teaching
	VII	X-Rays & X-Ray Spectra	7	Blackboard & Powerpoint Teaching
	VIII	Molecular Spectra	7	Blackboard & Powerpoint Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Mr. Rishabh Gupta	**Head**	Dr. Renuka Arora
Faculty 2	Dr. Renuka Arora	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	UG Physics	**Course**	Solid State & Nuclear Physics
	Programe Specific	Degree in Bachelor of Science	**Course Code**	B010601T
	Year	Third	**Theory/Pra.**	Theory
	Semester	VI	**Credit**	4
A	**Faculty 1**	Dr. Renuka Arora	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Crystal Structure	7	Blackboard & Powerpoint Teaching
	II	Crystal Diffraction	7	Blackboard & Powerpoint Teaching
	III	Crystal Bindings	7	Blackboard & Powerpoint Teaching
	IV	Lattice Vibrations	9	Blackboard & Powerpoint Teaching
	V	Nuclear Forces & Radioactive Decays	9	Blackboard & Powerpoint Teaching
	VI	Nuclear Models & Nuclear Reactions	9	Blackboard & Powerpoint Teaching
	VII	Accelerators & Detectors	6	Blackboard & Powerpoint Teaching
	VIII	Elementary Particles	6	Blackboard & Powerpoint Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Dr. Renuka Arora	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	UG Physics	**Course**	Analog & Digital Principles & Applications
	Programe Specific	Degree in Bachelor of Science	**Course Code**	B010602T
	Year	Third	**Theory/Pra.**	Theory
	Semester	VI	**Credit**	4
A	**Faculty 1**	Dr. Satish Chandra	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Semiconductor Junction	9	Blackboard & Powerpoint Teaching
	II	Transistor Modeling	8	Blackboard & Powerpoint Teaching
	III	Field Effect Transistors	8	Blackboard & Powerpoint Teaching
	IV	Other Devices	5	Blackboard & Powerpoint Teaching
	V	Number System	6	Blackboard & Powerpoint Teaching
	VI	Binary Arithmetic	5	Blackboard & Powerpoint Teaching
	VII	Logic Gates	9	Blackboard & Powerpoint Teaching
	VIII	Combinational & Sequential Circuits	10	Blackboard & Powerpoint Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**62**	

Faculty 1	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Mathematical Physics-I
	Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010701T
	Year	Fourth	**Theory/Pra.**	Theory
	Semester	VII	**Credit**	4
A	**Faculty 1**	Mr. Rishabh Gupta	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Complex Analysis	10	Blackboard Teaching
	II	Linear Differential Equation and Special Functions	13	Blackboard Teaching
	III	Linear Vector Space	10	Blackboard Teaching
	IV	Probability Statistics and Elementary Tensor Analysis	12	Blackboard Teaching
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Mr. Rishabh Gupta	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Classical Mechanics
	Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010702T
	Year	Fourth	**Theory/Pra.**	Theory
	Semester	VII	**Credit**	4
A	**Faculty 1**	Prof. Shripal	**Lectures**	Two per week
B	**Faculty 2**	Guest Faculty I	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Advanced Classical Mechanics: From Newton to Lagrangian Formulations	8	Blackboard Teaching
	II	Dynamics of Central Forces and Principles of Variational Mechanics	12	Blackboard Teaching
	III	Hamiltonian Dynamics and Symmetry Principles in Classical Mechanics	12	Blackboard Teaching
B	IV	Advanced Dynamics: Hamilton-Jacobi Formulation and Rigid Body Motion	13	Blackboard Teaching
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty 2	Guest Faculty I	**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	PG Physics	**Course**	Electromagnetic Theory
Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010703T
Year	Fourth	**Theory/Pra.**	Theory
Semester	VII	**Credit**	4

A	**Faculty 1**	Dr. D. K. Pandey	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Maxwell equations and Conservation Laws	10	Blackboard Teaching
	II	Potential Form of Maxwell equations and its solutions	10	Blackboard Teaching
	III	Propagation of EM wave in different mediums and related phenomenons	15	Blackboard Teaching
	IV	Waveguide and its features	10	Blackboard Teaching
	V			
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	PG Physics	**Course**	Quantum Mechanics-I
Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010704T
Year	Fourth	**Theory/Pra.**	Theory
Semester	VII	**Credit**	4

A	**Faculty 1**	Dr. Renuka Arora	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Abstract formulation of quantum mechanics	17	Blackboard Teaching
	II	Quantum dynamics	17	Blackboard Teaching
	III	Angular momentum	11	Blackboard Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**47**	

Faculty 1	Dr. Renuka Arora	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Mathematical Physics-II
	Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010801T
	Year	Fourth	**Theory/Pra.**	Theory
	Semester	VIII	**Credit**	4
A	**Faculty 1**	Mr. Rishabh Gupta	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Partial Differential Equations	10	Blackboard Teaching
	II	Green's Function, Fourier and Laplace Transform	12	Blackboard Teaching
	III	Group theory	13	Blackboard Teaching
	IV	Numerical Analysis	10	Blackboard Teaching
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Mr. Rishabh Gupta	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Solid State Physics
	Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010802T
	Year	Fourth	**Theory/Pra.**	Theory
	Semester	VIII	**Credit**	4
A	**Faculty 1**	Guest Faculty II	**Lectures**	One per week
B	**Faculty 2**	Dr. D. K. Pandey	**Lectures**	Three per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Crystallography	6	Blackboard & Powerpoint Teaching
	II	X-Ray Diffraction and Reciprocal Lattice	8	Blackboard & Powerpoint Teaching
B	III	Metals	6	Blackboard Teaching
	IV	Lattice Dynamics	5	Blackboard Teaching
	V	Band Theory of Solids	10	Blackboard Teaching
	VI	Semiconductors & Superconductivity	10	Blackboard Teaching
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Guest Faculty II	**Head**	Dr. Renuka Arora
Faculty 2	Dr. D. K. Pandey	**Principal**	Prof. Anoop Kumar Singh

s	**Session**	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Statistical Mechanics
	Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010803T
	Year	Fourth	**Theory/Pra.**	Theory
	Semester	VIII	**Credit**	4
A	**Faculty 1**	Prof. Shripal	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Foundation of Statistical Physics	8	Blackboard Teaching
	II	Ensembles	15	Blackboard Teaching
	III	Quantum Statistics	12	Blackboard Teaching
	IV	Interacting systems with phase transitions	10	Blackboard Teaching
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Electronics
	Programe Specific	Degree in Bachelor of Science (Research)	**Course Code**	B010804T
	Year	Fourth	**Theory/Pra.**	Theory
	Semester	VIII	**Credit**	4
A	**Faculty 1**	Mr. Rishabh Gupta	**Lectures**	Two per week
B	**Faculty 2**	Dr. Satish Chandra	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Operational Amplifier	10	Blackboard Teaching
	II	Operational Amplifier Applications	13	Blackboard Teaching
B	III	Optoelectronic Devices	12	Blackboard & Powerpoint Teaching
	IV	Fiber Optics	10	Blackboard & Powerpoint Teaching
	V			
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Mr. Rishabh Gupta	**Head**	Dr. Renuka Arora
Faculty 2	Dr. Satish Chandra	**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	PG Physics	**Course**	Classical Electrodynamics and Plasma Physics
Programe Specific	Degree in Master of Science	**Course Code**	B010901T
Year	Fifth	**Theory/Pra.**	Theory
Semester	IX	**Credit**	4

A	**Faculty 1**	Dr. D. K. Pandey	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Basics of Classical Electrodynamics	10	Blackboard Teaching
	II	Tesnsor Analysis of Classical Electrodynamics	15	Blackboard Teaching
	III	Radiation due to relativistically accelarated charge	10	Blackboard Teaching
	IV	Basics of Plasma and Hydromagnetic waves	10	Blackboard Teaching
	V			
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Quantum Mechanics-II
	Programe Specific	Degree in Master of Science	**Course Code**	B010902T
	Year	Fifth	**Theory/Pra.**	Theory
	Semester	IX	**Credit**	4
A	**Faculty 1**	Dr. Renuka Arora	**Lectures**	Three per week
B	**Faculty 2**	Mr. Rishabh Gupta	**Lectures**	One per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Approximation methods for stationary systems	10	Blackboard Teaching
	II	Time dependent perturbation theory	12	Blackboard Teaching
	III	Scattering	13	Blackboard Teaching
B	IV	Relativistic Quantum Mechanics	10	Blackboard Teaching
		Internal Assessment	2	Online MCQ Test
		Total	**47**	

Faculty 1	Dr. Renuka Arora	**Head**	Dr. Renuka Arora
Faculty 2	Mr. Rishabh Gupta	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Nuclear Physics-I
	Programe Specific	Degree in Master of Science	**Course Code**	B010903T
	Year	Fifth	**Theory/Pra.**	Theory
	Semester	IX	**Credit**	4
A	**Faculty 1**	Prof. Shripal	**Lectures**	Two per week
B	**Faculty 2**	Guest Faculty I	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Nuclear Properties and Measurement Techniques	10	Blackboard Teaching
	II	Alpha & Beta Decay: Mechanisms, Theories, and Observations	10	Blackboard Teaching
	III	Gamma Emission: Properties, Interactions, and Special Phenom	10	Blackboard Teaching
B	IV	Nuclear Reactions and Advanced Nuclear Processes	15	Blackboard Teaching
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty 2	Guest Faculty I	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Electronics-I
	Programe Specific	Degree in Master of Science	**Course Code**	B010904T
	Year	Fifth	**Theory/Pra.**	Theory
	Semester	IX	**Credit**	4
A	**Faculty 1**	Guest Faculty I	**Lectures**	Two per week
B	**Faculty 2**	Dr. Satish Chandra	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Communications	12	Blackboard Teaching
	II	Antennas	7	Blackboard Teaching
	III	Noise	6	Blackboard Teaching
B	IV	Microprocessor	10	Blackboard & Powerpoint Teaching
	V	Microwave Devices & Communication	10	Blackboard & Powerpoint Teaching
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Guest Faculty I	**Head**	Dr. Renuka Arora
Faculty 2	Dr. Satish Chandra	**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	PG Physics	**Course**	Atomic and Molecular Physics
Programe Specific	Degree in Master of Science	**Course Code**	B011001T
Year	Fifth	**Theory/Pra.**	Theory
Semester	X	**Credit**	4

A	**Faculty 1**	Dr. D. K. Pandey	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Atomic Spectra I	10	Blackboard Teaching
	II	Atomic Spectra II	10	Blackboard Teaching
	III	Molecular Spectra I	10	Blackboard Teaching
	IV	Molecular Spectra II	15	Blackboard Teaching
	V			
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Dr. D. K. Pandey	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

Session	2023-24	**Department**	Physics
Programe	PG Physics	**Course**	Nuclear Physics-II
Programe Specific	Degree in Master of Science	**Course Code**	B011002T
Year	Fifth	**Theory/Pra.**	Theory
Semester	X	**Credit**	4

A	**Faculty 1**	Prof. Shripal	**Lectures**	Four per week
B	**Faculty 2**		**Lectures**	

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Fundamentals of Nuclear Interactions and scattering Phenomen	12	Blackboard Teaching
	II	Nuclear Models: Predictions and Dynamics, Rotational and Vibra	10	Blackboard Teaching
	III	Elementary Particles and conservation Principles	10	Blackboard Teaching
	IV	Quark Dynamics and the Foundations of the Standard Model	13	Blackboard Teaching
		Internal Assessment	2	Offline MCQ Test
		Total	**47**	

Faculty 1	Prof. Shripal	**Head**	Dr. Renuka Arora
Faculty 2		**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Electronics-II
	Programe Specific	Degree in Master of Science	**Course Code**	B011003T
	Year	Fifth	**Theory/Pra.**	Theory
	Semester	X	**Credit**	4
A	**Faculty 1**	Mr. Rishabh Gupta	**Lectures**	Three per week
B	**Faculty 2**	Guest Faculty II	**Lectures**	One per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Basics of Analog communication Electronics	10	Blackboard Teaching
	II	Study of different types of modulation methods	10	Blackboard Teaching
	III	Digital Modulation	10	Blackboard Teaching
B	IV	Techniques of Digital Modulation	15	Blackboard Teaching
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Mr. Rishabh Gupta	**Head**	Dr. Renuka Arora
Faculty 2	Guest Faculty II	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Laser Physics & Applications
	Programe Specific	Degree in Master of Science	**Course Code**	B011006T
	Year	Fifth	**Theory/Pra.**	Theory
	Semester	X	**Credit**	4
A	**Faculty 1**	Dr. Satish Chandra	**Lectures**	Two per week
B	**Faculty 2**	Guest Faculty II	**Lectures**	Two per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Basic Principle	13	Blackboard Teaching
	II	Laser Amplifier	12	Blackboard Teaching
B	III	Applications of Laser	10	Blackboard Teaching
	IV	Optical Fiber Communication	10	Blackboard Teaching
	V			
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Dr. Satish Chandra	**Head**	Dr. Renuka Arora
Faculty 2	Guest Faculty II	**Principal**	Prof. Anoop Kumar Singh

	Session	2023-24	**Department**	Physics
	Programe	PG Physics	**Course**	Physics of Nanomaterials
	Programe Specific	Degree in Master of Science	**Course Code**	B011007T
	Year	Fifth	**Theory/Pra.**	Theory
	Semester	X	**Credit**	4
A	**Faculty 1**	Guest Faculty II	**Lectures**	Three per week
B	**Faculty 2**	Prof. Shripal	**Lectures**	One per week

Part	Unit	Topic Covered	No.of Lectures	Teaching-Learning Methodolgy/Pedagogy
A	I	Physics of the Solid State	7	Blackboard Teaching
	II	Quantum Nature of the Nano-World	15	Blackboard Teaching
	III	Nanofabrication	10	Blackboard Teaching
B	IV	Characterization of Nano materials	13	Blackboard Teaching
	V			
	VI			
	VII			
	VIII			
		Internal Assessment	2	Offline Subjective Test
		Total	**47**	

Faculty 1	Guest Faculty II	**Head**	Dr. Renuka Arora
Faculty 2	Prof. Shripal	**Principal**	Prof. Anoop Kumar Singh

UG Political Science

Session 2022-2023

B.A.I/Sem I/ Paper-1 (NEP Course) Indian National Movement & Constitution of India

Names of faculty involved in delivering the course- Dr Rajesh Kumar and Dr Anuj Kumar Mishra

Course Code	A060101T	**Credit**	**4**

S. No.	**Lecture No.**	**Topics Covered**	**Teaching Pedagogy**
1	Lecture 1- 8	Birth, Growth and The Political Trends in The Indian National Movement.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- Abbas H, Alam M.A. & Kumar R (2011) 'Indian Government & Politics' Dorling Kindersley Pearson Pvt. Ltd.India Basu D. (2012) 'Introduction to the Constitution of India' Lexis NexisNewDelhi (English & Hindi) Bhargava (ed.) 'Politics & Ethics of the Indian Constitution' Oxford University Press New Delhi.
2	Lecture 9- 18	Stages Of Constitutional Development, Making of The Constituent Assembly, Philosophy of Indian Constitution, Citizenship.	
3	Lecture 19-28	Fundamental Rights, Fundamental Duties, Directive Principles of State Policy.	
4	Lecture 29-36	History Of Conflict Between Fundamental Rights & Directive Principles, Process of Amendment, Concept of Basic Structure of Constitution.	
5	Lecture 37-42	Union Executive & Union Legislature President, Cabinet, Prime Minster Lok Sabha and Rajya Sabha, Speaker.	
6	Class quiz		
7	Lecture 43-46	State Executive& Legislature: Powers, Functions and The Relationship Between the Governor & Chief Minister, The Legislative Assembly, The Legislative Council.	
8	Lecture 47-52	Judiciary: Composition, Powers & Jurisdiction Of Supreme Court, High Court, District Court	

9	Lecture 53-60	Centre-State Relations :Administrative ,Legislative &Financial, Special Provisions For Tribal Areas And N-E ,Composition, Function And Power Of Election Commission.	Biswal Tapan (2017) 'Bharatiya Shasan Samvaidhanik Loktantraaur Rajneetik Prakriya' Orient Blackswan NewDelhi. Chaube S. (2009) 'The Making & working of the Indian Constitution' National Book Trust, NewDelhi. Ghosh Peu (2012) 'Indian Government & Politics' PHI Learning Pvt. Ltd. NewDelhi. Singh M.P. & Sexena Rekha (2008) 'Indian Politics: Contemporary Issues and Concerns' Prentice Hall of India Pvt. Ltd. New Delhi.
10	Revision/ Tutorial		
11	Class quiz		

UG Political Science

Session 2022-2023

B.A.I/Sem1/ Paper-II (NEP Course) Awareness of Rights & Laws

Names of faculty involved in delivering the course- Dr Rajesh Kumar and Dr Anuj Kumar Mishra

Course Code	A060102T	**Credit**	**2**

S. No.	**Lecture No.**	**Topics Covered**	**Teaching Pedagogy**
1	Lecture 1- 8	Preamble Of The Indian Constitution, Equality Before Law And Equality Of Opportunity, Freedom of belief, Expression And Dissent, Cyber Crime, State& Cyber security	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Suggested readings- https://www.digitalindia.gov.in/services https://rtionline.gov.in/ https://www.india.gov.in/topics/law-justice Khosla, Madhav, et al. 2016. The Oxford Handbook of the Indian constitution. New delhi: OUP Benegal, Shyam. 2014. Samvidhan. Rajya Sabha TV
2	Lecture 9- 16	Rights And Obligations, Right To Education, Correlation Between Rights And Duties, Justiciability Of Fundamental Rights, Digital Empowerment through social networking sites, Citizen's Charter	
3	Class Quiz		
4	Lecture 17-24	Gender sensitivity, Unity in Diversity, State and Government, Nation Building, Affirmative Action, Universal Human Rights	
5	Lecture 25-30	Govt. Policies And Campaigns: Practical Teachings Right To Information ,Lokpal.	
6	Class quiz		
7	Revision/ Tutorial		

UG Political Science

Session 2022-2023

B.A.I/SemII/ Paper-I (NEP Course) Political Theory & Concepts

Names of faculty involved in delivering the course- Dr Rajesh Kumar and Dr Anuj Kumar Mishra

Course Code	A060201T	**Credit**	**6**

S. No.	**Lecture No.**	**Topics Covered**	**Teaching Pedagogy**
1	Lecture 1-12	Political Science: Definition, Nature, Scope, Methods And Relations With Other Social Sciences	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 1. AC Kapoor, Principals of political science. 2. Eddy Ashirwatham, political theory, S Chand Delhi,2009
2	Lecture 13-23	Traditional approaches: Institutional, Historical, Sociological, Philosophical or Normative. Modern Approaches: Behaviouralism, Post Behaviouralism	
3	Lecture 24-38	State: Definition and Elements, Origin theories: Divine theory, Force theory, Social Contract, Evolutionary theory, and Marxist theory. Functions of state: Idealistic theory, Liberal theory, Socialist theory and Welfare theory	
4	Lecture 39-49	Sovereignty: Monism and Pluralism. Law: Definition: Source, Classification. Punishment: Theories of punishment	
5	Class Quiz		
6	Lecture 50-61	Liberty, Equality, Justice, Power,	

		Influence, Authority, Legitimacy, Obligation, Rights, Duties	3. JC Johari, Modern political theory. 4. CEM Joad, Introduction to modern political theory. 5. R.C Aggarwal, Political Theory, S Chand 6. Appadorai, Substance of Politics, OUP, Delhi 2000 7. R. Bhargav& A. Acharya, Political theory: and introduction, pearson 2008 8. Amal Ray &Mohit Bhattacharya, Political Theory : An introduction, Pearson 2008 New Delhi 9. R.G. Aggarwal, Political Therory, S.Chand 2001 New Delhi. 10. O.P. Gauba, An introduction to political Theory, Macmillan 2001 New Delhi. 11. Eddy Ashirvatham, Political theory, S.Chand 2009 New Delhi. 12. J.C. Johri, AdhunikRajnitiVigyanKeSiddhant, Sterling Publication Pvt. Ltd. 1992, New Delhi. 13. RG Gettel. Political Science 14. David Held, Political Theory and the modern state: Essays on state, power and democracy 1989. 15. Andrew Heywood, Politics, Macmillan 2002
7	Lecture 62-72	Idealism, Liberalism, Anarchism, Socialism, Capitalism, Imperialism, Nationalism, Globalization,	
8	Lecture 73-81	Parliamentary vs Presidential System, Federal vs Unitary System Organs of Govt: Executive, Legislature, Judiciary.	
9	Lecture 82-90	Constitution, Constitutionalism Democracy, Totalitarianism, Public Opinion, Social Justice, Decentralization, Theories of Representation,	
10	Class Quiz		
11	Revision/ Tutorial		

UG Political Science

Session 2022-2023

B.A. II/SemIII/ Paper-I (NEP Course) Political Process in India

Names of faculty involved in delivering the course- Dr Rajesh Kumar and Dr Anuj Kumar Mishra

Course Code	A060301T	**Credit**	**4**

S. No.	**Lecture No.**	**Topics Covered**	**Teaching Pedagogy**
1	Lecture 1-10	Process of Democratization in Postcolonial India, Dimensions of Democracy: Social, Economic, Political, Factors Shaping the Indian Political System since Independence	Lectures delivered in a language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 1. Basu D.D., 'An Introduction to the Constitution of India', Prentice Hall, New Delhi. (Latest Edition) 2. Frankel Francine, Hasan Zoya,Bhargava Rajeev, Arora Balveer (eds.), Transforming India, Oxford 3. University Press, New Delhi, 2000. 4. Granville Austin Working a Democratic Constitution: The Indian Experience, Oxford University Press, New Delhi, 1999 5. JayalNiraja Gopal (Ed.): Democracy in India' Oxford India Paperbacks, New Delhi 2012 6. Kothari Rajni, 'Politics in India' Orient Blackswan Hyderabad, 2014 7. Kothari Rajni, 'Bharat mein Rajneeti: Kal aurAaj' Vani Prakashan New Delhi, 2007
2	Lecture 11- 18	Quasi-Federalism, Coalition, Political parties & Party System in India	
3	Lecture 19- 26	Impact of Democratic Decentralization: Urban and Local Self-government, 73rd & 74th Amendment of Indian Constitution	
4	Lecture 27- 36	Pressure Groups, Determinants of Voting Behavior, Cast &Politics,	

		Need of Electoral Reforms, The Politics of Secession and Accommodation	8. Narang A.S., Indian Government and Politics, Geetanjali Publishing House, New Delhi, 1996 (Latest edition) 9. Singh,M.P.,andSexenaRekha,IndianPolitics:Contemporary Issues&Concerns'PrenticeHallof 10. India Pvt. Ltd. New Delhi, 1998. 11. Bhargava (ed.) 'Politics & Ethics of the Indian Constitution' Oxford University Press New Delhi.
5	Class Quiz		
6	Lecture 37- 42	Religion & Politics in India, Debates on Secularism	
7	Lecture 43- 48	Affirmative Action Policies with Respect to Women, Cast and Class	
8	Lecture 49- 54	Challenges of Nation Building: Ethnicity, Language, Regionalism, Cast, Majority and Minority Communalism, Corruption	
9	Lecture 55-60	Politics of Defection, Politics of President rule	
10	Class quiz		
11	Revision / Tutorial		

UG Political Science

Session 2022-2023

B.A. II / SemIII / Paper-II (NEP Course) Field Work Tradition in Social Sciences

Names of faculty involved in delivering the course- Dr Rajesh Kumar and Dr Anuj Kumar Mishra

Course Code	A060302P	**Credit**	**2**

S. No.	**Lecture No.**	**Topics Covered**	**Teaching Pedagogy**
1	Lecture 1- 8	Uniqueness Of Social Sciences, Fact Value Dichotomy, Ethnocentrism, Participant Observation, Value Neutrality	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Suggested readings- 1. R. KUMAR, Research, Methodology: A Step-by-step guide for beginners, Pearson 2. P.N. Mukhergee, Methodology in social research, Sage publication, NewDelh 3. V.K. Srivastav, Methodology and Fieldwork, Oxford University Press New Delhi 4. R.N. Trivedi & DP Shukla, Research Methodology, College Book Depot,Jaipur 5. J.Galtunj, Theories and method of Social research, London
2	Lecture 9- 16	Empirical Research: Meaning, Types, Methods, Identification of Research Problem, Formulation of Hypothesis, Research Design	
3	Class Quiz		
4	Lecture 17-24	Data Collection: Method, Observation, Interview Schedule, Questionnaire, Case Study, Data Processing, Data Analysis	
5	Lecture 25-30	A Case Study on Any Socio-Political Relevant Topic of The Time And Place e.g. Analysis of any Election in India, Functioning of any organ or agency of United Nation	
6	Class quiz		
7	Revision/ Tutorial		

			6. P.V. Young, Scientific Social survey, New York, Parentice Hall Inc.

UG Political Science

Session 2022-2023

B.A. II / SemIV / Paper-II (NEP Course) Western Political Thought

Names of faculty involved in delivering the course- Dr Rajesh Kumar and Dr Anuj Kumar Mishra

Course Code	A060401T	**Credit**	**6**

S. No.	**Lecture No.**	**Topics Covered**	**Teaching Pedagogy**
1	Lecture 1- 12	Pre-Socratic Thought: Epicureans, Stoics Plato, Aristotle.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 1. E. Baker, The Political Thought of Plato and Aristotle, Metheun, 1906. 2. J. Coleman.A History of Political Thought: From Ancient Greece to Early Christianity, Oxford: Blackwell Publishers, 2000.
2	Lecture 13-23	Cicero, Thomas Aquinas and St Augustine, Renaissance & Reformation	
3	Lecture 24-34	Machiavelli, Austin, Jean Bodin	
4	Lecture 35-45	Thomas Hobbes, John Locke, J.J Rousseau	
5	Class Quiz		
6	Lecture 46-57	Jeremy Bentham, J S Mill, Harold Laski	
7	Lecture 58-68	T.H Green, G W Hegel, Karl Marx	
8	Lecture 69-79	Mary Wollstonecraft, Karl Popper, Rosa Luxemburg	
9	Lecture 80-90	John Rawls, Michael.J.Oakeshott and Hannah Arendt	
10	Class Quiz		
11	Revision/ Tutorial		

			3. K. Nelson, Brian, Western Political Thought: From Socrates to the Age of Ideology, Pearson. 1996 4. Jha, Shefali, Western Political Thought (From Plato to Marx), Pearson. 5. C. Macpherson, The Political Theory of Possessive Individualism: Hobbes to Locke. Oxford University Press, Ontario. 6. Kolakowski, Leszek, Main Currents of Marxism, Oxford University Press, 1978. 7. Okin, Susan Moller, Women in Western Political Thought, Princeton University Press, 8. H. R. Mukhi: A Simple History of Political Thought (Hindi & English) Surjeet Book Depot.

UG Political Science

Session 2022-2023

B.A. III /Paper- I (Old Course) Western Political Thinkers

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-8	Plato	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic.
2	Lecture 9-16	Aristotle	
3	Lecture 17-20	Machiavelli	
4	Lecture 21-25	Hobbes	
5	Lecture 26-30	Locke	
6	Class Quiz		
7	Lecture 31-35	Rousseau	
8	Lecture 36-44	Bentham and J.S. Mill	

9	Lecture 45-48	T.H. Green	Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books Suggested- 1. Brian R. Nelson, Western Political thought, Pearson Education, Delhi, 2009 2. C.L. Wayper, Political Thought, New Delhi, 1989 (Revised Edition) (English & Hindi) 3. Ian Adams & R.W.Dyson, Fifty Great Political Thinkers, Routledge, 2004 4. J. H. Hallowell, Main Currents in Modern Political Thought, New York, Holt, 1960 5. J. Laski, Political Thought from Locke to Bentham, Oxford, Oxford University Press, 1920 6. S. Mukherjee and S. Ramaswamy, A History of Political Thought: Plato to Marx, New Delhi, Prentice Hall, 1999 7. Sir E. Barker, The Political Thought of Plato and Aristotle, New York, 1959 8. Greek Political Theory: Plato and His Predecessors, New Delhi, B. I. Publications, 1964 9. W. L. Davidson, Political Thought in England: The Utilitarians from Bentham to Mill, Oxford, Oxford University Press, 1957 10. W. Ebenstein, Great Political Thinkers, New Delhi, Oxford & IBH, 1969. 11. जे पी सूद , राजनीितक िवचार9 का इितहास, भाग एक एवं दो 12. भुदत शमा:, आधुिनक राजनीितक िचंतन, िद&ली
10	Lecture 49-53	Hegel	
11	Lecture 54-60	Karl Marx	
13	Class Quiz		
14	Revision/ Tutorial		

UG Political Science

Session 2022-2023

B.A. III /Paper- II (Old Course) Public Administration

Names of faculty involved in delivering the course- Dr Rajesh Kumar

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Meaning, Nature and Scope of Public Administration, Public and Private Administration	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted Books Suggested- 1. Awasthi and S. Maheshwari, Public Administration, Laxmi Narain Agrawal, Agra (English & Hindi) 2. C.P. Bhambri, Administrators in a Changing Society: Bureaucracy and Politics in India, Vikas Publishers, Delhi, 1971 3. K.K. Puri (ed), Public Administration: Indian Spectrum, Kitab Mahal, Allahabad, 1982. 4. Mohit Bhattacharya, Public Administration, World Press Pvt Ltd. 5. M.P. Sharma and B.L. Sadhana, Public Administration in Theory
2	Lecture 6-15	Comparative Public Administration and Development Administration, New Public Administration, New Public Management	
3	Lecture 16-20	Principles of Organisation: Hierarchy, Span of Control, Unity of Command, Delegation, Supervision and Coordination	
4	Lecture 21-25	Structure of Organisation: Department, Corporation, Independent Regulatory Commission	
5	Lecture 26-30	Administrative Thinkers: Herbert Simon, Elton Mayo	
6	Class Quiz		

			and Practice, Kitab Mahal, Allahabad, 2001 (English & Hindi) 6. O.P. Diwedi & R.B. Jain, India's Administration State, Gitanjali Publishing House, New Delhi, 1998 7. R.P Joshi & G.S. Narwani, Panchayati Raj in India: Emerging Trends, Rawat, Jaipur, 2002 8. परमा1मा शरण चतुव;दी, लोक /शासन 9. ि◌व<णु भगवन, लोक /शासन
7	Revision/Tutorial		

UG Political Science

Session 2022-2023

B.A. III /Paper- II (Old Course) Public Administration

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
			Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted Books Suggested-
1	Lecture 1-5	Decision Making in Administration: Herbert Simon	
2	Lecture 6-14	Bureaucracy and Civil Service; Recruitment and Training, Generalist vs. Specialist Debate, Civil Service Neutrality	
3	Lecture 15-20	Legislative, Executive and Judicial Control over Administration	
4	Lecture 21-25	Budget, Performance Budget	
5	Lecture 26-30	Public Policy: Formulation, Implementation and Evaluation	
6	Class Quiz		
7	Revision/ Tutorial		

			1. Awasthi and S. Maheshwari, Public Administration, Laxmi Narain Agrawal, Agra (English & Hindi) 2. C.P. Bhambri, Administrators in a Changing Society: Bureaucracy and Politics in India, Vikas Publishers, Delhi, 1971 3. K.K. Puri (ed), Public Administration: Indian Spectrum, Kitab Mahal, Allahabad, 1982. 4. Mohit Bhattacharya, Public Administration, World Press Pvt Ltd. 5. M.P. Sharma and B.L. Sadhana, Public Administration in Theory and Practice, Kitab Mahal, Allahabad, 2001 (English & Hindi) 6. O.P. Diwedi & R.B. Jain, India's Administration State, Gitanjali Publishing House, New Delhi, 1998 7. R.P Joshi & G.S. Narwani, Panchayati Raj in India: Emerging Trends, Rawat, Jaipur, 2002 8. परमा1मा शरण चतुव;दी, लोक /शासन 9. ि◌व<णु भगवन, लोक /शासन

UG Political Science

Session 2022-2023

B.A. III /Paper- III (Old Course) International Politics

Names of faculty involved in delivering the course- Dr Rajesh Kumar

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	International Politics: Definition, Scope and Relevance	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic.
2	Lecture 6-20	Theories of International Politics: Realism and neo-Realism, Idealism, Behaviouralism, Constructivism, Feminism	
3	Lecture 16-20	Game Theory, Decision Making Theory,	

		Communications Theory	Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted Books Suggested- 1. Banerjee, A.K. (ed.), Security issues in South Asia: Domestic and external sources of threats to security Minerva, Calcutta, 1998 2. Ghosh, Partha S., Cooperation and conflict in South Asia, Manohar, New Delhi, 1989 3. Griffiths Martin and Terry O' Callaghan, International Relations – Key Concepts, Routledge, London, 2002 4. Gujral, I.K., A foreign policy for India, External publicity division, MEA, Government of India, Delhi, 1998 5. Sinha, Rameshwar P. and Surya Dandekar (eds.), South Asian politics: Ideologies and institutions New Delhi: Kanishka, 1998 6. State of democracy in South Asia, SDSA Team, Oxford, New Delhi, 2008 7. Upreti, B.C. et al. (eds.), India's foreign policy: Emerging challenges and paradigms (Delhi: Kalinga, 2003)
4	Lecture 21-25	Political System Theory and Balance of Power	
5	Lecture 26-30	Power and International Politics, Elements of Power	
6	Class Quiz		
7	Lecture 31-32	The Determinant of Foreign Policy	

UG Political Science

Session 2018-2019

B.A.I/Paper-II Indian Constitution

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 18	Making of Indian Constitution, Constituent Assembly: Composition and Working	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 1. G. Noorani, Constitutional Questions in India: The President, Parliament and the States, Delhi, Oxford University Press, 2000. 2. A.S. Narang, Indian Government, and Politics, Geetanjali Publishing House, New Delhi, 1996 (Latest edition) 3. Bidyut Chakrabarty & Rajendra Kumar Pandey, Indian Government and Politics, SAGE, New Delhi, 2008 4. D.D. Basu, An Introduction to the Constitution of India, Prentice Hall, New Delhi (Latest Edition) 5. G. Austin, The Indian Constitution: Corner Stone of a Nation, Oxford, Oxford University Press, 1966. 6. M.P. Singh & Rekha Saxena, Indian Politics: Contemporary issues and Concerns, Prentice Hall of India, Delhi, 2008.
2	Lecture 19-24	Preamble and Salient Features of Indian Constitution	
3	Lecture 25-33	Fundamental Rights and Fundamental Duties, Directive Principles of State Policy	
4	Lecture 34-45	President and Prime Minister	
5	Lecture 46-53	Parliament	
6	Class Quiz		
7	Lecture 54-62	Supreme Court, Judicial Review and Judicial Activism	
8	Lecture 63-69	Governor, Chief Minister, and State Legislatures	
9	Lecture 70-78	Panchayati Raj and Municipal Governments	
10	Lecture 79-88	Nature of Federal System and Centre-State Relations	
11	Lecture 89-90	Election Commission and Electoral Reforms, National Commission for Scheduled Castes, National Commission for Scheduled Tribes	
12	Class Quiz		
13	Revision/ Tutorial		

			7. M. V. Pylee, An Introduction to the Constitution of India, New Delhi, Vikas, 1998. 8. Nirja Gopal Jayal & Pratap Bhanu Mehta, The Oxford Companion to Politics in India, Oxford University Press, New Delhi, 2010. 9. Sunder Raman. Indian Government and Politics, Allied Publishers, New Delhi, 1988 10. Subhasn Kashyap, Our Constitution: An Introduction to India's Constitution and Constitutional law, national Book trust, India, New Delhi. 11. हिर मोहन जैन, भारतीय शासन और राजनीित, शारदा पु!तक भवन, इलाहाबाद 12. सुशीला कौिशक, भारतीय शासन और राजनीित, िद&ली िव(िव)ालय ,1984

UG Political Science

Session 2018-2019

B.A. II /Paper- II Comparative Government and Politics

(With Special Reference to UK, USA, Peoples' Republic of China and Nigeria)

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Governments: Parliamentary and Presidential, Unitary and Federal	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics.
2	Lecture 6-25	UK: Socio-Economic Foundations, Conventions and Traditions, The Crown, Cabinet System, Parliament, Party System, Judiciary	
3	Lecture 26-50	USA: Socio-Economic	

		Foundations, President, Congress, Supreme Court and Judicial Review, Party System	Quizzes conducted. Books suggested- 1. A.C. Kapoor & K.K. Mishra, Select Constitutions, S. Chand & Co., Delhi 2. G.A. Almond, G. B. Powell, K. Strom and R. Dalton, Comparative Politics Today: A World View, Pearson Education, Delhi, 2007, 3. H. Finer, Theory and Practice of Modern Government, London, Methuen, 1969. 4. S. E. Finer, Comparative Government, Harmondsworth, Penguin, 1974. 5. हिर मोहन जैन, ि◌व(के /मुख संि◌वधान, शारदा पु!तक भवन, इलाहाबाद, 2007. 6. सी बी गेना, तुलना1मक राजनीि◌त एवं राजनीि◌तक सं!थाएं , ि◌वकास पि5लिशंग, नई ि◌द&ली , 2007 7. इकबाल नारायण, ि◌व(के /मुख संि◌वधान 8. एच ऍम जैन, चार संि◌वधान 9. For Nigerian Constitution see the official government website http://www.nigeria-law.org/ConstitutionOfTheFederalRepublicOfNigeria.htm
4	Class Quiz		

UG Political Science

Session 2018-2019

B.A. III /Paper- I Western Political Thinkers

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-8	Plato	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance.
2	Lecture 9-16	Aristotle	
3	Lecture 17-20	Machiavelli	
4	Lecture 21-25	Hobbes	
5	Lecture 26-30	Locke	
6	Class Quiz		
7	Lecture 31-35	Rousseau	

8	Lecture 36-44	Bentham and J.S. Mill	Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books Suggested- 1. Brian R. Nelson, Western Political thought, Pearson Education, Delhi, 2009 2. C.L. Wayper, Political Thought, New Delhi, 1989 (Revised Edition) (English & Hindi) 3. Ian Adams & R.W.Dyson, Fifty Great Political Thinkers, Routledge, 2004 4. J. H. Hallowell, Main Currents in Modern Political Thought, New York, Holt, 1960 5. J. Laski, Political Thought from Locke to Bentham, Oxford, Oxford University Press, 1920 6. S. Mukherjee and S. Ramaswamy, A History of Political Thought: Plato to Marx, New Delhi, Prentice Hall, 1999 7. Sir E. Barker, The Political Thought of Plato and Aristotle, New York, 1959 8. Greek Political Theory: Plato and His Predecessors, New Delhi, B. I. Publications, 1964 9. W. L. Davidson, Political Thought in England: The Utilitarians from Bentham to Mill, Oxford, Oxford University Press, 1957 10. W. Ebenstein, Great Political Thinkers, New Delhi, Oxford & IBH, 1969. 11. जे पी सूद , राजनीितक िवचार9 का इितहास, भाग एक एवं दो 12. भुदत शमा:, आधुिनक राजनीितक िचंतन, िद&ली
9	Lecture 45-48	T.H. Green	
10	Lecture 49-53	Hegel	
11	Lecture 54-60	Karl Marx	
13	Class Quiz		
14	Revision/ Tutorial		

UG Political Science

Session 2018-2019

B.A. III /Paper- II Public Administration

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
			Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted Books Suggested- 1. Awasthi and S. Maheshwari, Public Administration, Laxmi Narain Agrawal, Agra (English & Hindi) 2. C.P. Bhambri, Administrators in a Changing Society: Bureaucracy and Politics in India, Vikas Publishers, Delhi, 1971
1	Lecture 1-5	Decision Making in Administration: Herbert Simon	
2	Lecture 6-14	Bureaucracy and Civil Service; Recruitment and Training, Generalist vs. Specialist Debate, Civil Service Neutrality	
3	Lecture 15-20	Legislative, Executive and Judicial Control over Administration	
4	Lecture 21-25	Budget, Performance Budget	
5	Lecture 26-30	Public Policy: Formulation, Implementation and Evaluation	
6	Class Quiz		
7	Revision/ Tutorial		

			3. K.K. Puri (ed), Public Administration: Indian Spectrum, Kitab Mahal, Allahabad, 1982. 4. Mohit Bhattacharya, Public Administration, World Press Pvt Ltd. 5. M.P. Sharma and B.L. Sadhana, Public Administration in Theory and Practice, Kitab Mahal, Allahabad, 2001 (English & Hindi) 6. O.P. Diwedi & R.B. Jain, India's Administration State, Gitanjali Publishing House, New Delhi, 1998 7. R.P Joshi & G.S. Narwani, Panchayati Raj in India: Emerging Trends, Rawat, Jaipur, 2002 8. परमा1मा शरण चतुव;दी, लोक /शासन 9. ि◌व<णु भगवन, लोक /शासन

UG Political Science

Session 2019-2020

B.A.I/Paper-II Indian Constitution

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 18	Making of Indian Constitution, Constituent Assembly: Composition and Working	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 13. G. Noorani, Constitutional Questions in India: The President, Parliament and the States, Delhi, Oxford University Press, 2000. 14. A.S. Narang, Indian Government, and Politics, Geetanjali Publishing House, New Delhi, 1996 (Latest edition) 15. Bidyut Chakrabarty & Rajendra Kumar Pandey, Indian Government and Politics, SAGE, New Delhi, 2008
2	Lecture 19-24	Preamble and Salient Features of Indian Constitution	
3	Lecture 25-33	Fundamental Rights and Fundamental Duties, Directive Principles of State Policy	
4	Lecture 34-45	President and Prime Minister	
5	Lecture 46-53	Parliament	
6	Class Quiz		
7	Lecture 54-62	Supreme Court, Judicial Review and Judicial Activism	
8	Lecture 63-69	Governor, Chief Minister, and State Legislatures	
9	Lecture 70-78	Panchayati Raj and Municipal Governments	
10	Lecture 79-88	Nature of Federal System and Centre-State Relations	
11	Lecture 89-90	Election Commission and Electoral Reforms, National Commission for Scheduled Castes, National Commission for Scheduled Tribes	
12	Class Quiz		
13	Revision/ Tutorial		

			16. D.D. Basu, An Introduction to the Constitution of India, Prentice Hall, New Delhi (Latest Edition) 17. G. Austin, The Indian Constitution: Corner Stone of a Nation, Oxford, Oxford University Press, 1966. 18. M.P. Singh & Rekha Saxena, Indian Politics: Contemporary issues and Concerns, Prentice Hall of India, Delhi, 2008. 19. M. V. Pylee, An Introduction to the Constitution of India, New Delhi, Vikas, 1998. 20. Nirja Gopal Jayal & Pratap Bhanu Mehta, The Oxford Companion to Politics in India, Oxford University Press, New Delhi, 2010. 21. Sunder Raman. Indian Government and Politics, Allied Publishers, New Delhi, 1988 22. Subhasn Kashyap, Our Constitution: An Introduction to India's Constitution and Constitutional law, national Book trust, India, New Delhi. 23. हिर मोहन जैन, भारतीय शासन और राजनीित, शारदा पु!तक भवन, इलाहाबाद 24. सुशीला कौिशक, भारतीय शासन और राजनीित, िद&ली िव(िव)ालय ,1984

UG Political Science

Session 2019-2020

B.A. II /Paper- II Comparative Government and Politics

(With Special Reference to UK, USA, Peoples' Republic of China and Nigeria)

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Governments: Parliamentary and Presidential, Unitary and Federal	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance.
2	Lecture 6-25	UK: Socio-Economic	

		Foundations, Conventions and Traditions, The Crown, Cabinet System, Parliament, Party System, Judiciary	Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 10. A.C. Kapoor & K.K. Mishra, Select Constitutions, S. Chand & Co., Delhi 11. G.A. Almond, G. B. Powell, K. Strom and R. Dalton, Comparative Politics Today: A World View, Pearson Education, Delhi, 2007, 12. H. Finer, Theory and Practice of Modern Government, London, Methuen, 1969. 13. S. E. Finer, Comparative Government, Harmondsworth, Penguin, 1974. 14. हिर मोहन जैन, ि व(के /मुख संि वधान, शारदा पु!तक भवन, इलाहाबाद, 2007. 15. सी बी गेना, तुलना1मक राजनीि त एवं राजनीि तक सं!थाएं , ि वकास पि5लिशंग, नई ि द&ली , 2007 16. इकबाल नारायण, ि व(के /मुख संि वधान 17. एच ऍम जैन, चार संि वधान 18. For Nigerian Constitution see the official government website http://www.nigeria-law.org/ConstitutionOfTheFederalRepublicOfNigeria.htm
3	Lecture 26-50	USA: Socio-Economic Foundations, President, Congress, Supreme Court and Judicial Review, Party System	
4	Class Quiz		

UG Political Science

Session 2019-2020

B.A. III /Paper- I Western Political Thinkers

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-8	Plato	Lectures delivered in the language comfortable to the students (Hindi and English mix)
2	Lecture 9-16	Aristotle	
3	Lecture 17-20	Machiavelli	

4	Lecture 21-25	Hobbes	Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books Suggested- 13. Brian R. Nelson, Western Political thought, Pearson Education, Delhi, 2009 14. C.L. Wayper, Political Thought, New Delhi, 1989 (Revised Edition) (English & Hindi) 15. Ian Adams & R.W.Dyson, Fifty Great Political Thinkers, Routledge, 2004 16. J. H. Hallowell, Main Currents in Modern Political Thought, New York, Holt, 1960 17. J. Laski, Political Thought from Locke to Bentham, Oxford, Oxford University Press, 1920 18. S. Mukherjee and S. Ramaswamy, A History of Political Thought: Plato to Marx, New Delhi, Prentice Hall, 1999 19. Sir E. Barker, The Political Thought of Plato and Aristotle, New York, 1959 20. Greek Political Theory: Plato and His Predecessors, New Delhi, B. I. Publications, 1964 21. W. L. Davidson, Political Thought in England: The Utilitarians from Bentham to Mill, Oxford, Oxford University Press, 1957 22. W. Ebenstein, Great Political Thinkers, New Delhi, Oxford & IBH, 1969.
5	Lecture 26-30	Locke	
6	Class Quiz		
7	Lecture 31-35	Rousseau	
8	Lecture 36-44	Bentham and J.S. Mill	
9	Lecture 45-48	T.H. Green	
10	Lecture 49-53	Hegel	
11	Lecture 54-60	Karl Marx	
13	Class Quiz		
14	Revision/ Tutorial		

			23. जे पी सूद , राजनीितक िवचार9 का इितहास, भाग एक एवं दो 24. भुदत शमा:, आधुिनक राजनीितक िचंतन, िद&ली

UG Political Science

Session 2019-2020

B.A. III /Paper- II Public Administration

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
			Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted Books Suggested-
1	Lecture 1-5	Decision Making in Administration: Herbert Simon	
2	Lecture 6-14	Bureaucracy and Civil Service; Recruitment and Training, Generalist vs. Specialist Debate, Civil Service Neutrality	
3	Lecture 15-20	Legislative, Executive and Judicial Control over Administration	
4	Lecture 21-25	Budget, Performance Budget	
5	Lecture 26-30	Public Policy: Formulation, Implementation and Evaluation	
6	Class Quiz		
7	Revision/ Tutorial		

			10. Awasthi and S. Maheshwari, Public Administration, Laxmi Narain Agrawal, Agra (English & Hindi) 11. C.P. Bhambri, Administrators in a Changing Society: Bureaucracy and Politics in India, Vikas Publishers, Delhi, 1971 12. K.K. Puri (ed), Public Administration: Indian Spectrum, Kitab Mahal, Allahabad, 1982. 13. Mohit Bhattacharya, Public Administration, World Press Pvt Ltd. 14. M.P. Sharma and B.L. Sadhana, Public Administration in Theory and Practice, Kitab Mahal, Allahabad, 2001 (English & Hindi) 15. O.P. Diwedi & R.B. Jain, India's Administration State, Gitanjali Publishing House, New Delhi, 1998 16. R.P Joshi & G.S. Narwani, Panchayati Raj in India: Emerging Trends, Rawat, Jaipur, 2002 17. परमा1मा शरण चतुव;दी, लोक /शासन 18. ि◌व<णु भगवन, लोक /शासन

UG Political Science

Session 2020-2021

B.A.I/Paper-II Indian Constitution

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 18	Making of Indian Constitution, Constituent Assembly: Composition and Working	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 25. G. Noorani, Constitutional Questions in India: The President, Parliament
2	Lecture 19-24	Preamble and Salient Features of Indian Constitution	
3	Lecture 25-33	Fundamental Rights and Fundamental Duties, Directive Principles of State Policy	
4	Lecture 34-45	President and Prime Minister	
5	Lecture 46-53	Parliament	
6	Class Quiz		
7	Lecture 54-62	Supreme Court, Judicial Review and Judicial Activism	
8	Lecture 63-69	Governor, Chief Minister, and State Legislatures	
9	Lecture 70-78	Panchayati Raj and Municipal Governments	
10	Lecture 79-88	Nature of Federal System and Centre-State Relations	
11	Lecture 89-90	Election Commission and Electoral Reforms, National Commission for	

		Scheduled Castes, National Commission for Scheduled Tribes	and the States, Delhi, Oxford University Press, 2000. 26. A.S. Narang, Indian Government, and Politics, Geetanjali Publishing House, New Delhi, 1996 (Latest edition) 27. Bidyut Chakrabarty & Rajendra Kumar Pandey, Indian Government and Politics, SAGE, New Delhi, 2008 28. D.D. Basu, An Introduction to the Constitution of India, Prentice Hall, New Delhi (Latest Edition) 29. G. Austin, The Indian Constitution: Corner Stone of a Nation, Oxford, Oxford University Press, 1966. 30. M.P. Singh & Rekha Saxena, Indian Politics: Contemporary issues and Concerns, Prentice Hall of India, Delhi, 2008. 31. M. V. Pylee, An Introduction to the Constitution of India, New Delhi, Vikas, 1998. 32. Nirja Gopal Jayal & Pratap Bhanu Mehta, The Oxford Companion to Politics in India, Oxford University Press, New Delhi, 2010. 33. Sunder Raman. Indian Government and Politics, Allied Publishers, New Delhi, 1988 34. Subhasn Kashyap, Our Constitution: An Introduction to India's Constitution and Constitutional law, national Book trust, India, New Delhi. 35. हिर मोहन जैन, भारतीय शासन और राजनीित, शारदा पु!तक भवन, इलाहाबाद 36. सुशीला कौिशक, भारतीय शासन और राजनीित, िद&ली िव(िव)ालय ,1984
12	Class Quiz		
13	Revision/ Tutorial		

