

DIRECTORATE OF DISTANCE & ONLINE EDUCATION

MASTER OF SCIENCE (PHYSICS)

COURSE BROCHURE
2026-27

NAAC GRADE A+

+91 7827038309 admissions@mangalayatan.edu.in www.mude.ac.in

INTRODUCTION

The Master of Science (M.Sc.) in Physics is offered as a two-year online distance learning programme by Mangalayatan University (MUDE). The course curriculum is designed to cover fundamental and advanced physics concepts. Our semester modules offer varied topics that consist of quantum mechanics, electrodynamics, and statistical mechanics.

The flexible distance education model is designed to prepare students to balance personal, scholastic, and career responsibilities. Our goal is to build students' deep conceptual analysis and shape their problem-solving skills. The programme comprises both academic expertise and practical scientific applications to pave the way for careers in research, education, and the private and public sectors.

MISSION

- To develop students' insights into physical sciences, fostering a robust understanding of astronomical and subatomic scales.
- To nurture analytical reasoning, computational modelling, and modern approaches in physics to prepare students to contribute to research and development.
- To encourage graduates to acquire professional skills and academic pursuits for doctoral studies to take professional roles in academia, research labs, and the technical sector.

OBJECTIVES:

The prime concern of the M.Sc. Physics with the online distance learning model programme at MUDE consists of extensive academic and practical skills. The course curriculum is designed to equip students with competitive skills to understand the business landscape and focus on core values of professionalism and business ethics for long-term career growth. The semester modules introduce computational and applied physics to enable students to prepare for written reports, digital tools, and project documentation. The main objective of the programme is to enhance students' digital literacy and decision-making abilities to address complex scientific challenges.

INSTRUCTIONAL DESIGN

The programme is segmented into four semesters, and the minimum credit requirement is 80 to get an ODL M.Sc. Physics degree from Mangalayatan University. The minimum time period to complete the M.Sc. Physics degree programme will be two years, and the maximum time period (extended) is three years to pursue the ODL M.Sc. Physics degree.

SEMESTER - I					
S.No.	Course Code	Course Name	Credit Marks	Total Marks	Pass Marks
1.	PHM-6111	Mathematical Physics	4	100	40
2.	PHM-6112	Classical Mechanics	4	100	40
3.	PHM-6113	Quantum Mechanics	4	100	40
4.	PHM-6114	Classical Electrodynamics	4	100	40
5.	PHM-6151	Physics Lab - I	4	100	40
TOTAL			20	500	200

SEMESTER - II					
S.No.	Course Code	Course Name	Credit Marks	Total Marks	Pass Marks
1.	PHM-6211	Statistical Mechanics	4	100	40
2.	PHM-6212	Electronics	4	100	40
3.	PHM-6213	Nuclear and Particle Physics	4	100	40
4.	PHM-6214	Computational Physics and Programming	2	100	40
5.	PHM-6251	Physics Lab - II	4	100	40
6.	PHM-6252	Computational Physics & Programming Lab	2	100	40
		TOTAL	20	500	240

SEMESTER - III					
S.No.	Course Code	Course Name	Credit Marks	Total Marks	Pass Marks
1.	PHM-7111	Advanced Mathematical Physics	4	100	40
2.	PHM-7112	Atomic and Molecular Physics	4	100	40
3.	PHM-7113	Condensed Matter Physics	4	100	40
4.	PHM-7114	Advanced Quantum Mechanics	4	100	40
5.	PHM-7151	Physics Lab - III	4	100	40
		TOTAL	20	500	200

SEMESTER - IV					
S.No.	Course Code	Course Name	Credit Marks	Total Marks	Pass Marks
1.	PHM-7211	Material Science	4	100	40
2.	PHM-7212	Advanced Electronics	4	100	40
3.	PHM-7251	Physics Lab - IV	4	100	40
4.	PHM-7291	Project	8	100	40
		TOTAL	20	400	160

SYLLABI AND COURSE MATERIALS

Syllabi and self-learning materials are developed by our experienced faculty members of Mangalayatan University. The course content is approved by CIQA and the Board of Studies/Academic Council/Executive Council of India (UGC).

STUDY MATERIAL

The study material for the programme is developed in a digital format and shall be supplied to the students unit-wise for each course per semester.

ONLINE COUNSELLING SESSIONS

The online counselling sessions shall be scheduled beforehand by the subject coordinator. There shall be 6 online counselling sessions of 1 hour each for a 4-credit course, held on Saturdays and Sundays. For courses with 2 credits, there shall be 4 sessions of 1 hour each; for 6-credit classes, 8 sessions of 1 hour each.

STUDENT SUPPORT SYSTEMS

The university appoints programme coordinators, course coordinators, and course mentors to support learners in their studies. Additionally, the university has made appropriate arrangements for various support services, including online counselling and resource-oriented services and evaluation methods for both online and offline modes, for efficient and smooth assistance to the students through the online mode.

PROCEDURE FOR ADMISSIONS, CURRICULUM, TRANSACTION AND EVALUATION

ACTIVITY SCHEDULE					
		Tentative months schedule (specify months) during year			
		July Division		January Division	
S.NO.	Name of the Activity	From(Month)	To (Month)	From(Month)	To (Month)
1	Admission	Jul	Sep	Jan	Mar
2	Assignment submission (if any)	Sep	Oct	Mar	Apr
3	Evaluation of Assignment	Oct	Nov	Apr	May
4	Examination	Dec	Dec	Jun	Jun
5	Declaration of Result	Jan	Jan	Jul	Jul
6	Re-registration	Jul	Jul	Jan	Jan

*** These dates are tentative.**

FEE STRUCTURE							
Name of the Program	Degree	Duration	One Time Reg. Fee	Semester Fee	Exam Fee Per Semester	One Year Fee	Total Fees
Master of Science (Physics)	PG	2 Years	1000	12000	1000	27000	53,000
Total							53,000

CREDIT SYSTEM			
Duration of the Programme	Credits	Name of the Programme	Level of the Programme
2 Yrs	80	PG	Master of Science (Physics)

WHY DISTANCE EDUCATION?

- Convenience of studying classes from home.
- Cost-Effective.
- Time saving.
- No commuting.
- Monetary benefits- No textbooks required.
- Study anytime, anywhere.

ADMISSION PROCESS

- Register with Mangalayatan Distance learning Programmes
- Pay Registration fees through our available payment gateways
- Upload relevant documents and mark sheets
- Get provisional admission
- Pay semester fees
- Get admission confirmation from the University
- Roll number allotted to every student

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