

FIRST-YEAR OF MASTER OF SCIENCE IN PHYSICS REVISED SYLLABUS ACCORDING TO CBCS NEP2020

COURSE TITLE:- ELECTIVE PRACTICAL-II SEMESTER-I, W.E.F. 2023-2024

RECOMMENDED BY THE BOARD OF STUDIES IN PHYSICS AND APPROVED BY THE ACADEMIC COUNCIL

Devrukh Shikshan Prasarak Mandal's

Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh. Tal.Sangmeshwar, Dist. Ratnagiri-415804, Maharashtra, India

Academic Council Item No: 03 dated 8 July 2023

Institute Commerce, and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh. Tal. Sangmeshwar, Dist. Ratnagiri-415804, Name of the Parent University i University of Mumbai Master of Science Name of the Department i Physics Name of the Class First Year Semester i First No. of Credits i 02 Title of the Course Elective Practical -II Course Code S508PHP Name of the Vertical in adherence to NEP 2020 Eligibility for Admission BSc in Physics Passing Marks 40% Mode of Assessment Evel PG Pattern of Marks Distribution for SEE Status To be implemented from Academic Vaar	Name of the Implementing	:	Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre
Sangmeshwar, Dist. Ratnagiri-415804, Name of the Parent University : University of Mumbai Name of the Programme : Master of Science Name of the Department : Physics Name of the Class : First Year Semester : First No. of Credits : 02 Title of the Course : Elective Practical -II Course Code : S508PHP Name of the Vertical in adherence to NEP 2020 Eligibility for Admission : BSc in Physics Passing Marks : 40% Mode of Assessment : Summative at the end of semester Level : PG Pattern of Marks Distribution for SEE Status : NEP-CBCS To be implemented from Academic : 2023-2024	Institute		Commerce, and Vid. Dadasaheb Pitre Science
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Pattern of Marks Distribution for : 100 % SEE Status : NEP-CBCS To be implemented from Academic : 2023-2024	Mode of Assessment	:	Summative at the end of semester
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To be implemented from Academic : 2023-2024	SEE		
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1 641	Year		

Syllabus for First Year of Master of Science in Physics

(With effect from the academic year 2023-2024)

SEMESTER - I

Course Title: ELECTIVE PRACTICAL No. of Credits - 02

Type of Vertical: Elective-II COURSE CODE: S508PHP

Learning Outcomes Based on BLOOM's Taxonomy:

After completing the course, the learner will be able to			
Course Learning Outcome No.	Blooms Taxonomy	Course Learning Outcome	
CLO-01	Remember	Memorize the theory related to the experiments in the course	
CLO-02	Understand	Understand the main principle in each of the experiments	
CLO-03	Apply	Interpret the results of the experiments	
CLO-04	Analyze	Explain various parameters involved in the experiments	

Syllabus for First Year of Master of Science in Physics

(With effect from the academic year 2023-2024)

SEMESTER - I

Course Title: ELECTIVE PRACTICAL-II No. of Credits - 02

Type of Vertical: Elective-II COURSE CODE: S508PHP

COURSE CONTENT

List of Practicals

- 1. Determination of particle size of lycopodium particles by laser diffraction method
- 2. Resistivity by four probe method
- 3. Microwave oscillator characteristics
- 4. Temperature on-off controller using IC
- 5. Waveform Generator using ICs
- 6. Instrumentation amplifier and its applications
- 7. Study of 8 bit DAC
- 8. 16 channel digital multiplexer
- 9. Study of elementary digital voltmeter

Access to the Course

The course is available for all the students admitted for Master of science with Physics.

Methods of Assessment

Vocational Skill Courses, Skill Enhancement Courses and the courses having laboratory sessions shall be assessed at the end of each semester.