



**VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE,
SAMUDRAPUR , Dist- Wardha 442305 (MS)**

**DEPARTMENT OF PHYSICS
DEPARTMENTAL PROFILE – SESSION 2024 -2025**

1. Faculty profile :

Sr. No	NAME	DESIGNATION	QALIFICATION	EXPERIENCE (Years)
1	Dr. Kishor G. Rewatkar	Principal, Professor	M Sc, Ph. D.	36
2	Mr Sadanand R Sarve	Assist Professor	M Sc, SET	12
3	Mr Nitesh D Shambharkar	Assist Professor	M Sc, Ph. D, NET	11

2. Students Profile :

Sr.No.	Class	No.of student admitted		Appeared for exam.		Pass out students		Percentage of passing	
		Sem I	Sem II	Sem I	Sem II	Sem I	Sem II	Sem I	Sem II
1	B.Sc.I Physics (NEP)	19	19	19		19	--	100	--
		Sem III	Sem IV	Sem III	Sem IV	Sem III	Sem IV	Sem III	Sem IV
2	B.Sc II	54	54	54	--	52	--	96.29	--
		Sem V	Sem VI	Sem V	Sem VI	Sem V	Sem VI	Sem V	Sem VI
3	B.Sc.III	48	48	48	--	45	--	93.75	--
		Sem III	Sem IV	Sem III	Sem IV	Sem III	Sem IV	Sem III	Sem IV
4	M Sc II	1	1	1	--	00	--	00.00	--

3. Changes made in the courses or programmed during the past two years and the contribution of the faculty to those changes.: Yes

- The curriculum program of B Sc Semester I is as per New Education Policy (NEP)-2020

4. The learning resources of the department Library :

The Physics Department's library holds over 100 books on physics, extensively used by B.Sc. and M.Sc. students. It includes up-to-date resources like those related to NEP-2020.

5. Number of major and minor Instruments in the Department:

Major instruments (11) with cost of 570542/- Rs. and minor instruments (100) with cost of 626969/- Rs

6. Guest Lectures/ Activities:

- Instrument handling workshop on 15th July 2024 in Physics Laboratory.
- Bridge Course for B Sc Semester-I Physics students from 15 July – 31 July 2024.
- Organized Induction program for B Sc & M Sc Semester-I students on 21st August 2024.
- Guest lecture of respected Principal Dr. Kishor Rewatkar on ‘Artificial Intelligences’ on 20th September 2024.
- Inauguration of physics society on 20th September 2024.
- Celebration of ‘International Day for the preservation of the Ozone layer’ on 4th October 2024.
- Participation of students in seminar and science model exhibition on 28th Feb. 2025 and cultural festival.

8. Modern teaching methods and use of ICT in teaching – learning

a) Teaching methods: ICT Technologies used are Power Point Presentations, YouTube Video, Google forms, etc.

b) Evaluation methods: Evaluation of students are done on the basis of performance test and assignments.

c) Use of ICT: whatsapp groups, OBS software, YouTube, Google Forms, Projector and PPT, etc.

1. Mr Sadanand R Sarve, Assistant Professor, Physics

- More than 100 video lectures on the YouTube.
- Use PPT and Projector in Teaching
- Channel Link:

https://www.youtube.com/channel/UCxJAormxQbjofrxfln_eEPw

2. Dr Nitesh D. Shambharkar , Assistant Professor, Physics.

- Use PPT and Projector in Teaching

A) Teaching work load

Sr. No.	Name of the lecturer	Subject	Class	Periods Allotted		Total Work Load (Hrs.)
				L	P/T	
1	Dr. K.G. Rewatkar	Physics	B Sc I B Sc I B Sc III	0 02 02	-- 02	06
2	Mr. S. R. Sarve	Physics	B.Sc.I B. Sc II B. Sc. III	03 02 02	06 02 02	17
3	Dr N.D. Shambharkar	Physics	B.Sc.I B. Sc II B. Sc. III	03 02 02	06 02 02	17

1. Dr. K. G. Rewatkar (Professor, Principal):

- Peer Team Member for NAAC assessment Committee.
- Founder General Secretary of Society for Technologically Advanced Materials, India (STAMI).
- Conducted Capacity Building Program (CBP) organized by Center of Excellence/Training Unit CBSE.
- Life member of Indian Association of Physics Teachers (IAPT), India
- Life member of Indian Science Congress, India
- Life member of Electron Microscopy of India.

b) Publications (Research Paper/Books etc):