UG Political Science

Session 2020-2021

B.A. II /Paper- II Comparative Government and Politics

(With Special Reference to UK, USA, Peoples' Republic of China and Nigeria)

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Governments: Parliamentary and Presidential, Unitary and Federal	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books suggested- 19. A.C. Kapoor & K.K. Mishra, Select Constitutions, S. Chand & Co., Delhi 20. G.A. Almond, G. B. Powell, K. Strom and R. Dalton, Comparative Politics Today: A World View, Pearson Education, Delhi, 2007, 21. H. Finer, Theory and Practice of Modern Government, London, Methuen, 1969. 22. S. E. Finer, Comparative Government, Harmondsworth, Penguin, 1974. 23. हिर मोहन जैन, ि व(के /मुख संि वधान, शारदा पु!तक भवन, इलाहाबाद, 2007. 24. सी बी गेना, तुलना1मक राजनीि त एवं राजनीि तक सं!थाएं , ि वकास पि5लिशंग, नई ि द&ली , 2007 25. इकबाल नारायण, ि व(के /मुख संि वधान 26. एच ऍम जैन, चार संि वधान 27. For Nigerian Constitution see the official government website http://www.nigeria-law.org/ConstitutionOfTheFederalRepublicOfNigeria.htm
2	Lecture 6-25	UK: Socio-Economic Foundations, Conventions and Traditions, The Crown, Cabinet System, Parliament, Party System, Judiciary	
3	Lecture 26-50	USA: Socio-Economic Foundations, President, Congress, Supreme Court and Judicial Review, Party System	
4	Class Quiz		

UG Political Science

Session 2020-2021

B.A. III /Paper- I Western Political Thinkers

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-8	Plato	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted. Books Suggested- 25. Brian R. Nelson, Western Political thought, Pearson Education, Delhi, 2009 26. C.L. Wayper, Political Thought, New Delhi, 1989 (Revised Edition) (English & Hindi) 27. Ian Adams & R.W.Dyson, Fifty Great Political Thinkers, Routledge, 2004 28. J. H. Hallowell, Main Currents in Modern Political Thought, New York, Holt, 1960 29. J. Laski, Political Thought from Locke to Bentham, Oxford, Oxford University Press, 1920 30. S. Mukherjee and S. Ramaswamy, A History of Political Thought: Plato to Marx, New Delhi, Prentice Hall, 1999 31. Sir E. Barker, The Political Thought of Plato and Aristotle, New York, 1959
2	Lecture 9-16	Aristotle	
3	Lecture 17-20	Machiavelli	
4	Lecture 21-25	Hobbes	
5	Lecture 26-30	Locke	
6	Class Quiz		
7	Lecture 31-35	Rousseau	
8	Lecture 36-44	Bentham and J.S. Mill	
9	Lecture 45-48	T.H. Green	
10	Lecture 49-53	Hegel	
11	Lecture 54-60	Karl Marx	
13	Class Quiz		
14	Revision/ Tutorial		

			32. Greek Political Theory: Plato and His Predecessors, New Delhi, B. I. Publications, 1964 33. W. L. Davidson, Political Thought in England: The Utilitarians from Bentham to Mill, Oxford, Oxford University Press, 1957 34. W. Ebenstein, Great Political Thinkers, New Delhi, Oxford & IBH, 1969. 35. जे पी सूद , राजनीितक िवचार9 का इितहास, भाग एक एवं दो 36. भुदत शमा:, आधुिनक राजनीितक िचंतन, िद&ली

UG Political Science

Session 2020-2021

B.A. III /Paper- II Public Administration

Names of faculty involved in delivering the course- Dr Anuj Kumar Mishra

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
			Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
1	Lecture 1-5	Decision Making in Administration: Herbert Simon	
2	Lecture 6-14	Bureaucracy and Civil Service; Recruitment and Training, Generalist vs. Specialist Debate, Civil Service Neutrality	
3	Lecture 15-20	Legislative, Executive and Judicial Control over Administration	
4	Lecture 21-25	Budget, Performance Budget	
5	Lecture 26-30	Public Policy: Formulation, Implementation and Evaluation	
6	Class Quiz		

7	Revision/ Tutorial		Students also encouraged to see the CEC lectures available online for understanding the advanced topics. Quizzes conducted Books Suggested- 19. Awasthi and S. Maheshwari, Public Administration, Laxmi Narain Agrawal, Agra (English & Hindi) 20. C.P. Bhambri, Administrators in a Changing Society: Bureaucracy and Politics in India, Vikas Publishers, Delhi, 1971 21. K.K. Puri (ed), Public Administration: Indian Spectrum, Kitab Mahal, Allahabad, 1982. 22. Mohit Bhattacharya, Public Administration, World Press Pvt Ltd. 23. M.P. Sharma and B.L. Sadhana, Public Administration in Theory and Practice, Kitab Mahal, Allahabad, 2001 (English & Hindi) 24. O.P. Diwedi & R.B. Jain, India's Administration State, Gitanjali Publishing House, New Delhi, 1998 25. R.P Joshi & G.S. Narwani, Panchayati Raj in India: Emerging Trends, Rawat, Jaipur, 2002 26. परमा1मा शरण चतुव;दी, लोक /शासन 27. ि◌व<णु भगवन, लोक /शासन

Lesson Plan: [2022-23] [semester 1]

[Name of course- Bachelor of Science]

[Course code- B040101T]

[Subject- BOTANY]

[Paper- Microbiology & Plant Pathology]

[Paper – 1]

[Lecture duration 60 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 04/100]

Names of faculty involved in delivering the course- Mrs Alka Rani , Mr Anil Singh & Dr Vinod Kumar

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 4	A. Introduction to Indian ancient, Vedic and heritage Botany and contribution of Indian Botanists, in context with the holistic development of modern science and technology, has to be taught, practiced and assessed via class interaction/ assignment/self-study mentioned under Continuous Internal Evaluation (CIE).	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some difficult topics. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook
2	Lecture 5- 8	B. Microbial Techniques & instrumentation Microscopy – Light, phase contrast, electron, scanning and transmission electron microscopy, staining techniques for light microscopy, sample preparation for electron microscopy. Common equipment of microbiology lab and principle of their working – autoclave, oven, laminar air flow, centrifuge. Colorimetry and spectrophotometry, immobilization methods,	

		fermentation and fermenters.	
3	Lecture 9-12	**Microbial world** Cell structure of Eukaryotic and prokaryotic cells, Gram positive and Gram-negative bacteria, Structure of a bacteria; Bacterial Chemotaxis and Quorum sensing, Bacterial Growth curve, factors affecting growth of microbes; Sporulation and reproduction and recombination in bacteria.	Quizzes conducted. Books suggested- 1.Microbiology Fundamental and Applications (hindi) (pb)ISBN:9788188826230 Edition: 03 Year 2016Author Dr. Purohit SS Dr. Deo Publisher Student Edition Language .. Hindi 2.Definitional Dictionary of Plant Pathology. Commission for Scientific and Technical Terminology 3. Modern Microbiology(hindi)(hb) ISBN:9788177543599Edition 1Year:2018 Author. Dr Purohit SS, Dr.Singh T Publisher: Agrobios (India) 4. Suggested books "Plant pathology by R.S. Mehrotra, Tata McGraw-Hill Education are included in| reading resources list
4	Lecture 13- 16	Viruses, general characteristics, viral culture, structure of viruses, Bacteriophages, Structure of T4 &, λ-phage; Lytic and Lysogenic cycles, viroid. Prions and mycoplasma and phytoplasma, Actinomycetes & plasmids and their economic uses.	
4	Revision/ Tutorial		
5	Lecture 17- 20	**Phycology** Range of thallus organization in Algae, Pigments, Reserve food – Reproduction – Classification and life cycle of *Nostoc, Chlorella, Volvox, Hydrodictyon, Oedogonium, Chara, Sargassum, Ectocarpus, Polysiphonia.*	
6	Class quiz		
7	Lecture 21- 23	Economic importance of algae – Role of algae in soil fertility-biofertilizer-Nitrogen fixation-Symbiosis; Commercial products of algae – biofuel, Agar.	
8	Mid Term Examination	Syllabus- Topics covered from Lecture 1-23	
9	Lecture 24-27	**Mycology** General characteristics, nutrition, life cycle, Economic importance of	

		Fungi, Classification upto class. Distinguishing characters of **Myxomycota:** General characters of Mastigomycotina, Zygomycota, Rhizopus,	
10	Lecture 28-30	**Ascomycota:** Saccharomyces, Penicillium, Peziza, **Basidiomycotina:** *Ustilago, Puccinia, Agaricus;* **Deuteromycotina :** *Fusarium, Alternaria,* Heterothallism, Physiological specialization, Heterokaryosis and Parasexuality.	
11	Revision/ Tutorial		
12	Class quiz		
13	Lecture 31-34	**Mushroom Cultivation, Lichenology & Mycorrhiza** Mushroom cultivaton. General account of lichens, reproduction and significance; *Mycorrhiza: ectomycorrhiza* and *endomycorrhiza* and their significance.	
14	Lecture 35-37	*Mycorrhiza: ectomycorrhiza* and *endomycorrhiza* and their significance.	
15	Lecture 38-41	**Plant Pathology** Disease concept, Symptoms, Etiology & causal complex, Primary and secondary inoculums, Infection, Pathogenicity and pathogenesis. Koch's Postulates. Mechanism of infection (Brief idea about Pre-penetration, Penetration and Post-penetration),	
16.	Lecture 42-44	Disease cycle (monocyclic, polychclic and polyetic). Defense mechanism with special reference to Phytoalexin, Resistance-Systemic acquired and	

		Induced systemic fungicides- Bordeaux mixture, Lime Sulphur, Tobacco decoction, Neem cake and oil.	
17	Revision/ Tutorial		
18	Lecture 45-48	**Diseases and Control** Symptoms, Causal organism, Disease cycle and Control measures of – Early and Late Blight of Potato, False Sumt of Rice/ Brown spot of rice, Black Stem Rust of Wheat, Alternaria spot and White rust of Crucifers, Red Rot of Sugarcane	
19	Lecture 49-52	Wilting of Arhar, Mosaic diseases on tobacco and cucumber, yellow vein mosaic of bhindi; Citrus Canker, Little Leaf of brinjal; Damping off of seedlings, Disease management: Quarantine. Chemical, Biological, Integrated pest disease management.	
20	Lecture 52-56		
	Lecture 57-60		
	Revision/ Tutorial		
	Class Quiz		
24	Dispersal of class		

Lesson Plan: [2018-19]

Name of course B.A.- III English Literature

Paper-1 (History of English Literature)

Lecture duration – 45min

Syllabus – Annual

Mode – Offline

Max. Marks – 50

Name of faculty involved in delivering the course – Dr. Suman Singh

S.No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	Lecture 1-3	Renaissance & Reformation	Lecture, Chalk & Board
2.	Lecture 4-8	Miracle & morality plays	Lecture, Projector for showing plays.
3.	Lecture 9-11	University Wits	Lecture
4.	Lecture 12-14	Elizabethan poetry	Lecture
5.	Lecture 15-17	Metaphysical poetry	Lecture
6.	Lecture 18-20	Neo-classicism	Lecture
7.	Lecture 21-23	Growth of the Novel	Lecture
8.	Lecture 24-25	Precursors of Romanticism	Lecture
9.	Lecture 26-27	Romanticism and the French Revolution	Lecture
10.	Lecture 28-29	Growth of Romantic Literature (Prose ,Poetry,Drama & Novel	Lecture
11.	Lecture 30	Pre-Raphaelite Poetry	Lecture
12.	Lecture 31	Naughty Nineties	Lecture
13.	Lecture 32-36	Trends in twentieth century literature with reference to Georgian poetry, imagism & Symbolism.	Lecture
14.	Lecture 37-39	Twentieth century Novel	Lecture

15.	Lecture 40-45	Twentieth century Drama	Use of projector Lecture Lecture
16.	Lecture 46-50	Growth of post-colonial literature	Lecture
17.	Lecture 51-55	Revision / Tutorial	

Lesson Plan: [2018-19] [Annual Course]

[Name of Course: B.A - I Economics]

[Subject – Economics]

[Paper –Micro Economics]

[Paper -I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course - Dr. R.K Dixit and Mr. Lalit Kumar Maurya

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	The subject matter of Economics, Scope and Method of Economics, The Economic Problem, Scarcity and Choice, the question of what to produce? How to produce? and how to distribute the output? Reading and working with graphs, the functioning of Market Economy, Price Mechanism and Profit Maximisation. Mathematical Concept: Variables, functions, equations and Identities, slope of line and curve	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Stonier and Hague: A Textbook of Economic theory R.G. Lipsey: An Introduction to positive Economics. Paul A Samuel.: Economics
2.	Lecture 13-20	Utility Analysis- utility and satisfaction, Total and Marginal utility, Cardinal and Ordinal Approach, Law of Diminishing Marginal Utility, Law of equi-marginal utility, Consumer's Equilibrium.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 21-30	Indifference curve Analysis - evolution and development of Indifference curve, Meaning and definition of Indifference Curve, properties of Indifference Curve, Indifference Schedule and curve,	

		Diminishing Marginal Rate of Substitution, Consumer's Equilibrium, Giffin's paradox and Inferior goods.	Gould and Ferguson: Micro Economic Theory मिश्र एवं पुरी: व्यष्टि अर्थशास्त्र डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: सूक्ष्म अर्थशास्त्र डॉ० एस०एन० लाल: व्यष्टि अर्थशास्त्र
6.	Lecture 31-42	Demand supply schedule and demand supply curve, Market vs. Individual demand. Expansion and Contraction of Demand, Increase and Decrease in Demand, Factors influencing demand, Law of Demand. Elasticity of Demand; changes in supply and factors influencing supply.	
7.	Test		
8.	Lecture 43-56	Production function- an elementary treatment. Laws of Returns, Returns to scale, Substitution in Production Producer's Equilibrium, Elasticity of Substitution, Cost Analysis.	
9.	Lecture 57-65	Firm and its objectives, Nature of Markets, Revenue Analysis, Price determination under Perfect Competition, Monopoly, Imperfect and Monopolistic competition-elementary theory	
10.	Micro teaching by students		
11.	Lecture 66-72	Marginal productivity theory of distribution, Modem theory of distribution, Rent-Ricardian and Opportunity Cost theories, Quasi Rent, Wages -Real wages and Money Wages, the Modem theory of wage determination Interest Classical, Loanable funds and the Keynesian theory Profit-Gross and Net Profit, Normal profit Accounting profit- Risk. Uncertainty and Innovation theories of Profit	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: B.A – I Economics]

[Subject – Economics]

[Paper – Nature and Problems of Indian Economy]

[Paper -II]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Natural Resources – Land, Water and Forest Resources, Demographic profile – size of population and growth rate, Sex Ratio, Rural - Urban migration, Occupational distribution, Demographic dividend –myth & reality	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Alak Ghosh: Indian Economy Dutta and Sundaram: Indian Economy Govt. of India: Annual Economic Survey Mishra and Puri: Indian Economy
2.	Lecture 10-18	Population policy, Structural transformation of Indian Economy, National Income, Objectives and strategies of planning in India, poverty, unemployment its nature & extent, employment policy in India	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	Trends in production and productivity, New Agricultural Strategy, Impact of Green Revolution, Disparities in Agricultural Growth –disparity of crops, regional disparity	
6.	Lecture 25-36	Issues related to landless agricultural labour and small and marginal farmers, Rural Credit, Agricultural Marketing, Irrigation and Water Management, Agricultural price policy, Agricultural rural development programmes, Land reform in agriculture	

7.	Test		Dr. S N Singh and Sunil Kumar Singh: Indian Economy Dr. A N Agrawal: Indian Economy
8.	Lecture 37-42	Growth and structure of Industrial Economy, Industrial Policy since economic reforms, Industrial Licensing Policy- M.R.T.P, F.E.R.A, and F.E.M.A	
9.	Lecture 43-54	Growth and problems of small-scale industries, Role of public sector Enterprises in India's industrialization, Sources of Industrial Finance, Problems of Indian industries, Service sector-meaning, role, structure and recent growth. MNC's & Public Private Partnership	
10.	Micro teaching by students		
11.	Lecture 55-62	Main problems of development in U.P. Causes of under–development, strategies adopted, Dislocation of industries from U.P, Issues related to poverty, employment and food security	
12.	Lecture 63-72	Implementation of Central Government Schemes – MNREGA, NRHM & Sarva – Shiksha Abhiyan, Panchayat Raj in U.P, Issues related to development of U.P, Land acquisition-Crisis and cure, Demographic Scenario of U.P	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2019-20] [Annual Course]

[Name of Course: B.A - I Economics]

[Subject – Economics]

[Paper –Micro Economics]

[Paper -I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course - Mr. Lalit Kumar Maurya

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	The subject matter of Economics, Scope and Method of Economics, The Economic Problem, Scarcity and Choice, the question of what to produce? How to produce? and how to distribute the output? Reading and working with graphs, the functioning of Market Economy, Price Mechanism and Profit Maximisation. Mathematical Concept: Variables, functions, equations and Identities, slope of line and curve	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Stonier and Hague: A Textbook of Economic theory R.G. Lipsey: An Introduction to positive Economics. Paul A Samuel.: Economics
2.	Lecture 13-20	Utility Analysis- utility and satisfaction, Total and Marginal utility, Cardinal and Ordinal Approach, Law of Diminishing Marginal Utility, Law of equi-marginal utility, Consumer's Equilibrium.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 21-30	Indifference curve Analysis - evolution and development of Indifference curve, Meaning and definition of Indifference Curve, properties of Indifference Curve, Indifference Schedule and curve, Diminishing Marginal Rate of	

		Substitution, Consumer's Equilibrium, Giffin's paradox and Inferior goods.	Gould and Ferguson: Micro Economic Theory मिश्र एवं पुरी: व्यष्टि अर्थशास्त्र डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: सूक्ष्म अर्थशास्त्र डॉ० एस०एन० लाल: व्यष्टि अर्थशास्त्र
6.	Lecture 31-42	Demand supply schedule and demand supply curve, Market vs. Individual demand. Expansion and Contraction of Demand, Increase and Decrease in Demand, Factors influencing demand, Law of Demand. Elasticity of Demand; changes in supply and factors influencing supply.	
7.	Test		
8.	Lecture 43-56	Production function- an elementary treatment. Laws of Returns, Returns to scale, Substitution in Production Producer's Equilibrium, Elasticity of Substitution, Cost Analysis.	
9.	Lecture 57-65	Firm and its objectives, Nature of Markets, Revenue Analysis, Price determination under Perfect Competition, Monopoly, Imperfect and Monopolistic competition-elementary theory	
10.	Micro teaching by students		
11.	Lecture 66-72	Marginal productivity theory of distribution, Modem theory of distribution, Rent-Ricardian and Opportunity Cost theories, Quasi Rent, Wages -Real wages and Money Wages, the Modem theory of wage determination Interest Classical, Loanable funds and the Keynesian theory Profit-Gross and Net Profit, Normal profit Accounting profit- Risk. Uncertainty and Innovation theories of Profit	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

[Name of Course: B.A – I Economics]

[Subject – Economics]

[Paper – Nature and Problems of Indian Economy]

[Paper -II]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
15.	Lecture 1-9	Natural Resources – Land, Water and Forest Resources, Demographic profile – size of population and growth rate, Sex Ratio, Rural - Urban migration, Occupational distribution, Demographic dividend –myth & reality	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Alak Ghosh: Indian Economy Dutta and Sundaram: Indian Economy Govt. of India: Annual Economic Survey Mishra and Puri: Indian Economy
16.	Lecture 10-18	Population policy, Structural transformation of Indian Economy, National Income, Objectives and strategies of planning in India, NITI Ayog, poverty, unemployment its nature & extent, employment policy in India, Skill India Mission, Make in India: Objectives and challenges	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Lecture 19-24	Trends in production and productivity, New Agricultural Strategy, Impact of Green Revolution, Disparities in Agricultural Growth –disparity of crops, regional disparity	
20.	Lecture 25-36	Issues related to landless agricultural labour and small and marginal farmers, Rural Credit, Agricultural Marketing, Irrigation and Water Management, Agricultural price policy, Agricultural rural development	

		programmes, Land reform in agriculture	Dr. S N Singh and Sunil Kumar Singh: Indian Economy Dr. A N Agrawal: Indian Economy
21.	Test		
22.	Lecture 37-42	Growth and structure of Industrial Economy, Industrial Policy since economic reforms, Industrial Licensing Policy- M.R.T.P, F.E.R.A, and F.E.M.A	
23.	Lecture 43-54	Growth and problems of small-scale industries, Role of public sector Enterprises in India's industrialization, Sources of Industrial Finance, Problems of Indian industries, Service sector-meaning, role, structure and recent growth. MNC's & Public Private Partnership	
24.	Micro teaching by students		
25.	Lecture 55-62	Main problems of development in U.P. Causes of under–development, strategies adopted, Dislocation of industries from U.P, Issues related to poverty, employment and food security	
26.	Lecture 63-72	Implementation of Central Government Schemes – MNREGA, NRHM & Sarva – Shiksha Abhiyan, Panchayat Raj in U.P, Issues related to development of U.P, Land acquisition-Crisis and cure, Demographic Scenario of U.P	
27.	Revision/Tutorial		
28.	Class Quiz		
29.	Dispersal of Class		

Lesson Plan: [2020-2021] [Annual Course]

[Name of Course: B.A - I Economics]

[Subject – Economics]

[Paper –Micro Economics]

[Paper -I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course – Mr. Lalit Kumar Maurya

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	The subject matter of Economics, Scope and Method of Economics, The Economic Problem, Scarcity and Choice, the question of what to produce? How to produce? and how to distribute the output? Reading and working with graphs, the functioning of Market Economy, Price Mechanism and Profit Maximisation. Mathematical Concept: Variables, functions, equations and Identities, slope of line and curve	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Stonier and Hague: A Textbook of Economic theory R.G. Lipsey: An Introduction to positive Economics. Paul A Samuel.: Economics
2.	Lecture 13-20	Utility Analysis- utility and satisfaction, Total and Marginal utility, Cardinal and Ordinal Approach, Law of Diminishing Marginal Utility, Law of equi-marginal utility, Consumer's Equilibrium.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 21-30	Indifference curve Analysis - evolution and development of Indifference curve, Meaning and definition of Indifference Curve, properties of Indifference Curve, Indifference Schedule and curve, Diminishing Marginal Rate of	

		Substitution, Consumer's Equilibrium, Giffin's paradox and Inferior goods.	Gould and Ferguson: Micro Economic Theory मिश्र एवं पुरी: व्यष्टि अर्थशास्त्र डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: सूक्ष्म अर्थशास्त्र डॉ० एस०एन० लाल: व्यष्टि अर्थशास्त्र
6.	Lecture 31-42	Demand supply schedule and demand supply curve, Market vs. Individual demand. Expansion and Contraction of Demand, Increase and Decrease in Demand, Factors influencing demand, Law of Demand. Elasticity of Demand; changes in supply and factors influencing supply.	
7.	Test		
8.	Lecture 43-56	Production function- an elementary treatment. Laws of Returns, Returns to scale, Substitution in Production Producer's Equilibrium, Elasticity of Substitution, Cost Analysis.	
9.	Lecture 57-65	Firm and its objectives, Nature of Markets, Revenue Analysis, Price determination under Perfect Competition, Monopoly, Imperfect and Monopolistic competition-elementary theory	
10.	Micro teaching by students		
11.	Lecture 66-72	Marginal productivity theory of distribution, Modem theory of distribution, Rent-Ricardian and Opportunity Cost theories, Quasi Rent, Wages -Real wages and Money Wages, the Modem theory of wage determination Interest Classical, Loanable funds and the Keynesian theory Profit-Gross and Net Profit, Normal profit Accounting profit- Risk. Uncertainty and Innovation theories of Profit	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2020-2021] [Annual Course]

[Name of Course: B.A – I Economics]

[Subject – Economics]

[Paper – Nature and Problems of Indian Economy]

[Paper -II]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
15.	Lecture 1-9	Natural Resources – Land, Water and Forest Resources, Demographic profile – size of population and growth rate, Sex Ratio, Rural - Urban migration, Occupational distribution, Demographic dividend –myth & reality	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Alak Ghosh: Indian Economy Dutta and Sundaram: Indian Economy Govt. of India: Annual Economic Survey Mishra and Puri: Indian Economy
16.	Lecture 10-18	Population policy, Structural transformation of Indian Economy, National Income, Objectives and strategies of planning in India, NITI Ayog, poverty, unemployment its nature & extent, employment policy in India, Skill India Mission, Make in India: Objectives and challenges	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Lecture 19-24	Trends in production and productivity, New Agricultural Strategy, Impact of Green Revolution, Disparities in Agricultural Growth –disparity of crops, regional disparity	
20.	Lecture 25-36	Issues related to landless agricultural labour and small and marginal farmers, Rural Credit, Agricultural Marketing, Irrigation and Water Management, Agricultural price policy, Agricultural rural development	

		programmes, Land reform in agriculture	Dr. S N Singh and Sunil Kumar Singh: Indian Economy Dr. A N Agrawal: Indian Economy
21.	Test		
22.	Lecture 37-42	Growth and structure of Industrial Economy, Industrial Policy since economic reforms, Industrial Licensing Policy- M.R.T.P, F.E.R.A, and F.E.M.A	
23.	Lecture 43-54	Growth and problems of small-scale industries, Role of public sector Enterprises in India's industrialization, Sources of Industrial Finance, Problems of Indian industries, Service sector-meaning, role, structure and recent growth. MNC's & Public Private Partnership	
24.	Micro teaching by students		
25.	Lecture 55-62	Main problems of development in U.P. Causes of under–development, strategies adopted, Dislocation of industries from U.P, Issues related to poverty, employment and food security	
26.	Lecture 63-72	Implementation of Central Government Schemes – MNREGA, NRHM & Sarva – Shiksha Abhiyan, Panchayat Raj in U.P, Issues related to development of U.P, Land acquisition-Crisis and cure, Demographic Scenario of U.P	
27.	Revision/Tutorial		
28.	Class Quiz		
29.	Dispersal of Class		

Lesson Plan: [2021-22] [Semester 1]

[Name of Course: B.A - I Economics]

[Course Code – A080101T]

[Subject – Economics]

[Paper – Principles of Micro Economics]

[Paper -I]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks- 06/25+75]

Names of faculty involved in delivering the course – Mr. Lalit Kumar Maurya and Dr. Vivek Singh

Part -I

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1- 5	Introduction: Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. Quizzes conducted
2.	Lecture 6- 10	Law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus	
3.	Lecture 11- 12	Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities.	
4.	Lecture 13- 20	Consumer Theory: Budget constraint, concept of utility, diminishing marginal utility, Diamond – water paradox, income and substitute	

		effects; consumer choice: indifference curve.	Books suggested – H.L Ahuja (2013): Advance Economic Theory, S. Chand & Company, Rahul A. Shastri (1999): Microeconomics, Orient Blackswan. H. L Ahuja (2012): Ucchatar Arthik Siddhant, S. Chand &Company, New Delhi. D.N Dwivedi (2011): Microeconomics – Theory and Application, Pearson. S.N Lal (2013): Arthshastra Ke Siddhant, Shiva Publishing House, Allahabad. M.L Seth (2012): Arthshastra Ke Siddhant, Laxmi Narayan Publications, Agra. Richard Lipsey, & Chrystal, Alec (2011): Economics, Oxford University Press Publications, New Delhi. Dominick Salvatore (2010): Principles of Microeconomics, Oxford University Press Publications, New Delhi. Paul A Samuelson, & William D Nordhaus (2010): Economics", Tata McGraw Hill.
5.	Lecture 21-25	Derivation of demand curve from indifference curve and budget constraint. Theory of Revealed Preference.	
6.	Class quiz		
7.	Lecture 26-30	Production and Costs: Production: behaviour of profit maximizing firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost-minimizing equilibrium condition	
8.	Lecture 31- 36	Costs: costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses, short-run industry supply curve, economies and diseconomies of scale, long-run adjustment.	
9.	Revision/ Tutorial		
10.	Class quiz		
11.	Lecture 37- 40	Market Structures Perfect Competition: a. Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.	

12.	Lecture 41- 46	Imperfect Competition Monopolistic competition: Assumptions, SR& LR price and output determinations under monopolistic competition, economic efficiency and resource allocation; oligopoly: assumptions, oligopoly models, game theory, contestable markets, role of government.	A Koutsoyiannis (2008) (2nded): Modern Microeconomics, Macmillan.
13.	Class quiz		
14.	Revision/ Tutorial		

Part – II

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
15.	Lecture 47-51	Theory of a Monopoly Firm Concept of imperfect competition, short-run and long-run price and output decisions of a monopoly firm; concept of a supply curve under monopoly	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – H.L Ahuja (2013): Advance Economic Theory, S. Chand & Company, Rahul A. Shastri
16.	Lecture 52-57	Comparison of perfect competition and monopoly, social cost of monopoly, price discrimination, remedies for monopoly, Antitrust laws, natural monopoly.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Lecture 58-62	Consumer and Producer Theory Consumer and Producer Theory in Action Externalities, marginal cost pricing, internalising externalities, public goods, imperfect information, adverse selection, moral hazard, social choice, government inefficiency.	
20.	Lecture 63-68	Markets and Market Failure Market adjustment to changes in demand, efficiency of perfect competition, sources of market failure: imperfect markets, public goods, externalities, imperfect	

		information; evaluating the market mechanism.	(1999): Microeconomics, Orient Blackswan. H. L Ahuja (2012): Ucchatar Arthik Siddhant, S. Chand &Company, New Delhi. D.N Dwivedi (2011): Microeconomics – Theory and Application, Pearson. S.N Lal (2013): Arthshastra Ke Siddhant, Shiva Publishing House, Allahabad. M.L Seth (2012): Arthshastra Ke Siddhant, Laxmi Narayan Publications, Agra. Richard Lipsey, & Chrystal, Alec (2011): Economics, Oxford University Press Publications, New Delhi. Dominick Salvatore (2010): Principles of Microeconomics, Oxford University Press Publications, New Delhi. Paul A Samuelson, & William D Nordhaus (2010): Economics", Tata McGraw Hill. A Koutsoyiannis (2008) (2nded): Modern Microeconomics, Macmillan.
21	Mid-term exam		
22.	Lecture 69-73	<u>Income Distribution and Factor pricing</u> Input markets, demand for inputs, labour markets	
23.	Lecture 74-79	Land markets, profit maximisation condition in input markets, input demand curves, distribution of Income.	
24.	Micro teaching by students		
25.	Lecture 80-82	<u>Welfare Economics</u> Concept & Definition of Welfare Economics. Normative &Positive Economics. Concepts of Social Welfare. Role of Value Judgment in Welfare Economics, Individual & Social Welfare.	
26.	Lecture 83-86	Pareto Optimality, Conditions of Pareto Optimality. New Welfare Economics, Kaldor-Hicks Welfare Criterion.	
27.	Lecture 87-90	Scitovsky Paradox & Scitovsky's Double Criterion, Grand Utility Possibility Frontier, Social Welfare Function, Theories of Social Choice.	
28.	Revision/Tutorial		
29.	Class Quiz		
30.	Dispersal of Class		

[Lesson Plan: [2021-22] [Sem-II]

[Name of Course: B.A – 1 Economics]

[Course code – A080201T]

[Paper – Macro Economics]

[Paper – 1]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks-06/100]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**Unit-1 Macro Economics and National Income Analysis:** Meaning, Subject matter and limitation of macro Economics, Macro Economic Paradoxes, Role of government in macro economy macro statics, comparative statics and dynamics, Meaning of National income accounts, some basic concepts domestic territory of a country	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time.
2.	Lecture 10-18	Normal resident of a country, Stocks and flows, National capital, Wealth and income, National income and related aggregates, GDP, GNP, NDP, NNP (both at market prices and factor cost), Private income, personal income disposable income, capital formation, Distinction between goods and services, producers' goods and consumer goods, intermediate goods and final goods.	Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before.
3.	Revision/ Tutorial		Quizzes conducted.
4.	Class Quiz		

5.	Lecture 19-24	**Unit-2 Generation of income and measurement of national income:** Generation of income and production process, sources of income-Domestic factors of income, compensation of employees, operating surplus, mixed income of self employed, net factor income from abroad	**Book suggested-** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Macro Economics – Manikew Macro Economics – Dr. D. Awasthi
6.	Lecture 25-36	Method of measurement of national income-value added method, expenditure method, components of final expenditure method, limitations of GDP concept- green accounting, parallel economy.	
7.	Test		
8.	Lecture 37-42	**Unit-3 Determination of income and Employment:** The classical theory of employment the labour market, the product market, the capital market, concept of wage-price flexibility, J. M. Keynes, criticism of the classical model, The Keynesian model- aggregate expenditure and equilibrium output,	
9.	Lecture 43-54	Concept of effective demand, theories of macro consumption function, investment function, saving and investment equilibrium-ex poste and ex-ante, liquidity trap, role and importance of investment multiplier, elementary ideas of IS & LM curves.	
10.	Micro Teaching by students		
11.	Lecture 55-62	**Unit-4 Trade cycle:** Nature and characteristics, Hawtrey's monetary theory, Hayek's over-investment theory, Keynes views on trade cycle	
12.	Lecture 63-72	The concept of accelerator, super multiplier, multiplier- accelerator theories of trade cycle, control of trade cycle.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2022-23] [Semester 1]

[Name of Course: B.A - I Economics]

[Course Code – A080101T]

[Subject – Economics]

[Paper – Principles of Micro Economics]

[Paper -I]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks- 06/25+75]

Names of faculty involved in delivering the course – Mr. Lalit Kumar Maurya and Dr. Vivek Singh

Part -I

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1- 5	Introduction: Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. Quizzes conducted Books suggested – H.L Ahuja (2013): Advance Economic Theory, S. Chand & Company, Rahul A. Shastri (1999): Microeconomics, Orient Blackswan.
2.	Lecture 6- 10	Law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus	
3.	Lecture 11- 12	Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities.	
4.	Lecture 13-20	Consumer Theory: Budget constraint, concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects; consumer choice: indifference curves.	

			H. L Ahuja (2012): Ucchatar Arthik Siddhant, S. Chand &Company, New Delhi. D.N Dwivedi (2011): Microeconomics – Theory and Application, Pearson. S.N Lal (2013): Arthshastra Ke Siddhant, Shiva Publishing House, Allahabad. M.L Seth (2012): Arthshastra Ke Siddhant, Laxmi Narayan Publications, Agra. Richard Lipsey, & Chrystal, Alec (2011): Economics, Oxford University Press Publications, New Delhi. Dominick Salvatore (2010): Principles of Microeconomics, Oxford University Press Publications, New Delhi. Paul A Samuelson, & William D Nordhaus (2010): Economics", Tata McGraw Hill. A Koutsoyiannis (2008) (2nded): Modern Microeconomics, Macmillan.
5.	Lecture 21-25	Derivation of demand curve from indifference curve and budget constraint. Theory of Revealed Preference.	
6.	Class quiz		
7.	Lecture 26-30	Production and Costs: Production: behaviour of profit maximizing firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition	
8.	Lecture 31- 36	Costs: costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses, short run industry supply curve, economies and diseconomies of scale, long run adjustment.	
9.	Revision/ Tutorial		
10.	Class quiz		
11.	Lecture 37- 40	Market Structures Perfect Competition: a. Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.	
12.	Lecture 41- 46	Imperfect Competition Monopolistic competition: Assumptions, SR& LR price and output determinations under monopolistic competition, economic efficiency and resource allocation; oligopoly: assumptions, oligopoly models, game theory, contestable markets, role of government.	
13.	Class quiz		
14.	Revision/ Tutorial		

Part – II

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
15.	Lecture 47-51	Theory of a Monopoly Firm Concept of imperfect competition, short-run and long-run price and output decisions of a monopoly firm; concept of a supply curve under monopoly	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – H.L Ahuja (2013): Advance Economic Theory, S. Chand & Company, Rahul A. Shastri (1999): Microeconomics, Orient Blackswan. H. L Ahuja (2012): Ucchatar Arthik Siddhant, S. Chand &Company, New Delhi. D.N Dwivedi (2011): Microeconomics – Theory and Application, Pearson. S.N Lal (2013): Arthshastra Ke Siddhant, Shiva Publishing House, Allahabad. M.L Seth (2012): Arthshastra Ke Siddhant, Laxmi Narayan Publications, Agra.
16.	Lecture 52-57	Comparison of perfect competition and monopoly, social cost of monopoly, price discrimination, remedies for monopoly, Antitrust laws, natural monopoly.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Lecture 58-62	Consumer and Producer Theory Consumer and Producer Theory in Action Externalities, marginal cost pricing, internalising externalities, public goods, imperfect information, adverse selection, moral hazard, social choice, government inefficiency.	
20.	Lecture 63-68	Markets and Market Failure Market adjustment to changes in demand, efficiency of perfect competition, sources of market failure: imperfect markets, public goods, externalities, imperfect information; evaluating the market mechanism.	
21	Mid-term exam		
22.	Lecture 69-73	Income Distribution and Factor pricing Input markets, demand for inputs, labour markets	
23.	Lecture 74-79	Land markets, profit maximisation condition in input markets, input demand curves, distribution of Income.	

24.	Micro teaching by students		Richard Lipsey, & Chrystal, Alec (2011): Economics, Oxford University Press Publications, New Delhi. Dominick Salvatore (2010): Principles of Microeconomics, Oxford University Press Publications, New Delhi. Paul A Samuelson, & William D Nordhaus (2010): Economics" , Tata McGraw Hill. A Koutsoyiannis (2008) (2nded): Modern Microeconomics, Macmillan.
25.	Lecture 80-82	Welfare Economics Concept & Definition of Welfare Economics. Normative &Positive Economics. Concepts of Social Welfare. Role of Value Judgment in Welfare Economics, Individual & Social Welfare.	
26.	Lecture 83-86	Pareto Optimality, Conditions of Pareto Optimality. New Welfare Economics, Kaldor-Hicks Welfare Criterion.	
27.	Lecture 87-90	Scitovsky Paradox & Scitovsky's Double Criterion, Grand Utility Possibility Frontier, Social Welfare Function, Theories of Social Choice.	
28.	Revision/Tutorial		
29.	Class Quiz		
30.	Dispersal of Class		

[Lesson Plan: [2022-23] [Sem-II]

[Name of Course: B.A – 1 Economics]

[Course code – A080201T]

[Paper – Macro Economics]

[Paper – 1]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks-06/100]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**Unit-1 Macro Economics and National Income Analysis:** Meaning, Subject matter and limitation of Macro Economics, Macro Economic Paradoxes, Role of government in macro economy macro statics, comparative statics and dynamics, Meaning of National income accounts, some basic concepts domestic territory of a country	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **Book suggested-** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan
2.	Lecture 10-18	Normal resident of a country, Stocks and flows, National capital, Wealth and income, National income and related aggregates, GDP, GNP, NDP, NNP (both at market prices and factor cost), Private income, personal income disposable income, capital formation, Distinction between goods and services, producers' goods and consumer goods, intermediate goods and final goods.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	**Unit-2 Generation of income and measurement of national income:** Generation of income and production process, sources of income-Domestic factors of income, compensation of employees, operating surplus, mixed income of self employed, net factor income from abroad	

6.	Lecture 25-36	Method of measurement of national income-value added method, expenditure method, components of final expenditure method, limitations of GDP concept- green accounting, parallel economy.	Macroeconomics: Theory and Policy – G. Ackley Macro Economics – Manikew Macro Economics – Dr. D. Awasthi
7.	Test		
8.	Lecture 37-42	**Unit-3 Determination of income and Employment:** The classical theory of employment the labour market, the product market, the capital market, concept of wage-price flexibility, J. M. Keynes, criticism of the classical model, The Keynesian model- aggregate expenditure and equilibrium output,	
9.	Lecture 43-54	Concept of effective demand, theories of macro consumption function, investment function, saving and investment equilibrium-ex poste and ex-ante, liquidity trap, role and importance of investment multiplier, elementary ideas of IS & LM curves.	
10.	Micro Teaching by students		
11.	Lecture 55-62	**Unit - 4 Trade cycle:** Nature and characteristics, Hawtrey's monetary theory, Hayek's over-investment theory, Keynes views on trade cycle	
12.	Lecture 63-72	The concept of accelerator, super multiplier, multiplier-accelerator theories of trade cycle, control of trade cycle.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

[Lesson Plan: [2018-19] [Annual Course]

[Name of Course: B.A – Ⅱ Economics]

[Subject – Economics]

[Paper – Macro Economics]

[Paper – 1]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Meaning, Subject matter and limitation of macro Economics, Macro Economic Paradoxes, Role of government in macro economy macro statics, comparative statics and dynamics, Meaning of National income accounts, some basic concepts domestic territory of a country	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For
2.	Lecture 10-18	Normal resident of a country, Stocks and flows, National capital, Wealth and income, National income and related aggregates, GDP, GNP, NDP, NNP (both at market prices and factor cost), Private income, personal income disposable income, capital formation, Distinction between goods and services, producers' goods and consumer goods, intermediate goods and final goods.	
3.	Revision/ Tutorial		
4.	Class Quiz		

			this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Macro Economics – Manikew Macro Economics – Dr. D. Awasthi
5.	Lecture 19-24	Generation of income and production process, sources of income-Domestic factors of income, compensation of employees, operating surplus, mixed income of self employed, net factor income from abroad	
6.	Lecture 25-36	Method of measurement of national income-value added method, expenditure method, components of final expenditure method, limitations of GDP concept- green accounting, parallel economy.	
7.	Test		
8.	Lecture 37-42	The classical theory of employment the labour market, the product market , the capital market, concept of wage-price flexibility, J. M. Keynes, criticism of the classical model, The Keynesian model- aggregate expenditure and equilibrium output,	
9.	Lecture 43-54	Concept of effective demand, theories of macro consumption function, investment function, saving and investment equilibrium-ex poste and ex-ante, liquidity trap, role and importance of investment multiplier, elementary ideas of IS & LM curves.	
10.	Micro Teaching by students		
11.	Lecture 55-62	Nature and characteristics, Hawtrey's monetary theory, Hayek's over-investment theory, Keynes views on trade cycle	

12.	Lecture 63-72	The concept of accelerator, super multiplier, multiplier- accelerator theories of trade cycle, control of trade cycle.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

LESSON PLAN - (2018-2019)

COURSE NAME - B.A II

PAPER- II

SUBJECT- ECONOMICS

PAPER NAME – MONEY BANKING AND PUBLIC FINANCE

LECTURE DURATION - 45 MINS.

MODE- OFFLINE

MAXIMUM MARKS - 100

Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1	Lecture 1-5	Value of money: Fisher and Cambridge approach, Income Expenditure approach.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day
2	Lecture 6-10	Prices: Inflation- Deflation, Monetary approach, Keynesian approach.	
3	Lecture -11-20	Non- Monetary theories of Inflation, Effects of Deflation, Inflation a brief discussion of relationship between inflation and unemployment (Philips Curve) Okun's law and concept of stagflation.	
4	Lecture 21-25	Theory of Commercial Banking: theory of credit creation, credit multiplier.	
5	Lecture 26-30	Theory of Central Banking, Techniques of credit control, Monetary policy, objective of monetary policy in developing economy.	
6	Lecture 31-35	The Reserve Bank of India, its role and policies relating to the development of the Indian Economy	
7	Lecture 36-40	Revision, micro teaching by students.	
8	Lecture 41-45	Public Finance And Public Expenditure: meaning and scope of Public Finance- Distinction between private and public finance, public goods vs private goods.	
9	Lecture 46-50	Principle of Maximum Social Advantage. Finance, Externalities	

		and market failures.	or two before.
10	Lecture 51-55	Views of Prof. Musgrave and Mrs. Ursala Hicks, Tests of Maximum Social Advantage.	Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
11	Lecture 56-60	Meaning, Scope and Justification of Public Expenditures, canons and effects of Public Expenditure on Production.	
12	Lecture 61-65	Employment and Distribution. Causes of increase in public expenditure, Peacock and Wiseman Hypothesis, public expenditure in India.	
13	Lecture 66-70	Taxation: Sources of public revenue, Taxation – Meaning, canons and classification of taxes.	
14	Lecture 71-78	The Benefit And Ability Approach, characteristics of a good tax system, Impact and Incidence of taxes, Taxable capacity, Effects of taxation.	
15	Lecture 79- 90	Division of tax resources between Central and State Govt. Public Debt- methods of redemption and effects of public debt. Fiscal Policy meaning, objectives and its significance in developing Economies. Budget- its meaning, importance and preparation.	
16	Lecture 91-100	Revision, quiz, micro teaching by students. Etc.	

[Lesson Plan: [2019-20] [Annual Course]

[Name of Course: B.A – Ⅱ Economics]

[Subject – Economics]

[Paper – Macro Economics]

[Paper – 1]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Meaning, Subject matter and limitation of macro Economics, Macro Economic Paradoxes, Role of government in macro economy macro statics, comparative statics and dynamics, Meaning of National income accounts, some basic concepts domestic territory of a country	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For
2.	Lecture 10-18	Normal resident of a country, Stocks and flows, National capital, Wealth and income, National income and related aggregates, GDP, GNP, NDP, NNP (both at market prices and factor cost), Private income, personal income disposable income, capital formation, Distinction between goods and services, producers' goods and consumer goods, intermediate goods and final goods.	
3.	Revision/ Tutorial		
4.	Class Quiz		

			this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Macro Economics – Manikew Macro Economics – Dr. D. Awasthi
5.	Lecture 19-24	Generation of income and production process, sources of income-Domestic factors of income, compensation of employees, operating surplus, mixed income of self employed, net factor income from abroad	
6.	Lecture 25-36	Method of measurement of national income-value added method, expenditure method, components of final expenditure method, limitations of GDP concept- green accounting, parallel economy.	
7.	Test		
8.	Lecture 37-42	The classical theory of employment the labour market, the product market , the capital market, concept of wage-price flexibility, J. M. Keynes, criticism of the classical model, The Keynesian model- aggregate expenditure and equilibrium output,	
9.	Lecture 43-54	Concept of effective demand, theories of macro consumption function, investment function, saving and investment equilibrium-ex poste and ex-ante, liquidity trap, role and importance of investment multiplier, elementary ideas of IS & LM curves.	
10.	Micro Teaching by students		
11.	Lecture 55-62	Nature and characteristics, Hawtrey's monetary theory, Hayek's over-investment theory, Keynes views on trade cycle	

12.	Lecture 63-72	The concept of accelerator, super multiplier, multiplier- accelerator theories of trade cycle, control of trade cycle.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

LESSON PLAN - (2019-2020)

COURSE NAME - B.A II

PAPER- II

SUBJECT- ECONOMICS

PAPER NAME – MONEY BANKING AND PUBLIC FINANCE

LECTURE DURATION - 45 MINS.

MODE- OFFLINE

MAXIMUM MARKS - 100

Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1	Lecture 1-5	Value of money: Fisher and Cambridge approach, Income Expenditure approach.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day
2	Lecture 6-10	Prices: Inflation- Deflation, Monetary approach, Keynesian approach.	
3	Lecture -11-20	Non- Monetary theories of Inflation, Effects of Deflation, Inflation a brief discussion of relationship between inflation and unemployment (Philips Curve) Okun's law and concept of stagflation.	
4	Lecture 21-25	Theory of Commercial Banking: theory of credit creation, credit multiplier.	
5	Lecture 26-30	Theory of Central Banking, Techniques of credit control, Monetary policy, objective of monetary policy in developing economy.	
6	Lecture 31-35	The Reserve Bank of India, its role and policies relating to the development of the Indian Economy	
7	Lecture 36-40	Revision, micro teaching by students.	
8	Lecture 41-45	Public Finance And Public Expenditure: meaning and scope of Public Finance- Distinction between private and public finance, public goods vs private goods.	
9	Lecture 46-50	Principle of Maximum Social Advantage. Finance, Externalities	

		and market failures.	or two before.
10	Lecture 51-55	Views of Prof. Musgrave and Mrs. Ursala Hicks, Tests of Maximum Social Advantage.	Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
11	Lecture 56-60	Meaning, Scope and Justification of Public Expenditures, canons and effects of Public Expenditure on Production.	
12	Lecture 61-65	Employment and Distribution. Causes of increase in public expenditure, Peacock and Wiseman Hypothesis, public expenditure in India.	
13	Lecture 66-70	Taxation: Sources of public revenue, Taxation – Meaning, canons and classification of taxes.	
14	Lecture 71-78	The Benefit And Ability Approach, characteristics of a good tax system, Impact and Incidence of taxes, Taxable capacity, Effects of taxation.	
15	Lecture 79- 90	Division of tax resources between Central and State Govt. Public Debt- methods of redemption and effects of public debt. Fiscal Policy meaning, objectives and its significance in developing Economies. Budget- its meaning, importance and preparation.	
16	Lecture 91-100	Revision, quiz, micro teaching by students. Etc.	

