

DEPARTMENT OF PHYSICS

Vision -

‘Development of scientific attitude and create the interest in various innovative practices’

Mission –

- To enable the students to handle the basic instruments;
- To introduce the students in various research oriented activities;
- To inculcate scientific & Critical sense among them;
- To help them to appreciate recent developments in science and technology;
- To imbibe professional skills through physical sciences.

1. **Year of Establishment of Department** : 1990

2. **Programs** : UG – B.Sc.

3. **Pattern** : Semester (CBCS)

- UG Course : B.Sc. (Physics)
: B.Sc.I : Paper I, II, III & IV
: B.Sc. II : Paper V, VI, VII & VIII
: B.Sc. II : Paper IX, X, XI, XII, XIII, XIV, XV & XVI
- Skill Based Short term Certificate Course: *Maintenance and repairs of electric domestic appliances.*
- Skill Based Short term value added Course: *Prevention and care from electric shocks*
- Basics of Electric Circuits

Faculty Profile:

Sr. No	Name of Faculty	Qualification	Designation	Specialization	Experience in Years
1	Dr. U. K. Mohite	M.Sc., Ph.D.	Professor	Theoretical Physics	33 Years.
2.	Mr. H. R. Ingawale	M.Sc., M.Phil	Associate Professor		32 Years
3.	Dr. C. E. Patil	M.Sc., Ph.D	Associate Professor	General Physics and Applied Electronics	31 Years

4. Academic Membership:

Dr. U. K. Mohite:

1. Member, Board of Studies in Physics of Shivaji University, Kolhapur, (2006-2011),
2. Member, 32/5(g) Committee, for Physics, Shivaji University, Kolhapur.(2006-2011).
3. Permanent Recognition as a Post – Graduate teacher/ M. Phil, Ph.D. guide, from feb.2013.
4. Member, Board of Studies in Physics of Shivaji University, Kolhapur, (2017-22).

Dr. C. E. Patil

1. Permanent Recognition as a Post – Graduate teacher/ M. Phil, Ph.D. guide.
2. One student awarded Ph.D. and one student working under his guidance.
3. Worked BOS sub-committee member in Physics Shivaji University, Kolhapur.

5. Seminar/ Conference/ Workshop Organized by Department :

1. One Day Workshop on “The Experimental Skills and Applications in B.Sc. Physics Practical.” Under Lead college Scheme, Bharati Vidyapeeths M. B. S. K. Kanya Mahavidyalaya, Kadegaon.,27th Jan.2017.
2. One Day Workshop on “Experimental Skills in B.Sc. Practical.” Under Lead college Scheme,Bv’s M.B.S.K. Kanya Mahavidyalaya, Kadegaon.,20th Dec.,2018
3. One Day Workshop on “Research Methodology” , BV’s M.B.S.K. Kanya Mahavidyalaya, Kadegaon.,28thJune.,2022.
4. National Conference on Applications of Advanced Physics & Chemistry for Development of Science 24th June 2022.
5. One Day Workshop on “Advanced Techniques in Teaching-Learning Process” organized on 3rd Nov. 2022.
6. One Day Workshop on “ICT TOOLS: TEACHING AND RESEARCH IN SCIENCE” organized on 18th March 2023.
7. National Conference on “Innovative Advances in Physical, Chemical, Mathematical and Life Sciences- 2024.

6. Academic results at University Examination:

Class	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24 First Term only
B.Sc.I	95.16	88.46	94	91.6	100	90.6
B.Sc.II	96.96	100	100	91	100	84.6
B.Sc.III	100	100	100	100	100	100

7. Prominent Alumni of the Department

Sr. No	Name of Alumni	Designation
1	MulaniMeharaj Abbas	Advocate, Mumbai Highcourt
2	Mane NayanaBalkrushna	Advocate Pune
3	PalekarShitalAppaso	API
4	KulkarniPreranaSadashiv	API
5	ShindeDiplai Ashok	STO
6	PatilVasantiRamchandra	BI Developer, TCS, US
7	PatilMadhavi	Project Lead, Persistant Systems Ltd.,Pune
8	More DivyanganaPratapsinh	Jr.College Lecturer
9	KadamKirtiJaysinh	High school teacher
10	KolekarVijayalaxmi Ashok	High school teacher

11	AmalekarVinayaShriram	High school teacher
12	SalunkheAshaVasant	High school teacher
13	MohiteShubhangiBhagwan	High school teacher

8. Awards received by the Faculty or Students:

1. Dr. U. K. Mohite

A.P.J. Abdul Kalam National Award for teaching, Research and Publications, by International Institute for Social and Economic Reforms(R), Bengaluru.2019.

- '*Excellence Service Award*' for his contribution to the Nation in the field of Research and Publications.

2. Dr. C. E. Patil

Young Research Award 2023 by Institutes of Scholars Bangalore for the work with the following details-

Publication Type: Journal

Paper Title: A facile synthesis of α -Ni(OH)₂-CNT composite films for supercapacitor application.

Journal Name: Advanced Powder Technology.

3. Research Publications :

Sr. No	Faculty	Scopus	Web of Science	PubMed	UGC Care	Referred Peer Reviewed Journals	Conference Proceeding
1	Dr. U. K. Mohite	-	-	-	05	08	04
2	Shri. H. R. Ingawale	03	-	-	01	-	01
3	Dr. C. E. Patil	08	-	-	-	01	02
4							

4. Book:

- Hand Book ;Practical Course in Physics,Prarup Publications, Kolhapur

5. Chapters in Book Published :

- **Dr. U. K. Mohite**

1. The study of Yttrium Selenide based storage electrode in PEC storage cell, Advances in Functional & Sustainable Materials,2022,Bhumi publishing.

2. Studies on use of yttrium sulphide as the storage electrode in electrochemical (PEC) cell, RTPAS2021 Conference Proceeding RJLPBCS2022, Dr.P.Kcollege.

3. Microwave Assisted Synthesis and characterization of MG-CO-ND-CD Nanoparticles, Advances in Functional & Sustainable Materials,2022,Bhumi publishing.

4. The study of Yttrium sulphide –based storage electrode in storage cell., Recent Advances in Fabrication Technology of Nanomaterials, RAFTN-2022,Prarup Publications.

5. Electrodeposition of Yttrium Chalcogenide Thin Films and its Photoelectric (PEC) Properties,conference,Innovationin smart and technomaterials(ICISTM-2022),Bhumi publishing

- **Dr. C. E. Patil**

1. Synthesis of Silver Nanoparticles by Using Curucuma Longa Leaf Extract and Study Antibacterial Activity of Prepared Ag nanoparticles.