



# **DIRECTORATE OF DISTANCE & ONLINE EDUCATION**

**UG DIPLOMA IN BASIC SCIENCE (PCM)**

**COURSE BROCHURE  
2026-27**

**NAAC A+  
GRADE**

# INTRODUCTION

We offer an online diploma in PCM (Physics, Chemistry, and Mathematics) to build students' strong foundation in principles of science and quantitative reasoning. The semester curriculum integrates theoretical understanding with practical applications of the three core subjects to prepare students to enhance their skills and knowledge of applied sciences and build a career in technical fields. The program modules cover the laboratory sessions and project-based learning to cultivate students' analytical and scientific skills for academic and professional excellence. Our one-year online diploma program focuses on strengthening students' core scientific skills to prepare for professional competencies.

## MISSION:

- ◆ To enhance students' mathematical and critical thinking skills to understand the real-world scientific challenges and propose solutions.
- ◆ To motivate students to enhance logical reasoning, innovation, and experimentation, fostering accuracy and scientific practices.

## OBJECTIVES:

- ◆ To strengthen fundamental knowledge of essential scientific and technical disciplines with analytical and problem-solving skills.
- ◆ To enhance laboratory competencies, logical reasoning, and research skills to prepare for higher education.



# INSTRUCTIONAL DESIGN

The program is divided into 2 semesters and minimum credit requirement is 40 to get UG Diploma in Basic Science (PCM) through OL mode from Mangalayatan University. Minimum time period for acquiring UG Diploma in Basic Science (PCM) will be one year and maximum time (extended) period is two years.

SEMESTER - I				
S.No.	Course Code	Course Theory	Credit	Subject Total
1	PHB-1111	Mechanics and Wave motion	4	100
2	PHB-1151	Physics Lab-I	2	100
3	CHB-1111	Fundamentals of Inorganic Chemistry	4	100
4	CHB-1151	Chemistry Lab-I	2	100
5	MMB-1111	Differential Calculus	4	100
6	CSB-1101	Fundamentals of computer system and office automation	2	100
7	ENB-1101	English Communication	2	100
<b>TOTAL</b>			<b>20</b>	<b>700</b>

SEMESTER - II				
S.No.	Course Code	Course Theory	Credit	Subject Total
1	PHB-1211	Electricity and Magnetism	4	100
2	CHB-1211	Physics Lab-II	2	100
3	BOB-1211	Organic Chemistry	4	100
4	PHB-1251	Chemistry Lab-II	2	100
5	CHB-1251	Integral Calculus	4	100
6	MMB-1201	Logical Reasoning	2	100
7	ENB-1201	Creative Writing	2	100
	<b>TOTAL</b>		<b>20</b>	<b>700</b>

# SYLLABI AND COURSE MATERIALS

Syllabi, PPR and self-learning materials are developed mostly by experienced faculty members of Mangalayatan University in consultation with contents experts and the same will be forwarded to CIQA and Board of Studies/Academic Council/ Executive Council for further suggestions and approval.

## STUDY MATERIAL

The study material in digital format (e – content) of the programme shall be supplied to the students unit - wise for every course.

## VIDEO LECTURES

The Video lectures as prescribed by the UGC Regulation shall be made available on the LMS portal of the University.

## ONLINE COUNSELLING SESSIONS

The online counselling sessions shall be scheduled beforehand by the Subject Coordinator and informed to the learners.

There shall be 6 online counselling sessions / contact classes of 1 hours each for a 4 credit course, held on Saturdays and Sundays. In case of 2 credits course there shall be 4 sessions of 1 hours each and in case of 6 credits course there shall be 8 sessions of 1 hours each.

## MEDIUM OF INSTRUCTION

Medium of Course Instruction:	English
Medium of Examination:	English



# STUDENT SUPPORT SYSTEMS

The university will appoint programme coordinators, course coordinator and course mentors to facilitate the learners in their learning.

Finally, The university has made appropriate arrangements for various support services including online counselling and resource-oriented-services, evaluation methods for both on and off line modes for easy and smooth services to the students' through online mode.

## PROCEDURE FOR ADMISSIONS, CURRICULUM, TRANSACTION AND EVALUATION

FEE STRUCTURE							
Name of the Program	Degree	Duration	One Time Reg. Fee	Semester Fee	Exam Fee Per Semester	Full Year Fee	Total Fees
UG Diploma in Basic Science (PCM)	UG	1 Years	1000	9000	1000	20000	21000
<b>Total</b>							<b>21000</b>

ACTIVITY SCHEDULE							
S.NO.	Name of the Activity	Tentative months schedule (specify months) during year					
		From(Month)	To (Month)	From(Month)	To (Month)	From(Month)	To (Month)
1	Admission	Jul	Sep	Jan	Mar	Apr	Jun
2	Assignment submission (if any)	Sep	Oct	Mar	Apr	May	Jun
3	Evaluation of Assignment	Oct	Nov	Apr	May	Jun	Jul
4	Examination	Dec	Dec	Jun	Jun	Jul	Aug
5	Declaration of Result	Jan	Jan	Jul	Jul	Aug	Aug
6	Re-registration	Jul	Jul	Jan	Jan	Feb	Feb
7	Distribution of SLM	Jul	Sep	Jan	Mar	Apr	Jun
8	Contact Programmes (counselling, Practicals.etc.)	Sep	Nov	Mar	May	Jun	Aug

\* These dates are tentative. Final dates will be informed well in advance on your LMS.



### CREDIT SYSTEM

Duration of the Programme	Credits	Name of the Programme	Level of the Programme
1 year	40	UG Diploma in Basic Science (PCM)	Diploma

## WHY ONLINE EDUCATION?

- ◆ Comfortable and Flexible
- ◆ Convenience of attending classes from home
- ◆ Cost Effective
- ◆ Time saving
- ◆ No commuting
- ◆ Monetary benefits- No textbooks required
- ◆ Repeated access to the same lecture
- ◆ Study anytime, anywhere
- ◆ Write proctored exam from home

## ADMISSION PROCESS

- ◆ Register with Mangalayatan Online Programs
- ◆ Pay Registration fees through our available payment gateways
- ◆ Upload relevant documents and mark sheets
- ◆ Get provisional admission
- ◆ Pay semester fees
- ◆ Get admission confirmation from University
- ◆ Roll number allotted to every student
- ◆ LMS id and password creation.





**Mangalayatan**  
**ONLINE**

## Contact Us

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