[Lesson Plan: [2020-21] [Annual Course]

[Name of Course: B.A – Ⅱ Economics]

[Subject – Economics]

[Paper – Macro Economics]

[Paper – 1]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Meaning, Subject matter and limitation of macro Economics, Macro Economic Paradoxes, Role of government in macro economy macro statics, comparative statics and dynamics, Meaning of National income accounts, some basic concepts domestic territory of a country	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For
2.	Lecture 10-18	Normal resident of a country, Stocks and flows, National capital, Wealth and income, National income and related aggregates, GDP, GNP, NDP, NNP (both at market prices and factor cost), Private income, personal income disposable income, capital formation, Distinction between goods and services, producers' goods and consumer goods, intermediate goods and final goods.	
3.	Revision/ Tutorial		
4.	Class Quiz		

			this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Macro Economics – Manikew Macro Economics – Dr. D. Awasthi
5.	Lecture 19-24	Generation of income and production process, sources of income-Domestic factors of income, compensation of employees, operating surplus, mixed income of self employed, net factor income from abroad	
6.	Lecture 25-36	Method of measurement of national income-value added method, expenditure method, components of final expenditure method, limitations of GDP concept- green accounting, parallel economy.	
7.	Test		
8.	Lecture 37-42	The classical theory of employment the labour market, the product market , the capital market, concept of wage-price flexibility, J. M. Keynes, criticism of the classical model, The Keynesian model- aggregate expenditure and equilibrium output,	
9.	Lecture 43-54	Concept of effective demand, theories of macro consumption function, investment function, saving and investment equilibrium-ex poste and ex-ante, liquidity trap, role and importance of investment multiplier, elementary ideas of IS & LM curves.	
10.	Micro Teaching by students		
11.	Lecture 55-62	Nature and characteristics, Hawtrey's monetary theory, Hayek's over-investment theory, Keynes views on trade cycle	

12.	Lecture 63-72	The concept of accelerator, super multiplier, multiplier- accelerator theories of trade cycle, control of trade cycle.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

LESSON PLAN - (2020-2021)

COURSE NAME - B.A II

PAPER- II

SUBJECT- ECONOMICS

PAPER NAME – MONEY BANKING AND PUBLIC FINANCE

LECTURE DURATION - 45 MINS.

MODE- OFFLINE

MAXIMUM MARKS - 100

Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1	Lecture 1-5	Value of money: Fisher and Cambridge approach, Income Expenditure approach.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of
2	Lecture 6-10	Prices: Inflation- Deflation, Monetary approach, Keynesian approach.	
3	Lecture -11-20	Non- Monetary theories of Inflation, Effects of Deflation, Inflation a brief discussion of relationship between inflation and unemployment (Philips Curve) Okun's law and concept of stagflation.	
4	Lecture 21-25	Theory of Commercial Banking: theory of credit creation, credit multiplier.	
5	Lecture 26-30	Theory of Central Banking, Techniques of credit control, Monetary policy, objective of monetary policy in developing economy.	
6	Lecture 31-35	The Reserve Bank of India, its role and policies relating to the development of the Indian Economy	
7	Lecture 36-40	Revision, micro teaching by students.	
8	Lecture 41-45	Public Finance And Public Expenditure: meaning and scope of Public Finance- Distinction between private and public finance, public goods vs private goods.	

9	Lecture 46-50	Principle of Maximum Social Advantage. Finance, Externalities and market failures.	discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 51-55	Views of Prof. Musgrave and Mrs. Ursala Hicks, Tests of Maximum Social Advantage.	
11	Lecture 56-60	Meaning, Scope and Justification of Public Expenditures, canons and effects of Public Expenditure on Production.	
12	Lecture 61-65	Employment and Distribution. Causes of increase in public expenditure, Peacock and Wiseman Hypothesis, public expenditure in India.	
13	Lecture 66-70	Taxation: Sources of public revenue, Taxation – Meaning, canons and classification of taxes.	
14	Lecture 71-78	The Benefit And Ability Approach, characteristics of a good tax system, Impact and Incidence of taxes, Taxable capacity, Effects of taxation.	
15	Lecture 79- 90	Division of tax resources between Central and State Govt. Public Debt- methods of redemption and effects of public debt. Fiscal Policy meaning, objectives and its significance in developing Economies. Budget- its meaning, importance and preparation.	
16	Lecture 91-100	Revision, quiz, micro teaching by students. Etc.	

[Lesson Plan: [2021-22] [Annual Course]

[Name of Course: B.A – Ⅱ Economics]

[Subject – Economics]

[Paper – Macro Economics]

[Paper – 1]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Meaning, Subject matter and limitation of macro Economics, Macro Economic Paradoxes, Role of government in macro economy macro statics, comparative statics and dynamics, Meaning of National income accounts, some basic concepts domestic territory of a country	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For
2.	Lecture 10-18	Normal resident of a country, Stocks and flows, National capital, Wealth and income, National income and related aggregates, GDP, GNP, NDP, NNP (both at market prices and factor cost), Private income, personal income disposable income, capital formation, Distinction between goods and services, producers' goods and consumer goods, intermediate goods and final goods.	
3.	Revision/ Tutorial		
4.	Class Quiz		

			this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Macro Economics – Manikew Macro Economics – Dr. D. Awasthi
5.	Lecture 19-24	Generation of income and production process, sources of income-Domestic factors of income, compensation of employees, operating surplus, mixed income of self employed, net factor income from abroad	
6.	Lecture 25-36	Method of measurement of national income-value added method, expenditure method, components of final expenditure method, limitations of GDP concept- green accounting, parallel economy.	
7.	Test		
8.	Lecture 37-42	The classical theory of employment the labour market, the product market , the capital market, concept of wage-price flexibility, J. M. Keynes, criticism of the classical model, The Keynesian model- aggregate expenditure and equilibrium output,	
9.	Lecture 43-54	Concept of effective demand, theories of macro consumption function, investment function, saving and investment equilibrium-ex poste and ex-ante, liquidity trap, role and importance of investment multiplier, elementary ideas of IS & LM curves.	
10.	Micro Teaching by students		
11.	Lecture 55-62	Nature and characteristics, Hawtrey's monetary theory, Hayek's over-investment theory, Keynes views on trade cycle	

12.	Lecture 63-72	The concept of accelerator, super multiplier, multiplier- accelerator theories of trade cycle, control of trade cycle.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

LESSON PLAN - (2021-2022)

COURSE NAME - B.A II

PAPER- II

SUBJECT- ECONOMICS

PAPER NAME – MONEY BANKING AND PUBLIC FINANCE

LECTURE DURATION - 60 MINS.

MODE- OFFLINE

MAXIMUM MARKS - 100

Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1	Lecture 1-5	Value of money: Fisher and Cambridge approach, Income Expenditure approach.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of
2	Lecture 6-10	Prices: Inflation- Deflation, Monetary approach, Keynesian approach.	
3	Lecture -11-20	Non- Monetary theories of Inflation, Effects of Deflation, Inflation a brief discussion of relationship between inflation and unemployment (Philips Curve) Okun's law and concept of stagflation.	
4	Lecture 21-25	Theory of Commercial Banking: theory of credit creation, credit multiplier.	
5	Lecture 26-30	Theory of Central Banking, Techniques of credit control, Monetary policy, objective of monetary policy in developing economy.	
6	Lecture 31-35	The Reserve Bank of India, its role and policies relating to the development of the Indian Economy	
7	Lecture 36-40	Revision, micro teaching by students.	
8	Lecture 41-45	Public Finance And Public Expenditure: meaning and scope of Public Finance- Distinction between private and public finance, public goods vs private goods.	

9	Lecture 46-50	Principle of Maximum Social Advantage. Finance, Externalities and market failures.	discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 51-55	Views of Prof. Musgrave and Mrs. Ursala Hicks, Tests of Maximum Social Advantage.	
11	Lecture 56-60	Meaning, Scope and Justification of Public Expenditures, canons and effects of Public Expenditure on Production.	
12	Lecture 61-65	Employment and Distribution. Causes of increase in public expenditure, Peacock and Wiseman Hypothesis, public expenditure in India.	
13	Lecture 66-70	Taxation: Sources of public revenue, Taxation – Meaning, canons and classification of taxes.	
14	Lecture 71-78	The Benefit And Ability Approach, characteristics of a good tax system, Impact and Incidence of taxes, Taxable capacity, Effects of taxation.	
15	Lecture 79- 90	Division of tax resources between Central and State Govt. Public Debt- methods of redemption and effects of public debt. Fiscal Policy meaning, objectives and its significance in developing Economies. Budget- its meaning, importance and preparation.	
16	Lecture 91-100	Revision, quiz, micro teaching by students. Etc.	

Lesson plan-(2022-2023) semester-III

Course name - B.A II

Course code - A08030IT

Subject - Economics

Title of paper -History of Economic thought

Lecture duration- 60 min

Syllabus -semester

Mode-offline

Credit -6 (max marks -25+75)

Name of faculty involved in delivering the course – Dr.Alka Asthana

s.no	Lecture no	Topics covered	Teaching pedagogy
1	Lecture 1-2	Kautilya,Dada Bhai Naroji, R.C Dutta	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic.
2	Lecture 3-5	B.R Ambedkar,R.M Lohia, ,Gandhian economics	
3	Lecture 6-8	Pt. Dean DayalUpadhyay , J.K Mehta.	
4	Lecture 9-10	A K Sen, J.Bhagwati.	
5	Lecture 11	Revision, Doubt clearing	
6	Lecture 12-14	Early period: economic thought of Plato.	
7	Lecture 15-16	Aristotle -doctrine of just cost and just price.	

8	Lecture 17	Class discussion, revision	Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
9	Lecture 18-19	Mercantilism: main characteristics	
10	Lecture 20-22	Thomas MunPhysiocracy. Natural Order, Primacy of Agriculture, social classes, tableau Economique,	
11	Lecture 23-25	Taxation, Turgot-Economic ideas of Petty, Locke and Hume.	
12	Lecture 26	Class discussion, revision ,and doubt clearance class.	
13	Lecture 27-30	Classical Period: Adam smith-Division of labour, theory of value, capital accumulation, distribution.	
14	Lecture 31-33	Views on trade, David Ricardo, Distribution, ideas on international trade, Thomas R. Malthus, Theory of Gluts.	
15	Lecture 34-36	German Romantics and societies-Sismondi, karl Marx- Dynamics of social change, labour theory of value.	

16	Lecture 37-39	Surplus value, profit and theory of Capitalist crises, Economic ideas of J.B Say, J.S.Mill	
17	Lecture 40-42	Marshall as a great synthesizer: role of time in price determination, Economic methods, ideas on consumer's surplus, elasticity, representative firm, Quasi- rent, Pigou: Welfare Economics; Schumpeter	
18	Lecture 42-46	Marginalists,: the precursors of Marginalism, Cournot , Gossen- the Marginalist Revolution: Jevons, Walras and Menger- Bohm- Bawark, Wicksell and fisher, Economic Ideas of Wicksteed and Weiser	

Lesson plan (2022-2023) semester-iv

Name 0f course- B.A II

COURSE CODE – A080401T

SUBJECT – ECONOMICS

PAPER- MONEY BANKING AND PUBLIC FINANCE

(LECTURE DURATION – 60 MINS)

SYLLLABUS- SEMESTER (CREDIT -6)

MODE-OFFLINE

(CREDITS-6/MAX MARKS-25+75)

Names of faculty involved in delivering the course- Dr. Vivek Singh

Part -I

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-6	Money and Value of money Money - Meaning, Functions and Classification, Gresham's Law, Role of Money in Capitalist, Socialist and Mixed Economics, Money Standard – Metallic and Paper Systems of Note Issue	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – AmareshBagchi (2005): Readings in Public Finance,Oxford University Press. John Cullis& Philip Jones (2009): Public Finance and Public Choice, Oxford University Press.
2.	Lecture 7-12	Quantity Theory of Money – Cash Transaction and Cash Balance Approaches: The Keynesian Approach	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 13-18	Supply of Money: Definitions, Determinants of Money of Supply	
6.	Lecture 19-24	High Powered Money and Money Multiplier, Indian Currency System	
7.	Mid term exam		
8.	Lecture 25-29	Commercial Banking: Meaning and Types, Functions of Commercial Banks, The Process	

		of Credit Creation- Purpose and Limitations, Liabilities and Assets of Banks	Janak Raj Gupta (2011) Public Economics in India Theory and Practice, Atlantic S.N Lal (2012) Mudra, Banking, AvamVidehi Vinay Shiva Publishing House. Allahabad Perminder Khanna (2005). Advanced Study in Money and Banking: Theory and Policy Relevance in The Indian Economy, Atlantic. M.L Seth (2012): MandrikArthshastra, Laxmi Narayan Publications. Agra M.LJhingan (2012): Monetary Economics, Vrinda Publications New Delhi.
9.	Lecture 30-35	Evolution of Commercial Banking in India after Independence, A Critical Appraisal of the Progress of Commercial Baking after Nationalization, Recent Reforms in Banking Sector in India.	
10.	Micro teaching by students		
11.	Lecture 36-40	Functions of a Central Bank, Quantitative and Qualitative Methods of credit control, Bank Rate Policy, Open Market Operations, Variable Reserve Ratio and Selective Methods	
12.	Lecture 41-46	Role and Functions of the Reserve Bank of India, Objectives and Limitations of Monetary Policy with Special Reference to India	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

PART -II

Name of the faculty involved in delivering the course – Dr. Alka Asthana

SERIAL NO	LECTURE NO	TOPIC COVERED	TEACHNG PEDAGOGY
1	LECTURE 1-5	NATURE AND SCOPE OF PUBLIC FINANCE: MEANING AND SCOPE OF PUBLIC FINANCE ;DISTINCTION BETWEEN PRIVATE AND PUBLIC FINANCE	LECTURE DELIVERE IN THE LANGUAGE COMFORTABLE TO THE STUDENTS .(HINDI AND ENGLISH MIX) CHALK AND BOARD METHOD USED MOST OF THE TIME. PRESENTATION DELIVERED THROUGH PPT INTERACTIVE TEACHING PREFFERED INCLUDING GROUP DISCUSSION
2	LECTURE 6-11	PUBLIC GOOD VS PRIVATE GOODS; THE PRINCIPLE OF MAX SOCIAL ADVANTAGE;MARKET FAILURE; ROLE OF THE GOVT	
3	LEC 12-16	PUBLIC EXPENDITURE :MEANING,CLASSIFICATION AND PRINCIPLE OF PUBLIC EXPENDITURE	

4	LEC 17-22	CANNONS AND EFFECTS OF PUBLIC EXPENDITURE;TRENDS IN PUBLIC EXPENDITURE AND CAUSES OF GROWTH OF PUBLIC EXPENDITURE IN INDIA	BEFORE THE START OF SOME TEDIOUS THEOREM OR TOPIC. STUDENS INVITED FROM TIME TO TIME TO COME ON BOARD TO ENHANCE THEIR UNDERSTANDING AND PRESENTATION SKILLS. FO RTHIS PURPOSE, TOPICS OF DISCUSSION ALLOTED A DAY OR TWO BEFORE. STUDENTS ALSO ENCOURAGE TO SEE THE NPTEL LECTORES AVAILABLE ONLINE FOR UNDERSTANDIND THE ADVANCED TOPICS AND ALSO TO GO THROUGH THE OPEN ACCESS. e-BOOK TOPOLOGY WITHOUT TEARS BY SIDNEY A. MORRIS. QUIZZES CONDUCTED CONTINEOUS EVALUATION BY ASSESSMENT, TESTS, PRESENTATION OF STUDENTS,TUTORIALS. REVISION AND DOUBT CLEARING SESSIONS. .
5	LEC 23-27	TAXATION:SOURCES OF PUBLIC REVENUE;TAXATION –MEANING CANNONS AND CLASSIFICATION OF TAXES;DIVISION OF AX BURDEN	
6	LEC 28-33	THE BENEFITS AND ABILITY TO PAY APPROACHES ;IMPACT AND INCIDENCE OF TAXES ;TAXABLE CAPACITY ;EFFECTS OF TAXATION ;CHARACTERSICS OF A GOOD TAX SYSTEM	
7	LEC 34-36	FISCAL POLICY: COMPONENTS, INSTRUMENTS, OBJECTIVES .ROLE OF FISCAL POLICY IN DEVELOPED AND DEVELOPING COUNTRIES.	
8	LEC 37-39	BUDGET STRCTURE OF THE GOVT OF INDIA ,STATE BUDGET- SOURCES OF REVENUES AND EXPENDITURES .MAJOR TAX REFORMS IN INDA	
9	LEC 40-44	FISCAL FEDERALISM OIN INDIA: UNION –STATE FISCAL RELATIONS, FEDERAL FISCAL IMBALANCES AND THE ROLE OF FINNCE COMMISSION .FINANCES OF LOCAL BODIES.	

Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – International Economics]

[Paper -I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R. K Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Definition and Nature of International Economics, Internal and International trade, the Pattern of Trade, The gains from Trade, Basis for International Trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – 1. Harberler: Theory of International Trade 2. Salvator: International Economics 3. डॉ० सुदामा सिंह एवं वैश्य : अन्तर्राष्ट्रीय अर्थशास्त्र 4. डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: अन्तर्राष्ट्रीय अर्थशास्त्र
2.	Lecture 10-18	The concept of Comparative Advantage, Transport cost and non-traded goods, Reciprocal Demand. Opportunity cost theory of International trade, Hecksher-Ohlin model -an elementary treatment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	The case for free trade, Protection, Basic Tariff Analysis, Import-Quotas Theory, Other trade policy instruments, international negotiations and trade policy.	
6.	Lecture 25-36	Meaning of Balance of payment, difference between and balance of payments. Correction and adjustment of balance of payments.	
7.	Test		
8.	Lecture 37-42	Domestic and Foreign Prices, Fixed and Flexible Exchange Rates, Gold	

		Point, Purchasing Power Parity theory and Balance of Payments.	5. बरला एण्ड अग्रवाल: अन्तर्राष्ट्रीय अर्थशास्त्र
9.	Lecture 43-54	Theory of Foreign Exchange rate. International financial institutions: I.M.F, IBRD, ADB	
10.	Micro teaching by students		
11.	Lecture 55-62	Importance of Foreign trade for a developing economy, Foreign trade since independence.	
12.	Lecture 63-72	Composition of India's Foreign Trade, Direction of India's Foreign Trade, Trade Polices, Balance of Payments Crisis. Impact of W.T.O. upon India's Foreign Trade, The need for foreign capital and Government's policy of foreign direct investment.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2018-19] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper – Issues of Economic Growth and Development]

[Paper – 2]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Economic growth and development. Development and under development perpetuation of under development; poverty-absolute and relative; Development and development gap-per capita income inequality of income and wealth. P.Q.L.I. & H.D.I	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. Book suggested- Todaro, M.P. 'Economic Development in the third world
2.	Lecture 10 -18	The concept and components of human capital-education, health, food security & nutrition, Population and economic development, theory of demographic transition. Population and environment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	Theories of development-Classical theory of development. Neo-classical theories of development-Solow and Meade, Mrs. Joan Robinson's Model, Karl Marx theory of development. Theory of social change, Immutable laws of capitalist development-crisis in capitalism; Schumpeter's view and Capitalistic development.	
6.	Lecture 25-36	Partial theories of growth and development-Vicious circle of poverty, Circular causation, Unlimited supply of labour, Big push, Balanced growth, unbalanced growth, critical minimum effort thesis; Low Income Equilibrium Trap Dualism; Technical change, Harrod Domar. Models of growth	

7.	Test		Thirlwal, A.P. 'Growth and Development' Meir, G.M. 'Leading issues in economic development'
8.	Lecture 37-42	Role of agriculture in economic development; Importance of land reforms; Efficiency and productivity in agriculture, New technology and Sustainable agriculture	
9.	Lecture 43-54	Globalisation and agricultural growth; Rationale and pattern of industrialization in developing economies. The choice of technique, appropriate technology and employment; small scale vs large scale production, Terms of trade between agriculture and industry; Infrastructure and its importance in development.	
	Micro Teaching by students		
10.	Lecture 55-62	Role of Monetary and fiscal policies in developing countries, External resources, FDI; Aid vs Trade	
11.	Lecture 63-72	Technology inflow; MNCs, Activity in developing countries; IMF and World Bank policies for developing countries.	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

[Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – Quantitative Methods in Economics]

[Paper -III (A)]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Method of data collection, Classification, Tabulation and graphical presentation of data	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Mehta & Madani: Mathematics for Economic R.G.D. Allen: Mathematics for Economic D.N. Elhance: Fundamentals of Statistics
2.	Lecture 10-18	Measures of Central Tendency, Mean, Median, Mode, Q.D, Percentile of Univariate Frequency Distributions measures of Dispersion, Skewness and Kurtosis	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-26	Units, functions, Derivation of functions of one and two variables	
6.	Lecture 27-36	Maxima and Minima and Economic problems related to maxim- minima, convexity & concavity of curves, Partial Derivation and their uses in economics	
7.	Test		
8.	Lecture 37-44	Marginal and conditional distributions: Discrete case, covariance and correlation, rank correlation	
9.	Lecture 45-54	Simple Linear regression, method of least squares, Derivation of the normal equation, standard error of regression (SER)	

10.	Micro teaching by students		
11.	Lecture 55-62	Concept of an index number, Laspeyer's, Paasche's and Fisher's Index Numbers, Time Reversal, Factor reversal and circular tests, chain base index	
12.	Lecture 63-72	Problems in the Construction of an index number; splicing; base shifting and use of index number for deflating other series. Time Series Analysis, component of time series	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2018-19] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

Paper- History of Economic thought

[Paper-3 B]

[Lecture duration- 45 min]

[Annual syllabus]

[Mode – Offline]

[Name of faculty involved in delivering the course – Dr.Alka Asthana]

Sr.No	Lecture No	Topics Covered	Teaching Pedagogy
1	Lecture 1-4	Kautilya,Dada Bhai Naroji, R.C Dutta	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and
2	Lecture 5-10	B.R Ambedkar,R.M Lohia, ,Gandhian economics	
3	Lecture -11-15	Pt. Dean DayalUpadhyay , J.K Mehta.	
4	Lecture-16-18	A K Sen, J.Bhagwati.	
5	Lecture 19	Revision, Doubt clearing	
6	Lecture 20-24	Early period: economic thought of Plato.	
7	Lecture 25-28	Aristotle -doctrine of just cost and just price.	
8	Lecture 29	Class discussion, revision	

9	Lecture 30-33	Mercantilism: main characteristics	also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 34-38	Thomas MunPhysiocracy. Natural Order, Primacy of Agriculture, social classes, tableau Economique,	
11	Lecture 39-42	Taxation, Turgot-Economic ideas of Petty, Locke and Hume.	
12	Lecture 43	Class discussion, revision ,and doubt clearance class.	
13	Lecture 44-48	Classical Period: Adam smith-Division of labour, theory of value, capital accumulation, distribution.	
14	Lecture 49-53	Views on trade, David Ricardo, Distribution, ideas on international trade, Thomas R. Malthus, Theory of Gluts.	
15	Lecture 54-57	German Romantics and societies- Sismondi, karl Marx- Dynamics of social change, labour theory of value.	
16	Lecture 58-61	Surplus value, profit and theory of Capitalist crises, Economic ideas of J.B Say, J.S.Mill	

17	Lecture 62-66	Marshall as a great synthesizer: role of time in price determination, Economic methods, ideas on consumer's surplus, elasticity, representative firm, Quasi-rent, Pigou: Welfare Economics; Schumpeter	
18	Lecture 67-72	Marginalists,: the precursors of Marginalism, Cournot , Gossen- the Marginalist Revolution: Jevons, Walras and Menger- Bohm- Bawark, Wicksell and fisher, Economic Ideas of Wicksteed and Weiser	

Lesson Plan: [2019-2020] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – International Economics]

[Paper -I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R. K Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Definition and Nature of International Economics, Internal and International trade, the Pattern of Trade, The gains from Trade, Basis for International Trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – 1. Harberler: Theory of International Trade 2. Salvator: International Economics 3. डॉ० सुदामा सिंह एवं वैश्य : अन्तर्राष्ट्रीय अर्थशास्त्र
2.	Lecture 10-18	The concept of Comparative Advantage, Transport cost and non-traded goods, Reciprocal Demand. Opportunity cost theory of International trade, Hecksher-Ohlin model -an elementary treatment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	The case for free trade, Protection, Basic Tariff Analysis, Import-Quotas Theory, Other trade policy instruments, international negotiations and trade policy.	
6.	Lecture 25-36	Meaning of Balance of payment, difference between and balance of payments. Correction and adjustment of balance of payments.	
7.	Test		

8.	Lecture 37-42	Domestic and Foreign Prices, Fixed and Flexible Exchange Rates, Gold Point, Purchasing Power Parity theory and Balance of Payments.	4. डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: अन्तर्राष्ट्रीय अर्थशास्त्र 5. बरला एण्ड अग्रवाल: अन्तर्राष्ट्रीय अर्थशास्त्र
9.	Lecture 43-54	Theory of Foreign Exchange rate. International financial institutions: I.M.F, IBRD, ADB	
10.	Micro teaching by students		
11.	Lecture 55-62	Importance of Foreign trade for a developing economy, Foreign trade since independence.	
12.	Lecture 63-72	Composition of India's Foreign Trade, Direction of India's Foreign Trade, Trade Polices, Balance of Payments Crisis. Impact of W.T.O. upon India's Foreign Trade, The need for foreign capital and Government's policy of foreign direct investment.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2019-20] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper – Issues of Economic Growth and Development]

[Paper – 2]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Economic growth and development. Development and under development perpetuation of under development; poverty-absolute and relative; Development and development gap-per capita income inequality of income and wealth. P.Q.L.I. & H.D.I	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Todaro, M.P. 'Economic Development in the third world
2.	Lacture10 -18	The concept and components of human capital-education, health, food security & nutrition, Population and economic development, theory of demographic transition. Population and environment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	19-24	Theories of development-Classical theory of development. Neo-classical theories of development-Solow and Meade, Mrs. Joan Robinson's Model, Karl Marx theory of development. Theory of social change, Immutable laws of capitalist development-crisis in capitalism; Schumpeter's view and Capitalistic development.	
6.	25-36	Partial theories of growth and development-Vicious circle of poverty, Circular causation, Unlimited supply of labour, Big push, Balanced growth, unbalanced growth, critical minimum effort thesis; Low Income Equilibrium Trap Dualism; Technical change, Harrod Domar. Models of growth	

7.	Test		Thirlwal, A.P. 'Growth and Development' Meir, G.M. 'Leading issues in economic development'
8.	37-42	Role of agriculture in economic development; Importance of land reforms; Efficiency and productivity in agriculture, New technology and Sustainable agriculture	
9.	43-54	Globalisation and agricultural growth; Rationale and pattern of industrialization in developing economies. The choice of technique, appropriate technology and employment; small scale vs large scale production, Terms of trade between agriculture and industry; Infrastructure and its importance in development.	
	Micro Teaching by students		
10.	55-62	Role of Monetary and fiscal policies in developing countries, External resources, FDI; Aid vs Trade	
11.	63-72	Technology inflow; MNCs, Activity in developing countries; IMF and World Bank policies for developing countries.	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2019-2020] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – Quantitative Methods in Economics]

[Paper -III (A)]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
16.	Lecture 1-9	Method of data collection, Classification, Tabulation and graphical presentation of data	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Mehta & Madani: Mathematics for Economic R.G.D. Allen: Mathematics for Economic D.N. Elhance: Fundamentals of Statistics
17.	Lecture 10-18	Measures of Central Tendency, Mean, Median, Mode, Q.D, Percentile of Univariate Frequency Distributions measures of Dispersion, Skewness and Kurtosis	
18.	Revision/ Tutorial		
19.	Class Quiz		
20.	Lecture 19-26	Units, functions, Derivation of functions of one and two variables	
21.	Lecture 27-36	Maxima and Minima and Economic problems related to maxim- minima, convexity & concavity of curves, Partial Derivation and their uses in economics	
22.	Test		
23.	Lecture 37-44	Marginal and conditional distributions: Discrete case, covariance and correlation, rank correlation	
24.	Lecture 45-54	Simple Linear regression, method of least squares, Derivation of the normal equation, standard error of regression (SER)	

25.	Micro teaching by students		
26.	Lecture 55-62	Concept of an index number, Laspeyer's, Paasche's and Fisher's Index Numbers, Time Reversal, Factor reversal and circular tests, chain base index	
27.	Lecture 63-72	Problems in the Construction of an index number; splicing; base shifting and use of index number for deflating other series. Time Series Analysis, component of time series	
28.	Revision/Tutorial		
29.	Class Quiz		
30.	Dispersal of Class		

Lesson Plan: [2019-20] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

Paper- History of Economic thought

[Paper-3 B]

[Lecture duration- 45 min]

[Annual syllabus]

[Mode – Offline]

[Name of faculty involved in delivering the course – Dr.Alka Asthana]

S.No	LACTURE NO	TOPICS COVERED	TEACHING PEDAGOGY
1	Lecture 1-4	Kautilya,Dada Bhai Naroji, R.C Dutta	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and
2	Lecture 5-10	B.R Ambedkar,R.M Lohia, ,Gandhian economics	
3	Lecture -11-15	Pt. Dean DayalUpadhyay , J.K Mehta.	
4	Lecture-16-18	A K Sen, J.Bhagwati.	
5	Lecture 19	Revision, Doubt clearing	
6	Lecture 20-24	Early period: economic thought of Plato.	
7	Lecture 25-28	Aristotle -doctrine of just cost and just price.	
8	Lecture 29	Class discussion, revision	

9	Lecture 30-33	Mercantilism: main characteristics	also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 34-38	Thomas MunPhysiocracy. Natural Order, Primacy of Agriculture, social classes, tableau Economique,	
11	Lecture 39-42	Taxation, Turgot-Economic ideas of Petty, Locke and Hume.	
12	Lecture 43	Class discussion, revision ,and doubt clearance class.	
13	Lecture 44-48	Classical Period: Adam smith-Division of labour, theory of value, capital accumulation, distribution.	
14	Lecture 49-53	Views on trade, David Ricardo, Distribution, ideas on international trade, Thomas R. Malthus, Theory of Gluts.	
15	Lecture 54-57	German Romantics and societies- Sismondi, karl Marx- Dynamics of social change, labour theory of value.	
16	Lecture 58-61	Surplus value, profit and theory of Capitalist crises, Economic ideas of J.B Say, J.S.Mill	

17	Lecture 62-66	Marshall as a great synthesizer: role of time in price determination, Economic methods, ideas on consumer's surplus, elasticity, representative firm, Quasi-rent, Pigou: Welfare Economics; Schumpeter	
18	Lecture 67-72	Marginalists,: the precursors of Marginalism, Cournot , Gossen- the Marginalist Revolution: Jevons, Walras and Menger- Bohm- Bawark, Wicksell and fisher, Economic Ideas of Wicksteed and Weiser	

Lesson Plan: [2020-21] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – International Economics]

[Paper -I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R. K Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Definition and Nature of International Economics, Internal and International trade, the Pattern of Trade, The gains from Trade, Basis for International Trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – 1. Harberler: Theory of International Trade 2. Salvator: International Economics 3. डॉ० सुदामा सिंह एवं वैश्य : अन्तर्राष्ट्रीय अर्थशास्त्र
2.	Lecture 10-18	The concept of Comparative Advantage, Transport cost and non-traded goods, Reciprocal Demand. Opportunity cost theory of International trade, Hecksher-Ohlin model -an elementary treatment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	The case for free trade, Protection, Basic Tariff Analysis, Import-Quotas Theory, Other trade policy instruments, international negotiations and trade policy.	
6.	Lecture 25-36	Meaning of Balance of payment, difference between and balance of payments. Correction and adjustment of balance of payments.	
7.	Test		

8.	Lecture 37-42	Domestic and Foreign Prices, Fixed and Flexible Exchange Rates, Gold Point, Purchasing Power Parity theory and Balance of Payments.	4. डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: अन्तर्राष्ट्रीय अर्थशास्त्र 5. बरला एण्ड अग्रवाल: अन्तर्राष्ट्रीय अर्थशास्त्र
9.	Lecture 43-54	Theory of Foreign Exchange rate. International financial institutions: I.M.F, IBRD, ADB	
10.	Micro teaching by students		
11.	Lecture 55-62	Importance of Foreign trade for a developing economy, Foreign trade since independence.	
12.	Lecture 63-72	Composition of India's Foreign Trade, Direction of India's Foreign Trade, Trade Polices, Balance of Payments Crisis. Impact of W.T.O. upon India's Foreign Trade, The need for foreign capital and Government's policy of foreign direct investment.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2020-21] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper – Issues of Economic Growth and Development]

[Paper – 2]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Economic growth and development. Development and under development perpetuation of under development; poverty-absolute and relative; Development and development gap-per capita income inequality of income and wealth. P.Q.L.I. & H.D.I	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time.
2.	Lecture10 -18	The concept and components of human capital-education, health, food security & nutrition, Population and economic development, theory of demographic transition. Population and environment	Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before.
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	Theories of development-Classical theory of development. Neo-classical	

		theories of development-Solow and Meade, Mrs. Joan Robinson's Model, Karl Marx theory of development. Theory of social change, Immutable laws of capitalist development-crisis in capitalism; Schumpeter's view and Capitalistic development.	Quizzes conducted. <u>Book suggested-</u> Todaro, M.P. 'Economic Development in the third world Thirlwal, A.P. 'Growth and Development' Meir, G.M. 'Leading issues in economic development'
6.	Lecture 25-36	Partial theories of growth and development-Vicious circle of poverty, Circular causation, Unlimited supply of labour, Big push, Balanced growth, unbalanced growth, critical minimum effort thesis; Low Income Equilibrium Trap Dualism; Technical change, Harrod Domar. Models of growth	
7.	Test		
8.	Lecture 37-42	Role of agriculture in economic development; Importance of land reforms; Efficiency and productivity in agriculture, New technology and Sustainable agriculture	
9.	Lecture 43-54	Globalisation and agricultural growth; Rationale and pattern of industrialization in developing economies. The choice of technique, appropriate technology and employment; small scale vs large scale production, Terms of trade between agriculture and industry; Infrastructure and its importance in development.	
	Micro Teaching by students		

10.	Lecture 55-62	Role of Monetary and fiscal policies in developing countries, External resources, FDI; Aid vs Trade	
11.	Lecture 63-72	Technology inflow; MNCs, Activity in developing countries; IMF and World Bank policies for developing countries.	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2020-2021] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – Quantitative Methods in Economics]

[Paper -III (A)]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Method of data collection, Classification, Tabulation and graphical presentation of data	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Mehta & Madani: Mathematics for Economic R.G.D. Allen: Mathematics for Economic D.N. Elhance: Fundamentals of Statistics
2.	Lecture 10-18	Measures of Central Tendency, Mean, Median, Mode, Q.D, Percentile of Univariate Frequency Distributions measures of Dispersion, Skewness and Kurtosis	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-26	Units, functions, Derivation of functions of one and two variables	
6.	Lecture 27-36	Maxima and Minima and Economic problems related to maxim- minima, convexity & concavity of curves, Partial Derivation and their uses in economics	
7.	Test		
8.	Lecture 37-44	Marginal and conditional distributions: Discrete case, covariance and correlation, rank correlation	
9.	Lecture 45-54	Simple Linear regression, method of least squares, Derivation of the normal equation, standard error of regression (SER)	

10.	Micro teaching by students		
11.	Lecture 55-62	Concept of an index number, Laspeyer's, Paasche's and Fisher's Index Numbers, Time Reversal, Factor reversal and circular tests, chain base index	
12.	Lecture 63-72	Problems in the Construction of an index number; splicing; base shifting and use of index number for deflating other series. Time Series Analysis, component of time series	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2020-21] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

Paper- History of Economic thought

Paper-3 B

Lecture duration- 45 min

[Annual syllabus]

[Mode – Offline]

[Name of faculty involved in delivering the course – Dr.Alka Asthana]

S.NO	LECTURE NO	TOPICS COVERED	TEACHING PEDAGOGY
1	Lecture 1-4	Kautilya,Dada Bhai Naroji, R.C Dutta	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 5-10	B.R Ambedkar,R.M Lohia, ,Gandhian economics	
3	Lecture -11-15	Pt. Dean DayalUpadhyay , J.K Mehta.	
4	Lecture-16-18	A K Sen, J.Bhagwati.	
5	Lecture 19	Revision, Doubt clearing	
6	Lecture 20-24	Early period: economic thought of Plato.	
7	Lecture 25-28	Aristotle -doctrine of just cost and just price.	
8	Lecture 29	Class discussion, revision	

9	Lecture 30-33	Mercantilism: main characteristics	Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 34-38	Thomas MunPhysiocracy. Natural Order, Primacy of Agriculture, social classes, tableau Economique,	
11	Lecture 39-42	Taxation, Turgot-Economic ideas of Petty, Locke and Hume.	
12	Lecture 43	Class discussion, revision ,and doubt clearance class.	
13	Lecture 44-48	Classical Period: Adam smith-Division of labour, theory of value, capital accumulation, distribution.	
14	Lecture 49-53	Views on trade, David Ricardo, Distribution, ideas on international trade, Thomas R. Malthus, Theory of Gluts.	
15	Lecture 54-57	German Romantics and societies-Sismondi, karl Marx- Dynamics of social change, labour theory of value.	
16	Lecture 58-61	Surplus value, profit and theory of Capitalist crises, Economic ideas of J.B Say, J.S.Mill	
17	Lecture 62-66	Marshall as a great synthesizer: role of time in price determination, Economic	

		methods, ideas on consumer's surplus, elasticity, representative firm, Quasi- rent, Pigou: Welfare Economics; Schumpeter	
18	Lecture 67-72	Marginalists,: the precursors of Marginalism, Cournot , Gossen- the Marginalist Revolution: Jevons, Walras and Menger- Bohm- Bawark, Wicksell and fisher, Economic Ideas of Wicksteed and Weiser	

Lesson Plan: [2021-22] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – International Economics]

[Paper -I]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R. K Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Definition and Nature of International Economics, Internal and International trade, the Pattern of Trade, The gains from Trade, Basis for International Trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – 1. Harberler: Theory of International Trade 2. Salvator: International Economics 3. डॉ० सुदामा सिंह एवं वैश्य : अन्तर्राष्ट्रीय अर्थशास्त्र 4. डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: अन्तर्राष्ट्रीय अर्थशास्त्र
2.	Lecture 10-18	The concept of Comparative Advantage, Transport cost and non-traded goods, Reciprocal Demand. Opportunity cost theory of International trade, Hecksher-Ohlin model -an elementary treatment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	The case for free trade, Protection, Basic Tariff Analysis, Import-Quotas Theory, Other trade policy instruments, international negotiations and trade policy.	
6.	Lecture 25-36	Meaning of Balance of payment, difference between and balance of payments. Correction and adjustment of balance of payments.	
7.	Test		
8.	Lecture 37-42	Domestic and Foreign Prices, Fixed and Flexible Exchange Rates, Gold	

		Point, Purchasing Power Parity theory and Balance of Payments.	5. बरला एण्ड अग्रवाल: अन्तर्राष्ट्रीय अर्थशास्त्र
9.	Lecture 43-54	Theory of Foreign Exchange rate. International financial institutions: I.M.F, IBRD, ADB	
10.	Micro teaching by students		
11.	Lecture 55-62	Importance of Foreign trade for a developing economy, Foreign trade since independence.	
12.	Lecture 63-72	Composition of India's Foreign Trade, Direction of India's Foreign Trade, Trade Polices, Balance of Payments Crisis. Impact of W.T.O. upon India's Foreign Trade, The need for foreign capital and Government's policy of foreign direct investment.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2021-22] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper – Issues of Economic Growth and Development]

[Paper – 2]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	1-9	Economic growth and development. Development and under development perpetuation of under development; poverty-absolute and relative; Development and development gap-per capita income inequality of income and wealth. P.Q.L.I. & H.D.I	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Todaro, M.P. 'Economic Development in the third world Thirlwal, A.P. 'Growth and Development'
2.	10 -18	The concept and components of human capital-education, health, food security & nutrition, Population and economic development, theory of demographic transition. Population and environment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	19-24	Theories of development-Classical theory of development. Neo-classical theories of development-Solow and Meade, Mrs. Joan Robinson's Model, Karl Marx theory of development. Theory of social change, Immutable laws of capitalist development-crisis in capitalism; Schumpeter's view and Capitalistic development.	
6.	25-36	Partial theories of growth and development-Vicious circle of poverty, Circular causation, Unlimited supply of labour, Big push, Balanced growth, unbalanced growth, critical minimum effort thesis; Low Income Equilibrium Trap Dualism; Technical change, Harrod Domar. Models of growth	
7.	Test		

8.	37-42	Role of agriculture in economic development; Importance of land reforms; Efficiency and productivity in agriculture, New technology and Sustainable agriculture	Meir, G.M. 'Leading issues in economic development'
9.	43-54	Globalisation and agricultural growth; Rationale and pattern of industrialization in developing economies. The choice of technique, appropriate technology and employment; small scale vs large scale production, Terms of trade between agriculture and industry; Infrastructure and its importance in development.	
	Micro Teaching by students		
10.	55-62	Role of Monetary and fiscal policies in developing countries, External resources, FDI; Aid vs Trade	
11.	63-72	Technology inflow; MNCs, Activity in developing countries; IMF and World Bank policies for developing countries.	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2021-2022] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – Quantitative Methods in Economics]

[Paper -III (A)]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Method of data collection, Classification, Tabulation and graphical presentation of data	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Mehta & Madani: Mathematics for Economic R.G.D. Allen: Mathematics for Economic D.N. Elhance: Fundamentals of Statistics
2.	Lecture 6-12	Measures of Central Tendency, Mean, Median, Mode, Q.D, Percentile of Univariate Frequency Distributions measures of Dispersion, Skewness and Kurtosis	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 13-17	Units, functions, Derivation of functions of one and two variables	
6.	Lecture 18-24	Maxima and Minima and Economic problems related to maxim- minima, convexity & concavity of curves, Partial Derivation and their uses in economics	
7.	Test		
8.	Lecture 25-30	Marginal and conditional distributions: Discrete case, covariance and correlation, rank correlation	
9.	Lecture 31-36	Simple Linear regression, method of least squares, Derivation of the normal equation, standard error of regression (SER)	

10.	Micro teaching by students		
11.	Lecture 37-42	Concept of an index number, Laspeyer's, Paasche's and Fisher's Index Numbers, Time Reversal, Factor reversal and circular tests, chain base index	
12.	Lecture 43-48	Problems in the Construction of an index number; splicing; base shifting and use of index number for deflating other series. Time Series Analysis, component of time series	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2021-22] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper- History of Economic thought]

[Paper-3 B]

[Lecture duration- 60 min]

[Annual syllabus]

[Mode – Offline]

[Name of faculty involved in delivering the course – Dr.Alka Asthana]

S.NO	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1	Lecture 1-4	Kautilya,Dada Bhai Naroji, R.C Dutta	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for
2	Lecture 5-10	B.R Ambedkar,R.M Lohia, ,Gandhian economics	
3	Lecture -11-15	Pt. Dean DayalUpadhyay , J.K Mehta.	
4	Lecture-16-18	A K Sen, J.Bhagwati.	
5	Lecture 19	Revision, Doubt clearing	
6	Lecture 20-24	Early period: economic thought of Plato.	
7	Lecture 25-28	Aristotle -doctrine of just cost and just price.	
8	Lecture 29	Class discussion, revision	

9	Lecture 30-33	Mercantilism: main characteristics	understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 34-38	Thomas MunPhysiocracy. Natural Order, Primacy of Agriculture, social classes, tableau Economique,	
11	Lecture 39-42	Taxation, Turgot-Economic ideas of Petty, Locke and Hume.	
12	Lecture 43	Class discussion, revision ,and doubt clearance class.	
13	Lecture 44-48	Classical Period: Adam smith-Division of labour, theory of value, capital accumulation, distribution.	
14	Lecture 49-53	Views on trade, David Ricardo, Distribution, ideas on international trade, Thomas R. Malthus, Theory of Gluts.	
15	Lecture 54-57	German Romantics and societies-Sismondi, karl Marx- Dynamics of social change, labour theory of value.	
16	Lecture 58-61	Surplus value, profit and theory of Capitalist crises, Economic ideas of J.B Say, J.S.Mill	
17	Lecture 62-66	Marshall as a great synthesizer: role of time in price determination, Economic methods, ideas on	

		consumer's surplus, elasticity, representative firm, Quasi- rent, Pigou: Welfare Economics; Schumpeter	
18	Lecture 67-72	Marginalists,: the precursors of Marginalism, Cournot , Gossen- the Marginalist Revolution: Jevons, Walras and Menger- Bohm-Bawark, Wicksell and fisher, Economic Ideas of Wicksteed and Weiser	

Lesson Plan: [2022-2023] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – International Economics]

[Paper -I]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R. K Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Definition and Nature of International Economics, Internal and International trade, the Pattern of Trade, The gains from Trade, Basis for International Trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – 1. Harberler: Theory of International Trade 2. Salvator: International Economics 3. डॉ० सुदामा सिंह एवं वैश्य : अन्तर्राष्ट्रीय अर्थशास्त्र 4. डॉ० एस०एन० सिंह एवं सुनील कुमार सिंह: अन्तर्राष्ट्रीय अर्थशास्त्र
2.	Lecture 10-18	The concept of Comparative Advantage, Transport cost and non-traded goods, Reciprocal Demand. Opportunity cost theory of International trade, Hecksher-Ohlin model -an elementary treatment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	The case for free trade, Protection, Basic Tariff Analysis, Import-Quotas Theory, Other trade policy instruments, international negotiations and trade policy.	
6.	Lecture 25-36	Meaning of Balance of payment, difference between and balance of payments. Correction and adjustment of balance of payments.	
7.	Test		
8.	Lecture 37-42	Domestic and Foreign Prices, Fixed and Flexible Exchange Rates, Gold	

		Point, Purchasing Power Parity theory and Balance of Payments.	5. बरला एण्ड अग्रवाल: अन्तर्राष्ट्रीय अर्थशास्त्र
9.	Lecture 43-54	Theory of Foreign Exchange rate. International financial institutions: I.M.F, IBRD, ADB	
10.	Micro teaching by students		
11.	Lecture 55-62	Importance of Foreign trade for a developing economy, Foreign trade since independence.	
12.	Lecture 63-72	Composition of India's Foreign Trade, Direction of India's Foreign Trade, Trade Polices, Balance of Payments Crisis. Impact of W.T.O. upon India's Foreign Trade, The need for foreign capital and Government's policy of foreign direct investment.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2022-23] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper – Issues of Economic Growth and Development]

[Paper – 2]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Economic growth and development. Development and under development perpetuation of under development; poverty-absolute and relative; Development and development gap-per capita income inequality of income and wealth. P.Q.L.I. & H.D.I	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Todaro, M.P. 'Economic Development in the third world Thirlwal, A.P. 'Growth and Development'
2.	Lecture 10 -18	The concept and components of human capital-education, health, food security & nutrition, Population and economic development, theory of demographic transition. Population and environment	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 19-24	Theories of development-Classical theory of development. Neo-classical theories of development-Solow and Meade, Mrs. Joan Robinson's Model, Karl Marx theory of development. Theory of social change, Immutable laws of capitalist development-crisis in capitalism; Schumpeter's view and Capitalistic development.	
6.	Lecture 25-36	Partial theories of growth and development-Vicious circle of poverty, Circular causation, Unlimited supply of labour, Big push, Balanced growth, unbalanced growth, critical minimum effort thesis; Low Income Equilibrium Trap Dualism; Technical change, Harrod Domar. Models of growth	
7.	Test		

8.	Lecture 37-42	Role of agriculture in economic development; Importance of land reforms; Efficiency and productivity in agriculture, New technology and Sustainable agriculture	Meir, G.M. 'Leading issues in economic development'
9.	Lecture 43-54	Globalisation and agricultural growth; Rationale and pattern of industrialization in developing economies. The choice of technique, appropriate technology and employment; small scale vs large scale production, Terms of trade between agriculture and industry; Infrastructure and its importance in development.	
	Micro Teaching by students		
10.	Lecture 55-62	Role of Monetary and fiscal policies in developing countries, External resources, FDI; Aid vs Trade	
11.	Lecture 63-72	Technology inflow; MNCs, Activity in developing countries; IMF and World Bank policies for developing countries.	
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2022-2023] [Annual Course]

[Name of Course: B.A – III Economics]

[Subject – Economics]

[Paper – Quantitative Methods in Economics]

[Paper -III (A)]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Method of data collection, Classification, Tabulation and graphical presentation of data	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Mehta & Madani: Mathematics for Economic R.G.D. Allen: Mathematics for Economic D.N. Elhance: Fundamentals of Statistics
2.	Lecture 6-12	Measures of Central Tendency, Mean, Median, Mode, Q.D, Percentile of Univariate Frequency Distributions measures of Dispersion, Skewness and Kurtosis	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 13-17	Units, functions, Derivation of functions of one and two variables	
6.	Lecture 18-24	Maxima and Minima and Economic problems related to maxim- minima, convexity & concavity of curves, Partial Derivation and their uses in Economics	
7.	Test		
8.	Lecture 25-30	Marginal and conditional distributions: Discrete case, covariance and correlation, rank correlation	
9.	Lecture 31-36	Simple Linear regression, method of least squares, Derivation of the normal equation, standard error of regression (SER)	

10.	Micro teaching by Students		
11.	Lecture 37-42	Concept of an index number, Laspeyer's, Paasche's and Fisher's Index Numbers, Time Reversal, Factor reversal and circular tests, chain base index	
12.	Lecture 43-48	Problems in the Construction of an index number; splicing; base shifting and use of index number for deflating other series. Time Series Analysis, component of time series	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2022-23] [Annual Course]

[Name of Course: B.A- III Economics]

[Subject – Economics]

[Paper- History of Economic thought]

[Paper-3 B]

[Lecture duration- 60 min]

[Annual syllabus]

[Mode – Offline]

Name of faculty involved in delivering the course – Dr.Alka Asthana

S.NO.	LACTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1	Lecture 1-4	Kautilya,Dada Bhai Naroji, R.C Dutta	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and
2	Lecture 5-10	B.R Ambedkar,R.M Lohia, ,Gandhian economics	
3	Lecture -11-15	Pt. Dean DayalUpadhyay , J.K Mehta.	
4	Lecture-16-18	A K Sen, J.Bhagwati.	
5	Lecture 19	Revision, Doubt clearing	
6	Lecture 20-24	Early period: economic thought of Plato.	
7	Lecture 25-28	Aristotle -doctrine of just cost and just price.	
8	Lecture 29	Class discussion, revision	

