

Raiganj Surendranath Mahavidyalaya
Department of Physics

Program Outcomes

POs	After Completion of the B.Sc. Physics Program, the graduates will be able to
PO-1	Basic and Program Specific Knowledge: Apply knowledge of basic mathematics and science fundamentals to solve Physics oriented problems and enhance their learning aptitude.
PO-2	Problem Analysis: Identify and analyse well-defined physical laws and theories related to various natural phenomena and their relevance in day-to-day life.
PO-3	Development of solutions: Develop a problem-solving aptitude to apply the theories learnt and the skills acquired to solve real time problems.
PO-4	Conduct investigations of complex problems: Acquire a wide range of problem-solving skills, both analytical & computational, and build concepts to simplify complex problems towards achieving logical solutions.
PO-5	Laboratory tools usage and Experimentation: Develop skills of observations & drawing logical inferences from them, learn usage of modern laboratory tools & appropriate technique to conduct standard tests & measurements.
PO-6	Practices for Society: Realize how disciplinary & interdisciplinary knowledge & skills acquired through generic courses helps in providing better solutions and new ideas for specific needs of the society.
PO-7	Environment, Sustainability and Ethics: Nurture creatively to propose novel ideas towards sustainable, ethical & Environment-friendly solutions to real world problems, for a holistic development of the self and the society
PO-8	Individual and Team work: Develop and regenerate scientific competence independently and also in collaboration with others.
PO-9	Effective Communication and Project Management: Learn managing skills to work as a team member or a leader to manage projects and effectively communicate the same to relevant stakeholders.
PO-10	Life-long learning: Analyse individual needs and engage in updating oneself in the context of scientific & technological changes.

Program Specific Outcomes

PSOs	After completion of the B.Sc. Physics Program, the graduates will be able to	Mapping with POs
PSO-1	Build a deep and profound base on fundamental concepts of Physics and related areas to lead a career in industry, administration and academia.	PO-1, PO-10
PSO-2	Master experimental techniques in designing and performing laboratory experiments including data collection, analysis etc. and visualising them using suitable graphical softwares.	PO-4, PO-5
PSO-3	Identify & formulate complex problems in Physics, and obtain their appropriate solutions utilizing their basic concepts.	PO-2, PO-3, PO-4
PSO-4	Develop a strong foundation in computational skills using Python allowing them to solve Physics problems numerically and analyse experimental data effectively.	PO-1, PO-4, PO-5
PSO-5	Communicate complex scientific concepts in writing and orally through professional softwares like Latex, Word, Power Point etc.	PO-8, PO-9
PSO-6	Acquire analytical, logical and transferable skills to pursue higher education or entrepreneurships, and grow themselves as responsible citizens.	PO-6, PO-7, PO-8, PO-10