



Jamal Mohamed College (Autonomous) Trichy

Department of Physics

B.Sc. Physics

Students will be able to

- ✚ Demonstrate conversance in properties of matter, mechanics, relativity, thermal physics, atomic physics, nuclear physics, general physics and medical physics.
- ✚ Create scientific temperament and inquisitiveness and an awareness of the impact of Physics on the environment, society, and development outside the scientific community.
- ✚ Summarize interdisciplinary and relationship between the concepts of Physics with Chemistry, and Mathematics representing multiple representation of scientific information.
- ✚ Apply advanced tools, equipments and laboratory skills in Physics experiments draw logical conclusions and interpret the results into a research report.
- ✚ Adopt physics concepts to solve simple problems in electronic devices and perform jobs in the relevant field.



Jamal Mohamed College (Autonomous) Trichy

M.Sc. Physics

Students will be able to

- ✚ Describe the advanced concepts of classical Physics, General Physics, Nuclear and Particle Physics, Medical Physics, their corollaries and application of them in natural phenomena.
- ✚ Apply problem solving skills, computer programming and numerical simulations to solve problems and appreciate the innate beauty of Physics.
- ✚ Develop a spirit of scientific reasoning, undertaking scientific research beneficial for the world and people who live in and propagation of results as a written report.
- ✚ Devise leadership strategies and find ways to apply working knowledge of Physics in advancement to higher education and career coupled with desire to be a life-long learner.
- ✚ Evaluate the role of Physics in enhancing the life of the people and involve in community building activities.

M.Phil Physics

Students will be able to

- ✚ Apply basic computational techniques for modeling physical systems, systematically explore physical phenomena by setting up experiments, collecting and analyzing data, and interpreting their results.
- ✚ Develop scientific reasoning and scientific outlook in addressing the problems of the society and evolving solutions on the theoretical foundation of Physics.
- ✚ Adopt Mathematical, analytical, simulation tools in carrying out basic, applied and interdisciplinary research and unravel scientific mysteries through conscientious efforts.
- ✚ Transcribe the results as a scientific report and propagate the scientific ideas through publication.
- ✚ Demonstrate an ability to handle the classroom teaching effectively, using teaching and learning skills and find employment through entrepreneurial endeavor and competitive exams.