9	Lecture 30-33	Mercantilism: main characteristics	also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10	Lecture 34-38	Thomas MunPhysiocracy. Natural Order, Primacy of Agriculture, social classes, tableau Economique,	
11	Lecture 39-42	Taxation, Turgot-Economic ideas of Petty, Locke and Hume.	
12	Lecture 43	Class discussion, revision ,and doubt clearance class.	
13	Lecture 44-48	Classical Period: Adam smith- Division of labour, theory of value, capital accumulation, distribution.	
14	Lecture 49-53	Views on trade, David Ricardo, Distribution, ideas on international trade, Thomas R. Malthus, Theory of Gluts.	
15	Lecture 54-57	German Romantics and societies- Sismondi, karl Marx- Dynamics of social change, labour theory of value.	
16	Lecture 58-61	Surplus value, profit and theory of Capitalist crises,	

		Economic ideas of J.B Say, J.S.Mill	
17	Lecture 62-66	Marshall as a great synthesizer: role of time in price determination, Economic methods, ideas on consumer's surplus, elasticity, representative firm, Quasi- rent, Pigou: Welfare Economics; Schumpeter	
18	Lecture 67-72	Marginalists,: the precursors of Marginalism, Cournot , Gossen- the Marginalist Revolution: Jevons, Walras and Menger- Bohm- Bawark, Wicksell and fisher, Economic Ideas of Wicksteed and Weiser	

Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: M.A Previous

Economics]

[Subject – Economics]

[Paper–Micro Economics Analysis]

[Paper – I]

[LectureDuration45mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course- Dr. R. K. Dixit

S.NO.	LECTURENO.	TOPICCOVERED	TEACHINGPEDAGOGY
1.	Lecture1-12	Basic Economic Problem - Choice and Scarcity, Deductive and Inductive Methods of Analysis, Positive and Normative Economic Models, Characteristics of Equilibrium and disequilibrium Systems	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalkandboardmethodisusedmost of the time. Interactive teaching is preferred including group discussions before the start of some topics. Studentsareinvitedfromtimetotime to come on board to enhance their understandingandpresentationskills. Forthis purpose,topicsofdiscussion are allotted a day or two before. Quizzesconducted Bookssuggested– Gregory Mankiw: Principles of Microeconomic David M. Kreps, (1990),ACoursein
2.	Lecture12-22	Elasticities(Price,cross,income)of demand - theoretical aspects and empirical estimation elasticity of supply, Theories of Demand - Utility, Indifference Curve (income and substitution effects, Slutsky theorem, compensated demand curve) and their applications, Revealed Preference Theory, Revision of Demand Theory by Hicks, Characteristics of goods approach,consumer'schoice involving risk, Indirect utility functions (duality theory)	
3.	Revision/Tutorial		
4.	Class Quiz		

5.	Lecture23-30	Production Function- short period and long period, law of variable proportions and returns to scale, Isoquants - Least cost combination of inputs, Returns to Factors, Economiesofscale,Multi-product firm, Elasticity of Substitution, Euler'stheorem,Technicalprogress andproductionfunction,Cobb-	Microeconomic Theory, Princeton UniversityPress,Princeton. A.Koutsoyiannis,(1979)Modern Microeconomics (2nd edition), MacmillanPress, London
		Douglas, Traditional and modern theories of costs, Empirical evidence, Derivation of cost functionsfromproduction functions, derived demand for factors	A. Sen, (1999), Microeconomics, Theory and Applications, Oxford UniversityPress,NewDelhi H. Varian, (2000), Microeconomic analysis, WW Norton, New York
6.	Lecture31-44	Marginalanalysisasanapproachto price and output determination perfect competition - short run and longrunequilibriumofthefirmand industry, price and output determination, supply curve, Monopoly – short run and long run equilibrium, price discrimination, welfare aspects, monopoly control and regulation, Monopolistic competition - general and Chamberlin approaches to equilibrium,equilibriumoffirmand the group with product differentiation and selling costs, excess capacity under monopolistic andimperfectcompetition,criticism of monopolistic competition, Oligopoly-Non-collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Kinked demand curve and Stackelberg'ssolutionandcollusive (Cartels and mergers, price leadership and basing point price system) models, Price and output determination under monopoly and bilateral monopoly, Workable CompetitionûStructure,conduct andperformance norms	H.L Ahuja, Advanced Economic Theory: Microeconomic Analysis theory M.LJhingan, Microeconomics W.J Baumol, (1982), Economic Theory and Operations Analysis, PrenticeHallofIndia,New Delhi J.M. Henderson, and R.E. Quandt (1980) Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi HealthfieldsandWibe(1987),An Introduction to Cost and Production Functions, Macmillan, London J. Hirshleifer and A. Glazer (1997), Price Theory and Applications. Prentice Hall of India, New Delhi G.C.Archibald,(Ed.)(1971).Theory oftheFirm, Penguin Harmondsworth J. Bain, (1958), Barriers to New Competition, Harvard University Press, Harvard
7.	Test		

8.	Lecture45-53	Critical evaluation of marginal analysis, Baumol's sales revenue maximization model, Williamson's model of managerial discretion, Marris model of managerial enterprise, Full cost pricing rule, Bain's limit pricing theory and its recent developments including Sylos-Labini'smodel,Behavioural modelofthefirm,Gametheoretic models	MBronfenbrenner,(1979),Income Distribution Theory, Macmillan, London R.W.BroadwayandN.Bruce(1984). WelfareEconomics,BasilBlackwell, London J. De V. Graff, (1957), Theoretical Welfare Economics, Cambridge University Press, Cambridge J.M. Henderson and R.E. Quandt (1988) Microeconomic Theory: A Mathematical Approach, McGraw Hill New Delhi
9.	Lecture54-64	Neo-classical approach - Marginal productivity theory, Product exhaustion theorem, Elasticity of technical substitution, technical progress and factor shares, Theory of distribution in imperfect product andfactormarkets,Determination	

		ofrent,wages,interestandprofit, Macro theories of distribution-Ricardian,Marxian,Kaleckiand Kaldor's	G.C. Da Costa (1980), Production, PricesandDistribution,TataMcGraw Hill, New Delhi
10.	Microteachingby students		
11.	Lecture65-80	Pigouvian welfare economics, Pareto optimal conditions, Value judgement, Social welfare function, Compensationprinciple,Inabilityto obtain optimum welfare-Imperfections, market failure, decreasing costs, uncertainty and non-existent and incomplete markets, Theory of Second Best - Arrow's impossibility theorem, Rawl'stheoryofjusticeequity-efficiencytrade-off	
12.	Lecture81-96	Partial and general equilibrium, Walrasianexcessdemandandinput-output approaches to general equilibrium, existence, stability and uniqueness of equilibrium and generalequilibrium,coalitionsand monopolies, Production without consumption-onesectormodel, homogeneous functions, Income distribution, production without consumption-twosectormodel, relationship between relative commodity and factor prices (Stolper- Samuelson theorem), relationshipbetweenoutputmixand real factor prices, effect of changes in factor supply in closed economy (Rybczynskitheorem),production andconsumption	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	DispersalofClass		

Lesson Plan: [2018-19] [Annual Course]

[Name of Course: M.A – Previous Economics][Subject – Economics]

[Paper – Quantitative Methods][Paper – II]

[Lecture Duration – 45 mins][Annual Syllabus] [Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	Concept of function and types of functions; Limit, continuity and derivative; Rule of differentiation; Interpretation of revenue, cost, demand, supply functions; Elasticities and their types; Multivariable functions; Concept and types of production functions; Rules of partial differentiation and interpretation of partial derivatives.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics.
2.	Lectures13-25	Problems of maxima and minima in single and multivariable functions; Unconstrained and constrained optimization in simple economic problems; Simple problems in market equilibrium; Concept of integration; simple rules of integration; Application to consumer's surplus and producer's surplus; Growth rates and simple properties of time path of continuous variables.	Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – 1. RGD Allen (1974),

3.	Lecture 26-35	Determinants and their basic properties; Solution of simultaneous equations through Cramer's rule; Concept of matrix - their types, simple operations on matrices, matrix inversion and rank of a matrix; concept of quadratic forms- Eigen roots and Eigen vectors'; introduction to input-output analysis; Difference equations; Applications in trade cycle models;	Mathematical Analysis for Economics, Macmillan Press and ELBS, London 2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York

		Growth models an lagged market equilibrium models.	3. SC Gupta, (1993) Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi
4.	Revision/ Tutorial		
5.	Class Quiz		4. M R Spiegel,(1992). Theory and Problems of Statistics, McGraw Hill Book Co., London
6.	Lecture 36-50	Linear programming - Basic concept; Formulation of a linear programming problem - Its structure and variables; Nature of feasible, basic and optimal solution; Solution of linear programming through graphical and simplex method; Statement of basic theorems of linear programming; Formulation of the dual of a programme and its interpretation.	5. H.A Taha, (1997), Operations Research: An Introduction (6th Edition, Prentice Hall of India Pvt. Ltd, New Delhi
7.	Lecture 51- 60	Concept of duality and statement of duality theorems; Concept of a game; Strategies - simple and mixed; Value of a game; Saddle point solution; Simple applications.	6. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi
8.	Test		
9.	Lecture 61-75	Meaning, assumptions and limitations of simple correlation and regression analysis; Pearson's product moment and Spearman's rank correlation coefficients and their properties; Concept of the least squares and the lines of regression; Standard error of estimate; partial and multiple correlation and regression (applications only); Methods of estimation of non- linear equations-parabolic, exponential, geometric, modified exponential, Gompertz and logistic relationships.	
10.	Micro teaching by students		
11.	Lecture 76-85	Deterministic and non-deterministic experiments; various types of events-classical and empirical definitions of probability; Laws of addition and multiplication; Conditional probability and concept of interdependence; Bayers theorem and its applications; Elementary concept of random variable; Probability, mass and density functions; Expectations, moments and moment generating functions; Properties (without derivations) of	

		Binomial; Poisson and Normal distributions.	
12.	Lecture 86-96	Basic concept of sampling -random and non-random sampling; Simple random; stratified random and p. p.s. sampling; Concept of an estimator and its sampling distribution; Desirable properties of an estimator; Formulation of statistical hypothesis - Null and alternative; Goodness of fit; Confidence intervals and level of significance; Hypothesis testing based on Z, t, x2 (Chi-square) and F tests; Type 1 and type 2 errors.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson plan (2018-2019)

Name 0f course- M.A. (PREVIOUS)

SUBJECT – ECONOMICS

PAPER – PUBLIC ECONOMICS

PAPER - 3

(LECTURE DURATION – 45 MINS)

Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Role of Govt. in organized society; changing perspective- Govt. in a mixed economy, public and private sector. Cooperation or competition;	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to
2.	Lecture 6-10	Govt. as an agent for economic development' private goods ,public goods and merit goods. Market failure- imperfection, decreasing costs, externalities, public goods.	
3	Lecture 11-20	Allocation of resources- provision of public goods ;voluntary exchange models; Impossibility of decentralized provision of public goods(contribution of Samuelson and Musgrave);	
4	Lecture 21-30	Stabilization Policy; social goals; distributional and regional equalities .Wagner's Law of increasing state activities; Wiseman- Peacock Hypothesis; pure theory of public expenditure. Structure and growth of public expenditure;	
5	Lecture 31-35	Social cost --benefit analysis; project evaluation, estimation of costs, discount rate, reforms in expenditure budgeting; programme budgeting and zero base budgeting.	
6.	Lecture 36-42	Theory of Incidence; Alternative	

		concepts of Incidence- Allocation and equity aspects of individual taxes, benefit and ability to pay approaches, theory of optimal taxation, excess burden of taxes, trade of between equity and efficiency; the problem of double taxation.	come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
7	Lecture 43-50	Classical View of public debt; compensatory aspect of debt policy, burden of public debt, source of public debt, debt through created money, public borrowing and price level; crowding out private investment and activity; principle of debt management and repayment.	
8.	Lecture 51-60	Objectives of fiscal policy- full employment, anti-inflation, economic growth, redistribution of income and wealth; interdependence of fiscal and monetary policies. Budgetary deficit and its implications.	
9.	Lecture 61-65	Fiscal policy for stabilization- automatic vs. discretionary stabilization; alternative measure of resource mobilization and their impact on growth; distribution and prices, balanced budget multiplier.	
10.	Lecture 66-71	.Fiscal Federalism in India; vertical and horizontal imbalance; assignment of function and sources of revenue; constitutional provision, finance commission and planning commission; devolution of resources and grants; states resources	
11.	Lecture 72-80	Theory of grants, Resource transfer from union of states- criteria for transfer of resources; centre- state financial relation in India, problems of states resources and indebtedness, transfer from union and states to local bodies.	

12.	Lecture 81-85	Indian tax system, revenue of the union, states and the local bodies.	
13.	Lecture 86-90	Major taxes in India , base of taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes.	
14.	Lecture 91-95	GST as major indirect reform, taxes on services, non tax revenue of centre, state and local bodies.	
15.	Lecture 96-103	Trends in public expenditure ,public revenue and public debt, fiscal sector reforms in India, Strategy of union budget.	

Lesson Plan: [2018-19] [Annual Course]

[Name of Course: M.A(Previous)– Economics]

[Subject – Economics]

[Paper – Economics of Growth and Development]

[Paper – 4]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	1-9	Economic growth and development-Factors affecting economic growth; capital, labour and technology, Growth models-Harrod and Domar, instability of equilibrium.	Lectures delivered in the language comfortable to the students. (Hindi and English mix)
2.	10 -19	Neo classical growth models-Solow and Meads, Mrs. Joan Robinson's growth model; Cambridge criticism of Neo-classical analysis of growth, The capital controversy. Measuring development and development gap- percapita income, inequality of income.	Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics.
3.	Revision/ Tutorial		
4.	Class Quiz		Students are invited from

			time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Adelman, I. (1961) Theories of Economic growth and development, Stanford University Press, Stanford. Behrman, S and T.N. Srinivasan (1995), Handbook of development economics, Vol 3, Elsevier, Amsterdam. Brown, M. (1966) On the theory and measurement of technical change,
5.	20-35	Human Development Index and their indices; Human resource development, population problem and growth patterns of population- Theory of demographic transition; Population, poverty and environment; Economic Development and institution; Markets and market failure, State and state failure; issues of good governance.	
6.	36-45	Classical theory of development- Adam smith, Ricardo, Malthus and James Mill; Karl Marx and development of capitalistic economy- Theory of social change, surplus value and profit; Immutable laws of capitalist development; Crisis in capitalism-Schumpeter and capitalistic development; Innovation- role of credit, profit and degeneration of capitalism; Structural analysis of development; Imperfect market paradigm.	
7.	Test		
8.	46-62	Partial theories of growth and development-Vicious circle of poverty, circular causation; Unlimited supply of labour; Big push, Balanced growth, Unbalanced growth, Critical minimum effort thesis, Low-	

		income equilibrium trap; Dualism-technical, behavioral and social, Fei Ranis model; Dixit Marglin model, Kelly et al Model; Dependency theory of development; Structural view of development, Trade and economic development, Sectoral Terms of Trade.	Cambridge University Press, Cambridge, Mass. Thirwal, A.P. (1999) (6th Edition), Growth and Development Macmilian, U.K.
9.	Micro Teaching by students		
			Todaro, M.P. (1996) (6th Edition) Economic development, Longman, London
10.	63-81	Role of monetary and fiscal policies in developing countries-Prior savings, inflation and growth-Empirical evidence; External resources-FDI, aid vs. trade, technology inflow; MNC activity in developing countries; Borrowings-domestic and external; Burden of borrowing-IMF and World Bank policies in developing countries.	Kindleberger, C.P. (1977), Economic development (3rd Edition), McGraw Hill, New York.
11.	82-96	Need for investment criteria in development countries-present vs., future, Alternative investment criteria; Cost-benefit analysis, Shadow prices, Project evaluation and UNIDO guidelines, Choice of Techniques.	Kahmonon, S. and M. Olson (2000) A New Institutional Approach to Economic Development Vistaar
12.	Revision/Tutorial		Gimmell, N. (1987), surveys in Development

13.	Class Quiz		Economics, Blackwell; Oxford. Ghatak, S. (1986) An introduction to development economics, Allen and Unwin, London
14.	Dispersal of Class		

Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: M.A – Previous Economics][Subject – Economics]

[Paper – Agricultural Economics][Paper – 5 (Optional Paper -II)] [Lecture Duration – 45 mins] [Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	Nature and scope of agricultural and rural economics, Traditional agriculture and its modernization, Role of agriculture in economic development, Interdependence between agriculture and industry - some empirical evidence, Models of interaction between agriculture and the rest of the economy, Agricultural development, poverty and environment	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – A. Bhaduri, (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi
2.	Lecture 12-22	Livestock economics - Livestock resources and their productivity, problems of marketing, White revolution, Fishery and poultry development, Forestry, horticulture and floriculture, Issues and problems in rural industrialization and development of agro-based industries	
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Lecture 23-30	Use of land, water and energy, Rural transport, communication, banking, extension services, role, modes and problems of rural electrification, Rural social infrastructure - education and health and information dissemination	S.A.R. Bilgrami, (1996), Agricultural Economics, Himalaya Publishing House, Delhi M.L. Dantwala etc. al. (1991), Indian Agricultural Development Since

6.	Lecture 31-40	Agricultural production - Resource use and efficiency, Production function analyses in agriculture, Factor combination and resource substitution, Cost and supply curves, Size of farm and laws of returns - Theoretical and empirical findings, Farm budgeting and cost concepts, Supply response of individual crops and aggregate supply, Resource use efficiency in traditional agriculture; Technical change, labour absorption and gender issues in agricultural services	Independence, oxford & IBH, New Delhi Government of India (1976), report of the National Commission on Agriculture, New Delhi Government of India, Economic Survey (Annual), New Delhi A. Gulati and T. Kelly (1999). Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi P.C. Joshi, (1975), Land Reforms in India; Trends and Prospects, Allies Publishers, Bombay A S, Kahlon and D.S. Tyagi (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi C.H. Hanumantha Rao, (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi A. Rudra, (1982), Indian Agricultural Economics; Myths and Reality, Allied Publishers, New Delhi G.R. Saini, (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi
7.	Test		
8.	Lecture 41-49	Principles of land utilization, Land distribution - Structure and trends, Land values and rent, Land tenures and farming systems - Peasant, capitalist, collective and state farming, Tenancy and crop sharing - Forms, incidence and effects, Land reform measures and performance, Women and land reform, Problems of marginal and small farmers	
9.	Lecture 50-59	Rural labour supply, Interlocking of factor markets: Mobility of labour and segmentation in labour markets, marginalisation of rural labour, Nature, extent and trends in rural unemployment, Agricultural wages in India, Male-female wage differences; Non-agricultural rural employment - Trends and determinants	
10.	Micro teaching by students		
11.	Lecture 60-66	Cooperative movement, Genesis and growth of cooperative sector, Agricultural cooperation in India, Problems and Prospects of cooperative institutions	
12.	Lecture 67-78	Marketing and state policy, Agricultural markets and marketing efficiency - Marketing functions and costs, Market structure and imperfections, Regulated markets, Marketed and marketable surplus, Behaviour of agricultural prices-Cobweb model, Price and income stability, State policy with respect to agricultural marketing,	

		Warehousing, Prices, Taxation and crop insurance, Terms of trade between agricultural and non-agricultural prices, Need for state intervention, Objectives of agricultural price policy-Instruments and evaluation, Food security in India and public distribution system	
13.	Lecture 79-89	Recent trends in agricultural growth in India, Inter-regional variations in growth of output and productivity, Cropping pattern shifts, Supply of inputs - Irrigation, power, seed and fertilizers, Pricing of inputs and role of subsidies, Distribution of gains from technological change, Role of Public investment and capital formation in Indian agriculture, Strategy of agriculture development and technological progress, Sustainable agriculture Indigenous practices, Bio-technological practices and growth potential	
14.	Lecture 90-96	International trade in agricultural commodities, Commodity agreements - Role of World Trade Organization, Issues in liberalization of domestic and international trade in agriculture - Nature and features of agro-business, Role of MNCs, Globalization of Indian economy and problems and prospects of Indian agriculture, Impact of World Trade Organization on Indian agriculture	
15.	Revision/Tutorial		
16.	Class Quiz		
17.	Dispersal of Class		

Lesson Plan: [2019-2020] [Annual Course]

[Name of Course: M.A – Previous Economics]

[Subject – Economics]

[Paper – Micro Economics]

[Paper – I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R. K. Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-16	Basic Economic Problem - Choice and Scarcity, Economic Statistics and Dynamics, Elasticities (price, cross, income) of demand - theoretical aspects and empirical estimation, Elasticity of supply, Theories of Demand – Utility, Indifference curve (income and substitution effects, Slutsky theorem, compensated demand curve) and their application, Revealed Preference theory, Revision of Demand theory by Hicks, Characteristics of goods approach, consumer's choice involving risk	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Gregory Mankiw: Principles of Microeconomic David M. Kreps, (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton. A. Koutsoyiannis, (1979) Modern Microeconomics (2nd edition), Macmillan Press, London
2.	Lecture 17-32	Production Function - short period and long period, law of variable proportions and returns to scale, Isoquants - Least cost combination of inputs, Returns of Factors, Economies of scale, Multi - product firm, Elasticity of Substitution, Euler's theorem, Technical progress and production function, Cobb - Douglas, Traditional and modern theories of costs - Empirical evidence, derivation of cost functions from production functions	
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Test		A. Sen, (1999), Microeconomics, Theory and Applications, Oxford University Press, New Delhi H. Varian, (2000), Microeconomic analysis, WW Norton, New York H.L Ahuja, Advanced Economic Theory: Microeconomic Analysis theory M.L Jhingan, Microeconomics W.J Baumol, (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi J.M. Henderson, and R.E. Quandt (1980) Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi Healthfields and Wibe (1987), An Introduction to Cost and Production Functions, Macmillan, London J. Hirshleifer and A. Glazer (1997), Price Theory and Applications. Prentice Hall of India, New Delhi G.C. Archibald, (Ed.) (1971). Theory of the Firm, Penguin Harmondsworth J. Bain, (1958), Barriers to New Competition, Harvard University Press, Harvard M Bronfenbrenner, (1979), Income Distribution Theory, Macmillan, London R.W. Broadway and N. Bruce (1984). Welfare Economics, Basil Blackwell, London J. De V. Graff, (1957), Theoretical Welfare Economics, Cambridge University Press, Cambridge J.M. Henderson and R.E. Quandt (1988) Microeconomic Theory: A
6.	Lecture 33-55	Determination of equilibrium output and price, marginal approach, Perfect competition - short run and long run equilibrium of the firm and industry, Supply curve, Monopoly - short run and long run equilibrium, price discrimination, Price determination under bilateral monopoly, welfare aspects and dead weight loss, monopoly control and regulation, Monopolistic competition - general and Chamberlin approaches to equilibrium, equilibrium of the firm and the group, Product differentiation and Selling costs excess capacity under monopolistic and imperfect competition, Critique of monopolistic competition, Oligopoly - Non-collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Price rigidity and Kinked demand curve, Collusive (Cartels and mergers, price leadership and basing point price system) models	
7.	Lecture 56-66	Critical evaluation of marginal analysis, Baumol's sales revenue maximization model, Williamson's model of managerial discretion, Marris model of managerial enterprise, Full cost pricing rule, Bain's limit pricing theory and its recent developments including Sylos - Labini's model, Behavioural model of the firm, Game theoretic models	
8.	Micro teaching by students		
9.	Lecture 67-80	Neo-classical approach - Marginal productivity theory, Product exhaustion theorem, Elasticity of technical substitution, technical progress and factor shares, Theory of distribution in imperfect product and factor markets, Determination of rent, wages, interest and profit, Macro theories of distribution- Ricardian, Marxian, Kalecki and Kaldor's	

10.	Lecture 81-96	Pigouvian welfare economics, Pareto optimal conditions - Value judgement, Social welfare function, Compensation principle, Inability to obtain optimum welfare - Imperfections, market failure, decreasing costs, uncertainty and non-existent and incomplete markets	Mathematical Approach, McGraw Hill New Delhi G.C. Da Costa (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi
11.	Revision/Tutorial		
12.	Class Quiz		
13.	Dispersal of Class		

Lesson Plan: [2019-20]

[Name of course M.A (P) Economics

[Course code-

[Subject- Economics]

[Paper- International Economics]

[Paper – 2]

[Lecture duration 60mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course- Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Theory of international trade- Theories of absoluteadvantage and opportunity costs,modern theory of internationaltrade; theorem of factor price equalization;empiricaltestingoftheoryofabsolutecost and comparative cost-hecksher-ohlin theory of trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook Topology without tears by Sidney A. Morris. Quizzes conducted. Books suggested-Bhagwati,(ED.)(1981),International Trade,selectedReadings,CambridgeUniversityPress,Mass
2	Lecture 6-10	Kravis and linder theory of trade,role of dyanamicfactor,i.e. changes in tastes,technologyandfactorendwments in explaining the emergence of trade.	
3	Lecture 11- 15	The rybozynskitheorm-concept and policy implications of immiserizing growth Measurement of gains from trade and their distribution, concept of term of trade-,	
4	Revision/ Tutorial		
5	Lecture 16- 20	Their uses and limitations, hypothesis of secular deterioration of terms of trade. Its empircil relevance and policy implication forless developed countries; trade as an engine of growth.	
6	Class quiz		
7	Lecture 21- 25	Welfare implications, empirical evidence and policy issues.	

		The theory of interventions(tariffs, quotes and non -tariffs barriers);economic effects of-	achusetts Carbough,R.J.(1999),International Economics, International Thompson publishing,New york. Dunn,R.M.(1994),The International Economy,Cambridge University Press London. Kindleberger,p.(1973),InternationalEconomics,R.D.irwin, Homewood. Krugman,P.R.andM. Obstfeld (1994). InternationalEconomicsTheory and Policy,Glenview,foresman. Sodeerston,Bo(1991),InternationalEconomics,The Macmillan Press Ltd,London.
8	Lecture 26- 30	Traiffs and quotas on national income,output,employment,term of trade,incomedistribution,balance of payments on trading partners both in partial and generalquilibrium analysis.	
9	Lecture 31- 35	Non tariff barriers and their implication,nominal, effective and optimum rates of tariffs-their measurement, impact and welfare implication. Balance of payments and international financial markets-meaning and components of balance of payments;	
10	Revision/ Tutorial		
11	Class quiz		
12	Lecture 36- 40	Equilibrium and Disequlibrium in balance of payments;the process adjustment under system,fixed exchange rates and flexible exchangerates; devaiuation,essential conditions forits success and limitation.policies for achiving internal and external equilibriumsimultaneously under alternative exchange rate regimes.	
13	Lecture 41- 45	A Critical review of the monetary approach to the theory of balance of payments adjustment; foreign trade multipliyer. Relative merits and demerits of fixed and flexible exchange rate.markets for future options and other financial derivatives global financial crisis.	
14	Mid term exam		
15	Lecture 46- 50	The Theory of Regional Blocks- Emergence of trading blocks at the global level;static and dynamic effects of a customs union and free trade areas , Rationale and economic progress ofSAARC/SAPTA and ASEAN region.problems and prospects of forming a customs union in theAsianRegion, Regionalism(EU,NAFTA);Maultilateral issues andWTO.	

16	Lecture 51- 55	Bretton-wood system;need,adequacyand determinatsof international reserves ; conditionality clause of imf. Reform of the international monetary System, India and developingcountries;	
17	Lecture 56- 60	Theory of short term capital movements; function of GATT/WTO(TRIPS,TRIMS)UNCTED IMF WORLD BANK AND ASIAN DEVELOPMENT BANK -their achievements and failures; WTOand Bank from the point of view of india.	
18	Micro teaching by students		
19	Lecture 61- 65	Trade problems and trade policies in india during the last five decades.recentcnages in the direction and composition of trade and theirimplications;	
20	Lecture 66- 70	Rationale and impact of trade reforms since 1991 on balance ofpayments,employment and growth.,	
21	Lecture 71- 75	Problems of india,s international debt;workingandregulations of MNCS in india; instrumentsof export promotion and recent import and exportpolicies and agenda for future.	
22	Revision/ Tutorial		
23	Class quiz		
24	Dispersal of class		

Lesson plan-(2019-2020)

Course name – M.A Previous

Paper 3 (Compulsory)

Subject - Economics

Paper –Environmental Economics

Lecture duration- 45-mins

Mode-offline

Maximum Marks- 100

Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Nature and scope of Environmental Economics-subject matter, Ecosystem-Ecology and Economic growth.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or
2.	Lecture 6-10	Ecology and Environmental Interaction, Leontief's Abatement model	
3	Lecture 11-17	Economics of recycling and waste management, Biodiversity crises, sustainable tourism, natural resources policy.	
4	Lecture 18-25	Pareto optimality and competitive Equilibrium; Pigouvian analysis of externalities	
5	Lecture 26-30	Compensation criterian, social choice and justice.	
6.	Lecture 36-42	Environmental quality as a public goods, market failure Property rights and Coase theorem.	
7	Lecture 43-47	Valuation methods, hedonic property values and household production models.	
8.	Lecture 48-52	Cost of Economic growth and Environmental degradation, environmental quality and economic development.	

9.	Lecture 53-57	Kuznets hypothesis, economics of natural resources management and sustainable development.	two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10.	Lecture 58-63	Green marketing, clean technology of production, environmental auditing, environmental management system, sustainable agriculture management.	
11.	Lecture 64-69	Land degradation and environmental costs, food security in India, Trade and Environment in WTO Regime.	
12.	Lecture 70-75	Theories of population-Malthusian theory, theory of Demographic transition, population and environmental Linkages.	
13.	Lecture 76-81	Policy Directives Gender Equality, welfare and Environment, Right to Information, Environment and Health.	
14.	Lecture 82-88	Environmental pollution-water, air, noise, marine, soil, thermal, nuclear hazards.	
15.	Lecture 89-102	Policy instruments to control environmental pollution. Value based environmental education and public awareness. Environmental laws in India. An appraisal disaster management, National environmental policy.	

Lesson Plan: [2019-20] [Annual Course]

[Name of Course: M.A(Previous)– Economics]

[Subject – Economics]

[Paper – Economics of Growth and Development]

[Paper – 4]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	1-9	Economic growth and development-Factors affecting economic growth; capital, labour and technology, Growth models-Harrod and Domar, instability of equilibrium.	Lectures delivered in the language comfortable to the students. (Hindi and English mix)
2.	10 -19	Neo classical growth models-Solow and Meads, Mrs. Joan Robinson's growth model; Cambridge criticism of Neo-classical analysis of growth, The capital controversy. Measuring development and development gap- percapita income, inequality of income.	Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics.
3.	Revision/ Tutorial		
4.	Class Quiz		Students are invited from time to time to come on board to enhance their understanding and
5.	20-35	Human Development Index and their indices; Human	

		resource development, population problem and growth patterns of population- Theory of demographic transition; Population, poverty and environment; Economic Development and institution; Markets and market failure, State and state failure; issues of good governance.	presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Adelman, I. (1961) Theories of Economic growth and development, Stanford University Press, Stanford. Behrman, S and T.N. Srinivasan (1995), Handbook of development economics, Vol 3, Elsevier, Amsterdam. Brown, M. (1966) On the theory and measurement of technical change, Cambridge University Press, Cambridge, Mass.
6.	36-45	Classical theory of development- Adam smith, Ricardo, Malthus and James Mill; Karl Marx and development of capitalistic economy- Theory of social change, surplus value and profit; Immutable laws of capitalist development; Crisis in capitalism-Schumpeter and capitalistic development; Innovation- role of credit, profit and degeneration of capitalism; Structural analysis of development; Imperfect market paradigm.	
7.	Test		
8.	46-62	Partial theories of growth and development-Vicious circle of poverty, circular causation; Unlimited supply of labour; Big push, Balanced growth, Unbalanced growth, Critical minimum effort thesis, Low-income equilibrium trap; Dualism-technical, behavioral and social, Fei Ranis model; Dixit Marglin model, Kelly et	

		al Model; Dependency theory of development; Structural view of development, Trade and economic development, Sectoral Terms of Trade.	Thirwal, A.P. (1999) (6th Edition), Growth and Development Macmilian, U.K.
9.	Micro Teaching by students		
			Todaro, M.P. (1996) (6th Edition) Economic development, Longman, London
10.	63-81	Role of monetary and fiscal policies in developing countries-Prior savings, inflation and growth-Empirical evidence; External resources-FDI, aid vs. trade, technology inflow; MNC activity in developing countries; Borrowings-domestic and external; Burden of borrowing-IMF and World Bank policies in developing countries.	Kindleberger, C.P. (1977), Economic development (3rd Edition), McGraw Hill, New York.
11.	82-96	Need for investment criteria in development countries-present vs., future, Alternative investment criteria; Cost-benefit analysis, Shadow prices, Project evaluation and UNIDO guidelines, Choice of Techniques.	Kahmonon, S. and M. Olson (2000) A New Institutional Approach to Economic Development Vistaar
12.	Revision/Tutorial		Gimmell, N. (1987), surveys in Development Economics, Blackwell; Oxford.
13.	Class Quiz		
14.	Dispersal of Class		

			Ghatak, S. (1986) An introduction to development economics, Allen and Unwin, London

Lesson Plan: [2019-2020] [Annual Course]

[Name of Course: M.A – Previous Economics]

[Subject – Economics]

[Paper – Agricultural Economics]

[Paper – 5 (Optional Paper -II(a))]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	Nature and scope of agricultural and rural economics, Traditional agriculture and its modernization, Role of agriculture in economic development, Interdependence between agriculture and industry-some empirical evidence, Models of interaction between agriculture and the rest of the economy, Agricultural development, poverty and environment	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics.
2.	Lecture 12-22	Livestock economics- Livestock resources and their productivity, Problems of marketing, White revolution, Fishery and poultry development Forestry, Horticulture and Floriculture, Issues in rural industrialization and growth of non-farming activities	Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted
3.	Revision/ Tutorial		<u>Books suggested</u> –
4.	Class Quiz		A. Bhaduri, (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi
5.	Lecture 23-30	Use of land, water and energy, Rural transport, communication, banking, extension services, role, modes and problems of rural electrification, Rural social infrastructure-education and health and information dissemination	S.A.R. Bilgrami, (1996), Agricultural Economics, Himalaya Publishing House, Delhi
6.	Lecture 31-44	Agricultural production Resource use and efficiency, Production function analyses in agriculture, Factor combination and resource	M.L. Dantwala etc. al. (1991), Indian Agricultural Development Since Independence, oxford & IBH, New Delhi

		substitution, Size of farm and laws of returns - Farm budgeting and cost concepts, Supply response of individual crops and aggregate supply, Resource use efficiency in traditional agriculture, Technical change, labour absorption and gender issues in agriculturalservices	Government of India (1976), report of the National Commission on Agriculture, New Delhi Government of India, Economic Survey (Annual), New Delhi A. Gulati and T. Kelly (1999). Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi P.C. Joshi, (1975), Land Reforms in India; Trends and Prospects, Allies Publishers, Bombay A S, Kahlon and D.S. Tyagi (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi C.H. Hanumantha Rao, (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi A. Rudra, (1982), Indian Agricultural Economics; Myths and Reality, Allied Publishers, New Delhi G.R. Saini, (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi
7.	Test		
8.	Lecture 45-53	Principles of land utilization, Land distribution Structure and trends, Land values and rent, Land tenures and farming systems - Peasant, capitalist, collective and state farming, Tenancy and crop sharing-Forms, Incidence and effects, land reform measures and performance, Women and land reforms, Problems of marginal and small farmers, Impact of MNREGA on Supply, productivity and wages of rural labour	
9.	Lecture 54-64	Role of capital and rural credit, Organized and unorganized capital market, Rural savings and capital formation, Characteristics and sources of rural credit- Institutional and non – institutional, Reorganization of rural credit-cooperatives, commercial banks, Regional Rural Banks, Role of NABARD, Microfinance	
10.	Micro teaching by students		
11.	Lecture 65-80	Marketing and state policy, Agricultural markets and marketing efficiency - Marketing functions and costs, Market structure and imperfections, Regulated markets, Marketed and marketable surplus, Behaviours of agricultural prices - Cobweb model, Price and Income stability, State policy with respect to agricultural marketing, Warehousing, prices, Taxation and crop Insurance Terms of trade between agricultural and non-agricultural prices, Need for state intervention, Objectives of agricultural price policy - Instruments and evaluation, Food	

		security in India and public distribution system	
12.	Lecture 81-96	Recent trends in agricultural growth in India, Inter-regional variations in growth of output and productivity, Cropping pattern shifts, Supply of inputs - Pricing of inputs and role of subsidies, Distribution of gains from technological change, Role of Public investment and capital formation in Indian agriculture, Strategy of agriculture development and technological progress, Agrarian crises, Sustainable agriculture-Indigenous practices, Bio - technological practices and growth potential, organic farming, Role of World Trade Organization, Issues in Liberalization of Domestic and international trade in Agriculture	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

LESSON PLAN ECONOMICS 2020-21

Lesson Plan: [2020-2021] [Annual Course]

[Name of Course: M.A – Previous Economics]

[Subject – Economics]

[Paper – Micro Economics]

[Paper – I]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R.K. Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-16	Basic Economic Problem - Choice and Scarcity, Economic Statistics and Dynamics, Elasticities (price, cross, income) of demand - theoretical aspects and empirical estimation, Elasticity of supply, Theories of Demand – Utility, Indifference curve (income and substitution effects, Slutsky theorem, compensated demand curve) and their application, Revealed Preference theory, Revision of Demand theory by Hicks, Characteristics of goods approach, consumer's choice involving risk	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Gregory Mankiw: Principles of Microeconomic David M. Kreps, (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton. A. Koutsoyiannis, (1979) Modern Microeconomics (2nd edition), Macmillan Press, London
2.	Lecture 17-32	Production Function - short period and long period, law of variable proportions and returns to scale, Isoquants - Least cost combination of inputs, Returns of Factors, Economies of scale, Multi - product firm, Elasticity of Substitution, Euler's theorem, Technical progress and production function, Cobb - Douglas, Traditional and modern theories of costs - Empirical evidence, derivation of cost functions from production functions	
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Test		A. Sen, (1999), Microeconomics, Theory and Applications, Oxford University Press, New Delhi H. Varian, (2000), Microeconomic analysis, WW Norton, New York H.L Ahuja, Advanced Economic Theory: Microeconomic Analysis theory M.L Jhingan, Microeconomics W.J Baumol, (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi J.M. Henderson, and R.E. Quandt (1980) Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi Healthfields and Wibe (1987), An Introduction to Cost and Production Functions, Macmillan, London J. Hirshleifer and A. Glazer (1997), Price Theory and Applications. Prentice Hall of India, New Delhi G.C. Archibald, (Ed.) (1971). Theory of the Firm, Penguin Harmondsworth J. Bain, (1958), Barriers to New Competition, Harvard University Press, Harvard M Bronfenbrenner, (1979), Income Distribution Theory, Macmillan, London R.W. Broadway and N. Bruce (1984). Welfare Economics, Basil Blackwell, London J. De V. Graff, (1957), Theoretical Welfare Economics, Cambridge University Press, Cambridge J.M. Henderson and R.E. Quandt (1988) Microeconomic Theory: A
6.	Lecture 33-55	Determination of equilibrium output and price, marginal approach, Perfect competition - short run and long run equilibrium of the firm and industry, Supply curve, Monopoly - short run and long run equilibrium, price discrimination, Price determination under bilateral monopoly, welfare aspects and dead weight loss, monopoly control and regulation, Monopolistic competition - general and Chamberlin approaches to equilibrium, equilibrium of the firm and the group, Product differentiation and Selling costs excess capacity under monopolistic and imperfect competition, Critique of monopolistic competition, Oligopoly - Non-collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Price rigidity and Kinked demand curve, Collusive (Cartels and mergers, price leadership and basing point price system) models	
7.	Lecture 56-66	Critical evaluation of marginal analysis, Baumol's sales revenue maximization model, Williamson's model of managerial discretion, Marris model of managerial enterprise, Full cost pricing rule, Bain's limit pricing theory and its recent developments including Sylos - Labini's model, Behavioural model of the firm, Game theoretic models	
8.	Micro teaching by students		
9.	Lecture 67-80	Neo-classical approach - Marginal productivity theory, Product exhaustion theorem, Elasticity of technical substitution, technical progress and factor shares, Theory of distribution in imperfect product and factor markets, Determination of rent, wages, interest and profit, Macro theories of distribution- Ricardian, Marxian, Kalecki and Kaldor's	

10.	Lecture 81-96	Pigouvian welfare economics, Pareto optimal conditions - Value judgement, Social welfare function, Compensation principle, Inability to obtain optimum welfare - Imperfections, market failure, decreasing costs, uncertainty and non-existent and incomplete markets	Mathematical Approach, McGraw Hill New Delhi G.C. Da Costa (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi
11.	Revision/Tutorial		
12.	Class Quiz		
13.	Dispersal of Class		

Lesson Plan: [2020-21]
[Name of course M.A (P) Economics
[Course code- Annual]
[Subject- Economics]
[Paper- International Economics]
[Paper – 2]
[Lecture duration 45 mins]
[Syllabus Yearly]
[Mode Offline]
[Max marks- 100]
Names of faculty involved in delivering the course- Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Theory of international trade- Theories of absolute advantage and opportunity costs, modern theory of international trade; theorem of factor price equalization; empirical testing of theory of absolute cost and comparative cost- Hecksher-Ohlin theory of trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook Topology without tears by Sidney A. Morris. Quizzes conducted. Books suggested- Bhagwati, (ED.)(1981), International Trade, selected Readings, Cambridge University Press, Massachusetts Carbough, R.J.(1999),International Economics, International Thompson publishing, New york. Dunn, R.M.(1994),The International Economy ,Cambridge University Press London. Kindle Berger, P. (1973),International Economics, R.D. Irwin, Homewood. Krugman, P. R. and M. Obstfeld (1994). International Economics Theory and Policy,
2	Lecture 6- 10	Kravis and Linder theory of trade, role of dyanamic factor, i.e. changes in tastes, technology and factor endwments in explaining the emergence of trade.	
3	Lecture 11- 15	The rybozynski theorm- concept and policy implications of immiserizing growth Measurement of gains from trade and their distribution, concept of term of trade-,	
4	Revision/ Tutorial		
5	Lecture 16- 20	Their uses and limitations, hypothesis of secular deterioration of terms of trade. Its emperical relevance and policy implication for less developed countries; trade as an engine of growth.	
6	Class quiz		
7	Lecture 21- 25	Welfare implications, empirical evidence and policy issues. The theory of interventions (tariffs, quotes and non -tariffs barriers); economic effects of-	
8	Lecture 26- 30	Traiffs and quotas on national income, output, employment,	

		term of trade, income distribution, balance of payments on trading partners both in partial and general quilibrium analysis.	Glenview, foresman. Sodeerston, Bo(1991),International Economics, The Macmillan Press Ltd, London.
9	Lecture 31- 35	Non tariff barriers and their implication, nominal, effective and optimum rates of tariffs- their measurement, impact and welfare implication. Balance of payments and international financial markets- meaning and components of balance of payments;	
10	Revision/ Tutorial		
11	Class quiz		
12	Lecture 36- 40	Equilibrium and Disequlibrium in balance of payments; the process adjustment under system, fixed exchange rates and flexible exchange rates; devaiuation, essential conditions for its success and limitation. policies for achiving internal and external equilibrium simultaneously under alternative exchange rate regimes.	
13	Lecture 41- 45	A Critical review of the monetary approach to the theory of balance of payments adjustment; foreign trade multipliyer. Relative merits and demerits of fixed and flexible exchange rate. markets for future options and other financial derivatives global financial crisis.	
14	Mid term exam		
15	Lecture 46- 50	The Theory of Regional Blocks- Emergence of trading blocks at the global level; static and dynamic effects of a customs union and free trade areas , Rationale and economic progress of SAARC/SAPTA and ASEAN region. problems and prospects of forming a customs union in the Asian Region, Regionalism(EU,NAFTA) ; Maultilateral issues and WTO.	
16	Lecture 51- 55	Bretton-wood system; need, adequacy and determinats of international	

		reserves ; conditionality clause of IMF. Reform of the international monetary System, India and developing countries;	
17	Lecture 56- 60	Theory of short term capital movements; function of GATT/WTO(TRIPS,TRIMS)UNCTED IMF WORLD BANK AND ASIAN DEVELOPMENT BANK -their achievements and failures; WTO and Bank from the point of view of India.	
18	Micro teaching by students		
19	Lecture 61- 65	Trade problems and trade policies in India during the last five decades. recent cnages in the direction and composition of trade and their implications;	
20	Lecture 66- 70	Rationale and impact of trade reforms since 1991 on balance of payments, employment and growth.,	
21	Lecture 71- 75	Problems of India,s international debt; working and regulations of MNCS in India; instruments of export promotion and recent import and export policies and agenda for future.	
22	Revision/ Tutorial		
23	Class quiz		
24	Dispersal of class		

Lesson plan-(2020-2021)
Course name – M.A Previous
Paper 3 (Compulsory)
Subject - Economics
Paper –Environmental Economics
Lecture duration- 45-mins
Mode-offline
Maximum Marks- 100
Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Nature and scope of Environmental Economics-subject matter, Ecosystem-Ecology and Economic growth.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures
2.	Lecture 6-10	Ecology and Environmental Interaction, Leontief's Abatement model	
3	Lecture 11-17	Economics of recycling and waste management, Biodiversity crises, sustainable tourism, natural resources policy.	
4	Lecture 18-25	Pareto optimality and competitive Equilibrium; Pigouvian analysis of externalities	
5	Lecture 26-30	Compensation criterian, social choice and justice.	
6.	Lecture 36-42	Environmental quality as a public goods, market failure Property rights and Coase theorem.	
7	Lecture 43-47	Valuation methods, hedonic property values and household production models.	
8.	Lecture 48-52	Cost of Economic growth and Environmental degradation, environmental quality and economic development.	
9.	Lecture 53-57	Kuznets hypothesis, economics of natural resources management and sustainable development.	
10.	Lecture 58-63	Green marketing, clean technology of production, environmental auditing, environmental management system, sustainable agriculture management.	
11.	Lecture 64-69	Land degradation and	

		environmental costs, food security in India, Trade and Environment in WTO Regime.	available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
12.	Lecture 70-75	Theories of population-Malthusian theory, theory of Demographic transition, population and environmental Linkages.	
13.	Lecture 76-81	Policy Directives Gender Equality, welfare and Environment, Right to Information, Environment and Health.	
14.	Lecture 82-88	Environmental pollution-water, air, noise, marine, soil, thermal, nuclear hazards.	
15.	Lecture 89-102	Policy instruments to control environmental pollution. Value based environmental education and public awareness. Environmental laws in India. An appraisal disaster management, National environmental policy.	