Sr. No.	Title of paper/ book	No of Authors	Name of Journal ISSN ad ISBN no	Year	Impact Factor
1	Impact of trivalent Al substitution on the structural, magnetic and dielectric properties of Ni-Cu ferrite nanoparticles	02	Inorganic Chemistry Communication Volume 173	March 2025	-
2	Investigating impact of Ni-Cd substitution on structural magnetic and optical properties of nanosize Al ferrites	04	Heliyon , A cell press Journal Volume 10, 2405-8440	Oct-2024	3.4
3	Structural and magnetic properties of aluminium substituted Ni-Cu spinel ferrite	05	Nano structured and Nano Objects, Volume 39, 2352-507X	Sept-2024	--

4	Chapter 15: Metal Nanoparticles Biosynthesis Approach and Bio-Packaging Application	05	Novel Anti-Corrosion and Anti-Fouling Coatings and Thin Films Print ISBN:9781394234288 Online ISBN:9781394234318	Sept-2024	
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2. Mr. S. R. Sarve (Assistant professor):

a) National conference/workshop/seminar attended :

Sr. No.	Conference/ workshop/ seminar	Title	Date	Venue
1	Workshop	Intellectual Property Rights	24 Oct 2024	Online- Science College, Bhiwapur.
2	International Conference	Materials and Applied Science for Society (MASS 2024)	30, 31 st Dec 2024	Anand Niketan college, Warora.
3	National Seminar	Recent Trends in Material Science for sustainable development.	03,04 Feb 2025	S S Jaiswal College, Arjuni (Mor.)

b) Publications (Research Paper/Books etc):

Sr. No.	Title of paper/ book	No of Authors	Name of Journal ISSN ad ISBN no	Year	Impact Factor
1	Investigation of Structural and Magnetic Properties in Aluminium-Substituted Cobalt-Zinc Ferrite Metal Oxides	06	Journal of Condensed Matter ISSN 2583-9152	April 2025	-
2	Space Science	04	Alliance Publication ISBN 9789348359827	Oct-2024	

c) Refresher/ Orientation/Short term course/ Summer school/MOOC/FDP/Workshop :

Sr. No.	Programme	Duration	Organised By
1	Faculty Development Program	26 th and 27 th July 2024	Vidya Vikas Arts Commerce and Science College, Samudrapur
2	Research Methodology in Natural Sciences	Jan- April 2025	MOOC Course SWAYAM NPTEL
3	Biophotonics	Jan- April 2025	MOOC Course SWAYAM NPTEL

ANY OTHER ACTIVITY :

1. Coordinator Critrion-III of AQAR .
2. Member of Academic Administrative Audit Preparation Committee.
3. Member of API Scrutiny Committee.

4. Member of NEP School Connect Program.
5. Organising Secretary of two days National Level Multidisciplinary Online Conference on CONVERGING PERSPECTIVES: SCIENCE,HUMANITIES & SUSTAINABILITY

3. Dr. Nitesh D. Shambharkar (Assistant professor):

a) National conference/workshop/seminar attended :

Sr. No.	Conference/workshop/seminar	Title	Date	Venue
1	Two days National Level Multidisciplinary Online Conference	Converging Perspectives: Science, Humanities & Sustainability	21 & 22 February 2025	Online, VVC Samudrapur
2	One Day National Interdisciplinary E-Conference	Modern and Social Aspects in Literature and Social Science	03/042025	Online, VVC Samdrapur

c) Refresher/ Orientation/Short term course/ Summer school/MOOC/FDP/Workshop :

Sr. No.	Programme	Duration	Organised By
1	Refresher Course in Physics	13/12/2024 to 16/12/2024	MMTTC DAV, Indore
2	FDP on New Education Policy	26 & 27 July 2024	Vidya Vikas College, Samudrapur

ANY OTHER ACTIVITY :

1. SPOC of NPTEL local Chapter
2. Course coordinator of Value Added Certificate course in Nanoscience and Nanotechnology.
3. Member of ECGC and Mentor mentee Scheme of VVC Samudrapur.
4. Coordinator of Research and Development Cell.
5. Ashvini V Meshram, Indrani B Das Sarma, Kishor M Hatzade, Nitesh D. Shambharkar "Structural Comparison of Ferrites Synthesized via Two Different methods and Their Adsorption Analysis" International Journal of Research and Analytical Reviews(IJRAR) March 2025, Volume 12, Issue 1

Date: 19/04/2025

Place: Samudrapur

Mr Sadanand R. Sarve
HOD, Assistant Professor
Department of Physics

Mr Nitesh D Shabharkar
Assistant Professor
Department of Physics

Principal