



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

96/12 Mahatma Gandhi Marg, Kanpur - 208001

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FACULTY OF SCIENCE

PROGRAMME OUTCOMES (POs)

Degree in Master of Science

Program outcomes for a postgraduate degree in science, such as a Master's in science, can vary depending on the specific field of study. Some common program outcomes associated with postgraduate degrees in science are:

PO1. Specialized Knowledge: Graduates gain advanced and specialized knowledge in their chosen field of science, whether it's physics, chemistry, botany, zoology, astronomy, geology, or any other scientific discipline.

PO2. Research Skills: Postgraduate programs emphasize research, and graduates develop strong research skills, including experimental design, data collection, analysis, and interpretation.

PO3. Critical Thinking: Graduates acquire advanced critical thinking skills, enabling them to assess complex scientific problems, design experiments, and draw meaningful conclusions.

PO4. Problem-Solving Abilities: Postgraduate training hones problem-solving abilities, preparing graduates to address real-world scientific challenges and contribute to scientific advancements.

PO5. Experimental and Laboratory Skills: Depending on the field, graduates often develop proficiency in laboratory techniques, equipment, and safety protocols.

PO6. Mathematical and Computational Skills: Many scientific fields require advanced mathematical and computational skills, which are developed and refined during postgraduate study.

PO7. Scientific Writing and Communication: Graduates learn to effectively communicate scientific findings through research papers, presentations, and collaborations with peers and experts.

PO8. Innovation and Creativity: Postgraduate students are encouraged to think innovatively and creatively to make new scientific discoveries and develop novel solutions.

PO9. Interdisciplinary Knowledge: Some programs promote interdisciplinary learning, enabling graduates to apply scientific principles across various fields.

PO10. Teaching and Mentoring: Many postgraduates have opportunities to gain teaching and mentoring experience, which can lead to careers in academia or educational roles.

PO11. Collaboration and Teamwork: Graduates learn to collaborate with other researchers and scientists, fostering teamwork and a cooperative approach to problem-solving.



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PO12. Publication and Presentation: Graduates often have the opportunity to publish their research in scientific journals and present their findings at conferences, enhancing their academic and professional profiles.

PO13. Industry and Commercial Applications: Some postgraduate programs offer exposure to the application of scientific knowledge in industry, preparing graduates for careers in research and development or scientific consulting.

PO14. Science Policy and Advocacy: Graduates may work in roles related to science policy, advocating for scientific research funding and contributing to science-related decision-making.

PO15. Government and Research Organizations: Many graduates find positions in government agencies, research institutions, or national laboratories, contributing to scientific advancements and public policy.

PO16. Doctoral and Postdoctoral Research: Some postgraduate programs serve as a stepping stone to Ph.D. programs or postdoctoral research positions for those pursuing an academic or research career.

PO17. International Collaboration: Graduates often have opportunities for international collaboration, fostering global perspectives and connections in the scientific community.

PO18. Patents and Intellectual Property: In some fields, graduates may work on patentable innovations and intellectual property, contributing to the development of new technologies.

PO19. Nonprofit and Environmental Initiatives: Graduates can engage in nonprofit organizations or environmental initiatives, focusing on scientific research and advocacy for environmental and social causes.

(Prof. Suman Singh)

Convenor
NAAC

(Prof. Abha Singh)

Convenor
IQAC

(Prof. Anoop Kumar Singh)

Principal