Lesson Plan: [2020-21] [Annual Course]
[Name of Course: M.A(Previous) – Economics]
[Subject – Economics]
[Paper – Economics of Growth and Development]
[Paper – 4]
[Lecture Duration – 45 mins]
[Annual Syllabus]
[Mode: Offline]
Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	1-9	Economic growth and development-Factors affecting economic growth; capital, labour and technology, Growth models-Harrod and Domar, instability of equilibrium.	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Adelman, I. (1961) Theories of Economic growth and development, Stanford University Press, Stanford. Behrman, S and T.N. Srinivasan (1995), Handbook of development economics, Vol 3, Elsevier, Amsterdam. Brown, M. (1966) On the theory and measurement of technical change, Cambridge University Press, Cambridge, Mass.
2.	10 -19	Neo classical growth models-Solow and Meads, Mrs. Joan Robinson's growth model; Cambridge criticism of Neo-classical analysis of growth, The capital controversy. Measuring development and development gap- per capita income, inequality of income.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	20-35	Human Development Index and their indices; Human resource development, population problem and growth patterns of population- Theory of demographic transition; Population, poverty and environment; Economic Development and institution; Markets and market failure, State and state failure; issues of good governance.	
6.	36-45	Classical theory of development- Adam smith, Ricardo, Malthus and James Mill; Karl Marx and development of capitalistic economy- Theory of social change, surplus value and profit; Immutable laws of capitalist development;	

		Crisis in capitalism-Schumpeter and capitalistic development; Innovation-role of credit, profit and degeneration of capitalism; Structural analysis of development; Imperfect market paradigm.	Thirwal, A.P. (1999) (6th Edition), Growth and Development Macmilian, U.K. Todaro, M.P. (1996) (6th Edition) Economic development, Longman, London
7.	Test		
8.	46-62	Partial theories of growth and development-Vicious circle of poverty, circular causation; Unlimited supply of labour; Big push, Balanced growth, Unbalanced growth, Critical minimum effort thesis, Low-income equilibrium trap; Dualism-technical, behavioral and social, Fei Ranis model; Dixit Marglin model, Kelly et al Model; Dependency theory of development; Structural view of development, Trade and economic development, Sectoral Terms of Trade.	Kindleberger, C.P. (1977), Economic development (3rd Edition), McGraw Hill, New York. Kahmonon, S. and M. Olson (2000) A New Institutional Approach to Economic Development Vistaar Gimmell, N. (1987), surveys in Development Economics, Blackwell; Oxford.
9.	Micro Teaching by students		Ghatak, S. (1986) An introduction to development economics, Allen and Unwin, London
10.	63-81	Role of monetary and fiscal policies in developing countries-Prior savings, inflation and growth-Empirical evidence; External resources-FDI, aid vs. trade, technology inflow; MNC activity in developing countries; Borrowings-domestic and external; Burden of borrowing-IMF and World Bank policies in developing countries.	
11.	82-96	Need for investment criteria in development countries-present vs., future, Alternative investment criteria; Cost-benefit analysis, Shadow prices, Project evaluation and UNIDO guidelines, Choice of Techniques.	
12.	Revision/Tutorial		
13.	Class Quiz		

14.	Dispersal of Class		

Lesson Plan: [2020-2021] [Annual Course]

[Name of Course: M.A – Previous Economics]

[Subject – Economics]

[Paper – Agricultural Economics]

[Paper – 5 (Optional Paper -II(a))]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	Nature and scope of agricultural and rural economics, Traditional agriculture and its modernization, Role of agriculture in economic development, Interdependence between agriculture and industry- some empirical evidence, Models of interaction between agriculture and the rest of the economy, Agricultural development, poverty and environment	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – A. Bhaduri, (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi S.A.R. Bilgrami, (1996), Agricultural Economics, Himalaya Publishing House, Delhi M.L. Dantwala etc. al. (1991), Indian Agricultural Development Since Independence, oxford & IBH, New Delhi
2.	Lecture 12-22	Livestock economics - Livestock resources and their productivity, Problems of marketing, White revolution, Fishery and poultry development Forestry, Horticulture and Floriculture, Issues in rural industrialization and growth of non-farming activities	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 23-30	Use of land, water and energy, Rural transport, communication, banking, extension services, role, modes and problems of rural electrification, Rural social infrastructure - education and health and information dissemination	
6.	Lecture 31-44	Agricultural production - Resource use and efficiency, Production function analyses in agriculture, Factor combination and resource	

		substitution, Size of farm and laws of returns - Farm budgeting and cost concepts, Supply response of individual crops and aggregate supply, Resource use efficiency in traditional agriculture, Technical change, labour absorption and gender issues in agriculturalservices	Government of India (1976), report of the National Commission on Agriculture, New Delhi Government of India, Economic Survey (Annual), New Delhi A. Gulati and T. Kelly (1999). Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi P.C. Joshi, (1975), Land Reforms in India; Trends and Prospects, Allies Publishers, Bombay A S, Kahlon and D.S. Tyagi (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi C.H. Hanumantha Rao, (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi A. Rudra, (1982), Indian Agricultural Economics; Myths and Reality, Allied Publishers, New Delhi G.R. Saini, (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi
7.	Test		
8.	Lecture 45-53	Principles of land utilization, Land distribution - Structure and trends, Land values and rent, Land tenures and farming systems - Peasant, capitalist, collective and state farming, Tenancy and crop sharing-Forms, Incidence and effects, land reform measures and performance, Women and land reforms, Problems of marginal and small farmers, Impact of MNREGA on Supply, productivity and wages of rural labour	
9.	Lecture 54-64	Role of capital and rural credit, Organized and unorganized capital market, Rural savings and capital formation, Characteristics and sources of rural credit - Institutional and non – institutional, Reorganization of rural credit-cooperatives, commercial banks, Regional Rural Banks, Role of NABARD, Microfinance	
10.	Micro teaching by students		
11.	Lecture 65-80	Marketing and state policy, Agricultural markets and marketing efficiency - Marketing functions and costs, Market structure and imperfections, Regulated markets, Marketed and marketable surplus, Behaviours of agricultural prices - Cobweb model, Price and Income stability, State policy with respect to agricultural marketing, Warehousing, prices, Taxation and crop Insurance Terms of trade between agricultural and non-agricultural prices, Need for state intervention, Objectives of agricultural price policy - Instruments and evaluation, Food	

		security in India and public distribution system	
12.	Lecture 81-96	Recent trends in agricultural growth in India, Inter-regional variations in growth of output and productivity, Cropping pattern shifts, Supply of inputs - Pricing of inputs and role of subsidies, Distribution of gains from technological change, Role of Public investment and capital formation in Indian agriculture, Strategy of agriculture development and technological progress, Agrarian crises, Sustainable agriculture - Indigenous practices, Bio - technological practices and growth potential, organic farming, Role of World Trade Organization, Issues in Liberalization of Domestic and international trade in Agriculture	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2021-2022] [Annual Course]

[Name of Course: M.A – Previous Economics]

[Subject – Economics]

[Paper – Micro Economics]

[Paper – I]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. R.K. Dixit

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-16	Basic Economic Problem - Choice and Scarcity, Economic Statistics and Dynamics, Elasticities (price, cross, income) of demand - theoretical aspects and empirical estimation, Elasticity of supply, Theories of Demand – Utility, Indifference curve (income and substitution effects, Slutsky theorem, compensated demand curve) and their application, Revealed Preference theory, Revision of Demand theory by Hicks, Characteristics of goods approach, consumer's choice involving risk	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – Gregory Mankiw: Principles of Microeconomic David M. Kreps, (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton. A. Koutsoyiannis, (1979) Modern Microeconomics (2nd edition), Macmillan Press, London
2.	Lecture 17-32	Production Function - short period and long period, law of variable proportions and returns to scale, Isoquants - Least cost combination of inputs, Returns of Factors, Economies of scale, Multi - product firm, Elasticity of Substitution, Euler's theorem, Technical progress and production function, Cobb - Douglas, Traditional and modern theories of costs - Empirical evidence, derivation of cost functions from production functions	
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Test		A. Sen, (1999), Microeconomics, Theory and Applications, Oxford University Press, New Delhi H. Varian, (2000), Microeconomic analysis, WW Norton, New York H.L Ahuja, Advanced Economic Theory: Microeconomic Analysis theory M.L Jhingan, Microeconomics W.J Baumol, (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi J.M. Henderson, and R.E. Quandt (1980) Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi Healthfields and Wibe (1987), An Introduction to Cost and Production Functions, Macmillan, London J. Hirshleifer and A. Glazer (1997), Price Theory and Applications. Prentice Hall of India, New Delhi G.C. Archibald, (Ed.) (1971). Theory of the Firm, Penguin Harmondsworth J. Bain, (1958), Barriers to New Competition, Harvard University Press, Harvard M Bronfenbrenner, (1979), Income Distribution Theory, Macmillan, London R.W. Broadway and N. Bruce (1984). Welfare Economics, Basil Blackwell, London J. De V. Graff, (1957), Theoretical Welfare Economics, Cambridge University Press, Cambridge J.M. Henderson and R.E. Quandt (1988) Microeconomic Theory: A
6.	Lecture 33-55	Determination of equilibrium output and price, marginal approach, Perfect competition - short run and long run equilibrium of the firm and industry, Supply curve, Monopoly - short run and long run equilibrium, price discrimination, Price determination under bilateral monopoly, welfare aspects and dead weight loss, monopoly control and regulation, Monopolistic competition - general and Chamberlin approaches to equilibrium, equilibrium of the firm and the group, Product differentiation and Selling costs excess capacity under monopolistic and imperfect competition, Critique of monopolistic competition, Oligopoly - Non-collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Price rigidity and Kinked demand curve, Collusive (Cartels and mergers, price leadership and basing point price system) models	
7.	Lecture 56-66	Critical evaluation of marginal analysis, Baumol's sales revenue maximization model, Williamson's model of managerial discretion, Marris model of managerial enterprise, Full cost pricing rule, Bain's limit pricing theory and its recent developments including Sylos - Labini's model, Behavioural model of the firm, Game theoretic models	
8.	Micro teaching by students		
9.	Lecture 67-80	Neo-classical approach - Marginal productivity theory, Product exhaustion theorem, Elasticity of technical substitution, technical progress and factor shares, Theory of distribution in imperfect product and factor markets, Determination of rent, wages, interest and profit, Macro theories of distribution- Ricardian, Marxian, Kalecki and Kaldor's	

10.	Lecture 81-96	Pigouvian welfare economics, Pareto optimal conditions - Value judgement, Social welfare function, Compensation principle, Inability to obtain optimum welfare - Imperfections, market failure, decreasing costs, uncertainty and non-existent and incomplete markets	Mathematical Approach, McGraw Hill New Delhi G.C. Da Costa (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi
11.	Revision/Tutorial		
12.	Class Quiz		
13.	Dispersal of Class		

Lesson Plan: [2021-22]

[Name of course M.A (P) Economics

[Course code-

[Subject- Economics]

[Paper- International Economics]

[Paper – 2]

[Lecture duration 60 mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course- Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Theory of international trade- Theories of absolute advantage and opportunity costs, modern theory of international trade; theorem of factor price equalization; empirical testing of theory of absolute cost and comparative cost- Hecksher-ohlin theory of trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance.
2	Lecture 6- 10	Kravis and Linder theory of trade, role of dyanamic factor, i.e. changes in tastes, technologyand factor endwments in explaining the emergence of trade.	Interactive teaching preferred including group discussions before the start of some tedious theorem or topic.
3	Lecture 11- 15	The rybozynski theorm-concept and policy implications of immiserizing growth Measurement of gains from trade and their distribution, concept of term of trade-,	Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook Topology without tears by Sidney A. Morris.
4	Revision/ Tutorial		
5	Lecture 16- 20	Their uses and limitations, hypothesis of secular deterioration of terms of trade. Its empircil relevance and policy implication for less developed countries; trade as	Quizzes conducted.

		an engine of growth.	Books suggested- Bhagwati,(ED.)(1981),International Trade, selected Readings, Cambridge University Press, Massachusetts Carbough, R.J.(1999),International Economics, International Thompson publishing, New york. Dunn, R.M.(1994),The International Economy ,Cambridge University Press London. Kindleberger ,P.(1973),International Economics, R.D. Irwin, Homewood. Krugman, P. R. and M. Obstfeld (1994). International EconomicsTheory and Policy,Glenview, foresman. Sodeerston, Bo(1991),International Economics, The Macmillan Press Ltd, London.
6	Class quiz		
7	Lecture 21- 25	Welfare implications, empirical evidence and policy issues. The theory of interventions(tariffs, quotes and non -tariffs barriers);economic effects of-	
8	Lecture 26- 30	Traiffs and quotas on national income, output, employment, term of trade, income distribution, balance of payments on trading partners both in partial and general quilibrium analysis.	
9	Lecture 31- 35	Non tariff barriers and their implication, nominal, effective and optimum rates of tariffs- their measurement, impact and welfare implication. Balance of payments and international financial markets- meaning and components of balance of payments;	
10	Revision/ Tutorial		
11	Class quiz		
12	Lecture 36- 40	Equilibrium and Disequlibrium in balance of payments; the process adjustment under system, fixed exchange rates and flexible exchange rates; devaiuation, essential conditions for its success and limitation. policies for achiving internal and external equilibrium simultaneously under alternative exchange rate regimes.	
13	Lecture 41- 45	A Critical review of the monetary approach to the theory of balance of payments adjustment; foreign trade multipliyer. Relative merits and	

		demerits of fixed and flexible exchange rate. markets for future options and other financial derivatives global financial crisis.	
14	Mid term exam		
15	Lecture 46- 50	The Theory of Regional Blocks- Emergence of trading blocks at the global level; static and dynamic effects of a customs union and free trade areas , Rationale and economic progress of SAARC/SAPTA and ASEAN region. problems and prospects of forming a customs union in the Asian Region, Regionalism(EU,NAFTA); Maultilateral issues and WTO.	
16	Lecture 51- 55	Bretton-wood system; need, adequacy and determinats of international reserves ; conditionality clause of IMF. Reform of the international monetary System, India and developing countries;	
17	Lecture 56- 60	Theory of short term capital movements; function of GATT/WTO(TRIPS,TRIMS)UNCTED IMF WORLD BANK AND ASIAN DEVELOPMENT BANK -their achievements and failures; WTO and Bank from the point of view of India.	
18	Micro teaching by students		
19	Lecture 61- 65	Trade problems and trade policies in India during the last five decades. recent cnages in the direction and composition of trade and their implications;	
20	Lecture 66- 70	Rationale and impact of trade reforms since 1991 on balance of payments, employment and growth.,	

21	Lecture 71- 75	Problems of India,s international debt; working and regulations of MNCS in india; instruments of export promotion and recent import and export policies and agenda for future.	
22	Revision/ Tutorial		
23	Class quiz		
24	Dispersal of class		

Lesson plan-(2021-2022)

Course name – M.A Previous

Paper 3 (Compulsory)

Subject - Economics

Paper –Environmental Economics

Lecture duration- 45-mins

Mode-offline

Maximum Marks- 100

Name of faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Nature and scope of Environmental Economics- subject matter, Ecosystem- Ecology and Economic growth.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or
2.	Lecture 6-10	Ecology and Environmental Interaction, Leontief's Abatement model	
3	Lecture 11-17	Economics of recycling and waste management, Biodiversity crises, sustainable tourism, natural resources policy.	
4	Lecture 18-25	Pareto optimality and competitive Equilibrium; Pigouvian analysis of externalities	
5	Lecture 26-30	Compensation criterian, social choice and justice.	
6.	Lecture 36-42	Environmental quality as a public goods, market failure Property rights and Coase theorem.	
7	Lecture 43-47	Valuation methods, hedonic property values and household production models.	
8.	Lecture 48-52	Cost of Economic growth and Environmental degradation, environmental quality and economic development.	

9.	Lecture 53-57	Kuznets hypothesis, economics of natural resources management and sustainable development.	two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
10.	Lecture 58-63	Green marketing, clean technology of production, environmental auditing, environmental management system, sustainable agriculture management.	
11.	Lecture 64-69	Land degradation and environmental costs, food security in India, Trade and Environment in WTO Regime.	
12.	Lecture 70-75	Theories of population-Malthusian theory, theory of Demographic transition, population and environmental Linkages.	
13.	Lecture 76-81	Policy Directives Gender Equality, welfare and Environment, Right to Information, Environment and Health.	
14.	Lecture 82-88	Environmental pollution-water, air, noise, marine, soil, thermal, nuclear hazards.	
15.	Lecture 89-102	Policy instruments to control environmental pollution. Value based environmental education and public awareness. Environmental laws in India. An appraisal disaster management, National environmental policy.	

Lesson Plan: [2021-22] [Annual Course]

[Name of Course: M.A(Previous) – Economics]

[Subject – Economics]

[Paper – Economics of Growth and Development]

[Paper – 4]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S.No.	LECTURE NO.	TOPICS COVERED	TEACHING PEDAGOGY
1.	1-9	Economic growth and development-Factors affecting economic growth; capital, labour and technology, Growth models-Harrod and Domar, instability of equilibrium.	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before.
2.	10 -19	Neo classical growth models-Solow and Meads, Mrs. Joan Robinson's growth model; Cambridge criticism of Neo-classical analysis of growth, The capital controversy. Measuring development and development gap- per capita income, inequality of income.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	20-35	Human Development Index and their indices; Human resource development, population problem and growth patterns of population-	

		Theory of demographic transition; Population, poverty and environment; Economic Development and institution; Markets and market failure, State and state failure; issues of good governance.	Quizzes conducted. Book suggested-
6.	36-45	Classical theory of development- Adam smith, Ricardo, Malthus and James Mill; Karl Marx and development of capitalistic economy- Theory of social change, surplus value and profit; Immutable laws of capitalist development; Crisis in capitalism-Schumpeter and capitalistic development; Innovation- role of credit, profit and degeneration of capitalism; Structural analysis of development; Imperfect market paradigm.	Adelman, I. (1961) Theories of Economic growth and development, Stanford University Press, Stanford. Behrman, S and T.N. Srinivasan (1995), Handbook of development economics, Vol 3, Elsevier, Amsterdam. Brown, M. (1966) On the theory and measurement of technical change, Cambridge University Press, Cambridge, Mass.
7.	Mid Term Exam		
8.	46-62	Partial theories of growth and development-Vicious circle of poverty, circular causation; Unlimited supply of labour; Big push, Balanced growth, Unbalanced growth, Critical minimum effort thesis, Low-income equilibrium trap; Dualism-technical, behavioral and social, Fei Ranis model; Dixit Marglin model, Kelly et al Model; Dependency theory of development; Structural	Thirwal, A.P. (1999) (6th Edition), Growth and Development Macmilian, U.K. Todaro, M.P. (1996) (6th Edition) Economic development, Longman, London

		view of development, Trade and economic development, Sectoral Terms of Trade.	Kindleberger, C.P. (1977), Economic development (3rd Edition), McGraw Hill, New York.
9.	Micro Teaching by students		
10.	63-81	Role of monetary and fiscal policies in developing countries-Prior savings, inflation and growth-Empirical evidence; External resources-FDI, aid vs. trade, technology inflow; MNC activity in developing countries; Borrowings-domestic and external; Burden of borrowing-IMF and World Bank policies in developing countries.	Kahmonon, S. and M. Olson (2000) A New Institutional Approach to Economic Development Vistaar Gimmell, N. (1987), surveys in Development Economics, Blackwell; Oxford.
11.	82-96	Need for investment criteria in development countries-present vs., future, Alternative investment criteria; Cost-benefit analysis, Shadow prices, Project evaluation and UNIDO guidelines, Choice of Techniques.	Ghatak, S. (1986) An introduction to development economics, Allen and Unwin, London
12.	Revision/Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2021-2022] [Annual Course]

[Name of Course: M.A – Previous Economics]

[Subject – Economics]

[Paper – Agricultural Economics]

[Paper – 5 (Optional Paper -II(a))]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-12	Nature and scope of agricultural and rural economics, Traditional agriculture and its modernization, Role of agriculture in economic development, Interdependence between agriculture and industry-some empirical evidence, Models of interaction between agriculture and the rest of the economy, Agricultural development, poverty and environment	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – A. Bhaduri, (1984), The Economic Structure of Backward Agriculture, Macmillan, Delhi S.A.R. Bilgrami, (1996), Agricultural Economics, Himalaya Publishing House, Delhi M.L. Dantwala etc. al. (1991), Indian Agricultural Development Since Independence, oxford & IBH, New Delhi
2.	Lecture 12-22	Livestock economics - Livestock resources and their productivity, Problems of marketing, White revolution, Fishery and poultry development Forestry, Horticulture and Floriculture, Issues in rural industrialization and growth of non-farming activities	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 23-30	Use of land, water and energy, Rural transport, communication, banking, extension services, role, modes and problems of rural electrification, Rural social infrastructure - education and health and information dissemination	
6.	Lecture 31-44	Agricultural production - Resource use and efficiency, Production function analyses in agriculture, Factor combination and resource	

		substitution, Size of farm and laws of returns - Farm budgeting and cost concepts, Supply response of individual crops and aggregate supply, Resource use efficiency in traditional agriculture, Technical change, labour absorption and gender issues in agricultural services	Government of India (1976), report of the National Commission on Agriculture, New Delhi Government of India, Economic Survey (Annual), New Delhi A. Gulati and T. Kelly (1999). Trade Liberalisation and Indian Agriculture, Oxford University Press, New Delhi P.C. Joshi, (1975), Land Reforms in India; Trends and Prospects, Allies Publishers, Bombay A S, Kahlon and D.S. Tyagi (1983), Agriculture Price Policy in India, Allied Publishers, New Delhi C.H. Hanumantha Rao, (1975), Agricultural Growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi A. Rudra, (1982), Indian Agricultural Economics; Myths and Reality, Allied Publishers, New Delhi G.R. Saini, (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied Publishers, New Delhi
7.	Test		
8.	Lecture 45-53	Principles of land utilization, Land distribution - Structure and trends, Land values and rent, Land tenures and farming systems - Peasant, capitalist, collective and state farming, Tenancy and crop sharing-Forms, Incidence and effects, land reform measures and performance, Women and land reforms, Problems of marginal and small farmers, Impact of MNREGA on Supply, productivity and wages of rural labour	
9.	Lecture 54-64	Role of capital and rural credit, Organized and unorganized capital market, Rural savings and capital formation, Characteristics and sources of rural credit - Institutional and non – institutional, Reorganization of rural credit-cooperatives, commercial banks, Regional Rural Banks, Role of NABARD, Microfinance	
10.	Micro teaching by students		
11.	Lecture 65-80	Marketing and state policy, Agricultural markets and marketing efficiency - Marketing functions and costs, Market structure and imperfections, Regulated markets, Marketed and marketable surplus, Behaviours of agricultural prices - Cobweb model, Price and Income stability, State policy with respect to agricultural marketing, Warehousing, prices, Taxation and crop Insurance Terms of trade between agricultural and non-agricultural prices, Need for state intervention, Objectives of agricultural price policy - Instruments and evaluation, Food	

		security in India and publicdistribution system	
12.	Lecture 81-96	Recent trends in agricultural growth in India, Inter-regional variations ingrowth of output and productivity, Cropping pattern shifts, Supply of inputs - Pricing of inputs and role of subsidies, Distribution of gains from technological change, Role of Public investment and capital formation in Indian agriculture, Strategy of agriculture development and technological progress, Agrarian crises, Sustainable agriculture - Indigenous practices, Bio - technological practices and growth potential, organic farming, Role of World Trade Organization, Issues in Liberalization of Domestic and international trade in Agriculture	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

M.A PRE. LESSON PLAN 2022-23

Lesson Plan: [2022-23] [Semester 1]

[Name of Course: M.A – I Economics]

[Course Code – A080701T]

[Subject – Economics]

[Paper – Micro Economics Analysis - 1]

[Paper -I]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks- 05/100]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	NUMBER OF HOURS	TOPIC COVERED	TEACHING PEDAGOGY
1.	1-10	Demand Analysis theories of demand, indifference curves (price, income, and substitution effect)	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conductedBooks suggested – Advanced Economic Theory -H.L Ahuja Micro Economic Theory- C.B Ferguson
2.	11-20	Slutsky theorem, compensated demand curve and their application, revision of demand theory by Hicks consumers choice	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	21-30	Theory of Production and Costs Productionfunction-short period and long period, the law of variable proportion and returns to scale isoquant curve, Technical progress and Production function	
6.	31-40	Cobb Douglas theorem, modern theories ofcosts empirical evidence, derivation of costs functions from production functions	
7.	Mid term exam		
8.	41-50	Price and Out-put determination under different market structures,	

		Price determination of a firm under monopolistic competition	
9.	51-60	Chamberlin's equilibrium, theory of excesscapacity, Chamberlin's concept of excess capacity, selling costs, oligopoly price leadership collusive oligopoly, Cournot's	
		Model, Bertrand's Model, Edgeworth's Model price rigidity, Kinked Demand Curves	Modern Micro Economics - Koutsoyiannis
10.	Micro teaching by students		
11.	61-70	Neoclassical approach marginal productivity theory, - product exhaustion theorem	
12.	71-80	Theory of distribution in imperfect product and factor markets, Determination of Rent, Wages, Interest and Profit.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2022-23] [Semester 1]

[Name of Course: M.A – Economics]

[Course Code – A080702T]

[Subject – Economics]

[Paper – Macro Economics Analysis – 1]

[Paper – 2]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks – 05/100]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S.No.	NUMBER OF HOURS	TOTAL COVERED	TEACHING PEDAGOGY
1.	1-8	National Income & Accounting Methods – Circular flow of income in two, three and four sector economies, Different forms of national income accounting- social accounting,	Lectures deliverd in the language comfortable to the students. (Hindi and English mix)
2.	9 -18	Input-output Accounting, flow of funds accounting and balance of payment accounting	Chalk and board method is used most of the time.
3.	Revision/ Tutorial		Interactive teaching is preferred including group discussions before the start of some topics.
4.	Class Quiz		
5.	19-28	Consumption Function – Consumption Analysis, Short-Run & Long-Run Consumption Function, Empirical Evidence on	Students are invited from time to time to come on board to enhance their understanding and

		consumption function	presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan
6.	29-36	Income- Consumption relationship – Absolute income, relative income, life cycle and permanent income hypothesis	
7.	Mid Term Exam		
8.	37-47	Investment Function- Marginal efficiency of investment and level of investment- long run & short run, The Accelerator and Investment behaviour	
9.	48-58	Multiplier and super multiplier, impact of inflation, Influence of policy measures on investment- empirical evidence	
10.	Micro Teaching by students		
11.	59-65	Neo-Classical & Keynesian Synthesis- The IS-LM model, extension of IS-LM model with government sector, relative effectiveness of monetary and fiscal policies	
12.	66-75	Extension of IS-LM models with labour market and flexible prices.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson plan (2022-2023) semester-1
Name 0f course- M.A. 1
SUBJECT – ECONOMICS
PAPER - PUBLIC – FINANCE
PAPER-3
(LECTURE DURATION – 60 MINS)
SYLLLABUS- SEMESTER (CREDIT -5)
MODE-OFFLINE
(CREDITS-5/MAX MARKS-25+75)
Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Role of govt. in organized society, public and private sector, co-operation or competition.	LECTURE DELIVERE IN THE LANGUAGE COMFORTABLE TO THE STUDENTS .(HINDI AND ENGLISH MIX) CHALK AND BOARD METHOD USED MOST OF THE TIME. PRESENTATION DELIVERED THROUGH PPT INTERACTIVE TEACHING PREFFERED INCLUDING GROUP DISCUSSION BEFORE THE START OF SOME TEDIOUS THEOREM OR TOPIC. STUDENS INVITED FROM TIME TO TIME TO COME ON BOARD TO ENHANCE THEIR UNDERSTANDING AND PRESENTATION SKILLS. FO RTHIS PURPOSE, TOPICS OF DISCUSSION ALLOTED A DAY OR TWO BEFORE. STUDENTS ALSO ENCOURAGE TO SEE THE NPTEL LECTORES AVAILABLE ONLINE FOR UNDERSTANDIND THE ADVANCED TOPICS AND ALSO TO GO THROUGH THE OPEN ACCESS. e-BOOK TOPOLOGY WITHOUT TEARS BY SIDNEY A. MORRIS. QUIZZES CONDUCTED
2.	Lecture 6-10	Private goods, public goods and merits goods, Market failure- imperfections, decreasing costs externalities.	
3.	Lecture 11-15	Public expenditure- Wagner's law of increasing state activities ,Wiseman Peacock Hypothesis.	
4.	Lecture 16-20	Pure theory of public expenditure, structure and growth of public expenditure.	
5	Lecture 21-25	Social cost- benefit analysis- project evaluation, programme budgeting, and zero base budgeting.	
6	Lecture 26-30	Taxation and public debts- theory incidence- alternative concepts of incidence, benefit and Ability to pay approaches.	
7	Lecture 31-35	Theory of optimal taxation, the problem of double taxation. Public borrowing and price level principles of debt management and re-payments	
8	Lecture 36-40	Objectives and Fiscal policy- full employment, Anti- inflation, economic growth	
9	Lecture 41-45	Redistribution of income and wealth, and fiscal policy for stabilization Alternative manager of resources mobilization and their impact of growth, distribution, and prices	

			CONTINEOUS EVALUATION BY ASSESSMENT, TESTS, PRESENTATION OF STUDENTS,TUTORIALS. REVISION AND DOUBT CLEARING SESSIONS. .

Lesson Plan: [2022 -23]
[Name of course M.A.(P) Economics
Semester-1
[Subject-Economics]
[Course Code-A080704T]
[Paper-Demography]
Paper-4
[Lecture duration 60 mins]
[Mode Offline]
[Credit/Max marks-5/ 25+75]
Name of faculty involved in delivering the course-Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	Lecture 1- 5	**Unit-1** **Introduction:** Meaning, scope, subject matter and importance of demography.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2.	Lecture 6- 10	Components of population growth and their inter dependence.	
3.	Lecture 11- 15	Population growth, poverty and economic development	
4.	Revision/ Tutorial		
5.	Lecture 16- 20	Theories of population: Malthusian theory of population.	
6.	Class quiz		
7.	Lecture 21- 25	Optimum theory of population, theory of demographic transition.	
8.	Lecture 26- 30	Population explosion, International aspects of population growth and distribution.	
9.	Lecture 31- 35	Method of population projection and age pyramid,Life table- meaning and use of life table.	
10.	Revision/ Tutorial		
11.	Class quiz		
12.	Lecture 36- 40	**Unit-2** **Fertility,Mortality,Nuptiality and Migration:** Importance of study of fertility and its mesurements; CBR,GFR,TFRASFR,SFR,GRR and NRR	**Book Suggested-** Agarwala, S. N. (1972) India's Population Problem. Bose A (1996) India's Basic Demogaphic Statistics. Rogue D J 1971 Principal of Demography
13.	Lecture 41- 45	Nuptiality analysis: concepts and determinants. Migration & Urbanisation concepts and types, factor affecting migration.	Chaubey P K (2000) Population Policy in India. Gulati S C (1968) Fertility in India.
14.	Mid term exam		
15.	Lecture 46- 50	Urbanization- growth and distribution of rural-urban population in developed and developing countries.	
16.	Revision/ Tutorial		
17.	Class quiz		
18.	Lecture 51- 55	**Unit3:** **Population and Development with Reference to**	

		India: Population,economy and environment linkages.Population health,nutrition,productivitynexus.	
19.	Lecture 56- 60	Major sources of population and demographic data.Population policy in India.	
20.	Micro teaching by students		
21.	Lecture 61- 65	Population and human development issue-cultures,education and fertility.	
22.	Lecture 66- 70	**Unit4:** **Sources and Methods of Demographic Data:** Census, sampling,vita registration methods, NFHS/SRS and DHS.Index of human development or quality of life.	
23.	Lecture 71- 75	Concept of manpower, relationship between population, education, manpower and economic planning.	
24.	Revision/ Tutorial		
25.	Class quiz		
26.	Dispersal of class		

Lesson Plan: [2022-23] [Semester 2]

[Name of Course: M.A – I Economics]

[Course Code – A080801T]

[Subject – Economics]

[Paper – Micro Economics Analysis - 2]

[Paper -I]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks- 05/100]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	NUMBER OF HOURS	TOPIC COVERED	TEACHING PEDAGOGY
1.	1-8	Behavioural and managerial theories of the firm Cert and March.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – Advanced Economic Theory -H. L Ahuja Micro Economic Theory- C.B Ferguson
2.	9-20	Williamson's managerial discretion model Growth maximisation of Morris, Baumol's sales maximisation model, Limit price theory-Bains	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	21-32	The Theory of Games Prisoners Dilemma and oligopoly theory, The Nash equilibrium, Mixed strategy, strategic moves Limitations, and importance of game theory	
6.	Mid term exam		
7.	32-44	Welfare Economics- Pigouvian Welfare Economics, Pareto optimum Value judgment	
8.	45-62	Social welfare function compensation principle, inability to obtain optimum welfare, Market failure Decreasing costs, uncertainty, and non-existent and incomplete markets.	
9.	Micro teaching by students		

10.	63-70	General Equilibrium-problems of Existence and uniqueness of general equilibrium	Modern Micro Economics - Koutsoyiannis
11.	71-80	The Walrasian general equilibrium model, 2x2x2x Graphical general equilibrium model	
12.	Revision/ Tutorial		
13.	Class Quiz		
14.	Dispersal of Class		

Lesson Plan: [2022-23] [Semester 2]

[Name of Course: M.A – Economics]

[Course Code – A080802T]

[Subject – Economics]

[Paper – Macro Economics Analysis – 2]

[Paper – 2]

[Lecture Duration – 60 mins]

[Syllabus Semester]

[Mode: Offline]

[Credit/Marks – 05/100]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S. No.	NUMBER OF HOURS	TOPICS COVERED	TEACHING PEDAGOGY
1.	1-8	Theory of Inflation : Classical, Keynesian and monetarist approaches to inflation, Phillips curve analysis, Short run and Long run Phillips curve	Lectures delivered in the language comfortable to the students. (Hindi and English mix)
2.	9 -18	Samuelson & Solow-The Natural rate of unemployment hypothesis, Tobin's modified Phillips curve, policies to control inflation, Stagflation.	Chalk and board method is used most of the time.
3.	Revision/ Tutorial		Interactive teaching is preferred including group discussions before the start of some topics.
4.	Class Quiz		
5.	19-28	Theory of Trade Cycle: Theories of Schumpeter, Kaldor, Samuelson & Hicks, Goodwin's model, Rational Expectation Equilibrium Model, Real vs Nominal	Students are invited from time to time to come on board to enhance their understanding and presentation skills. For

		Rigidities	this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. <u>Book suggested-</u> Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley
6.	29-36	Real Non-Walrasian Theories, The Efficiency wage model, Control of business cycles.	
7.	Mid Term Exam		
8.	37-47	Open Economy Macro-Economics: Foreign trade multiplier, Mundell-Fleming Model-Asset market	
9.	48-58	Expectations and exchange rates, Monetary approach to balance of payments	
10.	Micro Teaching by students		
11.	59-65	Macro Economic policy issues: Objective, Targets & Indicators of Macroeconomic Policies, Gradualism vs Shock Therapy, Rules vs Discretion	
12.	66-75	Dynamic Inconsistency problem, Inflation targeting, Barro-Ricardo and Blinder-Solow Hypothesis.	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2022-23] Sem -II
Name of Course: M.A – 1 Economics
Course code – A080803T
Paper – Agriculture Economics
[Paper – 3]
Lecture Duration – 60 mins
Syllabus Semester
Mode: Offline
Credit/Marks-05/100
Name of faculty involved in delivering the course – Lalit Kumar Maurya

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture1-15	**Unit1:** Nature and scope of agriculture economics- Traditional agriculture and its modernization, Role of agriculture in economic development.	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **Book Suggested-** The Economic Structure and Backward Agriculture- A Bhaduri Indian Economy- Datt and Sundaram
2.	Lecture16-31	Interdependence between agriculture and industry, Agricultural development, Poverty and environment.	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 32-43	**Unit2:** Agricultural production use and efficiency, Production function analysis in agriculture.	
6.	Lecture 44-58	Size of farm and laws of returns, Traditional agriculture, Technical change, Labour absorption in agriculture.	
7.	Test		
8.	Lecture 59-72	**Unit3:** Land distribution- Structure and trends, Land values and rent, Land reform measures and	

		performance.	
9.	Lecture 73-82	Problems of marginal and small farmers, Impact of MNAREGA on supply of labour and their wages.	
10.	Teaching by students		
11.	Lecture 83-91	**Unit4:** Agricultural growth in India- Recent Trends, Interregional variations in growth and productivity, Cropping pattern shifts.	
12.	Lecture 92-103	Supply of input, Pricing of inputs and role of subsidies. Sustainable agriculture, Indigenous practices, Biotechnological practices and organic farming.	
13.	Revision/ Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson plan (2022-2023) semester-2
Name 0f course- M.A. 1
SUBJECT – ECONOMICS
PAPER - INDIAN PUBLIC FINANCE
PAPER- 4
(LECTURE DURATION – 60 MINS)
SYLLLABUS- SEMESTER (CREDIT -5)
MODE-OFFLINE
(CREDITS-5/MAX MARKS-25+75)
Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-3	Evolution of the federal finance in India.	LECTURE DELIVERE IN THE LANGUAGE COMFORTABLE TO THE STUDENTS .(HINDI AND ENGLISH MIX) CHALK AND BOARD METHOD USED MOST OF THE TIME. PRESENTATION DELIVERED THROUGH PPT INTERACTIVE TEACHING PREFFERED INCLUDING GROUP DISCUSSION BEFORE THE START OF SOME TEDIOUS THEOREM OR TOPIC. STUDENS INVITED FROM TIME TO TIME TO COME ON BOARD TO ENHANCE THEIR UNDERSTANDING AND PRESENTATION SKILLS. FO RTHIS PURPOSE, TOPICS OF DISCUSSION ALLOTED A DAY OR TWO BEFORE. STUDENTS ALSO ENCOURAGE TO SEE THE NPTEL LECTORES AVAILABLE ONLINE FOR UNDERSTANDIND THE ADVANCED TOPICS AND ALSO TO GO THROUGH THE OPEN ACCESS. e-BOOK TOPOLOGY WITHOUT TEARS BY SIDNEY A. MORRIS. QUIZZES CONDUCTED CONTINEOUS EVALUATION BY
2.	Lecture 4-8	Financial relation between central and state governments.	
3.	Lecture 8-12	Indian finance commission- introduction- 13 finance commission.	
4.	Lecture13-17	14 finance commission and 15 finance commission- recommendations.	
5	Lecture 18-23	Public expenditure in India- introduction, items of expenditure of state governments.	
6	Lecture 24-29	recent trends in public expenditure of India, sources of revenue of central government, GST.	
7	Lecture 30-35	Sources of revenue of State government, salient feature of the Indian tax system, VAT, VDIS.	
8	Lecture 36-38	The Budget policy of India.	
9	Lecture 39-41	Deficit financing in India.	
10	Lecture 42-45	Public Debts in India.	

			ASSESSMENT, TESTS, PRESENTATION OF STUDENTS,TUTORIALS. REVISION AND DOUBT CLEARING SESSIONS. .

[Lesson Plan: [2018-19] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper – Macroeconomics]

[Paper – 1]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**National Income and Accounts:** Circular Flow of Income in Two- Three and four- sector economy, different forms of National Income Accounting- Social accounting, input-output accounting, Flow of Funds accounting and balance of Payments accounting.	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and
2.	Lecture 10-19	**Consumption Function:** Keynes' Psychological law of consumption- implications of the law, short-run and long run consumption function, Empirical evidence on consumption function, Income-consumption relationship- absolute income,	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 20-29	Relative income, Life cycle and permanent income hypothesis. **Investment Function:**	

		Marginal efficiency of investment and level of investment, Marginal efficiency of capital and investment – long run and short run, The accelerator and investment behavior- impact of inflation, influence of policy measures on investment- empirical evidence.	presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Contemporary Macroeconomic Theory and Policy – R. Jha Macroeconomics and The Real World – R. Blackhouse and A. Salasi Macroeconomic Theory and Policy – W.A. Branson
6.	Lecture 30-35	**Supply of Money:** Financial intermediation- a mechanistic model of bank deposit determination, A Behavioural model of money supply determination, a demand determined money supply process, RBI approach to money supply	
7.	Test		
8.	Lecture 36-45	High powered money and money multiplier, budget deficits and money supply, control of money supply.	
9.	Lecture 46-51	**Demand for Money:** Classical approach to demand for money- Quantity theory approach , Fisher's equation, Cambridge Quantity theory,	
10.	Micro Teaching by students		
11.	Lecture 52-62	Keynes's Liquidity Preference approach, transaction, precautionary and speculative demand for money aggregate demand for money, Derivation of LM curve.	
12.	Lecture 63-72	**Neo-classical and Keynesian Synthesis:** Neo-classical and Keynesian views on interest, The IS-LM model, Extension of IS-LM model with government sector, Relative effectiveness of monetary and fiscal policies,	

		Extension of IS-LM model with labour market and flexible prices.	
13.	Lecture 73-81	**Post-Keynesian Demand for Money:** Post-Keynesian approaches to demand for money- Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin	
14.	Lecture 82-86	Friedman and the modern Quantity theory, Crisis in Keynesian economics and the revival of monetarism.	
15.	Lecture 87-91	**Theory of Inflation and Business Cycles:** Classical, Keynesian and Monetarist Approaches to Inflation, Structuralist theory of Inflation, Philips curve analysis- short run and long run Philips curve, Samuelson and Solow- The natural rate of unemployment hypothesis	
16.	Lecture 92-96	Tobin's modified Philips curve, Adaptive expectations and rational expectations, Policies to control inflation, Theories of Schumpeter, Kaldor, Samuelson and Hicks, Control of Business cycles- relative efficacy of monetary and fiscal policies.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper –Indian Economic Policy]

[Paper-2]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-14	Approaches to economic development and its measurement sustainable development, Role of State, market and other institutions, Indicators of Development – PQLI, Human Development Index (HDI), Gender development indices	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – P.K. Bardhan, (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi R.S. Bawa, and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian
2.	Lecture 15-24	Objectives and Strategy of Planning, Failures and Achievements of Plans, Developing grass - root organizations for development – panchayats, NGOs and pressure groups	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 25-32	Broad demographic features of Indian populations, Rural – Urban migration, Urbanization and civic amenities, Poverty and Inequality	
6.	Lecture 33-42	Energy, Social Infrastructure – education and health, Environment, Regional Imbalance, Issues and policies in Financing Infrastructure development	

7.	Test		Economy, Guru Nanak Dev University Press, Amritsar
8.	Lecture 43-55	Institutional Structure – Land Reforms in India, Technological change in agriculture – pricing of agricultural inputs and output, Terms of Trade between agriculture Marketing and Warehousing, Issues in Food security – policies for sustainable agriculture	S. Chakravarty, (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi M.L. Dantwala, (1996), Dilemmas of Growth, The Indian Experience, Sage Publications, New Delhi Government of India, Economic survey, (Annual), Ministry of Finance, New Delhi A.K. Jain, (1986), Economic Planning in India, Ashish Publishing House, New Delhi B. Jalan, (1992), The Indian Economy-Problems and Prospects, Viking New Delhi Reserve Bank of India, Report on Currency and Finance (Annual) Datta & Sundaram: Indian Economy Kapila Uma: Indian Economy since Independence, Academic Foundation, New Delhi A.N. Agrawal & M.K. Agrawal, Indian Economy, New Age Publication, New Delhi Report of Kelkar Task Force on Indirect Taxation in India KS. Parikh, (1999), India Development Report 1999-2000, Oxford University Press, New Delhi
9.	Micro teaching by students		
10.	Lecture 56-72	Industrial Policy, Public Sector Enterprises and their performance, Problem of sick units in India, Privatisation and Disinvestment debate, Growth and pattern of industrialisation, Small–scale sector, Productivity in industrial sector, Exit policy – issues in Labour market reforms, Approaches for employment generation	
11.	Lecture 73-84	Analysis of price behaviour in India, Financial sector reforms, Interest rate policy, Review of monetary policy of RBI, Money and capital markets, Working of SEBI in India	
12.	Lecture 85-96	Rationale of internal and external reforms, Globalisation of Indian economy, W.T.O and its impact on the different sectors of the economy, Need for and issues in good governance, Issues in competition and safety nets in India economy	
13.	Revision/Tutorial		
14.	Class Quiz		
15.	Dispersal of Class		

Lesson Plan: [2018-19]

[Name of course M.A (FINAL) Economics

[Subject- Economics]

[Paper- International Economics]

[Paper – 3]

[Lecture duration 45 mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course- Dr R. K. DIXIT

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Theory of international trade- Theories of absolute advantage and opportunity costs, modern theory of international trade; theorem of factor price equalization, empirical testing of theory of absolute cost and comparative cost hecksher-ohlin theory of trade.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access ebook Topology without tears by Sidney A. Morris. Quizzes conducted. Books suggested- Bhagwati,(ED.)(1981),International Trade,selected Readings,Cambridge University Press, Massachusetts Carbough,R.J.(1999),International Economics, International Thompson publishing,New york. Dunn, R.M.(1994),The International Economy,
2	Lecture 6- 10	Kravis and linder theory of trade, role of dyanamic factor,i.e. changes in tastes, technology and factor endwments in explaining the emergence of trade.	
3	Lecture 11- 15	The rybozynski theorm concept and policy implications of immiserizing growth Measurement of gains from trade and their distribution, concept of term of trade.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Their uses and limitations, hypothesis of secular deterioration of terms of trade. Its empircil relevance and policy implication for less developed countries; trade as an engine of growth.	
6	Class quiz		

7	Lecture 21- 25	Welfare implications, empirical evidence and policy issues. The theory of interventions(tariffs, quotes and non -tariffs barriers);economic effects of-	Cambridge University Press London. Kindleberger, P .(1973),International Economics, R.D .irwin, Homewood. Krugman, P. R. and M. Obstfeld (1994). International Economics Theory and Policy, Glenview, foresman. Sodeerston, Bo (1991),International Economics, The Macmillan Press Ltd,London.
8	Lecture 26- 30	Traiffs and quotas on national income, output, employment, term of trade, income distribution ,balance of payments on trading partners both in partial and general quilibrium analysis.	
9	Lecture 31- 35	Non tariff barriers and their implication, nominal, effective and optimum rates of tariffs-their measurement, impact and welfare implication. Balance of payments and international financial markets-meaning and components of balance of payments;	
10	Revision/ Tutorial		
11	Class quiz		
12	Lecture 36- 40	Equilibrium and Disequlibrium in balance of payments, the process adjustment under system, fixed exchange rates and flexible exchange rates; devaiuation, essential conditions forits success and limitation. policies for achiving internal and external equilibrium simultaneously under alternative exchange rate regimes.	
13	Lecture 41- 45	A Critical review of the monetary approach to the theory of balance of payments adjustment; foreign trade multipliyer. Relative merits and demerits of fixed and flexible exchange rate. markets for future options and other financial derivatives global financial crisis.	
14	Mid term exam		
15	Lecture 46- 50	The Theory of Regional Blocks-Emergence of trading blocks at the global level;static and dynamic effects of a customs union and free trade areas , Rationale and economic progress ofSAARC/SAPTA and ASEAN region.problems and prospects of forming a customs union in	

		theAsianRegion, Regionalism(EU,NAFTA);Maultilateral issues andWTO.	
16	Lecture 51- 55	Bretton-wood system;need,adequacy and determinats of international reserves ; conditionality clause of imf. Reform of the international monetary System, India and developingcountries;	
17	Lecture 56- 60	Theory of short term capital movements; function of GATT/WTO(TRIPS,TRIMS)UNCTED IMF WORLD BANK AND ASIAN DEVELOPMENT BANK -their achievements and failures; WTOand Bank from the point of view of india.	
18	Micro teaching by students		
19	Lecture 61- 65	Trade problems and trade policies in india during the last five decades.recent cnages in the direction and composition of trade and their implications;	
20	Lecture 66- 70	Rationale and impact of trade reforms since 1991 on balance ofpayments,employment and growth.,	
21	Lecture 71- 75	Problems of india,s international debt;workingand regulations of MNCS in india; instrumentsof export promotion and recent import and exportpolicies and agenda for future.	
22	Revision/ Tutorial		
23	Class quiz		
24	Dispersal of class		

Lesson plan (2018-2019)

Name 0f course- M.A Final

SUBJECT – ECONOMICS

PAPER-4

PAPER- ECONOMIC OF SOCIAL SECTOR AND ENVIRONMENT

(LECTURE DURATION – 45 MINS)

MODE-OFFLINE

Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1	Lecture 1-5	Welfare Economics, Social Sector and Environment Pareto optimally and competitive equilibrium; fundamental theorem of welfare economics, Externalities and market inefficiency- externalities as missing markets; property rights and externalities.	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance
2	Lecture 6-10	Non convexities and externalities; Pareto optimal provision of public good- Lindahl's equilibrium, preference revelation problem and impure and mixed public goods, common property resources.	
3	Lecture 11-15	Measurement of Environment Values- values, option values and non-use values ;valuation methods- methods based on observed market behavior, Hedonic property values and household production models.	
4	Lecture 16-20	Travel cost methods and household health production function, methods based on response to hypothetical market, contingent valuation methods.	
5	Lecture 21-15	The theory of Environmental policy- Environmental externalities- Pigouvian taxes and subsidies, marketable pollution permits and mixed instruments (the charges and standards approach), Coase's bargaining solution and collective action; informal regulations and the new model of the pollution control	
6	Lecture 26-30	Monitoring and enforcement of environmental regulation, environmental institutions and grass root movements; global environmental externalities and climate change. Tradable pollution permits and international carbon tax, trade and	

		environment in WTO regime.	their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
7	Lecture 31-35	Revision, quiz	
8	Lecture 36-40	Economics of Natural Resources Management and Sustainable Development: theories of optimal use of exhaustible and renewable resources; Environmental and development trade off and the concept of sustainable development.	
9	Lecture 41-45	Integrated environmental and economic accounting and the measurement of environmentally corrected GDP; macroeconomic policies and environment.	
10	Lecture 46-50	Environmental and Natural Resources Problems in India: Mechanism for environment regulation in India; environmental laws and their implementations; Policy instruments for controlling water and air pollution and forestry policy.	
11	Lecture 51-55	People's participation in the management of common and forest lands; The institutions of joint forest management and the joint protected area management; social forestry-rationale and benefits.	
12	Lecture 56-60	Economics of Education: Education as an instrument for economic growth; Human Capital- Human Capital vs Physical capital, components of Human capital; Demand for Education- private demand and social demand	
13	Lecture 61-65	Determinants of demand; cost of education-expenditure on education, private cost and social cost and wastage and stagnation; benefit of education- direct and indirect benefits, private and social benefits, Educational planning and economic growth	
14	Lecture 66-70	Cost- benefit analysis, production function models, growth accounting equations of Schultz and Denison, manpower requirement approach, programming and input-output models;	
15	Lecture 71-80	Educational Financing- resource mobilization and utilization, pricing and subsidies and effect of educational financing on income distribution; education and labor market-effects of education, ability and family backgrounds on earnings, poverty and income distribution, education and employment; Economics of Educational planning in developing countries with special emphasis on India	
16	Lecture 81-87	Health Economics-: Health dimensions of development; determinents of health poverty, malnutritions and environmental issues; Economic dimensions of health care-demand and supply of health care;	
17	Lecture 88-95	Financing of health care and resource constraints; the concept of human life value;	

		theory and empirical studies of production of health care, Inequalities in health- class and gender perspectives; Institutional issues in health care delivery.	
18	Lecture 96-102	Revision, test, quiz etc.	

