



Departmental Profile

(YEAR -2025-26)

1. **Name of Department: PHYSICS**
2. **Date of Establishment :2013**
3. **Nature of Department in Brief :**

Physics lies at the core of all scientific and technical disciplines.

Mission –

1. To provide high quality physics education, producing well prepared graduates who are confident in their abilities and understanding of physics.
2. To provide students who will make a wide range of career choices with an outstanding learning experience in which they develop strong analytical, quantitative and problem solving skills with a deep appreciation of the role physics plays in technical innovations.
3. To impart education which may provide innovative skills in their respective area of specialization for society at large and to generate and disseminate/propagate innovative knowledge and differential thinking in the field of Physics essential to the local and global need.
4. To develop competent man power with deep awareness in human values and ethics - creating globally acceptable high quality skilled, potential, professional individuals for Industries, Academics and Society at large.

4. Program and Course details (2025-26)

Program Name: B.Sc. PHYSICS Program Code: 1S00145

Program		
Sr. No.	Course name	Course Code
1.	SEM-I-Physics Paper I- Introduction to mechanics	USPH-101
2.	Physics Practical-I	USPH-P-01
3.	Laboratory Equipment Maintenance	USPHPVSC1
4.	Physics paper II-Optics	USPH-201
5.	Physics skill enhancement course-Basics instrumentation skill&	USPHSEC1

	Basic mathematical skills for physics	
6.	Vocational skill course-Laboratory equipment maintenance	USPHPVSC1
7.	SEM-II- Physics-paper-II-Optics	USPH-202
8.	Practical-II	USPH-P-02
9.	ICT Tool for Physics-SEC-2	USPHSEC2
10.	VSC-2 PCB Making	
11.	SEM-III- Physics-paper I- Mathematical methods for Physics-MJ-I	MJ-1
12.	Physics paper II-Electrodynamics	MJ-2
13.	Practical-Course-3	USPHP-3
14.	SEC-2 –Battery inverter testing &Maintenance	SEC-2
15.	Physics Minor Course-Mechanics	MN--1
16.	Practical-practical-course-MN	USPH-PMN
17.	Field Project	FP
18.	SEM-IV- Physics paper –MJ-I Introduction to Quantum Mechanics	MJ-5
19.	Advance Electronics –MJ-2	MJ-6
20.	Practical-Course-4-MJ	USPHP-4
21.	Physics Minor Course-Sound	USPHMN-1
22.	Practical-Course-Minor-	USPHPMN-1
23.	VSC-2 –Computer maintenance	VSC-2
24.	CEP-Community Engagement Program	CEP
25.	SEM-V- Physics Paper-I Mathematical Methods in physics	USPH-501
26.	Physics Paper II Solid-state-physics	USPH-502
27.	Physics paper III\ Atomic Physics	USPH-503
28.	Physics Paper IV Electrodynamics’	USPH-504
29.	Practical Physics paper I	USPH-P05
30.	Practical Physics Paper I	USPH-P06
31.	Physics paper I Classical-Mechanics	USPH-601
32.	Physics Paper II	USPH-602

	Electronics	
33.	Physics paper III Nuclear—physics	USPH-603
34.	Physics Paper IV Relativity	USPH-604
35.	Practical Physics paper I	USPH-605
36.	Practical Physics Paper I	USPH-606

5. List of Teachers

Sr. No.	Name of Teacher	Designation	Qualification	Date of Joining	Experience
1	Dr. Kailas Prabhakar Joshi	Assistant Professor	M.Sc. Ph.D.	25/08/2015	11 Years
2	Dr. Amardeep Tulshiram Shinde	Assistant Professor	M.Sc. Ph.D.	1/10/2015	11 Years
3	Mrs. Aishvarya D. Dhangekar	Assistant Professor	M.Sc. SET	15/02/2023	3 Year

6. List of Non-Teaching staffs :

Sr. No.	Name of Teacher	Designation	Date of Joining	Experience
1.	Ajinkya Arvind Zamare	Lab Assistant	30/11/2013	13 Years
2	Ganesh Balu Wagh	Lab Attendant	28/11/2014	12 Years
3	Machindra Shamrao Ingole	Lab Attendant	27/2/2017	10 Years

7. Research Activities and Publications

Sr. No.	Name of Teacher	No. of Publications
1	Dr. Kailas Prabhakar Joshi	Research Papers- 30 , Books-2 ,Chapter in book -5
2	Dr. Amardeep Tulshiram Shinde	Research paper -30, Books- Chapter in Book -2
3	Mrs. Aishvarya Dattatray Dhangekar	Research paper -1

8. Details of Final Year results (Last Year)

Sr. No.	Name of Students	Pointer Obtained	Grade Obtained
1	Ashwini Santosh Bhurkut	9.10	A

2	Rutuja Datta Salgar	8.17	A
3	Heramb Dilip Wani	8.78	A
4	Rohit Deu Sutar	7.48	B
5	Unnati Sanjay Sawant	8.88	A
6	Diya Kathole	8.52	A

9. Activities Done (Since 2025-26)

2025-26 (pdf format) (must include Name of Activity, Brief about Activity with Geo tag Photos with headlines)

2025-262 (pdf format) (must include Name of Activity, Brief about Activity with Geo tag Photos with headlines)

10. Syllabus (2023-24) (if Applicable)

<https://mu.ac.in/syllabus#1548848029418-4f01e655-210d>

<https://mu.ac.in/wp-content/uploads/2022/11/Vide-Item-No.-6.15R-Revised-syllabus-of-F.Y.B.Sc-Physics-Sem--I-II-CBCS.pdf>

<https://mu.ac.in/wp-content/uploads/2023/07/S.Y.B.Sc.-Physics-.pdf>

<https://old.mu.ac.in/wp-content/uploads/2016/06/TYBSc-Physics-FINAL-Syllabus.pdf>

<https://mu.ac.in/syllabus-of-nep-2020>



I/C Principal

Shikshak Sanchalit Shikshan Sanstha's
Dr. Shantilal Dhanji Devsey Arts College &
Commerce & Science College, Wada, Dist. Palghar