

NAME OF THE COURSE: M.Sc. PHYSICS

ABOUT THE COURSE

M.Sc. (Physics) is one of the founder courses of the School of Basic and Applied Sciences since its inception in 2014. This course covers different domains of Physics, including quantum mechanics, condensed matter physics, electronics, nuclear physics, optoelectronics, material science & nanotechnology, among many others. All these domains aim to strengthen the student's knowledge about the subjects and take them deeper into the world of physics. The course focuses to provide strong foundations in fundamentals as well as advanced Physics, keeping the syllabus as recommended by UGC. It also offers several program electives and open electives to get up-to-date knowledge in some specialized areas in Physics. The course gives students a scope of developing analytical approach with communication skills and critical thinking, which further broadens into interpreting scientific data that is a blessing to scientific researchers. The student gets chance to take part in deep research in their chosen specialization in form of a one semester duration project work. It is a good option for those who want to be at the edge of high-end technology and its application in various fields.

SPECIALIZATION: Experimental & Computational Material Science, Condensed Matter Physics, Nuclear Physics, High Energy Physics, Electronics

COURSE DURATION: 2 years (Semester System).

ELIGIBILITY

Bachelor's degree with **Physics** and **Mathematics** as major subjects or any other subject according to CBCS/NEP recommended by UGC with a minimum of 50% marks (45% for SC/ST) in aggregate from a recognized Institute/ University. Candidate should have qualified minimum of 24 credits in the chosen specialization at the undergraduate level.

COURSE FEE: 25,000/- INR per semester

KEY FEATURES

- NEP based curriculum
- Well qualified, experienced, and motivated faculty members.
- Faculty are specialized in various fields of experimental and theoretical Physics.
- Syllabus at par with UGC/NET, GATE, JEST recommended syllabus.
- State-of-the-art Research laboratories.
- Well-equipped postgraduate laboratories.
- Project work in the fourth semester where students get the opportunity to explore recent research areas.
- Well updated library with access to repository of information, books, archives, research papers, audio and video lectures.
- Students who have obtained their M.Sc. (Physics) degree are pursuing/have completed their doctoral studies (Ph.D.) from reputed institutes.

- Department also organizes various conferences/workshops/lectures/ research lab& industrial visits time to time in which students can participate and update their knowledge.

CAREER OPPORTUNITIES

There is a bright career after doing M.Sc. (Physics) course. A candidate with M.Sc. (Physics) degree can flourish in varied professions. This course opens up multiple opportunities for the candidates depending upon their choice of profession. It offers plenty of job profiles in high-end industrial sectors also. Here are some of the top areas of recruitment for M.Sc. (Physics) graduates:

- Assistant Scientist in DRDO/ISRO/BARC or any other research institutes
- Assistant Professor
- School Lecturer
- Research & Development
- Healthcare
- Laboratory Technician
- IT Companies
- Defense Services
- Electronic Industries
- Material Industries
- Robotics
- Space Astronomy
- Geo-Physics and Meteorological Departments
- Radiation Protection Centers