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Lesson Plan: [2018-2019] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper – Industrial Economics]

[Paper – Optional (1)]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Lalit Kumar Maurya

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	Concept and organization of a firm- ownership, control and objectives of the firm, Passive and active behaviour of the firm	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted Books suggested – I.J. Ahluwalia, (1985), Industrial Growth in India, Oxford University Press, New Delhi F. Cherunilam, (1994), Industrial Economics; Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai
2.	Lecture 10-22	Sellers' concentration, Product differentiation, Entry conditions, Economies of scale, Market structure and profitability, Market structure and innovation, Theories of industrial location- Weber and Sargent Florence, Factors affecting location	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 23-32	Product pricing - Theories and evidence, Investment expenditure - Methods of evaluating investment expenditure, Theories and empirical evidence on Mergers and acquisitions (M & As) and diversification	
6.	Lecture 33-42	Growth of the firm - size and growth of a firm, Growth and profitability of the firm: Constraints on growth, Productivity, efficiency and capacity utilization - concept and measurement, Indian situation	
7.	Test		

8.	Lecture 43-57	Classification of industries, Industrial policy in India - Role of public and private sectors, Recent trends in Indian industrial growth, MNCs and transfer of technology, Liberalization and privatization, Regional industrial growth in India, Industrial economic concentration and remedial measures, Issues in industrial proliferation and environmental preservation, Pollution control policies	B. Desai, (1999), Industrial Economy in India (3rd Edition), Himalaya Publishing House, Mumbai P.J. Divine, N. Lee and R.M. Jones (1976), An Introduction to Industrial Economics D. Hay and D.J. Morris (1979), Industrial Economics: Theory and Evidence, Oxford University Press, New Delhi S.C. Kuchhal, (1980), Industrial Economy of India (5th Edition). Chaitanya Publishing House, Allahabad
9.	Lecture 58-69	Owned, external and other components of funds, Role, nature, volume and types of institutional finance - IDBI, IFCI, SFCS, SIDC, commercial banks, etc., Financial statement - Balance sheet, Profit and loss account, assessment of financial soundness, ratio analysis	
10.	Micro teaching by students		
11.	Lecture 70-77	Cost-benefit analysis - Net Present Value (NPV) and internal rate of return (IRR) criteria-balancing private and social returns	
12.	Lecture 78-88	Structure of industrial labour, Employment dimensions of Indian industry, Industrial legislation, Industrial relations, Exit policy and social security, Wages and problem of bonus - labour market reforms	
13.	Lecture 89-96	Iron and Steel, Cotton textiles, Jute, Sugar, Coal, Cement and engineering goods, Development of small-scale and cottage industries in India	
14.	Revision/Tutorial		
15.	Class Quiz		
16.	Dispersal of Class		

[Lesson Plan: [2019-20] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper – Macroeconomics]

[Paper – 1]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**National Income and Accounts:** Circular Flow of Income in Two-Three and four- sector economy, different forms of National Income Accounting- Social accounting, input-output accounting, Flow of Funds accounting and balance of Payments accounting.	Lectures delivered in the language comfortable to the students. (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For
2.	Lecture 10-19	**Consumption Function:** Keynes' Psychological law of consumption- implications of the law, short-run and long run consumption function, Empirical evidence on consumption function, Income-consumption relationship- absolute income,	
3.	Revision/ Tutorial		
4.	Class Quiz		
5.	Lecture 20-29	Relative income, Life cycle and permanent income hypothesis. **Investment Function:** Marginal efficiency of investment	

		and level of investment, Marginal efficiency of capital and investment – long run and short run, The accelerator and investment behavior- impact of inflation, influence of policy measures on investment- empirical evidence.	this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Contemporary Macroeconomic Theory and Policy – R. Jha Macroeconomics and The Real World – R. Blackhouse and A. Salasi Macroeconomic Theory and Policy – W.A. Branson
6.	Lecture 30-35	**Supply of Money:** Financial intermediation- a mechanistic model of bank deposit determination, A Behavioural model of money supply determination, a demand determined money supply process, RBI approach to money supply	
7.	Test		
8.	Lecture 36-45	High powered money and money multiplier, budget deficits and money supply, control of money supply.	
9.	Lecture 46-51	**Demand for Money:** Classical approach to demand for money- Quantity theory approach , Fisher's equation, Cambridge Quantity theory,	
10.	Micro Teaching by students		
11.	Lecture 52-62	Keynes's Liquidity Preference approach, transaction, precautionary and speculative demand for money aggregate demand for money, Derivation of LM curve.	
12.	Lecture 63-72	**Neo-classical and Keynesian Synthesis:** Neo-classical and Keynesian views on interest, The IS-LM model, Extension of IS-LM model with government sector, Relative effectiveness of monetary and fiscal policies, Extension of IS-LM model with	

		labour market and flexible prices.	
13.	Lecture 73-81	**Post-Keynesian Demand for Money:** Post-Keynesian approaches to demand for money- Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin	
14.	Lecture 82-86	Friedman and the modern Quantity theory, Crisis in Keynesian economics and the revival of monetarism.	
15.	Lecture 87-91	**Theory of Inflation and Business Cycles:** Classical, Keynesian and Monetarist Approaches to Inflation, Structuralist theory of Inflation, Philips curve analysis- short run and long run Philips curve, Samuelson and Solow- The natural rate of unemployment hypothesis	
16.	Lecture 92-96	Tobin's modified Philips curve, Adaptive expectations and rational expectations, Policies to control inflation, Theories of Schumpeter, Kaldor, Samuelson and Hicks, Control of Business cycles- relative efficacy of monetary and fiscal policies.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

Lesson plan (2019-2020)

Name 0f course- M.A. (Final)

SUBJECT – ECONOMICS

[PAPER-2]

PAPER – Public Finance And Policy

(LECTURE DURATION – 45 MINS)

MODE-OFFLINE

Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Role of Govt. in organized society; changing perspective- Govt. in a mixed economy, public and private sector. Cooperation or competition;	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills.
2.	Lecture 6-10	Govt. as an agent for economic development' private goods ,public goods and merit goods. Market failure- imperfection, decreasing costs, externalities, public goods.	
3	Lecture 11-20	Allocation of resources- provision of public goods ;voluntary exchange models; Impossibility of decentralized provision of public goods(contribution of Samuelson and Musgrave);	
4	Lecture 21-30	Stabilization Policy; social goals; distributional and regional equalities .Wagner's Law of increasing state activities; Wiseman- Peacock Hypothesis; pure theory of public expenditure. Structure and growth of public expenditure;	
5	Lecture 31-35	Social cost --benefit analysis; project evaluation, estimation of costs, discount rate, reforms in expenditure budgeting; programme budgeting and zero base budgeting.	
6.	Lecture 36-42	Theory of Incidence; Alternative concepts of Incidence- Allocation and equity aspects of individual taxes, benefit and ability to pay approaches, theory of optimal taxation, excess burden of taxes, trade of between equity and efficiency; the problem of double taxation.	
7	Lecture 43-50	Classical View of public debt;	

		compensatory aspect of debt policy, burden of public debt, source of public debt, debt through created money, public borrowing and price level; crowding out private investment and activity; principle of debt management and repayment.	For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
8.	Lecture 51-60	Objectives of fiscal policy- full employment, anti-inflation, economic growth, redistribution of income and wealth; interdependence of fiscal and monetary policies. Budgetary deficit and its implications.	
9.	Lecture 61-65	Fiscal policy for stabilization-automatic vs. discretionary stabilization; alternative measure of resource mobilization and their impact on growth; distribution and prices, balanced budget multiplier.	
10.	Lecture 66-71	.Fiscal Federalism in India; vertical and horizontal imbalance; assignment of function and sources of revenue; constitutional provision, finance commission and planning commission; devolution of resources and grants; states resources	
11.	Lecture 72-80	Theory of grants, Resource transfer from union of states-criteria for transfer of resources; centre- state financial relation in India, problems of states resources and indebtedness, transfer from union and states to local bodies.	
12.	Lecture 81-85	Indian tax system, revenue of the union, states and the local bodies.	
13.	Lecture 86-90	Major taxes in India , base of taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes.	
14.	Lecture 91-95	GST as major indirect reform, taxes on services, non tax revenue of centre, state and local bodies.	
15.	Lecture 96-103	Trends in public expenditure ,public revenue and public debt, fiscal sector reforms in India, Strategy of union budget.	

Lesson Plan: [2019 -20]

[Name of course M.A.(F) Economics

[Subject-Economics]

[Paper-3- Population Studies and Manpower Planning]

[Lecture duration 45 mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course-Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	Lecture 1- 5	Meaning and scope of demography; components of population growth and their inter-dependence;	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2.	Lecture 6- 10	Measures of population change; Structure, distribution and sources of population data;	
3.	Lecture 11- 15	Theories of population - Malthus, Optimum theory of population; Theory of demographic transition- views of Medows, Enke and Simon; Population and development	
4.	Revision/ Tutorial		
5.	Lecture 16- 20	Population trends in the twentieth century; Population explosion- Threatened or real, distant or imminent;	
6.	Class quiz		
7.	Lecture 21- 25	International aspects of population growth and distribution; Pattern of age and sex structure in developed and less developed countries;	
8.	Lecture 26- 30	determinants of age and sex structure; Demographic effects of sex and age structure, Economic and social implications; age pyramids and projections- individual aging and population aging.	
9.	Lecture 31- 35	Importance of study of fertility- Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries;	**Book Suggested-** Agarwala, S N (1972) India's Population Problem. Chaubey P K (2000) Population Policy in India. Gulati S C (1968) Fertility in India.

			Bose A (1996) India's Basic Demogaphic Statistics. Rogue D J 1971 Principal of Demography
10.	Revision/ Tutorial		Srinivasan K (1996) Basic Demographic Techniques and Application. Simon J L(1991) Population and Development in Poor Countries.
11.	Class quiz		
12.	Lecture 36- 40	Factors affecting fertility Socio-economic and cultural determinants. Mortality- Death rates, crude and age-specific; Mortality at birth and infant mortality rate;	
13.	Lecture 41- 45	Levels and trends in developed and less developed countries; Sex and age pattern of mortality. Life table- Construction and uses; Stationary and stable population; Methods of population projection.	
14.	Mid term exam		
15.	Lecture 46- 50	Concept and types- Temporary, internal and international; International migration effect on population growth and pattern; Factors affecting migration;	
16.	Revision/ Tutorial		
17.	Class quiz		
18.	Lecture 51- 55	theories of migration related to internal migration; Urbanization growth and distribution of rural-urban population in developed and developing countries.	
19.	Lecture 56- 60	Population, economy and environment linkages- Population, health, nutrition, productivity nexus; Population and human development issues;	
20.	Micro teaching by students		
21.	Lecture 61- 65	culture and fertility; education and fertility, demography and household economic behaviour. Major sources of population and demographic data, Population policy in India	
22.	Lecture 66- 70	Inter relationship between Population, Manpower and development; Concept of Manpower; relationship between Population, education Manpower and Economic planning	
23.	Lecture 71- 75	Gender and Development: Concept of Manpower supply and manpower demand.	

		Forecasting Manpower.	
24.	Revision/ Tutorial		
25.	Class quiz		
26.	Dispersal of class		

Lesson Plan: [2019-2020] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper –Indian Economy]

[Paper- Optional III]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	India as a developing economy- Basic characteristics, Determinants, Capital formation, Policy Directions, Challenges to Inclusive Growth, Natural Resources and Economic Development Land, Water, Mineral, Forest Resources, Fisheries, Soil Erosion, Resource Management and related Policy Planning, Resource use, Management and Sustainability issues, Occupational structure- Historical Experience of Structural change, Changing Profile of GDP, Employment and Productivity, Workforce Participation Rates in India	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before.
2.	Lecture 10-19	National Income and Poverty- Macroeconomic Overview, Pattern of income distribution across states, Services Lead Growth, Poverty Line- Concept, Incidence, Multi-dimensional Poverty. Safety Nets in Rural Sector Policy Planning and Strategies for Poverty Alleviation Programmes, Employment and Unemployment Trends Nature and Estimates, Causes of Unemployment, Major Employment Programmes and their Implementation, Skill India Mission.	Quizzes conducted <u>Books suggested</u> – P.K. Bardhan, (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi R.S. Bawa, and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar

3.	Revision/ Tutorial		S. Chakravarty, (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi M.L. Dantwala, (1996), Dilemmas of Growth, The Indian Experience, Sage Publications, New Delhi Government of India, Economic survey, (Annual), Ministry of Finance, New Delhi A.K. Jain, (1986), Economic Planning in India, Ashish Publishing House, New Delhi B. Jalan, (1992), The Indian Economy-Problems and Prospects, Viking New Delhi Reserve Bank of India, Report on Currency and Finance (Annual) Datta & Sundaram: Indian Economy Kapila Uma: Indian Economy since Independence, Academic Foundation, New Delhi A.N. Agrawal & M.K. Agrawal, Indian Economy, New Age Publication, New Delhi Report of Kelkar Task Force on Indirect Taxation in India KS. Parikh, (1999), India Development Report 1999-2000, Oxford University Press, New Delhi
4.	Class Quiz		
5.	Lecture 20-29	Economic Growth and Human Development - Components, Human Development Index, Physical Quality of Life Index, Gender Inequality Index, National Human Development Reports, Inter State Variations, Human Resource Development - Education Policy, Health and Nutrition, Demographic Issues, Changing Characteristics of Population in India, Growth Rates, trend and Regional Variations in sex-ratio, age structure of population, infant and child mortality rates, Maternal mortality rates, Life Expectancy, Demographic dividend, Threat or opportunity, Population policy in India	
6.	Lecture 30-35	Environment and Development - Environmental Degradation, Protection and Sustainable Development, Population-Environment Linkages, Challenges of Climate Change, Urbanisation and suburbanization - Change Environment Policy in India	
7.	Test		
8.	Lecture 36-45	Status and Role of Agriculture - Second Green Revolution, New Thrust Areas, Cropping Pattern, Agricultural Growth, Concerns, Challenges and Priorities, National Agricultural Policy Land Reforms - An Appraisal Co-operative Farming, Agricultural Inputs, Rural Infrastructure, Agricultural Financing - Role of Lending Institutions, Financial Inclusion, Agricultural Insurance, Micro Finance and Self help groups, Agricultural Marketing and Warehousing, Problems and Solution, Government Measures, Agricultural Labour - Conditions and Problems, National Commission on Rural Labour	

		(NCRL) Food Security in India - Targeted Public Distribution System (TPDS), National Food Security Act, Policy Options for Reform, Agricultural prices - Trends, Evaluation of Governments Agricultural Price Policy, Terms of Trade between Agriculture and Industry	
9.	Lecture 46- 51	Industrial Development in India - Performance Appraisal in Eleventh and Twelfth Plan Periods, Major Industries in India, Role and Importance of MSMEs, Industrial Policy Resolutions, Public Sector Enterprises, Role of Disinvestment- A Critique, Unorganised Sector and Informalisation of Indian Economy, Productivity in Industrial Sector, Industrial Sickness in India - Industrial Relations - Related Government Policy, Liberalisation, Privatisation, Globalisation - Impact on Indian Agriculture and Industry	
10.	Micro teaching by students		
11.	Lecture 52-62	Growing contribution of services sector - Services Sector led growth, Employment potential, India's Information Technology and Knowledge Economy - Concept, Issues, Future Prospects, Outsourcing, Corporate Social Responsibility, India's Foreign Trade - Value, Composition and direction Balance of Payments & New Economic Reforms, Recent Foreign Trade Policy EXIM Policy, Special Economic Zones in India - Status, Benefits and Arguments, Foreign Capital and Aid- MNCs, FDIs, GATT, WTO, Indian Exchange Rate Policy, Foreign Exchange Reserves, Capital Account Convertibility, FERA and FEMA, Black Economy in India - Causes, Estimation Methods, Consequences, Recent Government Measures to Curb Black Money in India, Demonetisation, Benami Transactions (Prohibition) Amendment Act, 2016, DTAA, Task force on Shell Companies	

12.	Lecture 63-72	Indian Financial System - Money and Capital markets in India, Commercial Banking System - An Overview, Progress of Banking in India, Banking Sector Reforms, Narasimhan Committee Report, Recent Financial Inclusion and its Appraisal, Price and Inflation Trends - Factors or Demand side and supply side, Inflation Targetting - Urjit Patel Committee, RBI and Monetary Management Report, Indian Tax Structure & Tax Reforms since 1991- GST, Trends and issues of Public Revenue and Expenditure of Central Government in India, India's Public Debt Management - An Assessment, Union Budget, India's Fiscal Policy - Fiscal Responsibility Deficit Financing in India, Federal Finance in India - Centre-State Financial Relations, Cooperative Federalism, Finance Commissions - Thirteenth and Fourteenth Finance Commissions- Working and Evaluation	
13.	Lecture 73-81	Infrastructure and Economic Development - Social & Economic Infrastructure Conventional and Non-Conventional Energy Sources, Transport and Development - Railways, Road, Water and Air Transport, Civil Aviation Communication System, Urban Infrastructure Science and Technology, Economic Planning in India - Rationale, Features, New Development Strategy, Review of Planning Experience in India - Eleventh & Twelfth Five Year Plans in India - An Appraisal, NITI Ayog Regional Planning - Regional Imbalance and Measures to Bridge inter state gaps	
14.	Lecture 82-86	Industrial Policy, Public Sector Enterprises and their performance, Problem of sick units in India, Privatisation and disinvestment debate, Growth and pattern of industrialisation, Small-scale sector, Productivity in industrial sector, Exit policy - issues in labour market reforms, Approaches for	

		employment generation, Pattern of Services sector growth	
15.	Lecture 87-91	Analysis of price behaviour in India, Financial Sector reforms, Interest rate policy, review of monetary policy of RBI; Money and capital markets, Working of SEBI in India	
16.	Lecture 92-96	Rationale of internal and external reforms, Globalisation of Indian economy, W.T.O. and its impact on the different sectors of the economy, Need for and issues in good governance, Issues in competition and safety nets in Indian economy, Cooperative federation and inter-state development in India	
17.	Revision/Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

[Lesson Plan: [2020-21] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper – Macroeconomics]

[Paper – 1]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**National Income and Accounts:** Circular Flow of Income in Two-Three and four- sector economy, different forms of National Income Accounting- Social accounting, input-output accounting, Flow of Funds accounting and balance of Payments accounting.	Lectures delivered in the language comfortable to the students. (Hindi and English mix)
2.	Lecture 10-19	**Consumption Function:** Keynes' Psychological law of consumption- implications of the law, short-run and long run consumption function, Empirical evidence on consumption function, Income-consumption relationship- absolute income,	Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics.
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Lecture 20-29	Relative income, Life cycle and permanent income hypothesis. **Investment Function:** Marginal efficiency of investment and level of investment, Marginal efficiency of capital and investment – long run and short run, The accelerator and investment behavior- impact of inflation, influence of policy measures on investment- empirical evidence.	Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted.
6.	Lecture 30-35	**Supply of Money:** Financial intermediation- a mechanistic model of bank deposit determination, A Behavioural model of money supply determination, a demand determined money supply process, RBI approach to money supply	**Book suggested-** Advanced Macroeconomic Theory – H. L. Ahuja
7.	Test		Macroeconomic Analysis – E. Shapiro
8.	Lecture 36-45	High powered money and money multiplier, budget deficits and money supply, control of money supply.	Macro Economic theory– M. L. Jhingan
9.	Lecture 46-51	**Demand for Money:** Classical approach to demand for money- Quantity theory approach , Fisher's equation, Cambridge Quantity theory,	Macroeconomics: Theory and Policy – G. Ackley
10.	Micro Teaching by students		Contemporary Macroeconomic Theory and Policy – R.
11.	Lecture 52-	Keynes's Liquidity Preference	

	62	approach, transaction, precautionary and speculative demand for money aggregate demand for money, Derivation of LM curve.	Jha Macroeconomics and The Real World – R. Blackhouse and A. Salasi Macroeconomic Theory and Policy – W.A. Branson
12.	Lecture 63-72	**Neo-classical and Keynesian Synthesis:** Neo-classical and Keynesian views on interest, The IS-LM model, Extension of IS-LM model with government sector, Relative effectiveness of monetary and fiscal policies, Extension of IS-LM model with labour market and flexible prices.	
13.	Lecture 73-81	**Post-Keynesian Demand for Money:** Post-Keynesian approaches to demand for money-Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin	
14.	Lecture 82-86	Friedman and the modern Quantity theory, Crisis in Keynesian economics and the revival of monetarism.	
15.	Lecture 87-91	**Theory of Inflation and Business Cycles:** Classical, Keynesian and Monetarist Approaches to Inflation, Structuralist theory of Inflation, Philips curve analysis-short run and long run Philips curve, Samuelson and Solow- The natural rate of unemployment hypothesis	
16.	Lecture 92-96	Tobin's modified Philips curve, Adaptive expectations and rational expectations, Policies to control inflation, Theories of Schumpeter,	

		Kaldor, Samuelson and Hicks, Control of Business cycles-relative efficacy of monetary and fiscal policies.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

Lesson plan (2020-2021)

Name 0f course- M.A. (Final)

SUBJECT – ECONOMICS

PAPER – Public Finance And Policy

PAPER-2

(LECTURE DURATION – 45 MINS)

MODE-OFFLINE

Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Role of Govt. in organized society; changing perspective- Govt. in a mixed economy, public and private sector. Cooperation or competition;	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to
2.	Lecture 6-10	Govt. as an agent for economic development' private goods ,public goods and merit goods. Market failure- imperfection, decreasing costs, externalities, public goods.	
3	Lecture 11-20	Allocation of resources- provision of public goods ;voluntary exchange models; Impossibility of decentralized provision of public goods(contribution of Samuelson and Musgrave);	
4	Lecture 21-30	Stabilization Policy; social goals; distributional and regional equalities .Wagner's Law of increasing state activities; Wiseman- Peacock Hypothesis; pure theory of public expenditure. Structure and growth of public expenditure;	
5	Lecture 31-35	Social cost --benefit analysis; project evaluation, estimation of costs, discount rate, reforms in expenditure budgeting; programme budgeting and zero base budgeting.	
6.	Lecture 36-42	Theory of Incidence; Alternative concepts of Incidence- Allocation and equity aspects of individual	

		taxes, benefit and ability to pay approaches, theory of optimal taxation, excess burden of taxes, trade of between equity and efficiency; the problem of double taxation.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
7	Lecture 43-50	Classical View of public debt; compensatory aspect of debt policy, burden of public debt, source of public debt, debt through created money, public borrowing and price level; crowding out private investment and activity; principle of debt management and repayment.	
8.	Lecture 51-60	Objectives of fiscal policy- full employment, anti-inflation, economic growth, redistribution of income and wealth; interdependence of fiscal and monetary policies. Budgetary deficit and its implications.	
9.	Lecture 61-65	Fiscal policy for stabilization- automatic vs. discretionary stabilization; alternative measure of resource mobilization and their impact on growth; distribution and prices, balanced budget multiplier.	
10.	Lecture 66-71	.Fiscal Federalism in India; vertical and horizontal imbalance; assignment of function and sources of revenue; constitutional provision, finance commission and planning commission; devolution of resources and grants; states resources	
11.	Lecture 72-80	Theory of grants, Resource transfer from union of states- criteria for transfer of resources; centre- state financial relation in India, problems of states resources and indebtedness, transfer from union and states to local bodies.	
12.	Lecture 81-85	Indian tax system, revenue of the union, states and the local bodies.	
13.	Lecture 86-90	Major taxes in India , base of	

		taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes.	
14.	Lecture 91-95	GST as major indirect reform, taxes on services, non tax revenue of centre, state and local bodies.	
15.	Lecture 96-103	Trends in public expenditure ,public revenue and public debt, fiscal sector reforms in India, Strategy of union budget.	

Lesson Plan: [2020 -21]

[Name of course M.A.(F) Economics

[Subject-Economics]

[Paper-3]

[Population Studies and Manpower Planning]

[Lecture duration 45 mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course-Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	Lecture 1- 5	Meaning and scope of demography; components of population growth and their inter-dependence;	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2.	Lecture 6- 10	Measures of population change; Structure, distribution and sources of population data;	
3.	Lecture 11- 15	Theories of population - Malthus, Optimum theory of population; Theory of demographic transition- views of Medows, Enke and Simon; Population and development	
4.	Revision/ Tutorial		
5.	Lecture 16- 20	Population trends in the twentieth century; Population explosion- Threatened or real, distant or imminent;	
6.	Class quiz		
7.	Lecture 21- 25	International aspects of population growth and distribution; Pattern of age and sex structure in developed and less developed countries;	Book Suggested- Agarwala, S N (1972) India's Population Problem.

			Chaubey P K (2000) Population Policy in India. Gulati S C (1968) Fertility in India. Bose A (1996) India's Basic Demogaphic Statistics. Rogue D J 1971 Principal of Demography.
8.	Lecture 26- 30	determinants of age and sex structure; Demographic effects of sex and age structure, Economic and social implications; age pyramids and projections- individual aging and population aging.	Srinivasan K (1996) Basic Demographic Techniques and Application. Simon J L(1991) Population and Development in Poor Countries.
9.	Lecture 31- 35	Importance of study of fertility- Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries;	
10.	Revision/ Tutorial		
11.	Class quiz		
12.	Lecture 36- 40	Factors affecting fertility Socio-economic and cultural determinants. Mortality- Death rates, crude and age-specific; Mortality at birth and infant mortality rate;	
13.	Lecture 41- 45	Levels and trends in developed and less developed countries; Sex and age pattern of mortality. Life table- Construction and uses; Stationary and stable population; Methods of population projection.	

14.	Mid term exam		
15.	Lecture 46- 50	Concept and types- Temporary, internal and international; International migration effect on population growth and pattern; Factors affecting migration;	
16.	Revision/ Tutorial		
17.	Class quiz		
18.	Lecture 51- 55	theories of migration related to internal migration; Urbanization growth and distribution of rural-urban population in developed and developing countries.	
19.	Lecture 56- 60	Population, economy and environment linkages- Population, health, nutrition, productivity nexus; Population and human development issues;	
20.	Micro teaching by students		
21.	Lecture 61- 65	culture and fertility; education and fertility, demography and household economic behaviour. Major sources of population and demographic data, Population policy in India	
22.	Lecture 66- 70	Inter relationship between Population, Manpower and development; Concept of Manpower; relationship between Population, education Manpower and Economic planning	
23.	Lecture 71- 75	Gender and Development: Concept of Manpower supply and manpower demand. Forecasting Manpower.	
24.	Revision/ Tutorial		
25.	Class quiz		

26.	Dispersal of class		

Lesson Plan: [2020-2021] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper –Indian Economy]

[Paper- Optional III]

[Lecture Duration – 45 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	India as a developing economy- Basic characteristics, Determinants, Capital formation, Policy Directions, Challenges to Inclusive Growth, Natural Resources and Economic Development Land, Water, Mineral, Forest Resources, Fisheries, Soil Erosion, Resource Management and related Policy Planning, Resource use, Management and Sustainability issues, Occupational structure- Historical Experience of Structural change, Changing Profile of GDP, Employment and Productivity, Workforce Participation Rates in India	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – P.K. Bardhan, (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi R.S. Bawa, and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar
2.	Lecture 10-19	National Income and Poverty- Macroeconomic Overview, Pattern of income distribution across states, Services Lead Growth, Poverty Line- Concept, Incidence, Multi-dimensional Poverty. Safety Nets in Rural Sector Policy Planning and Strategies for Poverty Alleviation Programmes, Employment and Unemployment Trends Nature and Estimates, Causes of Unemployment, Major Employment Programmes and their Implementation, Skill India Mission.	

3.	Revision/ Tutorial		S. Chakravarty, (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi M.L. Dantwala, (1996), Dilemmas of Growth, The Indian Experience, Sage Publications, New Delhi Government of India, Economic survey, (Annual), Ministry of Finance, New Delhi A.K. Jain, (1986), Economic Planning in India, Ashish Publishing House, New Delhi B. Jalan, (1992), The Indian Economy-Problems and Prospects, Viking New Delhi Reserve Bank of India, Report on Currency and Finance (Annual) Datta & Sundaram: Indian Economy Kapila Uma: Indian Economy since Independence, Academic Foundation, New Delhi A.N. Agrawal & M.K. Agrawal, Indian Economy, New Age Publication, New Delhi Report of Kelkar Task Force on Indirect Taxation in India KS. Parikh, (1999), India Development Report 1999-2000, Oxford University Press, New Delhi
4.	Class Quiz		
5.	Lecture 20-29	Economic Growth and Human Development - Components, Human Development Index, Physical Quality of Life Index, Gender Inequality Index, National Human Development Reports, Inter State Variations, Human Resource Development - Education Policy, Health and Nutrition, Demographic Issues, Changing Characteristics of Population in India, Growth Rates, trend and Regional Variations in sex-ratio, age structure of population, infant and child mortality rates, Maternal mortality rates, Life Expectancy, Demographic dividend, Threat or opportunity, Population policy in India	
6.	Lecture 30-35	Environment and Development - Environmental Degradation, Protection and Sustainable Development, Population-Environment Linkages, Challenges of Climate Change, Urbanisation and suburbanization - Change Environment Policy in India	
7.	Test		
8.	Lecture 36-45	Status and Role of Agriculture - Second Green Revolution, New Thrust Areas, Cropping Pattern, Agricultural Growth, Concerns, Challenges and Priorities, National Agricultural Policy Land Reforms - An Appraisal Co-operative Farming, Agricultural Inputs, Rural Infrastructure, Agricultural Financing - Role of Lending Institutions, Financial Inclusion, Agricultural Insurance, Micro Finance and Self help groups, Agricultural Marketing and Warehousing, Problems and Solution, Government Measures, Agricultural Labour - Conditions and Problems, National Commission on Rural Labour	

		(NCRL) Food Security in India - Targeted Public Distribution System (TPDS), National Food Security Act, Policy Options for Reform, Agricultural prices - Trends, Evaluation of Governments Agricultural Price Policy, Terms of Trade between Agriculture and Industry	
9.	Lecture 46- 51	Industrial Development in India - Performance Appraisal in Eleventh and Twelfth Plan Periods, Major Industries in India, Role and Importance of MSMEs, Industrial Policy Resolutions, Public Sector Enterprises, Role of Disinvestment- A Critique, Unorganised Sector and Informalisation of Indian Economy, Productivity in Industrial Sector, Industrial Sickness in India - Industrial Relations - Related Government Policy, Liberalisation, Privatisation, Globalisation - Impact on Indian Agriculture and Industry	
10.	Micro teaching by students		
11.	Lecture 52-62	Growing contribution of services sector - Services Sector led growth, Employment potential, India's Information Technology and Knowledge Economy - Concept, Issues, Future Prospects, Outsourcing, Corporate Social Responsibility, India's Foreign Trade - Value, Composition and direction Balance of Payments & New Economic Reforms, Recent Foreign Trade Policy EXIM Policy, Special Economic Zones in India - Status, Benefits and Arguments, Foreign Capital and Aid- MNCs, FDIs, GATT, WTO, Indian Exchange Rate Policy, Foreign Exchange Reserves, Capital Account Convertibility, FERA and FEMA, Black Economy in India - Causes, Estimation Methods, Consequences, Recent Government Measures to Curb Black Money in India, Demonetisation, Benami Transactions (Prohibition) Amendment Act, 2016, DTAA, Task force on Shell Companies	

12.	Lecture 63-72	Indian Financial System - Money and Capital markets in India, Commercial Banking System - An Overview, Progress of Banking in India, Banking Sector Reforms, Narasimhan Committee Report, Recent Financial Inclusion and its Appraisal, Price and Inflation Trends - Factors or Demand side and supply side, Inflation Targetting - Urjit Patel Committee, RBI and Monetary Management Report, Indian Tax Structure & Tax Reforms since 1991- GST, Trends and issues of Public Revenue and Expenditure of Central Government in India, India's Public Debt Management - An Assessment, Union Budget, India's Fiscal Policy - Fiscal Responsibility Deficit Financing in India, Federal Finance in India - Centre-State Financial Relations, Cooperative Federalism, Finance Commissions - Thirteenth and Fourteenth Finance Commissions- Working and Evaluation	
13.	Lecture 73-81	Infrastructure and Economic Development - Social & Economic Infrastructure Conventional and Non-Conventional Energy Sources, Transport and Development - Railways, Road, Water and Air Transport, Civil Aviation Communication System, Urban Infrastructure Science and Technology, Economic Planning in India - Rationale, Features, New Development Strategy, Review of Planning Experience in India - Eleventh & Twelfth Five Year Plans in India - An Appraisal, NITI Ayog Regional Planning - Regional Imbalance and Measures to Bridge inter state gaps	
14.	Lecture 82-86	Industrial Policy, Public Sector Enterprises and their performance, Problem of sick units in India, Privatisation and disinvestment debate, Growth and pattern of industrialisation, Small-scale sector, Productivity in industrial sector, Exit policy - issues in labour market reforms, Approaches for	

		employment generation, Pattern of Services sector growth	
15.	Lecture 87-91	Analysis of price behaviour in India, Financial Sector reforms, Interest rate policy, review of monetary policy of RBI; Money and capital markets, Working of SEBI in India	
16.	Lecture 92-96	Rationale of internal and external reforms, Globalisation of Indian economy, W.T.O. and its impact on the different sectors of the economy, Need for and issues in good governance, Issues in competition and safety nets in Indian economy, Cooperative federation and inter-state development in India	
17.	Revision/Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

[Lesson Plan: [2021-22] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper – Macroeconomics]

[Paper – 1]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Dr. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**National Income and Accounts:** Circular Flow of Income in Two-Three and four- sector economy, different forms of National Income Accounting- Social accounting, input-output accounting, Flow of Funds accounting and balance of Payments accounting.	Lectures delivered in the language comfortable to the students. (Hindi and English mix)
2.	Lecture 10-19	**Consumption Function:** Keynes' Psychological law of consumption- implications of the law, short-run and long run consumption function, Empirical evidence on consumption function, Income-consumption relationship- absolute income,	Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Lecture 20-29	Relative income, Life cycle and permanent income hypothesis. **Investment Function:** Marginal efficiency of investment and level of investment, Marginal efficiency of capital and investment – long run and short run, The accelerator and investment behavior- impact of inflation, influence of policy measures on investment-empirical evidence.	from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Contemporary Macroeconomic Theory and Policy – R. Jha
6.	Lecture 30-35	**Supply of Money:** Financial intermediation- a mechanistic model of bank deposit determination, A Behavioural model of money supply determination, a demand determined money supply process, RBI approach to money supply	
7.	Test		
8.	Lecture 36-45	High powered money and money multiplier, budget deficits and money supply, control of money supply.	
9.	Lecture 46-51	**Demand for Money:** Classical approach to demand for money- Quantity theory approach , Fisher's equation, Cambridge Quantity theory,	
10.	Micro Teaching by students		
11.	Lecture 52-	Keynes's Liquidity Preference approach, transaction,	

	62	precautionary and speculative demand for money aggregate demand for money, Derivation of LM curve.	Macroeconomics and The Real World – R. Blackhouse and A. Salasi Macroeconomic Theory and Policy – W.A. Branson
12.	Lecture 63-72	**Neo-classical and Keynesian Synthesis:** Neo-classical and Keynesian views on interest, The IS-LM model, Extension of IS-LM model with government sector, Relative effectiveness of monetary and fiscal policies, Extension of IS-LM model with labour market and flexible prices.	
13.	Lecture 73-81	**Post-Keynesian Demand for Money:** Post-Keynesian approaches to demand for money- Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin	
14.	Lecture 82-86	Friedman and the modern Quantity theory, Crisis in Keynesian economics and the revival of monetarism.	
15.	Lecture 87-91	**Theory of Inflation and Business Cycles:** Classical, Keynesian and Monetarist Approaches to Inflation, Structuralist theory of Inflation, Philips curve analysis- short run and long run Philips curve, Samuelson and Solow- The natural rate of unemployment hypothesis	

16.	Lecture 92-96	Tobin's modified Philips curve, Adaptive expectations and rational expectations, Policies to control inflation, Theories of Schumpeter, Kaldor, Samuelson and Hicks, Control of Business cycles- relative efficacy of monetary and fiscal policies.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

Lesson plan (2021-2022)

Name 0f course- M.A. (Final)

SUBJECT – ECONOMICS

PAPER-2

Public Finance And Policy

(LECTURE DURATION – 60 MINS)

MODE-OFFLINE

Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Role of Govt. in organized society; changing perspective- Govt. in a mixed economy, public and private sector. Cooperation or competition;	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to
2.	Lecture 6-10	Govt. as an agent for economic development' private goods ,public goods and merit goods. Market failure- imperfection, decreasing costs, externalities, public goods.	
3	Lecture 11-20	Allocation of resources- provision of public goods ;voluntary exchange models; Impossibility of decentralized provision of public goods(contribution of Samuelson and Musgrave);	
4	Lecture 21-30	Stabilization Policy; social goals; distributional and regional equalities .Wagner's Law of increasing state activities; Wiseman- Peacock Hypothesis; pure theory of public expenditure. Structure and growth of public expenditure;	
5	Lecture 31-35	Social cost --benefit analysis; project evaluation, estimation of costs, discount rate, reforms in expenditure budgeting; programme budgeting and zero base budgeting.	
6.	Lecture 36-42	Theory of Incidence; Alternative concepts of Incidence- Allocation	

		and equity aspects of individual taxes, benefit and ability to pay approaches, theory of optimal taxation, excess burden of taxes, trade of between equity and efficiency; the problem of double taxation.	come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
7	Lecture 43-50	Classical View of public debt; compensatory aspect of debt policy, burden of public debt, source of public debt, debt through created money, public borrowing and price level; crowding out private investment and activity; principle of debt management and repayment.	
8.	Lecture 51-60	Objectives of fiscal policy- full employment, anti-inflation, economic growth, redistribution of income and wealth; interdependence of fiscal and monetary policies. Budgetary deficit and its implications.	
9.	Lecture 61-65	Fiscal policy for stabilization- automatic vs. discretionary stabilization; alternative measure of resource mobilization and their impact on growth; distribution and prices, balanced budget multiplier.	
10.	Lecture 66-71	.Fiscal Federalism in India; vertical and horizontal imbalance; assignment of function and sources of revenue; constitutional provision, finance commission and planning commission; devolution of resources and grants; states resources	
11.	Lecture 72-80	Theory of grants, Resource transfer from union of states- criteria for transfer of resources; centre- state financial relation in India, problems of states resources and indebtedness, transfer from union and states to local bodies.	
12.	Lecture 81-85	Indian tax system, revenue of the union, states and the local bodies.	

13.	Lecture 86-90	Major taxes in India , base of taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes.	
14.	Lecture 91-95	GST as major indirect reform, taxes on services, non tax revenue of centre, state and local bodies.	
15.	Lecture 96-103	Trends in public expenditure ,public revenue and public debt, fiscal sector reforms in India, Strategy of union budget.	

Lesson Plan: [2021 -22]

[Name of course M.A.(F) Economics

[Subject-Economics]

[Paper-3]

[Population Studies and Manpower Planning]

[Lecture duration 60 mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course-Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	Lecture 1- 5	Meaning and scope of demography; components of population growth and their inter-dependence;	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2.	Lecture 6- 10	Measures of population change; Structure, distribution and sources of population data;	
3.	Lecture 11- 15	Theories of population - Malthus, Optimum theory of population; Theory of demographic transition- views of Medows, Enke and Simon; Population and development	
4.	Revision/ Tutorial		
5.	Lecture 16- 20	Population trends in the twentieth century; Population explosion- Threatened or real, distant or imminent;	
6.	Class quiz		
7.	Lecture 21- 25	International aspects of population growth and distribution; Pattern of age and sex structure in developed and less developed countries;	Book Suggested- Agarwala, S N (1972) India's Population Problem. Chaubey P K (2000) Population Policy in India. Gulati S C (1968) Fertility in India. Bose A (1996) India's Basic Demogaphic Statistics.

			Rogue D J 1971 Principal of Demography.
8.	Lecture 26- 30	determinants of age and sex structure; Demographic effects of sex and age structure, Economic and social implications; age pyramids and projections- individual aging and population aging.	Srinivasan K (1996) Basic Demographic Techniques and Application. Simon J L(1991) Population and Development in Poor Countries.
9.	Lecture 31- 35	Importance of study of fertility- Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries;	
10.	Revision/ Tutorial		
11.	Class quiz		
12.	Lecture 36- 40	Factors affecting fertility Socio-economic and cultural determinants. Mortality- Death rates, crude and age-specific; Mortality at birth and infant mortality rate;	
13.	Lecture 41- 45	Levels and trends in developed and less developed countries; Sex and age pattern of mortality. Life table- Construction and uses; Stationary and stable population; Methods of population projection.	
14.	Mid term exam		
15.	Lecture 46- 50	Concept and types- Temporary, internal and international; International migration effect on population growth and pattern; Factors affecting migration;	
16.	Revision/ Tutorial		
17.	Class quiz		
18.	Lecture 51- 55	theories of migration related to internal migration; Urbanization growth and distribution of rural-urban population	

		in developed and developing countries.	
19.	Lecture 56- 60	Population, economy and environment linkages- Population, health, nutrition, productivity nexus; Population and human development issues;	
20.	Micro teaching by students		
21.	Lecture 61- 65	culture and fertility; education and fertility, demography and household economic behaviour. Major sources of population and demographic data, Population policy in India	
22.	Lecture 66- 70	Inter relationship between Population, Manpower and development; Concept of Manpower; relationship between Population, education Manpower and Economic planning	
23.	Lecture 71- 75	Gender and Development: Concept of Manpower supply and manpower demand. Forecasting Manpower.	
24.	Revision/ Tutorial		
25.	Class quiz		
26.	Dispersal of class		

Lesson Plan: [2021-2022] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper –Indian Economy]

[Paper- Optional III]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	India as a developing economy- Basic characteristics, Determinants, Capital formation, Policy Directions, Challenges to Inclusive Growth, Natural Resources and Economic Development Land, Water, Mineral, Forest Resources, Fisheries, Soil Erosion, Resource Management and related Policy Planning, Resource use, Management and Sustainability issues, Occupational structure- Historical Experience of Structural change, Changing Profile of GDP, Employment and Productivity, Workforce Participation Rates in India	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted <u>Books suggested</u> – P.K. Bardhan, (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi R.S. Bawa, and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar
2.	Lecture 10-19	National Income and Poverty- Macroeconomic Overview, Pattern of income distribution across states, Services Lead Growth, Poverty Line- Concept, Incidence, Multi-dimensional Poverty. Safety Nets in Rural Sector Policy Planning and Strategies for Poverty Alleviation Programmes, Employment and Unemployment Trends Nature and Estimates, Causes of Unemployment, Major Employment Programmes and their Implementation, Skill India Mission.	

3.	Revision/ Tutorial		S. Chakravarty, (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi M.L. Dantwala, (1996), Dilemmas of Growth, The Indian Experience, Sage Publications, New Delhi Government of India, Economic survey, (Annual), Ministry of Finance, New Delhi A.K. Jain, (1986), Economic Planning in India, Ashish Publishing House, New Delhi B. Jalan, (1992), The Indian Economy-Problems and Prospects, Viking New Delhi Reserve Bank of India, Report on Currency and Finance (Annual) Datta & Sundaram: Indian Economy Kapila Uma: Indian Economy since Independence, Academic Foundation, New Delhi A.N. Agrawal & M.K. Agrawal, Indian Economy, New Age Publication, New Delhi Report of Kelkar Task Force on Indirect Taxation in India KS. Parikh, (1999), India Development Report 1999-2000, Oxford University Press, New Delhi
4.	Class Quiz		
5.	Lecture 20-29	Economic Growth and Human Development - Components, Human Development Index, Physical Quality of Life Index, Gender Inequality Index, National Human Development Reports, Inter State Variations, Human Resource Development - Education Policy, Health and Nutrition, Demographic Issues, Changing Characteristics of Population in India, Growth Rates, trend and Regional Variations in sex-ratio, age structure of population, infant and child mortality rates, Maternal mortality rates, Life Expectancy, Demographic dividend, Threat or opportunity, Population policy in India	
6.	Lecture 30-35	Environment and Development - Environmental Degradation, Protection and Sustainable Development, Population-Environment Linkages, Challenges of Climate Change, Urbanisation and suburbanization - Change Environment Policy in India	
7.	Test		
8.	Lecture 36-45	Status and Role of Agriculture - Second Green Revolution, New Thrust Areas, Cropping Pattern, Agricultural Growth, Concerns, Challenges and Priorities, National Agricultural Policy Land Reforms - An Appraisal Co-operative Farming, Agricultural Inputs, Rural Infrastructure, Agricultural Financing - Role of Lending Institutions, Financial Inclusion, Agricultural Insurance, Micro Finance and Self help groups, Agricultural Marketing and Warehousing, Problems and Solution, Government Measures, Agricultural Labour - Conditions and Problems, National Commission on Rural Labour	

		(NCRL) Food Security in India - Targeted Public Distribution System (TPDS), National Food Security Act, Policy Options for Reform, Agricultural prices - Trends, Evaluation of Governments Agricultural Price Policy, Terms of Trade between Agriculture and Industry	
9.	Lecture 46- 51	Industrial Development in India - Performance Appraisal in Eleventh and Twelfth Plan Periods, Major Industries in India, Role and Importance of MSMEs, Industrial Policy Resolutions, Public Sector Enterprises, Role of Disinvestment- A Critique, Unorganised Sector and Informalisation of Indian Economy, Productivity in Industrial Sector, Industrial Sickness in India - Industrial Relations - Related Government Policy, Liberalisation, Privatisation, Globalisation - Impact on Indian Agriculture and Industry	
10.	Micro teaching by students		
11.	Lecture 52-62	Growing contribution of services sector - Services Sector led growth, Employment potential, India's Information Technology and Knowledge Economy - Concept, Issues, Future Prospects, Outsourcing, Corporate Social Responsibility, India's Foreign Trade - Value, Composition and direction Balance of Payments & New Economic Reforms, Recent Foreign Trade Policy EXIM Policy, Special Economic Zones in India - Status, Benefits and Arguments, Foreign Capital and Aid- MNCs, FDIs, GATT, WTO, Indian Exchange Rate Policy, Foreign Exchange Reserves, Capital Account Convertibility, FERA and FEMA, Black Economy in India - Causes, Estimation Methods, Consequences, Recent Government Measures to Curb Black Money in India, Demonetisation, Benami Transactions (Prohibition) Amendment Act, 2016, DTAA, Task force on Shell Companies	

12.	Lecture 63-72	Indian Financial System - Money and Capital markets in India, Commercial Banking System - An Overview, Progress of Banking in India, Banking Sector Reforms, Narasimhan Committee Report, Recent Financial Inclusion and its Appraisal, Price and Inflation Trends - Factors or Demand side and supply side, Inflation Targetting - Urjit Patel Committee, RBI and Monetary Management Report, Indian Tax Structure & Tax Reforms since 1991- GST, Trends and issues of Public Revenue and Expenditure of Central Government in India, India's Public Debt Management - An Assessment, Union Budget, India's Fiscal Policy - Fiscal Responsibility Deficit Financing in India, Federal Finance in India - Centre-State Financial Relations, Cooperative Federalism, Finance Commissions - Thirteenth and Fourteenth Finance Commissions- Working and Evaluation	
13.	Lecture 73-81	Infrastructure and Economic Development - Social & Economic Infrastructure Conventional and Non-Conventional Energy Sources, Transport and Development - Railways, Road, Water and Air Transport, Civil Aviation Communication System, Urban Infrastructure Science and Technology, Economic Planning in India - Rationale, Features, New Development Strategy, Review of Planning Experience in India - Eleventh & Twelfth Five Year Plans in India - An Appraisal, NITI Ayog Regional Planning - Regional Imbalance and Measures to Bridge inter state gaps	
14.	Lecture 82-86	Industrial Policy, Public Sector Enterprises and their performance, Problem of sick units in India, Privatisation and disinvestment debate, Growth and pattern of industrialisation, Small-scale sector, Productivity in industrial sector, Exit policy - issues in labour market reforms, Approaches for	

		employment generation, Pattern of Services sector growth	
15.	Lecture 87-91	Analysis of price behaviour in India, Financial Sector reforms, Interest rate policy, review of monetary policy of RBI; Money and capital markets, Working of SEBI in India	
16.	Lecture 92-96	Rationale of internal and external reforms, Globalisation of Indian economy, W.T.O. and its impact on the different sectors of the economy, Need for and issues in good governance, Issues in competition and safety nets in Indian economy, Cooperative federation and inter-state development in India	
17.	Revision/Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

[Lesson Plan: [2022-23] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper – Macroeconomics]

[Paper – 1]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Name of faculty involved in delivering the course – Prof. Vandana Dwivedi

S. No.	LECTURE No.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	**National Income and Accounts:** Circular Flow of Income in Two-Three and four- sector economy, different forms of National Income Accounting- Social accounting, input-output accounting, Flow of Funds accounting and balance of Payments accounting.	Lectures delivered in the language comfortable to the students. (Hindi and English mix)
2.	Lecture 10-19	**Consumption Function:** Keynes' Psychological law of consumption- implications of the law, short-run and long run consumption function, Empirical evidence on consumption function, Income-consumption relationship- absolute income,	Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics.
3.	Revision/ Tutorial		
4.	Class Quiz		

5.	Lecture 20-29	Relative income, Life cycle and permanent income hypothesis. **Investment Function:** Marginal efficiency of investment and level of investment, Marginal efficiency of capital and investment – long run and short run, The accelerator and investment behavior- impact of inflation, influence of policy measures on investment- empirical evidence.	Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before. Quizzes conducted. **<u>Book suggested-</u>** Advanced Macroeconomic Theory – H. L. Ahuja Macroeconomic Analysis – E. Shapiro Macro Economic theory– M. L. Jhingan Macroeconomics: Theory and Policy – G. Ackley Contemporary Macroeconomic Theory and Policy – R.
6.	Lecture 30-35	**Supply of Money:** Financial intermediation- a mechanistic model of bank deposit determination, A Behavioural model of money supply determination, a demand determined money supply process, RBI approach to money supply	
7.	Test		
8.	Lecture 36-45	High powered money and money multiplier, budget deficits and money supply, control of money supply.	
9.	Lecture 46-51	**Demand for Money:** Classical approach to demand for money- Quantity theory approach , Fisher's equation, Cambridge Quantity theory,	
10.	Micro Teaching by students		
11.	Lecture 52-	Keynes's Liquidity Preference	

	62	approach, transaction, precautionary and speculative demand for money aggregate demand for money, Derivation of LM curve.	Jha Macroeconomics and The Real World – R. Blackhouse and A. Salasi Macroeconomic Theory and Policy – W.A. Branson
12.	Lecture 63-72	**Neo-classical and Keynesian Synthesis:** Neo-classical and Keynesian views on interest, The IS-LM model, Extension of IS-LM model with government sector, Relative effectiveness of monetary and fiscal policies, Extension of IS-LM model with labour market and flexible prices.	
13.	Lecture 73-81	**Post-Keynesian Demand for Money:** Post-Keynesian approaches to demand for money-Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin	
14.	Lecture 82-86	Friedman and the modern Quantity theory, Crisis in Keynesian economics and the revival of monetarism.	
15.	Lecture 87-91	**Theory of Inflation and Business Cycles:** Classical, Keynesian and Monetarist Approaches to Inflation, Structuralist theory of Inflation, Philips curve analysis-short run and long run Philips curve, Samuelson and Solow- The natural rate of unemployment hypothesis	
16.	Lecture 92-96	Tobin's modified Philips curve, Adaptive expectations and rational expectations, Policies to control inflation, Theories of Schumpeter,	

		Kaldor, Samuelson and Hicks, Control of Business cycles- relative efficacy of monetary and fiscal policies.	
17.	Revision/ Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

Lesson plan (2022-2023)

Name 0f course- M.A. (Final)

SUBJECT – ECONOMICS

PAPER-2

PAPER – Public Finance And Policy

(LECTURE DURATION – 60 MINS)

MODE-OFFLINE

Name of the faculty involved in delivering the course – Dr. Alka Asthana

S.NO.	LECTURE NO.	LECTURE COVERED	TEACHING PEDAGOGY
1.	Lecture 1-5	Role of Govt. in organized society; changing perspective- Govt. in a mixed economy, public and private sector. Cooperation or competition;	Lectures delivered in the class in both Hindi and English language for better understanding . Chalk and board method must use most of the time, presentation delivered through powerpoint. Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited
2.	Lecture 6-10	Govt. as an agent for economic development' private goods ,public goods and merit goods. Market failure- imperfection, decreasing costs, externalities, public goods.	
3	Lecture 11-20	Allocation of resources- provision of public goods ;voluntary exchange models; Impossibility of decentralized provision of public goods(contribution of Samuelson and Musgrave);	
4	Lecture 21-30	Stabilization Policy; social goals; distributional and regional equalities .Wagner's Law of increasing state activities; Wiseman- Peacock Hypothesis; pure theory of public expenditure. Structure and growth of public expenditure;	
5	Lecture 31-35	Social cost --benefit analysis; project evaluation, estimation of costs, discount rate, reforms in expenditure budgeting; programme budgeting and zero base budgeting.	

