



Departmental Profile

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 (2024-25)

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

Program		
Sr. No.	Course name	Course Code
1.	Physics Paper I Introduction to mechanics	USPH-101
2.	Physics Practical-I	USPH-P-01
3.	Laboratory Equipment maintainance	USPHPVSC1
4.	Physics paper II-Optics	USPH-201
5.	Physics skill enhancement course	USPHSEC1
6.	Vocational skill course	USPHPVSC1
7.	ICT Tool for Physics-SEC	USPHSEC2
8.	Physics-paper-II-Electricity and Electronics	USPH-202
9.	Practical-II	USPH-P-02
10.	Physics-paper I- Thermodynamics and temperature Transducer	USPH-301
11.	Physics paper II-Electronics	USPH-302
12.	Physics paper I-Mathematical methods and Applied physics	USPH-303

13.	Practical-Course-3	USPHP-3
14.	Physics paper I-Optics and Applied physics II	USPH-401
15.	Physics paper II-Electrodynamics	USPH-402
16.	Physics paper III-Quantum Physics	USPH-403
17.	Practical-practical-course-4 ABC D	USPHP-4
18.	Physics Paper-I Mathematical Methods in physics	USPH-501
19.	Physics Paper II Solid-state-physics	USPH-502
20.	Physics paper III\ Atomic Physics	USPH-503
21.	Physics Paper IV Electrodynamics'	USPH-504
22.	Practical Physics paper I	USPH-P05
23.	Practical Physics Paper I	USPH-P06
24.	Physics paper I -Classical-Mechanics	USPH-601
25.	Physics Paper II Electronics	USPH-602
26.	Physics paper III Nuclear—physics	USPH-603
27.	Physics Paper IV Relativity	USPH-604
28.	Practical Physics paper I	USPH-605
29.	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	10 Years
2	Dr. Amardeep Tulshiram Shinde	Assistant Professor	M.Sc. Ph.D.	1/10/2015	10 Years
3	Mrs.Aishvarya.D..Dhangekar	Assistant Professor	M.Sc. SET	15/02/2023	2 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	12 Years

2	Ganesh Balu Wagh	Lab Attendant	28/11/2014	11 Years
3	Machindra Shamrao Ingole	Lab Attendant	27/2/2017	9 Years

7. Research Activities and Publications

Sr. No.	Name of Teacher	No. of Publications
1	Dr. Kailas Prabhakar Joshi	Research Papers- 25 , Books-2 ,Chapter in book -3
2	Dr.Amardeep-Tulshiram Shinde	Research paper -28 Books- Chapter in Book
3	Mrs.Aishvarya Dhangekar	Research paper -1

8. Details of Final Year results (Last Year)

Sr. No.	Class	Name of Student	CGPA	Grade
1	T.Y.B.Sc	Chaudhari Sunil Shivram	8.88	A
2	T.Y.B.Sc	Khokle Dashrath Hanumant	8.62	A
3	T.Y.B.Sc	Bhamare Sanika Dipak	7.78	A
4	T.Y.B.Sc	Kasat Amruta Suresh	7.28	A
5	T.Y.B.Sc	Gavit Bhushan Sanjay	7.26	A
6	T.Y.B.Sc	Thapad Ajit kashiram	7.11	A

9. Activities Done (Since 2021-22)

2022-23 (pdf format) (must include Name of Activity, Brief about Activity with Geo tag Photos with headlines)

2021-22 (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>

K. Bhagat
PRINCIPAL

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Dr. Shantilal Dhanji Devsey Arts College
& Commerce & Science College,
Wada, Dist. Palghar