

Parvathaneni Brahmaya
Siddhartha College of Arts and Science, Vijayawada
(Autonomous)

Programme: MSc Physics

MSc Physics is a two-year-long postgraduate level course in India. The MSc Physics Syllabus covers 10 different domains of Physics, including quantum mechanics, astrophysics, optics, nuclear physics, among others.

MSc Physics Jobs and Scope in India

With a comprehensive knowledge of concepts in Physics, students with MSc Physics degrees can find employment in private as well as in the Government sector. Jobs are available in research labs, IT fields, the automobile industry and various government-owned Scientific Research and Development Organizations.

According to the projection made by BLS, during 2012-2022 jobs for physicists would go up by 10%. Teaching profession is also open for these professionals.

Some of the major private companies have a large scope of employment for MSc Physics students are:

- Maruti Udyog
- Tech Mahindra
- Infosys
- Wipro
- CTS

While in Government sector major recruiting organizations are:

- Bhabha Atomic Research Centre (BARC)
- Oil and Natural Gas Corporation (ONGC)
- Bharat Heavy Electricals Limited (BHEL)
- National Thermal Power Corporation (NTPC)
- Indian Space Research Organization (ISRO)

Various MSc Physics Jobs and their description of above-listed companies are:

| | | |
|---------------------|--|---------|
| Research Fellow | A Junior research fellowship prepares the candidate to take on the role of a university professor. If the work of the junior research fellow is satisfactory, they are promoted to senior research fellow. | 7 LPA |
| Research Scientist | A research scientist is hired to carry out research in the said field and design and conduct experiments to make significant contributions to the study of physics. | 10 LPA |
| Medical Physicists | The job of the medical physicist involves the development of techniques and equipment that would be used by medical staff to diagnose illness and treat patients. | 6.5 LPA |
| Radiation Physicist | The prime job of the radiation physicist is to ensure the smooth functioning of medical devices which use radiation. | 5 LPA |
| Research Associate | They are professionals hired to carry out research and be a part of an ongoing research program within a research facility. | 4 LPA |

MSc Physics scope has equal demands in the industry, Research and academic fields. Due to this reason, the future scope for this course is huge.

Even in the past few years, the demand for physicists has increased so much that the salary trend for physics graduates looks very optimistic.

Among cities, Hyderabad had the highest salary hike of almost 25% for analytics professionals. However, the IT sector offers the best salary packages to job seekers. An average salary in this sector ranges between 3 lakhs to 7 lakhs for entry level candidates with a regular growth rate of 30% every year.

Check the options available for higher studies after MSc Physics below:

- **Ph.D in Physics:** A Ph.D in Physics includes 5 or 6 core courses, with research and dissertation on the core areas of physics like Matter Physics, High Energy Physics, Optics and Laser Physics, and Materials Science, and Electronic Science, etc.

Admission Process

Admissions to M.Sc (Physics) are done on the basis of merit. The government of Andhra Pradesh notifies the admission process and asks registration for convener quota of 21 seats from the students who are qualified in the PG CET. The remaining 9 seats will be in management quota. For management quota consult the college office or use chat bot for enquiry.

Eligibility

Students who wish to pursue M.Sc (Physics) course should fulfil the following eligibility criteria.

- Physics as one of the subjects in Under graduation/Physics as major
- They should clear their Under graduation exam from a recognized University.