6.	Lecture 36-42	Theory of Incidence; Alternative concepts of Incidence- Allocation and equity aspects of individual taxes, benefit and ability to pay approaches, theory of optimal taxation, excess burden of taxes, trade of between equity and efficiency; the problem of double taxation.	from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the NPTEL lectures available online for understanding the advanced topics and also to go through the open access,ebook topology without tears by Sydney A Morris . Students feedback is taken in form of question answer sessions. Then there is revision and doubt clearance class. There is continuous evaluation in form of interactive session, quizzes and assignments.
7	Lecture 43-50	Classical View of public debt; compensatory aspect of debt policy, burden of public debt, source of public debt, debt through created money, public borrowing and price level; crowding out private investment and activity; principle of debt management and repayment.	
8.	Lecture 51-60	Objectives of fiscal policy- full employment, anti-inflation, economic growth, redistribution of income and wealth; interdependence of fiscal and monetary policies. Budgetary deficit and its implications.	
9.	Lecture 61-65	Fiscal policy for stabilization- automatic vs. discretionary stabilization; alternative measure of resource mobilization and their impact on growth; distribution and prices, balanced budget multiplier.	
10.	Lecture 66-71	.Fiscal Federalism in India; vertical and horizontal imbalance; assignment of function and sources of revenue; constitutional provision, finance commission and planning commission; devolution of resources and grants; states resources	
11.	Lecture 72-80	Theory of grants, Resource transfer from union of states- criteria for transfer of resources; centre- state financial relation in India, problems of states resources and indebtedness, transfer from union and states to local bodies.	

12.	Lecture 81-85	Indian tax system, revenue of the union, states and the local bodies.	
13.	Lecture 86-90	Major taxes in India , base of taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes.	
14.	Lecture 91-95	GST as major indirect reform, taxes on services, non tax revenue of centre, state and local bodies.	
15.	Lecture 96-103	Trends in public expenditure ,public revenue and public debt, fiscal sector reforms in India, Strategy of union budget.	

Lesson Plan: [2022 -23]

[Name of course M.A.(F) Economics

[Subject-Economics]

[Paper-3]

[Population Studies and Manpower Planning]

[Lecture duration 60 mins]

[Syllabus Yearly]

[Mode Offline]

[Max marks- 100]

Names of faculty involved in delivering the course-Lalit Kumar Maurya

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1.	Lecture 1- 5	Meaning and scope of demography; components of population growth and their inter-dependence;	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious theorem or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2.	Lecture 6- 10	Measures of population change; Structure, distribution and sources of population data;	
3.	Lecture 11- 15	Theories of population - Malthus, Optimum theory of population; Theory of demographic transition- views of Medows, Enke and Simon; Population and development	
4.	Revision/ Tutorial		
5.	Lecture 16- 20	Population trends in the twentieth century; Population explosion- Threatened or real, distant or imminent;	
6.	Class quiz		
7.	Lecture 21- 25	International aspects of population growth and distribution; Pattern of age and sex structure in developed and less developed countries;	

8.	Lecture 26- 30	determinants of age and sex structure; Demographic effects of sex and age structure, Economic and social implications; age pyramids and projections- individual aging and population aging.	
9.	Lecture 31- 35	Importance of study of fertility- Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries;	
10.	Revision/ Tutorial		
11.	Class quiz		
12.	Lecture 36- 40	Factors affecting fertility Socio-economic and cultural determinants. Mortality- Death rates, crude and age-specific; Mortality at birth and infant mortality rate;	
13.	Lecture 41- 45	Levels and trends in developed and less developed countries; Sex and age pattern of mortality. Life table- Construction and uses; Stationary and stable population; Methods of population projection.	
14.	Mid term exam		
15.	Lecture 46- 50	Concept and types- Temporary, internal and international; International migration effect on population growth and pattern; Factors affecting migration;	
16.	Revision/		

	Tutorial		
17.	Class quiz		
18.	Lecture 51- 55	theories of migration related to internal migration; Urbanization growth and distribution of rural-urban population in developed and developing countries.	
19.	Lecture 56- 60	Population, economy and environment linkages- Population, health, nutrition, productivity nexus; Population and human development issues;	
20.	Micro teaching by students		
21.	Lecture 61- 65	culture and fertility; education and fertility, demography and household economic behaviour. Major sources of population and demographic data, Population policy in India	
22.	Lecture 66- 70	Inter relationship between Population, Manpower and development; Concept of Manpower; relationship between Population, education Manpower and Economic planning	
23.	Lecture 71- 75	Gender and Development: Concept of Manpower supply and manpower demand. Forecasting Manpower.	
24.	Revision/ Tutorial		
25.	Class quiz		
26.	Dispersal of class		

Lesson Plan: [2022-2023] [Annual Course]

[Name of Course: M.A – Final Economics]

[Subject – Economics]

[Paper –Indian Economy]

[Paper- Optional III]

[Lecture Duration – 60 mins]

[Annual Syllabus]

[Mode: Offline]

Names of faculty involved in delivering the course- Dr. Vivek Singh

S.NO.	LECTURE NO.	TOPIC COVERED	TEACHING PEDAGOGY
1.	Lecture 1-9	India as a developing economy- Basic characteristics, Determinants, Capital formation, Policy Directions, Challenges to Inclusive Growth, Natural Resources and Economic Development Land, Water, Mineral, Forest Resources, Fisheries, Soil Erosion, Resource Management and related Policy Planning, Resource use, Management and Sustainability issues, Occupational structure- Historical Experience of Structural change, Changing Profile of GDP, Employment and Productivity, Workforce Participation Rates in India	Lectures delivered in the language comfortable to the students (Hindi and English mix) Chalk and board method is used most of the time. Interactive teaching is preferred including group discussions before the start of some topics. Students are invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion are allotted a day or two before.

2.	Lecture 10-19	National Income and Poverty- Macroeconomic Overview, Pattern of income distribution across states, Services Lead Growth, Poverty Line- Concept, Incidence, Multi-dimensional Poverty. Safety Nets in Rural Sector Policy Planning and Strategies for Poverty Alleviation Programmes, Employment and Unemployment Trends Nature and Estimates, Causes of Unemployment, Major Employment Programmes and their Implementation, Skill India Mission.	Quizzes conducted <u>Books suggested</u> – P.K. Bardhan, (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi R.S. Bawa, and P.S. Raikhy (Ed.) (1997), Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar

3.	Revision/ Tutorial		S. Chakravarty, (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi M.L. Dantwala, (1996), Dilemmas of Growth, The Indian Experience, Sage Publications, New Delhi Government of India, Economic survey, (Annual), Ministry of Finance, New Delhi A.K. Jain, (1986), Economic Planning in India, Ashish Publishing House, New Delhi B. Jalan, (1992), The Indian Economy-Problems and Prospects, Viking New Delhi Reserve Bank of India, Report on Currency and Finance (Annual) Datta & Sundaram: Indian Economy Kapila Uma: Indian Economy since Independence, Academic Foundation, New Delhi A.N. Agrawal & M.K. Agrawal, Indian Economy, New Age Publication, New Delhi Report of Kelkar Task Force on Indirect Taxation in India KS. Parikh, (1999), India Development Report 1999-2000, Oxford University Press, New Delhi
4.	Class Quiz		
5.	Lecture 20-29	Economic Growth and Human Development - Components, Human Development Index, Physical Quality of Life Index, Gender Inequality Index, National Human Development Reports, Inter State Variations, Human Resource Development - Education Policy, Health and Nutrition, Demographic Issues, Changing Characteristics of Population in India, Growth Rates, trend and Regional Variations in sex-ratio, age structure of population, infant and child mortality rates, Maternal mortality rates, Life Expectancy, Demographic dividend, Threat or opportunity, Population policy in India	
6.	Lecture 30-35	Environment and Development - Environmental Degradation, Protection and Sustainable Development, Population-Environment Linkages, Challenges of Climate Change, Urbanisation and suburbanization - Change Environment Policy in India	
7.	Test		
8.	Lecture 36-45	Status and Role of Agriculture - Second Green Revolution, New Thrust Areas, Cropping Pattern, Agricultural Growth, Concerns, Challenges and Priorities, National Agricultural Policy Land Reforms - An Appraisal Co-operative Farming, Agricultural Inputs, Rural Infrastructure, Agricultural Financing - Role of Lending Institutions, Financial Inclusion, Agricultural Insurance, Micro Finance and Self help groups, Agricultural Marketing and Warehousing, Problems and Solution, Government Measures, Agricultural Labour - Conditions and Problems, National Commission on Rural Labour	

		(NCRL) Food Security in India - Targeted Public Distribution System (TPDS), National Food Security Act, Policy Options for Reform, Agricultural prices - Trends, Evaluation of Governments Agricultural Price Policy, Terms of Trade between Agriculture and Industry	
9.	Lecture 46- 51	Industrial Development in India - Performance Appraisal in Eleventh and Twelfth Plan Periods, Major Industries in India, Role and Importance of MSMEs, Industrial Policy Resolutions, Public Sector Enterprises, Role of Disinvestment- A Critique, Unorganised Sector and Informalisation of Indian Economy, Productivity in Industrial Sector, Industrial Sickness in India - Industrial Relations - Related Government Policy, Liberalisation, Privatisation, Globalisation - Impact on Indian Agriculture and Industry	
10.	Micro teaching by students		
11.	Lecture 52-62	Growing contribution of services sector - Services Sector led growth, Employment potential, India's Information Technology and Knowledge Economy - Concept, Issues, Future Prospects, Outsourcing, Corporate Social Responsibility, India's Foreign Trade - Value, Composition and direction Balance of Payments & New Economic Reforms, Recent Foreign Trade Policy EXIM Policy, Special Economic Zones in India - Status, Benefits and Arguments, Foreign Capital and Aid- MNCs, FDIs, GATT, WTO, Indian Exchange Rate Policy, Foreign Exchange Reserves, Capital Account Convertibility, FERA and FEMA, Black Economy in India - Causes, Estimation Methods, Consequences, Recent Government Measures to Curb Black Money in India, Demonetisation, Benami Transactions (Prohibition) Amendment Act, 2016, DTAA, Task force on Shell Companies	

12.	Lecture 63-72	Indian Financial System - Money and Capital markets in India, Commercial Banking System - An Overview, Progress of Banking in India, Banking Sector Reforms, Narasimhan Committee Report, Recent Financial Inclusion and its Appraisal, Price and Inflation Trends - Factors or Demand side and supply side, Inflation Targetting - Urjit Patel Committee, RBI and Monetary Management Report, Indian Tax Structure & Tax Reforms since 1991- GST, Trends and issues of Public Revenue and Expenditure of Central Government in India, India's Public Debt Management - An Assessment, Union Budget, India's Fiscal Policy - Fiscal Responsibility Deficit Financing in India, Federal Finance in India - Centre-State Financial Relations, Cooperative Federalism, Finance Commissions - Thirteenth and Fourteenth Finance Commissions- Working and Evaluation	
13.	Lecture 73-81	Infrastructure and Economic Development - Social & Economic Infrastructure Conventional and Non-Conventional Energy Sources, Transport and Development - Railways, Road, Water and Air Transport, Civil Aviation Communication System, Urban Infrastructure Science and Technology, Economic Planning in India - Rationale, Features, New Development Strategy, Review of Planning Experience in India - Eleventh & Twelfth Five Year Plans in India - An Appraisal, NITI Ayog Regional Planning - Regional Imbalance and Measures to Bridge inter state gaps	
14.	Lecture 82-86	Industrial Policy, Public Sector Enterprises and their performance, Problem of sick units in India, Privatisation and disinvestment debate, Growth and pattern of industrialisation, Small-scale sector, Productivity in industrial sector, Exit policy - issues in labour market reforms, Approaches for	

		employment generation, Pattern of Services sector growth	
15.	Lecture 87-91	Analysis of price behaviour in India, Financial Sector reforms, Interest rate policy, review of monetary policy of RBI; Money and capital markets, Working of SEBI in India	
16.	Lecture 92-96	Rationale of internal and external reforms, Globalisation of Indian economy, W.T.O. and its impact on the different sectors of the economy, Need for and issues in good governance, Issues in competition and safety nets in Indian economy, Cooperative federation and inter-state development in India	
17.	Revision/Tutorial		
18.	Class Quiz		
19.	Dispersal of Class		

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Lesson Plan: According to New Education Policy

semester 1

Bachelor of Arts Humanities & Social-Sciences

Course code- A050101T

Subject- History (Major & Minor Both)

Paper-Ancient and Early Medieval India (Till 1206 A.D.)

Paper – 1st

Lecture duration 60 mins

Syllabus Semester

[Mode Offline/Online]

[Credits/ Max marks- 06/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Introduction to Ancient History, Eminent Historians of India- Kallhan	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better
2	Lecture 6- 10	Eminent Historians of India such as R.C. Majumdar, Jadunath Sarkar, V.D. Savarkar, K.P. Jaiswal, Histography	
3	Lecture 11- 15	Indian Knowledge System, Short brief History of Pre Historic & proto Historic age.	
4	Revision/ Tutorial		
5	Lecture 16- 20	Indus Valley Civilization	
6	Class quiz		
7	Lecture 21- 25	Vedic and later Vedic period.	
8	Lecture 26- 30	Buddha era & 6B.C.E, Early State formation in South India(sangam era), Rise of Magadh as an Empire,	
9	Lecture 31- 35	Maurya Dynasty- Chandragupt , Bindusar and Ashok the Great , Kautilya and his Arthshastra.	
10	Revision/ Tutorial		
11	Class quiz		

12	Lecture 36- 40	Post Mauryan Era , Gupta Dynasty – Chandragupt , Samudragupt ,	understanding of Microlithic tools, IVC sites, art & culture like Nagar, Dravin, Besar Architecture of various Temples ❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like. ❖ Due to Covid-19 Few Classes will be taken online
13	Lecture 41- 45	Chandragupt 'Vikramaditya' ,Golden Era of Ancient India	
14	Mid term exam		
15	Lecture 46- 50	Post Gupta Era, Age of Harsh Vardhan , Early Medieval era , Rise of Feudalism in India.	
16	Lecture 51- 55	Rise of Rajput States - Pratihar , chalukya, Parmar and Chauhan	
17	Lecture 56- 60	Emergence of Islam	
18	Class Quiz		
19	Lecture 61- 65	Invasion of Meer Qasim , Mahmood of Ghaznabi and Md. Ghori.	
20	Lecture 66- 70	Customs, rituals and beliefs of Hindus	
21	Lecture 71- 75	Culture & Tradition of Ancient Indian History	
22	Lecture 76-80	Revision of PYQs of CSJMU/UPSC/UPPSC	
23	Class quiz		
24	Lecture 80-85	Remedial Classes	

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			through Google Meet.

Lesson Plan: According to New Education Policy

semester 2nd

Bachelor of Arts Humanities & Social-Sciences

Course code- A050201T

Subject- History (Major & Minor Both)

Paper- History of Medieval India (1206 A.D - 1757 A.D)

Paper – 1st

Lecture duration 60 mins

Syllabus Semester

[Mode Offline/Online]

[Credits/ Max marks- 06/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	The Early Turks and The Khiljis:- • Qutubuddin aibak , Iltutmish and their successors. • Their Kingship Theory • Political & Socio-economical scenario of Delhi Sultanate.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication.
2	Lecture 6- 10	The Early Turks and The Khiljis:- • Balban , Alauddin Khilji and their successors. • Their Kingship Theory • Political & Socio-economical scenario of Delhi Sultanate.	
3	Lecture 11- 15	The Tughlaqs and Lodis :-	

		• Muhammad Bin Tughlaq, Firoz Shah Tughlaq, sayyid dynasty, Bahlul lodi, Siqandar Lodi & Imbrahim Lodi. • Their Kingship Theory	❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of Architecture During Medieval era of Indian History ❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.
4	Lecture 16- 17	Revision/ Tutorial	
5	Lecture 18- 24	The Tughlaqs and Lodis :- • Political & Socio-economical scenario of Delhi Sultanate. • Battle of Panipat 1st 1526. • contemporary Other rulers of India.	
6	Lecture 25- 30	The Mughals: Babur and Tuzuk-i-baburi, Struggle of Humayun with Shershah.	
7	Lecture 26- 30	Interlude of Shershah with special reference to Administration and Land revenue system.	
8	Lecture 31- 35	Akbar to Shahjahan • Kingship • Political Expansion	
9	Lecture 36-40	Mansabdari, Relation with Rajpoot and Maharana Pratap, Religious Policy.	
10	Lecture 41	Mid-Sem/ Quiz	
11	Lecture 42-50	Aurangzeb: Rajput, Religious and Deccan policy	
12	Lecture 51- 54	Decline and disintegration of Mughals	
13	Lecture 55-60	Rise of Maratha under Shivaji	
14		Maratha:- • Administration • Revenue system • Concept of Hindu Pad-Padshahi	
15	Lecture 60-64	later Mughal.	
16	Lecture 65-72	Development of Architecture and Painting in Sultanate & Mughal Period.	
17	Lecture 73-75	Development of Sufiism in India,	

18	Lecture 76-85	Development of Bhakti Movement and Re-strengthening in North India.	
19	Lecture 86-90	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	

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Lesson Plan: According to New Education Policy

semester 3rd

Bachelor of Arts Humanities & Social-Sciences

Course code- A050301T

Subject- History (Major & Minor Both)

Paper- History of Modern India(1757 A.D – 1857 A.D)
Paper – 1st

Lecture duration 60 mins

Syllabus Semester

[Mode Offline/Online]

[Credits/ Max marks- 06/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 5	Arrival of European Companies & their struggle with regional dynasties.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of
2	Lecture 6- 10	Rivalry of European Companies for Control.	
3	Lecture 11- 15	Ascendancy of British East India Company : Plassey and Buxar and its Impact.	
4	Lecture 16- 20	Revision/ Tutorial	
5	Lecture 18- 30	Territorial Expansion of East India Company: 1770-1813 • 1st Anglo-Maratha war • 2nd Anglo-Maratha war • 1st , 2nd & 3rd Carnatic war • Subsidiary alliance	
6	Lecture 25-45	Territorial Expansion of East India Company: 1813-1856. • 3rd Anglo-Maratha war • 1st Anglo-Nepal war • 2nd Anglo-Nepal war • Anglo-Sindh war • Doctrine of lapse	
7	Lecture 46-47	Revision	

8	Lecture 48	Mid-Sem/Quiz	Colonial ruling in India ❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.
9	Lecture 49-58	Rise of Punjab under Ranjeet Singh:-- conquests and administration. • 1st Anglo-Sikh war • 2nd Anglo-Sikh war • 3rd Anglo-Sikh war	
10	Lecture 58-69	Rise of Hyderabad and Mysore in 18th century. • 1st Anglo-Mysore war • 2nd Anglo-Mysore war • 3rd Anglo-Mysore war	
11	Lecture 70-77	Land Revenue system during colonial period: • permanent settlement • Raiyatwari settlement • Mahaalwari settlement	
12	Lecture 78-85	Indian Renaissance: Reform and revivals. Leading social reformer Raja Ram Mohan Roy (1772–1833) started the movement in Calcutta in 1828. It battled against Sati, polygamy, the purdah system, child marriage, and other social problems including idolatry, polytheism, caste discrimination, unnecessary rituals, etc	
13	Lecture 86-90	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	

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Lesson Plan: According to New Education Policy semester 4th

Bachelor of Arts Humanities & Social-Sciences

Course code- A050401T

Subject- History (Major & Minor Both)

Paper- History of History of Modern India (1857A.D – 1950 A.D)

Paper – 1st

Lecture duration 60 mins

Syllabus Semester

[Mode Offline/Online]

[Credits/ Max marks- 06/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-12	Lord Lytton , Lord Ripon & their Policies	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of Colonial ruling in India
2	Lecture 13-24	Lord Curzon, Partition of Bengal & Various Policies.	
3	Lecture 25-40	Commercialization of Agriculture and its Impact on India. (During 1813- Onwards)	
4	Lecture 41-42	Revision/ Tutorial	
5	Lecture 43- 50	Development of Railway and its Impact. (1854- Onwards)	
6	Lecture 51	Mid-Sem/Quiz	
7	Lecture 52-60	Development of Education in Colonial India. (Macaulay education policy and it's Empact, Anglo-Oriental Dispute & Various Educational Committees Like Hartog Committee)	
8	Lecture 61-68	Morley-Minto reforms, Govt. of India Act 1919 and 1935.	
9	Lecture 69-75	Rise and Development of Communalism in India.	
10	Lecture 76-85	Mergers of Princely states after Independence and Role of Sardar Vallabh	

		Bhai Patel.	
11	Lecture 86-90	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.

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Lesson Plan: According to New Education Policy semester 5th

Bachelor of Arts Humanities & Social-Sciences

Course code- A050501T

Subject- History (Major)

Paper- Nationalism in India

Paper – 1st

Lecture duration 60 mins

Syllabus Semester

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-10	First war of Independence: Causes, Impact and Nature.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of
2	Lecture 11-20	Factor leading to the growth of Nationalism in India.	
3	Lecture 21-25	Theories of Nationalism : Views of Gandhi and Tagore	
4	Lecture 26-27	Revision/ Tutorial	
5	Lecture 28-33	Early phase: the Ideology, Programme and Policy of Moderates (Dadabhai Naoroji etc)	
6	Lecture 34-43	Extremist phase: Rise and development of Extremist in India. • Safety valve theory • Lala Lajpat rai • Bal Ganagadhar Tilak • Bipan Chandra Pal	
7	Lecture 44	Mid-Sem/Quiz	
8	Lecture 45-53	Swadeshi Movement and Congress split at Surat.	
9	Lecture 54-63	Rise of Muslim League & It's Demands and Programme..	

10	Lecture 64-73	National awakening during First World War: Lucknow Pact and Home rule Movement.	Colonial ruling in India ❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.
11	Lecture 73-75	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	

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Lesson Plan: According to New Education Policy semester 5th

Bachelor of Arts Humanities & Social-Sciences

Course code- A050502T

Subject- History (Major)

Paper- Nationalism in India

Paper – 2nd

Lecture duration 60 mins

Syllabus Semester

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-10	First war of Independence: Causes, Impact and Nature.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of
2	Lecture 11-20	Factor leading to the growth of Nationalism in India.	
3	Lecture 21-25	Theories of Nationalism : Views of Gandhi and Tagore	
4	Lecture 26-27	Revision/ Tutorial	
5	Lecture 28-33	Early phase: the Ideology, Programme and Policy of Moderates (Dadabhai Naoroji etc)	
6	Lecture 34-43	Extremist phase: Rise and development of Extremist in India. • Safety valve theory • Lala Lajpat rai • Bal Ganagadhar Tilak • Bipan Chandra Pal	
7	Lecture 44	Mid-Sem/Quiz	
8	Lecture 45-53	Swadeshi Movement and Congress split at Surat.	
9	Lecture 54-63	Rise of Muslim League & It's Demands and Programme..	

10	Lecture 64-73	National awakening during First World War: Lucknow Pact and Home rule Movement.	Colonial ruling in India ❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.
11	Lecture 73-75	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	

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Lesson Plan: According to New Education Policy semester 5th

Bachelor of Arts Humanities & Social-Sciences

Course code- A050501R

Subject- History (Major)

Paper- Research Methodology, Tour and Study of Maps

Paper – Project

Lecture duration 60 mins

Syllabus Semester

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Meaning, types and significance of Research, Literature review and formulation of research design, research problem, objectives, hypothesis, Research materials and methods, Sampling etc. Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords etc. all the steps and methods for preparing Tour report.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.

Lesson Plan: According to New Education Policy semester 6th

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Bachelor of Arts Humanities & Social-Sciences

Course code- A050601T

Subject- History (Major)

Paper- Era of Gandhi and Mass Movement.
Paper – 1st

Lecture duration 60 mins

Syllabus Semester

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-10	Entry of Gandhi and The Non Co-operation Movement.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of Colonial ruling in India ❖ Interactive teaching
2	Lecture 11-20	Rise of Revolutionary Movement in India with special reference to HRA, HSRA and Trial of Bhagat Singh.	
3	Lecture 21-30	Rise of Revolutionary Movement outside India with special reference to Gadar Party.	
4	Lecture 31-40	Simon commission, Nehru report, The Civil Disobedience Movement.	
5	Lecture 41-49	The Quit India Movement.	
6	Lecture 50	Revision	
7	Lecture 51	Mid-Sem/Quiz	
8	Lecture 52-57	Constitutional Crisis : Cripps and Cabinet Mission.	
9	Lecture 58-66	Subhas Chandra Bose and Indian National Army.	
10	Lecture 67-73	Mountbatten Plan, Partition and Independence.	
11	Lecture 74-75	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	

			preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.

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Lesson Plan: According to New Education Policy semester 6th

Bachelor of Arts Humanities & Social-Sciences

Course code- A050602T

Subject- History (Major)

Paper- History of Modern world (1815A.D- 1945A.D)
Paper – 2nd

Lecture duration 60 mins

Syllabus Semester

[Mode Offline]

[Credits/ Max marks- 05/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-10	Unification of Germany and Italy.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Few classes are delivered through PowerPoint Presentation specially for better understanding of Colonial ruling in India
2	Lecture 11-20	Causes leading to First world war.	
3	Lecture 21-30	Paris Peace Convention and treaty of Versailles.	
4	Lecture 31-35	League of Nations: Organization, Achievements and Failure.	
5	Lecture 36-45	Rise of Communism in Russia: The Bolshevik Revolution.	
6	Lecture 46-49	Rise of Dictatorship of Mussolini	
7	Lecture 50	Revision	
8	Lecture 51	Mid-Sem/Quiz	
9	Lecture 52-55	Rise of Dictatorship of Hitler.	
10	Lecture 56-65	United states in world affairs : Economic Depression and New Deal policy of F.D.Roosevelt.	
11	Lecture 66-72	Factor leading for Second World War and U.N.O.	
12	Lecture 66-75	Remedial Classes/ Revision of PYQs of CSJMU/UPSC/UPPSC	

			❖ Interactive teaching preferred including group discussions before the start Like some Ideological concepts which are related for better understanding & Interdisciplinary knowledge of various Humanitarian Sujects. ❖ Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.

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Lesson Plan: According to New Education Policy semester 6th

Bachelor of Arts Humanities & Social-Sciences

Course code- A050602R

Subject- History (Major)

Paper- Study of Languages used in Indian History
Paper – Project

Lecture duration 60 mins

Syllabus Semester

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Mr. Mohit Awasthi

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1-5	Meaning, types and significance of Historical Languages, Literature review and formulation of research design of the language. Techniques of writing and reading of the selected language.	❖ Lectures delivered bilingualy comfortable to the students (Hindi and English mix) ❖ Chalk and board method used most of the time & use of map/globe for better understanding of Present-Past Communication. ❖ Also providing the pdf handouts eGyankosh of IGNOU like.

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Mr. Mohit Awasthi	**Prof. Abha Singh**	**Prof. Suman Singh**	**Prof. AnoopKumar Singh**
Guest Faculty	**Convenor**	**Convenor**	**Principal**
History Department	**IQAC**	**NAAC**	**P.P.N. P.G. College**

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Lesson Plan: [2022-23] [semester 1]

[Name of course BBA / Bachelor Of Business Administration

[Course code-F010102T]

[Subject- Business Statistics]

[Paper – 2(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. POOJA VIDYARTHEE

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 6	Introduction: Concept, features, significance & limitations of statistics, Types of data, Classification & Tabulation, Frequency distribution & graphical representation.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious Business Statistics formula or topic. Students invited from time to time to come on board to
2	Lecture 7- 12	Measures of Central Tendency (Mean, Median, Mode), Measures of Variation (Range, Quartile Deviation, Mean Deviation and Standard Deviation),	
3	Lecture 13-17	Significance & properties of a good measure of variation, Measures of Skewness & Kurtosis.	

4	Lecture 18-25	Correlation and Regression: Meaning and Types of Correlation, simple correlation, Scatter diagram method, Karl Pearson's Coefficient of correlation, Significance of correlation, Regression concept, Regression concept, Regression equations and Regression coefficient.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook .SPSS Software. Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1 Agarwal B.D., Advanced Accounting 2. Chawla & Jain, Financial Accounting 3. Chakrawarti K.S., Advanced Accounts. 4. Gupta R.L. & Radhaswamy, Fundamentals of Accounting 5. Jain & Narang, Advanced Accounts
5	Lecture 26-31	Probability: Concept, Events, Addition Law, Conditional Probability, Multiplication Law & Introduction to Bayes' theorem [Simple numerical].	
6	Lecture 32-38	Introduction to Probability Distribution: Binomial, Poisson and Normal. Sampling: Method of sampling, Sampling and non-sampling errors, Introduction to Test of hypothesis, Type-I and Type-II Errors, Large sample tests. Introduction to MS Excel and its use in Business statistics.	
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 3rd]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010302T]

[Subject- Production Management]

[Paper – 8(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. POOJA VIDYARTHEE

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 4	Introduction to Production Management: History of Production Management; Definitions of Production Management;	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some topics. Students invited from time to time to come on presentation to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced
2	Lecture 5-10	Production Process; Production: The Heart of an Organization; Objectives of Production Management; Scope of Production Management; Importance of Technology in Production	
2	Lecture 11-15	Concept of Forecasting: Purpose of Sales Forecasting, Basic Elements of Forecasting, Importance of Forecasting,	
4	Lecture 16-20	Objectives of Forecasting, Classification of Forecasting ; Qualitative and Quantitative Techniques of Forecasting	

3	Lecture 21-26	Product Selection; Definitions of Product Design and Development: Need for Product Design and Development,	topics and also to go through the open access ebook .
6	Lecture 27-32	Origin of the Product Idea and Selection from Various Alternatives, Choosing among Alternative Products, Modifying the Existing Products, Sources of Product	Suggested Continuous, Evaluation Methods: In the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1-Production Management by Telsang Martand S Chand Publication 2-Production And Operations Management By S. N. Chary
7	Lecture 33-41	Nature of Production Planning and Control (PPC): Types of Plans, Elements of Production Planning, Strategy of Production Planning, Aggregate Planning; Main Functions of Production Planning and Control (PPC)	
7	Revision/ Tutorial/ presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 3rd]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010303T]

[Subject- Business Communication]

[Paper – 9(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. POOJA VIDYARTHEE

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 4	Introduction: Meaning and objective of Business communication,	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for
2	Lecture 5-10	Forms of Communication, Communication model and process, Principles of Effective Communication	
3	Lecture 11-15	Corporate Communication: Formal and Informal Communication, Networks, Grapevine,	
4	Lecture 16-20	Barriers in Communication, Groups discussion, Mock Interviews, Seminars, Individual and Group Presentations	

5	Lecture 21-26	Essential of effective Business letters, Writing Important Business letters including correspondence with Bank and Insurance companies;	understanding the advanced topics and also to go through the open access ebook . Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1- Bapat & Davar, A Text book of Business Correspondence 2. Bhende D.S., Business Communication 3. David Berio, The Process of Communication 4. Gowd & Dixit, Advance Commercial Correspondence 5. Gurky J.M., A Reader in Human Communication
6	Lecture 27-34	Oral & Nonverbal communication: Principles of Oral Presentation, Factors affecting Presentation, effective Presentation skills, conducting Surveys; Body Language, Para Language, Effective Listening, Interviewing skill, Writing Resume, Letter and Application;	
7	Lecture 35-40	Modern forms of communication, International communication, Cultural sensitiveness and cultural context, Writing and presenting in international situations	
7	Revision/ Tutorial/ presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 5th]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010501T]

[Subject- Marketing Communication]

[Paper – 13(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. POOJA VIDYARTHEE

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 4	Marketing Communication: Meaning and its objectives, Integrated Marketing Communication (IMC): concepts and process, IMC promotion Mix,	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 5-10	Advertising - Meaning, objectives its role and functions, Classification of advertising, economic, social and ethical issues in advertising, DAGMAR approach, STP strategies in advertising, Advertising Agencies,,	
3	Lecture 11-15	Process in Advertising: Consumer and mental process in buying, AIDA model, Hierarchy of effects model, Information processing model,	

4	Lecture 16-20	Advertising Budget – Top down and Build up approach, methods of advertising – Affordable method, arbitrary allocation method, percentage of sales method, competitive parity method, Objective and Task method.	Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook . Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning Books suggested- 1. George E Belch & Michael A Belch: Advertising and promotion- An integrated Marketing Communication Perspective- McGraw Hill Education 2. Chunawala & Sethia : Foundations of Advertising Theory & Practice; Himalaya Publishing House 3. Copley Paul: Marketing Communications Management Concepts & theories, Cases and Practices; Butterworth Heinemann Publication. 4. Aaker, David A. et al., Advertising Management, PHI
5	Lecture 21-26	Advertising Creativity: Meaning of creativity, Creative strategy, Creative tactics, Advertising Appeals, USP theory of creativity,	
6	Lecture 27-34	Copywriting: Meaning and Definition of Copywriting, The Copywriter, Copywriting for Print, Copywriting guidelines, Radio Copywriting, TV Copywriting, Writing for the Web, Tips for writing good web content.	
7	Lecture 35-43	Media Planning and Strategy: Media Types and their characteristics; Setting Media objectives; Steps involved in media planning, evaluation of media, media scheduling strategy, Evaluation of advertising effectiveness – need and purpose of evaluation, pre-testing and post testing techniques, Advertising research, decision areas in international advertising.	
7	Revision/ Tutorial/ presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 1]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010101T]

[Subject- Basic Accounting]

[Paper – 1(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. Lavlesh Kumar Srivastava

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 6	Introduction: Meaning and process of accounting, Basic terminology of accounting, Difference between accounting & book keeping. Importance & limitations of accounting, Various users of accounting information, Accounting Principles: Conventions & Concepts.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious basic accounts format and formula or Topic Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook .
2	Lecture 7- 14	Accounting equation, Dual aspect of accounting, Types of accounts, Rules of debit & credit, Preparation of Journal and Cash book including banking transactions, Ledger and Trial balance, Subsidiary books of accounts.	
3	Lecture 15-21	Rectification of errors, Preparation of bank reconciliation statement, Bills of exchange and promissory notes.	

4	Lecture 22-30	Valuation of stocks, Accounting treatment of depreciation, Reserves and provisions, Preparation of final accounts along with adjustment entries.	Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1 Agarwal B.D., Advanced Accounting 2. Chawla & Jain, Financial Accounting 3. Gupta R.L. & Radhaswamy, Fundamentals of Accounting 4. Jain & Narang, Advanced Accounts
5	Lecture 31-38	Correlation and Regression: Meaning and Types of Correlation, simple correlation, Scatter diagram method, Karl Pearson's Coefficient of correlation, Significance of correlation, Regression concept, Regression concept, Regression equations and Regression coefficient.	
6	Lecture 26-31	Probability: Concept, Events, Addition Law, Conditional Probability, Multiplication Law & Introduction to Bayes' theorem [Simple numerical].	
7	Lecture 32-38	Introduction to Probability Distribution: Binomial, Poisson and Normal. Sampling: Method of sampling, Sampling and non-sampling errors, Introduction to Test of hypothesis, Type-I and Type-II Errors, Large sample tests. Introduction to MS Excel and its use in Business statistics.	
8	Revision/ Tutorial/ presentation		
9	Assignment		
10	Class test		

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Lesson Plan: [2022-23] [semester 3]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010301T]

[Subject- Management & Cost Accounting]

[Paper – 7(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. Lavlesh Kumar Srivastava

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 10	Management Accounting- purpose, nature and focus on decision making. Income statement and Balance Sheet of a manufacturer, Classification of costs by behavior, traceability , controllability, relevance and function. Cost concepts for service companies. Manufacturing Management principles- TQM, JIT, Theory of constraints and continuous improvement.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious basic accounts format and formula or Topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before.
2	Lecture 11-19	Manufacturing and Job order Cost Accounting: Flow of manufacturing activities. Cost Accounting system using perpetual inventory system Job Order Cost accounting , Job order cost sheet , Adjusting over applied and under applied overhead, multiple overhead application rates Process cost accounting: Organisation of process operations , Equivalent Units	

		of production, Process cost summary,	Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook . Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1 Agarwal B.D., Management And Cost Accounting 2. Chawla & Jain, Financial Accounting 3. Gupta R.L. & Radhaswamy, Fundamentals of Accounting 4. Jain & Narang, Cost Accounts
3	Lecture 20-30	Cost- Volume – Profit Analysis: Identifying cost behavior- fixed, variable, mixed costs, step-wise Costs and their determination. Break-Even Analysis, Sensitivity analysis, computing multiproduct B.E.P	
4	Lecture 31-38	Budgeting process imperatives for analysis, focus , evaluation, employee motivation and communication. Master budget components – operating budgets , capital expenditure budget and financial budgets , flexible budgets and standard costs, computing labour, material and overhead variances Managerial decisions in addition or deletion of product./department , make or buy, sell or process, selecting sales mix using relevant costs.	
5	Revision/ Tutorial/ presentation		
6	Assignment		
7	Class test		

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Lesson Plan: [2022-23] [semester 5]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010501T]

[Subject- Income Tax]

[Paper –13(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. Lavlesh Kumar Srivastava

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 8	Indian Income Tax Act, 1961: Basic Concepts - Income, Agriculture Income, Casual Income, Assessment Year, Previous Year, Gross Total Income, Total Income, Person, Tax Evasion, Tax Avoidance.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time Presentation delivered through PowerPoint or Beamer in the topics of relevance.
2	Lecture 9-15	Basis of Charge: Scope of Total Income, Residence and Tax Liability, Income which does not form part of Total Income.	Interactive teaching preferred including group discussions before the start of some tedious basic accounts format and formula or Topic. Students invited from time to time to come on board to

3	Lecture 16-23	Heads of Income: Income from Salaries, Income from House Property.	enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook . Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1 . Dr.H C Mehrotra , Income Tax ,2.Chawla & Jain, Financial Accounting 3. Gupta R.L. & Radhaswamy, Fundamentals of Accounting 4. Jain & Narang, Cost Accounts
4	Lecture 24-31	Profit and Gains of Business or Profession, Capital Gains, Income from other sources.	
5	Lecture 32-38	Aggregation of Income, Set off and Carry forward of losses, deductions from gross total Income, Computation of total Income and Tax liability.	
6	Assignment		
7	Revision/ Tutorial/ presentation		
	Assignment		
	Class test		

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Lesson Plan: [2022-23] [semester 5]

[Name of course BBA / Bachelor Of Business Administration

[Course code F010503T]

[Subject- Company Accounts]

[Paper – 15 (B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. Lavlesh Kumar Srivastava

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 9	Joint Stock Companies: Its types and share capital, Issue, Forfeiture and Re-issue of shares, Redemption of preference shares, Issue and Redemption of Debenture.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious basic accounts format and formula or Topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the
2	Lecture 10-18	Final Accounts: Including Computation of managerial Remuneration and disposal of profit..	

3	Lecture 19-28	Accounting for Amalgamation of companies as per Accounting Standard 14, Accounting for Internal reconstruction, Liquidation of Company.	open access ebook . Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1 . Dr.S.N Shukla company accounts ,2.Chawla & Jain, Financial Accounting 3. Gupta R.L. & Radhaswamy, Fundamentals of Accounting 4. Jain & Narang, Cost Accounts
4	Lecture 29-38	Consolidated Balance Sheet of Holding Companies with one Subsidiary only, Statement of Affairs and Deficiency/Surplus, Receivers Receipt and Payment A/c.	
5	Assignment		
6	Revision/ Tutorial/ presentation		
	Assignment		
	Class test		

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Lesson Plan: [2022-23] [semester 1]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010102T]

[Subject- Principles of Management]

[Paper – 2(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. VIVASWAN SINGH

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 10	Introduction: Concepts, objectives, nature, scope and significance of management, Contribution of Taylor, Weber and Fayol in management, Management Vs. administration..	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced
2	Lecture 11-21	Planning: Concept, objectives, nature, importance and limitations of planning, planning process Concept of Decision Making and its Importance, forms, techniques and process.	
3	Lecture 22-30	Organizing: Concept, objectives, nature of organizing, Types of Organization, Delegation of authority, Authority and responsibility, Centralization and Decentralization, Span of Control..	

4	Lecture 31-42	Directing: Concept, principles & aspects of directing, Concept and types of Coordination, Concept of leadership, Supervision, Motivation and Communication. Controlling: Concept, Principles, Process and Techniques of Controlling, Relationship between planning and controlling	topics and also to go through the open access ebook . Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1. Pagare Dinkar, Principles of Management 2. Prasad L.M., Principles and Practice of Management
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 3]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010303T]

[Subject- Business Environment]

[Paper – 9(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. VIVASWAN SINGH

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 10	Introduction: Concept, Significance and Components of Business environment, Factor affecting Business Environment, Micro and Macroenvironment.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious. Students invited from time to time to come on board to enhance their understanding and
2	Lecture 11-21	Economic Systems: Capitalism, Socialism, Communism, Mixed EconomyPublic Sector & Private Sector.	
3	Lecture 22-30	Industrial Policy-B r i ef historical perspective; New industrial policy ofIndia, Socio-economic implications of Liberalization, Privatization and Globalization.	

4	Lecture 31-42	Role of Government in Regulation and Development of Business; Monetary and Fiscal Policy; EXIM Policy, FEMA; Overview of International Business Environment, Trends in World Trade: WTO-Objectives and role in international trade.	presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook .. Books suggested- 1. Francis Cherunilum, Business Environment 2. K. Aswathapa, Business Environment
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 5]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010102T]

[Subject- Sales management]

[Paper –14(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Dr. VIVASWAN SINGH

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 10	Introduction to Sales Management: Concept, Evolution of sales function, Objectives of sales management positions, Functions of Sales manager and their relation with other executives.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Presentation delivered through PowerPoint or Beamer in the topics of relevance. Interactive teaching preferred including group discussions before the start of some tedious. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook .
2	Lecture 11-21	Salesmanship: Theories of personal selling, Types of Sales executives, Qualities of sales executives, Personal selling process, Showroom &exhibition,	
3	Lecture 22-30	Sales Organization and Relationship: Purpose of sales organization, Types of sales organization structures, Sales department external relations, Distributive network relations. Sales Force Management: Recruitment and Selection, Sales Training, Sales Compensation.	

4	Lecture 31-42	Distribution Network Management: Types of Marketing Channels, Factors affecting the choice of channel, Types of middleman and their characteristics, Concept of physical distribution system	Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1. Cundiff, Still, Govoni, Sales Management 2. Pradhan, Jakate, Mali, Salesmanship & Publicity 3. S.A. Chunawalla, Sales Management
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 1]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010103T]

[Subject- Business Ethics and Governance]

[Paper – 3(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Mr. ASHISH TIWARI

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 9	Introduction: Concept and nature of ethics; ethics, values and behavior; development of ethics, relevance of ethics and values in business, Arguments against business ethics.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Interactive teaching preferred including group discussions before the start of some tedious Business Statistics formula or topic. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion
2	Lecture 10- 19	Work life in Indian Philosophy: Indian ethos for work life, Indian values for the work place, Work-life balance, Ethos of Vedanta in management, Hierarchism as an organizational value.	
3	Lecture 20-32	Relationship between Ethics & Corporate Excellence, Corporate Mission Statement, Code of Ethics, Organizational Culture, TQM. Gandhian Philosophy of Wealth Management, Philosophy of Trusteeship, Gandhi's Seven Greatest Social Sins, Concept of knowledge management and wisdom management.	

4	Lecture 33-40	Corporate Social Responsibility-Social Responsibility of business with respect to different stakeholders, Arguments for and against Social responsibility of business, Social Audit.	allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook. Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1 Dr. F.C. Sharma 2- Chakraborty S.K. Human values for managers
5	Revision/ Tutorial/Presentation		
6	Assignment		
7	Class test		

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Lesson Plan: [2022-23] [semester 3rd]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010302T]

[Subject- Business Policy]

[Paper – 8(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Mr. ASHISH TIWARI

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 7	Business Policy as a field of study- objectives in knowledge, skills and attitudes. Top management functions, roles and responsibilities. The concept of strategy- meaning and importance.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Interactive teaching preferred including group discussions before the start of some topics. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook.
	Lecture 8-12	Deducing strategy and articulating a summary statement of strategy. Strategic Intent: Vision, mission, business definition. Strategic and financial objectives. Components of strategic formulation process.	
2	Lecture 13-23	Analysis of External environment – PESTLE Industry analysis using Porter's model, Analysis of competitive environment, ETOP Analysis of Internal capability: Functional, PLC and Value Chain approach to	

		Internal analysis, Mckinsey's 7S framework, Resource audit SWOT analysis Relevance of social responsibility and power politics in strategy formulation	Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. Books suggested- 1 Gluek & Jaunch, Corporate Strategy 2- Dr. Hemant Kumar Shrotriya
3	Lecture 24-34	Business Strategies and Corporate strategies. External Vs. Internal growth options, their conditions and prerequisites. Five Generic Competitive strategies business strategies Growth strategies- concentration, concentric, horizontal, vertical, Retrenchment-turnaround, divestment and liquidation strategies Modes of entering foreign markets, Multi-domestic and global strategy	
4	Lecture 35-44	Strategic Choice: Concept of Portfolio balance, Display matrices – BCG, Directional policy, GE etc. Factors contributing to business Strength as well as industry attractiveness.	
5	Revision/ Tutorial/Presentation		
6	Assignment		
7	Class test		

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Lesson Plan: [2022-23] [semester 5th]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010502T]

[Subject- Entrepreneurship and small business management]

[Paper – 14(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Mr. ASHISH TIWARI

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 7	Entrepreneurship: Concept, Role & Importance in Indian Economy, Theories of Entrepreneurship, Entrepreneurs – Evolution of concept,	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Interactive teaching preferred including group discussions. Students invited from time to time to come on board to enhance their understanding Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook. Suggested Continuous Evaluation Methods: In addition
	Lecture 8-12	Types of entrepreneurs, traits of entrepreneur, entrepreneurs Vs managers, Entrepreneurs, problems faced by entrepreneurs, Women Entrepreneurs, Rural Entrepreneurs	
	Lecture 13-22	Entrepreneurial Development and Institutional Support System: Entrepreneurship development, Concept and Significance, Entrepreneurial Development Programmes (EDP), problems of EDP, Institutional support to entrepreneurs, Arrangement of finance and support from	

		financial institutions.	to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. Books suggested- 1 Sanjay Gupta (SBPD) 2- Dr. Archana Singh
2	Lecture 23-33	Business Idea: Environmental analysis, Search for business idea, Identification of projects, Selection of project, Project formulation, Project report, project appraisal.	
3	Lecture 34-45	Small Business: Definitions, MSMED Act 2006, Strategic Planning and its steps for small business, Incentives and subsidies available to small business, forms of ownership, Registration as SSI	
5	Revision/ Tutorial/Presentation		
6	Assignment		
7	Class test		

P.P.N. (P.G.) College, Kanpur

96/12 Mahatma Gandhi Marg, Kanpur -208001

●Telefax: (0512)2361924 ● Mob.: 8707538344●

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Lesson Plan: [2022-23] [semester 1]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010103T]

[Subject- Computer Applications]

[Paper – 3(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Ms. PRATIBHA TRIPATHI

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 12	Computer: An Introduction, Computers in Business. Elements of Computer system, Indian computing Environment, Management of data processing systems in Business organizations, Programmes development cycle, flow charting, Input Output analysis Programming Concept, Software Development process.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook . Suggested Continuous
2	Lecture 13-22	Components of a computer system, Generation of computer and computer languages, personal computers in Business, PC-software Packages, An Introduction to Disk. Operating system and windows, GUI, Other system software's.	
3	Lecture 23-33	Text Processing, software, Introduction to spreadsheet software, creation of spreadsheet application, Range, formulas, function data base functions in	

		spreadsheet, Graphics on spreadsheet, modes of data processing, Report generation, Presentation graphics, Creating a presentation.	Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1. P. K. Sinha & P.Sinha, Computer Fundamentals, BPB Publication 2. V. Rajaraman, Computer Fundamentals, PHI
4	Lecture 34-42	Computer software system, software development process, files design & Report design, Data files types, Master & Transaction file. Data Hierarchy & amp; data file structure, Use of files in Programming. Relevance of Data base management system, data base manager, data communication, networking, LAN & WAN, Real Time Sharing, On line & off line processing.	
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 3rd]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010103T]

[Subject- Business Law]

[Paper – 7(B)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Ms. PRATIBHA TRIPATHI

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 12	The Indian Contract Act 1872: Scope of the Act, Essential of A ValidContract, Agreement, Performance of Contracts, Breach of Contract & Remedies, Quasi-Contracts	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook .
2	Lecture 13-22	The Sale of Good Act, 1930: Formation of Contract, Conditions & Warranties, Rights of an Unpaid Seller, Performance of the Contract of Sale	
3	Lecture 23-33	The Negotiable Instruments Act, 1881: Nature and Types of negotiable instruments, Negotiation and Assignment, Holder-in-Due Course, Dishonor and Discharge of Negotiable Instrument; Arbitration	

4	Lecture 34-42	The Companies Act, 1956: Nature and Type of Companies, Formation of Companies, Memorandum and Articles of Association, Prospectus, Share capital, Membership, Meetings and Winding-Up	Suggested Continuous Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1. Avatar Singh, Company Law 2. Khergamwalla, JS, The Negotiable Instrument Act.
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

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Lesson Plan: [2022-23] [semester 5th]

[Name of course BBA / Bachelor Of Business Administration

[Course code- F010503T]

[Subject- Industrial Relations & Labour Laws]

[Paper – 15(A)]

[Lecture duration 45 mins]

[Syllabus Semester]

[Mode Offline]

[Credits/ Max marks- 03/100]

Names of faculty involved in delivering the course- Ms. PRATIBHA TRIPATHI

S. No.	Lecture No.	Topics Covered	Teaching Pedagogy
1	Lecture 1- 12	Industrial Relations: Role - Importance - Trade Unions - Industrial disputes and their Resolutions.	Lectures delivered in the language comfortable to the students (Hindi and English mix) Marker and board method used most of the time. Students invited from time to time to come on board to enhance their understanding and presentation skills. For this purpose, topics of discussion allotted a day or two before. Students also encouraged to see the lectures available online for understanding the advanced topics and also to go through the open access ebook . Suggested Continuous
2	Lecture 13-22	Participative Management: Structure - Scope - Collective Bargaining - Works Committee - Joint Management Councils - Pre-Requisite for successful participation - Role of Government in Collective Bargaining	
3	Lecture 23-33	Industrial unrest: Employee dissatisfaction - Grievances - Disciplinary Action - Domestic Enquiry - Strikes - lockout - Prevention of Strikes - Lockouts. Discipline: Positive, negative discipline, disciplinary procedure, Absenteeism, Turnover, Dismissal and Discharge.	

4	Lecture 34-42	Factories Act: Meaning, Definition – Welfare – Safety – Health Measures. Workmen's Compensation Act and International Labor Organization - Role and Function, General provisions of Bonus Act and Gratuity Act	Evaluation Methods: In addition to the theoretical inputs the course will be delivered through Assignments, Presentation, Group Discussions. This will instill in student a sense of decision making and practical learning. Books suggested- 1-Sreenivasan M.R - Industrial Relations & Labor legislations. 2- Aswathappa K - Human Resource and Personnel Management.
7	Revision/ Tutorial/Presentation		
8	Assignment		
9	Class test		

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-1**

Course Name- Computer Fundamental & Problem solving techniques **Course Code- BCA-1001**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Introduction to Computers :** Introduction, Characteristics of Computers, Block diagram of computer. Types of computers and features, Mini Computers, Micro Computers, Mainframe Computers, Super Computers. Types of Programming Languages (Machine Languages, Assembly Languages, High Level Languages). Data Organization, Drives, Files, Directories, Number Systems Introduction to Binary, Octal, Hexadecimal system Conversion, Binary Arithmetic Simple Addition, Subtraction, Multiplication	22	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Fundamental of Computers – By V.Rajaraman B.P.B.Publications 2. Fundamental of Computers – By P.K.Sinha 3. Computer Today- By Suresh Basandra 4. Unix Concepts and Application – By Sumitabha Das 5. MS-Office2000(For Windows) – By Steve Sagman
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Memory Organization :** Types of Memory (Primary And Secondary) RAM, ROM, PROM, EPROM. Secondary Storage Devices (FD, CD, HD, Pen drive) I/O Devices (Scanners, Plotters, LCD, Plasma Display). Cache, Virtual memory, RAID.	12	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Operating System and Services in O.S. :** History, Files and Directories, DOS (Internal and External Commands), Batch Files, Types of Operating System,File Management System. Introduction to Linux – Features of Linux , Components of Linux	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Problem solving techniques :** Understanding the problem, Analyzing the problem, Developing the solution,		

		Algorithm and Flowcharts - Definition, Characteristics, Expressing Algorithms, Analysis of Algorithms, Advantages and disadvantages, Examples Flowchart: Definition, Define symbols of flowchart, Limitations of Using Flowcharts, Advantages and disadvantages, Activities involved in Program Design, Coding and implementation.	11	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Windows Operating Environment & Office Automation :** Windows, Control Panel, Taskbar, Desktop, Windows Application, Icons, Windows Accessories, Notepad, Paintbrush, MS-Word, Purpose, usage, command, MS-Excel, MS-Access, , MS-Power Point.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=75**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA]

Semester-1

Course Name- C Programming **Course Code- BCA-1002**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Fundamentals of C programming and Control Structures:** History, Structure of a C program, C Conventions, Character Set, Identifiers, Keywords, Simple Data types, Modifiers, Variables, Constants, Operators, Operator precedence. Input and Output operation: Single character input and output, formatted input and output.Control Structures, Conditional statement and switch statement. Goto statement. Looping statement,break and continue, nested for statement.	22	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Let us C-Yashwant Kanetkar. 2. Programming inC-Balguruswamy 3. The C programming Lang., Pearson Ecl - DennisRitchie 4. Structured programming approach using C-Forouzah & Ceilber Thomson learningpublication. 5. Pointers in C –
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Arrays and Functions:** Introduction (One and multi-dimensional), Declaration of arrays, Initialization of arrays, processing with arrays. String manipulation, declaration of string arrays, string operations. Functions: Introduction, advantages of functions, Function definition, function call, Actual and formal arguments, local and global variables, function prototypes, types of functions, recursive functions, arrays and functions.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Searching and Sorting:** selection sort, bubble sort, insertion sort, quick sort, merge sort Searching: linear and binary search methods, comparison of sorting and searching methods. .	10	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			

7	**UNIT-IV**	**Structures and Pointers:** Introduction to structures, Advantages of structures, accessing elements of a structure, nested structures, array of structures, functions and structures, Pointers: Introduction, pointer variable, pointer operator, pointer arithmetic, pointers and arrays, pointers and strings, array pointers, dynamic allocation.	15	YashwantKanetkar 6. How to solve it by Computer – R.G.Dromy.
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Files, Preprocessor, standard library and header files:** Files: Introduction, File data type, opening and closing a file, file functions (getc, putc, getw, putw, fscanf, fprintf, fread, fwrite, fgets, fputs, feof). Preprocessor: #define, #include, #undef, Conditional compilation directives, C standard library and header files: Header files, string functions, mathematical functions, Date and Time functions	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**	**Total No. of Lectures Req.=77**		

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-1**

Course Name- Principle of management **Course Code- BCA-1003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 4 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	Nature of Management: Meaning, Defination, nature purpose, importance & Functions, Management as Art, Science & Profession- Management as social System Concepts of management-Administration-Organization, Management Skills, Levels of Management.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Essential of Management – Horold Koontz and Iteinz Weibrich-McGrawhillsInternationa l 2. Management Theory & Practice –J.N.Chandan 3. Essential of Business Administration – K.Aswathapa, Himalaya PublishingHouse 4. Principles & practice of management – Dr.
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	Evolution of Management Thought: Contribution of F.W.Taylor, Henri Fayol, Elton Mayo, Chester Bernard & Peter Drucker to the management thought. Business Ethics, Social Responsibility of business.	12	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	Functions of Management: Part-I Planning – Meaning-Need & Importance, types, Process of Planning, Barriers to Effective Planning, levels – advantages & limitations. Forecasting- Need & Techniques Decision making-Types - Process of rational decision making & techniques of decision making Organizing – Elements of organizing & processes: Types of organizations, Delegation of authority – Need, difficulties Delegation – Decentralization Staffing – Meaning & Importance Direction – Nature – Principles.	20	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	Functions of Management: Part-II Motivation – Importance – theories, Leadership – Meaning –styles, qualities & function of leader, Controlling - Need, Nature, importance,		

		Process & Techniques, Total Quality Management Coordination – Need – Importance.	12	L.M.Parasad, Sultan Chand & Sons – NewDelhi 5. Business Organization & Management – Dr.Y.K.Bhushan 6. Management: Concept and Strategies By J.S. Chandan, VikasPublishing 7. Principles of Management, By Tripathi, Reddy Tata McGrawHill.
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	Management of Change: Meaning, Features of change, Force for Change, Models for Change, Resistance to change , overcoming resistance to change , New Trends in Organization Change, Stress Management.	10	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=76**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-1**

Course Name- Business Communication **Course Code- BCA-1004**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Means of Communication:** Meaning and Definition – Process – Functions – Objectives – Importance – Essentials of good communication – Communication barriers, 7C's of Communication.	10	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Business Communication – K.K.Sinha – Galgotia Publishing Company, New Delhi. 2. Media and Communication Management – C.S. Rayudu – Hikalaya Publishing House, Bombay. 3. Essentials of Business Communication – Rajendra Pal and J.S. Korlhalli- Sultan Chand & Sons, New Delhi. 4. Business Communication (Principles, Methods and
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	**Types of Communication**: Oral Communication: Meaning, nature and scope – Principle of effective oral communication – Techniques of effective speech – Media of oral communication (Face-to-face conversation – Teleconferences – Press Conference –Video Conferencing– Demonstration – Radio Recording –Meetings –Grapevine – Group Discussion – Mobile Phone Conversation– Oral report). The art of listening – Principles of good listening.	22	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	**Written Communication**: Purpose of writing, Clarity in Writing, Principles of Effective writing, Writing an e-mail, SMS.	10	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Business Letters & Reports:** Need and functions of business letters – Planning & layout of business letter – Kinds of business letters – Essentials of effective correspondence, Purpose, Kind and Objective of Reports, Writing Reports.	12	
8	**Class Test & Assignment for unit = IV**			

6	**UNIT-V**	**Drafting of business letters :** Enquiries and replies – Placing and fulfilling orders – Complaints and follow-up Sales letters – Circular letters Application for employment and resume	12	Techniques) Nirmal Singh – Deep &Deep Publications Pvt. Ltd., New Delhi.
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=66**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-1**

Course Name- Mathematics –I **Course Code- BCA-1005**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 4 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Matrices and Determinants:** Matrix, Types of matrices, Addition, subtraction, scalar multiplication of a matrix, product of two matrices, Determinants of a square matrix, Co-factor of element of a square matrix, Adjoint, Inverse of a Square Matrix, Cayley Hamilton theorem (statement only) and problems.	22	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. B.S. Grewal, "Elementary Engineering Mathematics", 34th Ed., 1998. 2. "Advanced Engineering Mathematics", S. Chand & Company, 9th Revised Edition, 2001. 3. Shanti Narayan, "Integral Calculus", S. Chand & Company, 1999. 4. Shanti Narayan, "Differential Caluculs", S.Chand & Company,
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	**Limits and Continuity:** Limit at a Point, Properties of Limit, Computation of Limits of Various Types of Functions, Indeterminate Forms, L' Hospitals Rule, Continuity at a Point, Continuity Over an Interval.	15	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	**Differentiation:** Derivatives of Sum, Differences, Product & Quotients, Chain Rule, Derivatives of Composite Functions, Logarithmic Differentiation, Rolle's Theorem, Mean Value Theorem), Maxima & Minima. Taylor's and Maclaurin's Theorem	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Integration:** Fundamental Theorem of Calculus (without proof.), Indefinite Integrals, Methods of Integration Substitution, By Parts, Partial Fractions.	15	
8	**Class Test & Assignment for unit = IV**			

6	**UNIT-V**	**Vector Algebra:** Definition of a vector in 2 and 3 Dimensions; Double and Triple Scalar and Vector Product.	10	1998.
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=77**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-2**

Course Name- Object Oriented Programming Using C++ **Course Code- BCA-2001**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	Introduction Introducing Object – Oriented Approach, Relating to other paradigms {Functional, Data decomposition}. Basic terms and ideas Abstraction, Encapsulation, Inheritance, Polymorphism, Review of C, Difference between C and C++ - cin, cout, new, delete, operators.	20	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. A.R.Venugopal, Rajkumar, T. Ravishanker "Mastering C++", TMH, 1997. 2. S.B.Lippman & J.Lajoie, " C++ Primer", 3rd Edition, Addison Wesley, 2000. 3. R.Lafore, "Object Oriented Programming using C++", Galgotia Publications, 2004 4. D.Parasons, "Object Oriented Programming using C++", BPB Publication.
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	Classes and Objects Encapsulation, information hiding, abstract data types, Object & classes, attributes, methods, C++ class declaration, State idendity and behaviour of an object, Constructors and destructors, instantiation of objects, Default parameter value, object types, C++ garbage collection, dynamic memory allocation, abstract classes.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	Inheritance and Polymorphism Inheritance, Class hierarchy, derivation – public, private & protected, Aggregation, composition vs classification hierarchies, Polymorphism, Categorization of polymorphism techniques, Method polymorphism, Operator overloading.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	Generic function Template function, function name overloading, Overriding inheritance methods, Run time polymorphism, Multiple Inheritance.	15	
8	**Class Test & Assignment for unit = IV**			

6	**UNIT-V**	Files and Exception Handling Streams and files, Exception handling	12	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=77**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-2**

Course Name- Internet Technology and Web Design **Course Code- BCA-2002**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Introduction to Internet:** Internet, Growth of Internet, Owners of the Internet, Anatomy of Internet, ARPANET and Internet history of the World Wide Web, basic Internet Terminology, Net etiquette. Internet Applications – Commerce on the Internet, Governance on the Internet, Impact of Internet on Society – Crime on/through the Internet.	20	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Greenlaw R and Hepp E "Fundamentals of Internet and www" 2nd EL, Tata McGrawHill,2007. 2. Godbole AS & Kahate A, "Web Technologies", Tata McGrawHill,2008. 3. B. Patel & Lal B. Barik, " Internet & Web Technology ", Acme Learning Publishers 4. Leon and Leon, "Internet for Everyone", Vikas Publishing House.
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	**Internet Connectivity & Network:** Connectivity types: level one, level two and level three connectivity, modem, dedicated connections through the telephone system, ISDN, Protocol options – Shell, SLIP, PPP, Service options – E-mail, WWW, News Firewall etc. Network definition, Common terminologies: LAN, WAN, Node, Host, Workstation, bandwidth, Interoperability, Network administrator, network security.	20	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	**Internet Security Management Concepts:** Overview of Internet Security, Firewalls, Internet Security, Management Concepts and Information Privacy.	12	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Introduction to Java:** The JDK Directory Structure, Java History; Java Features; Structure of Java Program; Compiling and Interpreting Applications; Java Tokens; Java		

		Character set; Keywords and Identifiers, Primitive Data types Declarations, Non-Primitive data types; Operators and Expressions; Implicit and Explicit Type Conversions: The Cast Operator; Control Statements: If- else – if statement and Switch-case; Loops: While, Do While and For; Object Oriented Concepts: Abstraction and Encapsulation, Data Hiding; Introduction to Classes and Object; Access Controls; Implementation of Inheritance and Polymorphism; Methods in Java; Access Modifiers; Constructors and its types.HTML Programming Basics:HTML page structure, HTML Text, HTML links, HTML document tables, HTML Frames, HTML Images.	18	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Web Publishing and Browsing:** Overview, SGML, Web hosting, HTML. CGL, Documents Interchange Standards, Components of Web Publishing, Document management, Web Page Design Consideration and Principles, Search and Meta Search Engines, WWW, Browser, HTTP, Publishing Tools.	10	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=80**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-2**

Course Name Organization Behavior **Course Code- BCA-2003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 4 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Fundamentals of Organizational Behaviour :** Nature, Scope, Definition, Fundamental Concepts of Organizational Behaviour; Models of Organizational Behaviour; Emerging aspects of Organizational Behaviour: Meaning Cultural Diversity	12	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Organizational Behavior Text, Cases and Games- By K.Aswathappa, Himalaya Publishing House, Mumbai, Sixth Edition (2005) 2. Organizational Behavior Human Behavior at Work By J.W. Newstrom, Tata McGraw Hill Publishing
2		**Class Test & Assignment for unit = I**		
3	UNIT-II	**Perception, Attitude, Values and Motivation:** Concept, Nature, Process, Importance, Management, Behavioural aspect of Perception. Effects of employee attitudes; Job Satisfaction; Nature and Importance of Motivation; Achievement Motive; Theories of Work Motivation: Maslow's Need Hierarchy Theory, Mc Gregors's Theory 'X' and Theory 'Y	20	
4		**Class Test & Assignment for unit = II**		
5	UNIT-III	**Personality :** Definition of Personality, Determinants of Personality; Theories of Personality- Trait and Type Theories, The Big Five Trait Theory, Myres-Briggs Indicator; Locus of Control, Type A and Type B Theory of Personality	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**Work Stress :** Meaning and definition of Stress, Symptoms of Stress; Sources of Stress: Individual Level, Group Level, Organizational Level; Stressors, Extra Organizational Stressors; Effect of Stress – Burnouts; Stress Management – Individual Strategies, Organizational Strategies	15	

				Company Limited, New Delhi, 12th Edition (2007) 3. Organizational Behavior – By Fred Luthans 4. Organizational Behavior – By Super Robbins
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	Group Behaviour and Leadership : Nature of Group, Types of Groups; Nature and Characteristics of team; Team Building, Effective Teamwork; Nature of Leadership, Leadership Styles; Traits of Effective Leaders	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=77**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-2**

Course Name- Financial Accounting &Management **Course Code- BCA-2004**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	Overview - Meaning and Nature of Financial Accounting, Scope of Financial Accounting, Financial Accounting & Management Accounting, Accounting concepts & convention, Accounting standards in India.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Maheshwari & Maheshwari, "An Introduction to Accountancy", 8th Edition, Vikas Publishing House, 2003 2. Gupta R.L., Gupta V.K., "Principles & Practice of Accountancy", Sultan Chand & Sons,1999. 3. Khan & Jain, "FinancialAccounting" 4. Maheshwari S.N., "Principles of
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	Basics of accounting – Capital & Revenue items, Application of Computer in Accounting Double Entry System, Introduction to Journal, Ledger and Procedure for Recording and Posting, Introduction to Trail Balance, Preparation of Final Account, Profit & Loss Account and related concepts, Balance Sheet and related concept. Ratio analysis.	20	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	Definition nature and Objective of Financial Management, Long Term Sources of Finance, Introductory idea about capitalization, Capital Structure, Concept of Cost of Capital, introduction, importance, explicit & implicit cost, Measurement of cost of capital, cost of debt.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	Concept & Components of working Capital. Factors Influencing the Composition of working Capital, Objectives of working Capital Management – Liquidity Vs. Profitability and working capital policies. Theory of working capital: Nature and concepts	15	

				Management Accounting", 11th Edition, Sultan Chand & Sons, 2001. 5. Shukla and Grewal, "Advanced Accounts", 14th Edition, Sultan Chand &Sons.
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	Cash Management, Inventory Management and Receivables Management.	12	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=77**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-2**

Course Name- Mathematics –II **Course Code- BCA-2005**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 4 / 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Sets :** Sets, Subsets, Equal Sets Universal Sets, Finite and Infinite Sets, Operation on Sets, Union, Intersection and Complements of Sets, Cartesian Product, Cardinality of Set, Simple Applications.	22	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Kolman, Busby and Ross, "Discrete Mathematical Structure", PHI,1996. 2. S.K. Sarkar, "Discrete Maths"; S. Chand & Co.,2000 3. "Discrete Mathematics", Schaum's Outlines
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	**RELATIONS AND FUNCTIONS:** Properties of Relations, Equivalence Relation, Partial Order Relation Function: Domain and Range, Onto, Into and One to One Functions, Composite and Inverse Functions.	15	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	**PARTIAL ORDER RELATIONS AND LATTICES:** Partial Order Sets, Representation of POSETS using Hasse diagram, Chains, Maximal and Minimal Point, Glb, lub, Lattices & Algebric Systems, Principle of Duality, Basic Properties, Sublattices, Distributed & Complemented Lattics.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**FUNCTIONS OF SEVERAL VARIABLES:** Partial Differentiation, Chain Rule, Extrema of Functions of 2 Variables, Euler's Theorem.	10	

8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**MULTIPLE INTEGRATION:** Double Integral in Cartesian and Polar Coordinates to find Area, Change of Order of Integration, Triple Integral to Find Volume of Simple Shapes in Cartesian Coordinates.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=77**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-3**

Course Name- Python Programming **Course Code- BCA-3001**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Python:** Features of Python, Environmental setup, Installation and tools required for running, Basic Types Variable types and operators : Assigning values to variables Multiple Assignments Standard Data Types Set Map Single line comments using Multi-line comments using triple quote, Data Type Conversion Operators, Types of Operator, Conditional statement, Looping statements with else-Pass-Break continue.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** **1.** Tony Gaddis, Starting Out with Python, 3rd edition, Pearson **2.** Y. Daniel Liang, Introduction to Programming Using Python, Pearson **3.** Budd T A, Exploring Python , 2011, Tata McGraw Hill Education **4.** Learning Python, Fourth Edition, Mark Lutz, O'Reilly publication
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	**Number and List:** Accessing values in List-Delete, update List element-Basic List operations-Indexing, Slicing and Matrices Built in methods and Functions for List-Accessing values in Tuple-Delete, List element-Basic Tuple operations Indexing, Slicing and Matrices Built in methods and Functions for Tuple.	15	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	**Dictionary and Function:** Accessing values in Dictionary-Updating Dictionary-Deleting Dictionary –elements-Properties of Dictionary keys-Built in Dictionary Functions and Methods Defining Function-Calling function- Pass by reference vs value Function Arguments-Required arguments-Keyword arguments-Default arguments-Variable-length arguments Recursion.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			

7	**UNIT-IV**	**Modules and Packages:** The Time Module and its functions-Calendar modules and its functions-Other modules and Functions Sum and Difference f time and date Import From import statement From import statement Executing modules, Local functions-Reload function Packages in Python.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Exception handling:** Exception handling and assertions-Standard Exceptions-Assertions in Python-Handling an exception-Except clause with no exception-Except Clause with multiple exception-Try-Finally Clause-Argument of an Exception Raising an Exception.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**	**Total No. of Lectures Req.=75**		

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-3**

Course Name- Data Structure Using C &C++ **Course Code- BCA-3002**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	Representation of single and multidimensional arrays; Sprase arrays – lower and upper triangular matrices and Tridiagonal matrices with Vector Representation also.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. E.Horowiz and S.Sahani, " Fundamentals of Data structures", Galgotia Book source Pvt. Ltd., 2003 2. R.S.Salaria, " Data Structures & Algorithms" , Khanna Book Pblishing Co. (P)Ltd..,2002 3. Y.Langsam et. Al., " Data Structures using C and C++" , PHI,1999
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Stacks and Queues** Introduction and primitive operations on stack; Stack application; Infix, postfix, prefix expressions; Evaluation of postfix expression; Conversion between prefix, infix and postfix, introduction and primitive operation on queues, D-queues and priority queues.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Trees** Introduction and terminology; Traversal of binary trees; Recursive algorithms for tree operations such as traversal, insertion, deletion; Binary Search Tree	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Modules and Packages:** The Time Module and its functions-Calendar modules and its functions-Other modules and Functions Sum and Difference f time and date Import From import statement From import statement Executing modules, Local functions-Reload function Packages in Python.	15	

8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Graphs:** Graph terminology, Representation of graphs, path matrix, BFS (breadth first search), DFS (depth first search), topological sorting, Warshall's algorithm (shortest path algorithm.)	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=75**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-3**

Course Name- Operating System **Course Code- BCA-3003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	Introduction, What is an operating system, Simple Batch Systems, Multi-programmed Batch systems, Time- Sharing Systems, Personal – Computer Systems, Parallel systems, Distributed systems, Real-Time Systems**.** **Memory Management:** Background, Logical versus physical Address space, swapping, Contiguous allocation, Paging, Segmentation **Virtual Memory:** Demand Paging, Page Replacement, Page- replacement Algorithms, Performance of Demand Paging, Allocation of Frames, Thrashing, Other Considerations	22	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Silbersachatz and Galvin, " Operating System Concepts", Person, 5th Ed.2001 2. Madnick E., Donovan J., " Operating Systems:,Tata McGrawHill,2001 3. Tannenbaum, "Operating Systems", PHI, 4th Edition,2000
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Processes:** Process Concept, Process Scheduling, Operation on Processes **CPU Scheduling:** Basic Concepts, Scheduling Criteria, Scheduling Algorithms, Multiple – Processor Scheduling.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Deadlocks:** System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
		Device Management: Techniques for Device		

7	**UNIT-IV**	Management, Dedicated Devices, Shared Devices, Virtual Devices; Input or Output Devices, Storage Devices, Buffering.	10	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Information Management:** Introduction, A Simple File system, General Model of a File System, Symbolic File System, Basic File System, Access Control Verification, Logical File System, Physical File system File – System Interface; File Concept, Access Methods, Directory Structure, Protection.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=77**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-3**

Course Name- Digital Electronics & Computer Organization **Course Code- BCA-3004**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Number System & Boolean Algebra Number System:** Binary, Octal, Decimal, Hexadecimal; Conversion of Number System; Binary Arithmetic & Complement, Binary Codes: Weighted & Non Weighted, Gray Code, Excess-3 Code. Boolean Function; Boolean Postulates; De-Morgan's Theorem; Boolean Expressions: Sum of Product, Product of Sum, Minimization of Boolean Expressions using K-Map; Logic Gates: AND, OR, NOT, NAND, NOR, XOR, XNOR; Implementations of Logic Functions using Gates; NAND- NOR Implementations; Multilevel gate Implementations.	22	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Digital Logic and Computer design (PHI) 1998 : M.M. Mano 2. Computer Architecture (PHI) 1998 : M.M. Mano 3. Digital Electronics (TMH) 1998 : Malvino and Leach 4. Computer Organization and Architecture : William Stallings 5. Digital fundamentals (Universal Book Stall) 1998 : Floyd, L.Thomas 6. Computer Organization (MC Graw-Hill, Signapore) : Hamcher, Vranesic and Zaky
2		**Class Test & Assignment for unit = I**		
3	**UNIT-II**	**Combinational Circuits Adders & Subtractors:** Half Adder, Full Adder, Binary Adder, Half Subtractor, Full Subtractor, Adder Subtractor; Magnitude Comparator: Two Bit Magnitude Comparator, Three Bit Magnitude Comparator; Multiplexer & De-Multiplexer: 4*1 Multiplexer, 8*1 Multiplexer; Decoder & Encoder; Parity Checker & Generator; Code Converter.	15	
4		**Class Test & Assignment for unit = II**		
5	**UNIT-III**	**Sequential Circuit:** Introduction to Flip Flops: SR, JK, T, D, Master Slave Flip Flops; Conversion of Flip Flops; Characteristic Table & Equation; Edge Triggering & Level Triggering; Excitation Table; State Diagram; State Table; State Reduction; Design of Sequential Circuits.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			

7	**UNIT-IV**	**Registers Introduction of Registers;** Classification of Registers; Register with Parallel Load; Shift Registers; Bidirectional Shift Register with Parallel Load. Counters Introduction of Counter; Asynchronous/Ripple Counters; Synchronous Counters; BCD Counter; 4-bit Binary Counter with Parallel Load; Design of Synchronous Counters; Ring Counter; Johnson Counter.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	Basic cell of static and dynamic RAM; Building large memories using chips; Associative memory; Cache memory organization and Virtual memory organization.	10	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5		Total No. of Lectures Req.=77	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-3**

Course Name- Elements of Statistics **Course Code- BCA-3003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Population, Sample and Data Condensation** Definition and scope of statistics, concept of population and simple with Illustration, Raw data, attributes and variables, classification, frequency distribution, Cumulative frequency distribution.	10	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** **1.** S.C.Gupta - Fundamentals of statistics - Sultan chand & sons ,Delhi. **2.** D.N.Elhance - Fundamentals of statistics - Kitab Mahal,Allahabad. **3.** Montogomery D.C. – Statistical Quality Control - John Welly andSons **4.** Goon, Gupta And Dasgupta - **5.** Hogg R.V. and Craig R.G. – Introduction to mathematical statistics
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Measures of Central Tendency** Concept of central Tendency, requirements of a good measures of central tendency, Arithmetic mean, Median, Mode, Harmonic Mean, Geometric mean for grouped and ungrouped data.	10	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Measures of Dispersion:** Concept of dispersion, Absolute and relative measure of dispersion, range variance, Standard deviation, Coefficient of variation.	10	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Permutations and Combinations** Permutations of 'n' dissimilar objects taken 'r' at a time (with or without repetitions). ${}^{n}P_{r} = n!/(n-r)$!(without proof). Combinations of 'r' objects taken from 'n' objects. ${}^{n}C_{r} = n!/(r!(n-r)!)$ (without proof) . Simple examples, Applications.	10	

				Ed 4 {1989} – Macmillan Pub. Co.Newyork. **6.** Gupta S.P. – Statistical Methods , Pub – Sultan Chand and sons NewDelhi
8	**Class Test & Assignment for unit = IV**			
9	**UNIT-V**	**Sample space, Events and Probability** Experiments and random experiments, Ideas of deterministic and non-deterministic experiments; Definition of sample space, discrete sample space, events; Types of events, Union and intersections of two or more events, mutually exclusive events, Complementary event, Exhaustive event; Simple examples. Classical definition of probability, Addition theorem of probability without Proof (upto three events are expected). Definition of conditional probability Definition of independence of two events, simple numerical problems.	20	
10	**UNIT VI**	**Statistical Quality Control** Introduction, control limits, specification limits, tolerance limits, process and product control; Control charts for X and R; Control charts for number of defective {n-p chart} ,control charts for number of defects {c - chart}	15	
11	**Assignment for unit = V ,VI & Mid Semester Examination = 2 for units = I,II,III ,IV,V , VI**			
12	**Revision & Remedial Classes till the examination schedule launched**			
13	**Total No. Units=6**		**Total No. of Lectures Req.=75**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-4**

Course Name- Computer Graphics and Animation **Course Code- BCA-4001**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Introduction:** Interactive Computer Graphics, Advantages of Interactive Graphics, Representative Uses of Computer Graphics, Conceptual Framework for Interactive Graphics, Classification of Application Development of Hardware and software for computer Graphics.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Foley, Van Dam, Feiner, Hughes, Computer Graphics Principles& practice,2000. 2. D.J. Gibbs & D.C. Tsichritzs: Multimedia programming Object Environment& Frame work, 2000 3. Ralf Skinmeiz and Klana Naharstedt, Multimedia: computing, Communication and Applications, pearson, 2001 4. D.Haran & Baker. Computer Graphics Prentice Hall of India,1986.
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Scan Conversion**: Scan Converting Lines, Scan Converting Circles, Scan Converting Ellipses. **Clipping**: point clipping, Cohen-Sutherland line clipping Algorithm, Midpoint Subdivision Algorithm, polygon clipping (Sutherland-Hodgeman)	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Geometrical Transformation**: 2D Transformation (translation, rotation, scaling, reflection and shearing), Homogeneous Coordinates and Matrix Representation of 2D Transformations, Successive and composite 2D Transformations, the Window-to-Viewport Transformations, Introduction to 3D Transformations Matrix	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Curves & Surfaces:** Polygon Surfaces and polygon meshes, Quadratic and super quadrics surfaces, Spline curve and representation.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Computer Animation**: introduction, Application of animation, Morphing, Keyframe system, Motion		

		specifications in Animation, Types of animation, Sequencing of Animation Design and Fundamental principles of animation.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=75**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-4**

Course Name- Database Management System **Course Code- BCA-4002**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Introduction:** Characteristics of database approach, data models, DBMS architecture and data independence.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Abraham Silberschatz, Henry Korth, S.Sudarshan, "Database Systems Concepts", 4th Edition, McGraw Hill,1997. 2. Jim Melton, Alan Simon, "Understanding the new SQL: A complete Guide", Morgan Kaufmann Publishers,1993. 3. A.K.Majumdar, P.
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**E-R Modeling:** Entity types, Entity set, attribute and key, relationships, relation types, roles and structural constraints, weak entities, enhanced E-R and object modeling, Sub classes; Super classes, inheritance, specialization and generalization.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Data Normalization:** Functional Dependencies, Normal form up to 5th normal form, Data base design using EER to relational language.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Relational Data Model:** Relational model concepts, relational constraints, relational alzebra **SQL:** SQL queries, programming using SQL.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Concurrency Control:** Transaction processing, locking techniques and associated, database recovery, security and authorization. Recovery Techniques, Database Security	15	

				Bhattacharya, "Database Management Systems", TMH,1996. 4. Bipin Desai, "An Introduction to database systems", Galgotia Publications,1991.
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=75**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-4**

Course Name- Software Engineering **Course Code- BCA-4003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Software Engineering:** Definition and paradigms, A generic view of software engineering.	8	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. K.K.Aggarwal & Yogesh Singh "Software engineering", 2nd Ed., New Age International 2005. 2. I.Sommerville, "Software Engineering", Addison Wesley,2002. 3. James Peter, W. Pedrycz, "Software Engineering: An Engineering Approach" John Wiley & Sons.
2	**Class Test & Assignment for unit = I**			
3	UNIT-II	**Requirements Analysis:** Statement of system scope, isolation of top level processes and entitles and their allocation to physical elements, refinement and review.	15	
4	**Class Test & Assignment for unit = II**			
5	UNIT-III	**Designing Software Solutions:** Refining the software Specification; Application of fundamental design concept for data, architectural and procedural designs using software blue print methodology and object oriented design paradigm; Creating design document.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**Software Implementation:** Relationship between design and implementation, Implementation issues and programming support environment, Coding the procedural design, Good coding style.	15	
8	**Class Test & Assignment for unit = IV**			
6	UNIT-V	**Software Maintenance:** Maintenance as part of software evaluation, reasons for maintenance, types of maintenance (Perceptive, adoptive, corrective), designing for maintainability, techniques for maintenance.	12	

7	**UNIT VI**	Comprehensive examples using available software platforms/case tools, Configuration Management.	10	
8	**Assignment for unit = V,VI & Mid Semester Examination = 2 for units = I,II,III ,IV,V ,VI**			
9	**Revision & Remedial Classes till the examination schedule launched**			
10	**Total No. Units=5**		**Total No. of Lectures Req.=75**	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-4**

Course Name- Optimization Techniques **Course Code- BCA-4004**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Linear programming** Central Problem of linear Programming various definitions included Statements of basic theorem and also their properties, simplex methods, primal and dual simplex method, transport problem. Assignment problem and its solution. Graphical Method Formulation, Linear Programming Problem.	20	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Gillet B.E. "Introduction to OperationResearch" 2. Taha,H.A. "Operation Research - anintroduction" 3. Kanti Swarup "OperationResearch" 4. S.D.Sharma "OperationResearch" Hira & Gupta "OperationResearch"
2	**Class Test & Assignment for unit = I**			
3	UNIT-II	**Game theory** Introduction, Two-person zero-sum game, pure strategies (Minmax and Maxmin principles),Mixed strategies, The rules principles of Dominance, Algebraic method to solve games without saddle point, Graphical method to solve the games.	15	
4	**Class Test & Assignment for unit = II**			
5	UNIT-III	**Replacement Theory** Replacement of item that deteriorates replacement of items that fail. Group replacement and individual replacement.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**PERT and CPM** Project management origin and use of PERT, origin and use of CPM, Applications of PERT and CPM, Project Network, Diagram representation, Critical path calculation by network analysis and critical path method	15	

		(CPM).		
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Job Sequencing** Introduction, solution of sequencing problem Johnson s algorithm for n jobs through 2 machines	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=80**	

Head Of Department
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Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-4**

Course Name- Mathematics-III **Course Code- BCA-4005**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 4/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**COMPLEX VARIABLES:** Complex Number System, Algebra of Complex Numbers, Polar Form, Powers and Roots, Functions of Complex Variables, Elementary Functions.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. A.B. Mathur and V.P. Jaggi, "Advanced EngineeringMathematics",Khanna 2. 2. H.K. Dass, "Advanced Engineering Mathematics", S. Chand & Co., 9th RevisedEd.
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**VECTOR CALCULUS:** Differentiation of Vectors, Scalar and Vector Fields, Gradient, Directional Derivatives, Divergence and Curl and their Physical Meaning.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**FOURIER SERIES:** Periodic Functions, Fourier series, Fourier Series of Even and Odd Functions, Half Range Series.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**ORDINARY DIFFERENTIAL EQUATIONS OF FIRST ORDER:** Variable- Separable Method, Homogeneous Differential Equations, Exact Differential Equations, Linear Differential Equations, Bernoulli's Differential Equations, Differential Equations of First Order and First Degree by Integrating Factor.	20	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**ORDINARY DIFFERENTIAL EQUATIONS OF SECOND ORDER:**		

		Homogenous Differential Equations with Constant Coefficients, Cases of Complex Roots and Repeated Roots, Differential Operator, Solutions by Methods of Direct Formulae for Particular Integrals, Operator Method for Finding Particular Integrals, (Direct Formulae).	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	**Total No. Units=5**		**Total No. of Lectures Req.=80**	

Head Of Department
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Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-5**

Course Name- Knowledge Management **Course Code- BCA-5001**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Business Intelligence and Business Decisions:** Modeling Decision Process; Decision support systems; Group decision support and Groupware Technologies.	18	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Decision support system, EIS, 2000 2. W.H.Inmon, "Building Data Warehousing", Willey,1998. 5. Han, Jiawei, Kamber, Michelinal, " Data Mining Concepts & Techniques", Harcourt India, 2001
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Executive Information and support Systems:** Business Expert System and AI, OLTO & OLAP; Data Warehousing; Data Marts, Data Warehouse architecture; Tools for data warehousing.	20	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Multi- Dimensional analysis:** Data mining and knowledge discovery; Data mining and Techniques; Data mining of Advance Databases.	17	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Knowledge Management Systems:** Concept and Structure KM systems, techniques of knowledge management appreciation & limitation.	17	
8	**Class Test & Assignment for unit = IV**			
9	**Mid Semester Examination = 2 for units = I,II,III ,IV,**			
	Revision & Remedial Classes till the examination schedule launched			
10	**Total No. Units=5**	**Total No. of Lectures Req.=72**		

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Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-5**

Course Name- Java Programming and Dynamic Webpage Design **Course Code- BCA-5002**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Java Programming:** Data types, control structured, arrays, strings, and vector, classes (inheritance, package, exception handling) multithreaded programming.	20	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Patrick Naughton and Herbertz Schildt, "Java-2 The Complete Reference" 199,TMH. 2. Shelley Powers, "Dynamic Web Publishing" 2nd Ed. Techmedia,1998. 3. Ivor Horton, "Beginning Java-2" SPDPublication 4. Jason Hunter, "Java Servlet Programming"O'Rei
2	**Class Test & Assignment for unit = I**			
3	UNIT-II	**Java applets**, AWT controls (Button, Labels, Combo box, list and other Listeners, menu bar) layout manager, string handling (only main functions)	15	
4	**Class Test & Assignment for unit = II**			
5	UNIT-III	**JDBC:** JDBC Fundamentals, Establishing Connectivity and Working with Connection Interface, Working with Statements, Creating and Executing SQL Statements, Working with ResultSet Objects.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**Java Servlets:** Introduction, HTTP Servlet Basics, The Servlet Lifecycle, Retrieving Information, Sending HTML Information, Session Tracking.	15	
8	**Class Test & Assignment for unit = IV**			
6	UNIT-V	**Java Server Pages:** Introducing Java Server Pages, JSP Overview, Setting Up the JSP Environment, Generating Dynamic Content, Using Custom Tag Libraries and the JSP Standard Tag Library, Processing Input and Output.	15	

				lly 5. Shelley Powers, "Dynamic Web Publishing" 2nd Ed. Techmedia,1998 6. Hans Bergsten, "Java Server Pages", 3rd Ed.O'reilly
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5		Total No. of Lectures Req.=80	

Head Of Department
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Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-5**

Course Name- Computer Network **Course Code- BCA-5003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Basic Concepts:** Components of data communication, distributed processing, standards and organizations. Line configuration, topology, Transmission mode, and categories of networks. **OSI and TCP/IP Models:** Layers and their functions, comparison of models. Digital Transmission: Interfaces and Modems: DTE-DCE Interface, Modems, Cable modems.	20	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. A.S.Tanenbaum, "Computer Networks"; Pearson Education Asia, 4th Ed.2003. 2. Behrouz A.Forouzan, "Data Communication and Networking", 3rd Ed. Tata MCGraw Hill, 2004. 3. William stallings, "Data and computer communications", Pearson education Asia, 7th Ed., 2002.
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Transmission Media:** Guided and unguided, Attenuation, distortion, noise, throughput, propagation speed and time, wavelength, Shannon capacity, comparison of media.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Telephony:** Multiplexing, error detection and correction: Many to one, One to many, WDM, TDM, FDM, Circuit switching, packet switching and message switching. Data link control protocols: Line discipline, flow control, error control, synchronous and asynchronous protocols, character and bit oriented protocols, Link access procedures. **Point to point controls:** Transmission states, PPP layers, LCP, Authentication, NCP. **ISDN:** Services, Historical outline, subscriber's access,	15	

		ISDN Layers and broadcast ISDN.		
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Devices:** Repeaters, bridges, gateways, routers, The Network Layer; Design issues, Internetworking, Network-Layer in the internet.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Transport and upper layers in OSI Model:** Transport layer functions, connection management, functions of session layers, presentation layer and application layer.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5		Total No. of Lectures Req.=80	

Head Of Department
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Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-5**

Course Name- Numerical Methods **Course Code- BCA-5004**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Roots of Equations:** Bisections Method, False Position Method, Newton's Raphson Method, Rate of convergence of Newton's method.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Scarbourogh, "Numerical Analysis". 2. Gupta & Bose S.C. "Introduction to Numerical Analysis, "Academic Press, Kolkata, 3. S.S.Shashtri, " Numerical Analysis", PHI
2	**Class Test & Assignment for unit = I**			
3	UNIT-II	**Interpolation and Extrapolation :** Finite Differences, The operator E, Newton's Forward and Backward Differences, Newton's dividend differences formulae, Lagrange's Interpolation formula for unequal Intervals.	15	
4	**Class Test & Assignment for unit = II**			
5	UNIT-III	**Numerical Differentiation Numerical Integration :** Introduction, direct methods, maxima and minima of a tabulated function, General Quadratic formula.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**Solution of Linear Equation:** Gauss's Elimination method and Gauss's Siedel iterative method.	15	
8	**Class Test & Assignment for unit = IV**			
6	UNIT-V	**Solution of Differential Equations:** Euler's method, Picard's method, Fourth-order Ranga – Kutta method.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5	Total No. of Lectures Req.=75		

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Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-6**

Course Name- Information & Cyber Security **Course Code- BCA-6001**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Concept of Cyberspace:** Netizens Technology, Law and Society Object, Scope of the Information Technology Act, 2000, Electronic Records and Electronic Commerce., Intrusion Detection System, Intrusion Prevention System, Public Key Infrastructure.	20	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. GautamKumawat, Ethical Hacking & Cyber Security Course : A Complete Package, Udemy Course, 2017 2. Georgia Weidman , Penetration testing A Hands-On In t r o d u c t i o n to Hacking, no starch press, 2014 3. Charles P. Pfleeger Shari Lawrence Pfleeger Jonathan Margulies, Security in Computing, 5th Edition , Pearson Education , 2015 4. William Stallings-Cryptography and Network Security: Principles and Practice
2	**Class Test & Assignment for unit = I**			
3	UNIT-II	**Internet Security:** Computer Security and Threats, Hacking, Cracking, sneaking, Viruses, Trojan Horses, malicious code, Worms and Logic Bombs. Network attack and Defence Most Common Attacks, Scripts Kiddies and Packaged Defense.	15	
4	**Class Test & Assignment for unit = II**			
5	UNIT-III	**Wireless Network Security :** Wireless Network Components, Security issues in Wireless Networks, Securing a Wireless Network, Mobile Security, The Smartphone Pentest Framework	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**Cyber Laws and Standards:** ISO 27001, Cyber Law (Information Technology Act, 2000), International Standards maintained for Cyber Security, Security Audit ,Investigation by Investing Agency, Cyber Security Solutions.	15	
8	**Class Test & Assignment for unit = IV**			
6	UNIT-V	**Security Management:** Disaster Recovery, Digital		

		Signature, Ethical Hacking, Penetration Testing, Computer Forensics	15	Publication
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5		Total No. of Lectures Req.=80	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-6**

Course Name- Internet Of Things **Course Code- BCA-6002**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit Number	Topics	Number of Lecture Required	Teaching Pedagogy
1	UNIT-I	**Internet of Things (IoT):** Vision, Definition, Conceptual Framework, Architectural view, technology behind IoT, Sources of the IoT, M2M Communication, IoT Examples.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Arshdeep Bahga, Vijay Madisetti "Internet of Things (A hands on approach)" 1ST edition, VPI publications,2014 2. Jeeva Jose, Internet of Things, Khanna Publishing House 3. Michael Miller "The Internet of Things" by Pearson 4. Raj Kamal "INTERNET OF THINGS", McGraw-
2	**Class Test & Assignment for unit = I**			
3	UNIT-II	**M2M vs IoT An Architectural Overview:** Building architecture, Main design principles and needed capabilities, An IoT architecture outline, standards considerations. Reference Architecture and Reference Model of IoT.	15	
4	**Class Test & Assignment for unit = II**			
5	UNIT-III	**Hardware for IoT:** Sensors, Digital sensors, actuators, radio frequency identification (RFID) technology, wireless sensor networks, participatory sensing technology. Embedded Platforms for IoT: Embedded computing basics, Overview of IOT supported Hardware platforms.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	UNIT-IV	**Network & Communication aspects in IoT:** Wireless Medium access issues, MAC protocol survey, Survey routing protocols, Sensor deployment & Node discovery.	15	
8	**Class Test & Assignment for unit = IV**			

6	**UNIT-V**	**Domain specific applications of IoT:** Home automation, Industry applications, Surveillance applications, Other IoT application.	15	Hill, 1ST Edition, 2016
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5		Total No. of Lectures Req.=75	

Head Of Department
BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-6**

Course Name- E-Commerce **Course Code- BCA-6003**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 4/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	**Introduction to E-Commerce:** The Scope of Electronic Commerce, Definition of Electronic Commerce, Electronic E-commerce and the Trade Cycle, Electronic Markets, Electronic Data Interchange, Internet Commerce, E-Commerce in Perspective.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. David Whiteley, " E-Commerce", Tata McGraw Hill,2000 2. Eframi Turban, Jae Lee, David King, K. Michale Chung, "Electronic Commerce", Pearson Education, 2000
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Business-to-Business Electronic Commerce:** Characteristics of B2B EC, Models of B2B Ec, Procurement Management Using the Buyer's Internal Marketplace, Just in Time Delivery, Other B2B Models, Auctions and Services from Traditional to Internet Based EDI, Intergration with Back-end Information System, The Role of Software Agents for B2B EC, Electronic marketing in B2B, Solutions of B2B EC, Managerial Issues, Electronic Data Interchange (EDI), EDI: The Nuts and Bolts, EDI & Business.	20	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Internet and Extranet :** Automotive Network Exchange, The Largest Extranet, Architecture of the Internet, Intranet and Extranet, Intranet software, Applications of Intranets, Intranet Application Case Studies, Considerations in Intranet Deployment, The Extranets, The structures of Extranets, Extranet products & services, Applications of Extranets, Business Models of Extranet Applications, Managerial Issues. **Electronic Payment Systems :** Is SET a failure,	15	

		Electronic Payments & Protocols, Security Schemes in Electronic payment systems, Electronic Credit card system on the Internet, Electronic Fund transfer and Debit cards on the Internet, Stored – value Cards and E-Cash, Electronic Check Systems, Prospect of Electronic Payment Systems, Managerial Issues.		
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Public Policy: From Legal Issues to Privacy :** EC-Related Legal Incidents, Legal Incidents, Ethical & Other Public Policy Issues, Protecting Privacy, Protecting Intellectual Property, Free speech, Internet Indecency & Censorship, Taxation & Encryption Policies, Other Legal Issues: Contracts, Gambling & More, Consumer & Seller Protection In EC.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	Infrastructure For EC : It takes more than Technology, A Network Of Networks, Internet Protocols, Web-Based client/ Server, Internet Security, selling on the web, Chatting on the Web, Multimedia delivery, Analyzing Web Visits, Managerial Issues.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5		Total No. of Lectures Req.=80	

Head Of Department

BCA

Lesson Plan –New Syllabus[NEP]

Program Name-Bachelor Of Computer Application [BCA] **Semester-6**

Course Name- Data Science and Machine Learning **Course Code- BCA-6004**

Lecture Duration-45 min. **Mode-Off Line / Online** **Credits/Max. Marks- 3/ 100**

Sr.N.	Unit No.	Topics	No. of Lecture Required	Teaching Pedagogy
1	**UNIT-I**	Introduction to Data Science: Evolution of Data Science, Data Science Roles, Stages in a Data Science Project, Applications of Data Science in various fields, Data Security Issues.	15	1. Oral Lectures are delivered in the language comfortable to the students (Hindi & English) but Writing is only allowed in English. 2. Board & Marker method is used regularly. 3. Some times presentations are delivered with the help of projectors. 4. Online lectures are also delivered. **Referential Books :** 1. Cathy O'Neil and Rachel Schutt , "Doing Data Science", O'Reilly, 2015. 2. David Dietrich, Barry Heller, Beibei Yang, "Data Science and Big data Analytics", EMC 2013 3. Machine Learning, Tom M. Mitchell Introduction to Machine learning, Nils J.Nilsson
2	**Class Test & Assignment for unit = I**			
3	**UNIT-II**	**Data Collection and Data Pre-Processing:** Data Collection Strategies, Data Pre-Processing Overview , Data Cleaning, Data Integration and Transformation, Data Reduction.	15	
4	**Class Test & Assignment for unit = II**			
5	**UNIT-III**	**Exploratory Data Analytics:** Descriptive Statistics - Mean, Standard Deviation, Skewness and Kurtosis – Box Plots – Pivot Table – Correlation Statistics – ANOVA.	15	
6	**Assignment for unit = III & Mid Semester Examination = 1 for units = I,II,III**			
7	**UNIT-IV**	**Introduction:** Idea of Machines learning from data, Classification of problem – Regression and Classification, Supervised and Unsupervised learning.	15	
8	**Class Test & Assignment for unit = IV**			
6	**UNIT-V**	**Neural Networks:** History,Artificial and biological neural networks,Artificial,intelligence,and,neural,etworks,Biological neurons,Models of single neurons,Different neural network models.	15	
7	**Assignment for unit = V & Mid Semester Examination = 2 for units = I,II,III ,IV,V**			
8	**Revision & Remedial Classes till the examination schedule launched**			
9	Total No. Units=5	Total No. of Lectures Req.=75		

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