

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

**DEPARTMENT OF PHYSICS
DEPARTMENTAL PROFILE – SESSION 2020 -2021**

1. Faculty profile :

Sr. No	NAME	DESIGNATION	QALIFICATION	EXPERIENCE (Years)
1	Dr. Kishor G. Rewatkar	Principal	M Sc, Ph. D.	32
2	Mr Sadanand R Sarve	Assist Professor	M Sc, SET	9
3	Mr Nitesh D Shambharkar	Assist Professor	M Sc, NET	7

2. Students Profile :

Sr.No.	Class	No.of student admitted		Appeared for exam.		Pass out students		Percentage of passing	
		SemI	SemII	SemI	SemII	SemI	SemII	SemI	SemII
1	B.Sc.I (Theory)	42		42	..				
	B.Sc.I (Practical)	42		41	..	41		100	
		SemIII	SemIV	SemIII	SemIV	SemIII	SemIV	SemIII	SemIV
2	B.Sc II (Theory)	74	73	74	73		--		
	B.Sc.II (Practical)	74					69		100
		SemV	SemVI	SemV	SemVI	SemV	SemVI	SemV	SemVI
3	B.Sc III (Theory)	99	98	99	98	--	--	--	--
	B.Sc.III (Practical)	99	98	99	93	99	93	100	100
4	M Sc Sem-I Physics	25	25	25	25	--	--	--	--

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

- Dr. K G Reawatkar is Member of board of studies Physics, RTM Nagpur University, Nagpur.

- Dr. K G Reawatkar is Member of board of studies Physics, Gondwana University, Gadchiroli.

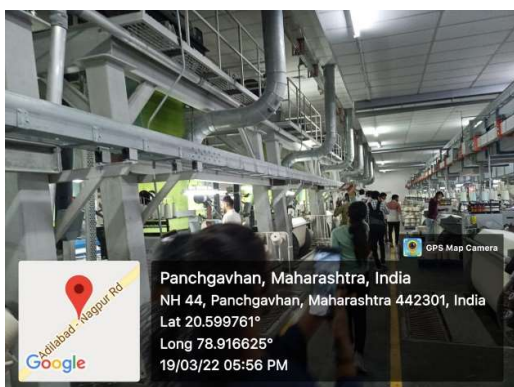
4. The learning resources of the department Library :

The department of Physics have departmental library with more than 100 books on subject physics and well utilized by students of B. Sc and M Sc.

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. Study Tour/ Industrial Visit : Industrial Visit at P V Textile Jam on dated 19 March 2022.



7. Guest Lectures:

- Organized a guest lecture series for B Sc and M Sc Students on 'Quantum Mechanics' from 07-12 February 2022 of Ret. Prof. H C Verma, IIT Kanpur.
- Organized a guest lecture for B Sc and M Sc Students on 'TRENDS OF SINGLE CRYSTAL GROWTH TECHNOLOGY' on 31 March 2022 of Dr. P Rajesh, Department of Physics, SSN College of Engineering, Kalavakkam, Chennai Tamil Nadu 603110.


Dr. Ambedkar College, Deekshabhoomi, Nagpur


In collaboration with


**Vidya Vikas Arts Commerce & Science College,
Samudrapur**

Organises

Invited Talk on


"TRENDS OF SINGLE CRYSTAL GROWTH TECHNOLOGY"

By



Dr. P. Rajesh
 Department of Physics, SSN College of Engineering,
 Kalavakkam, Chennai, Tamil Nadu 603110.

On


31 March 2022 at 11:00 am
 Through Zoom platform

The students will be provided certificate of participation on successfully attendance and submission of feedback form.

Co-ordinators

<p>Dr. Nandkisher Meshram Assistant Professor, Physics Dr. Ambedkar College, Nagpur Email: nandun16@gmail.com</p>	<p>Mr. Saifanand R Sarve Assistant Professor, Physics Vidya Vikas College, Samudrapur. Email: sarve.saifanand@gmail.com</p>
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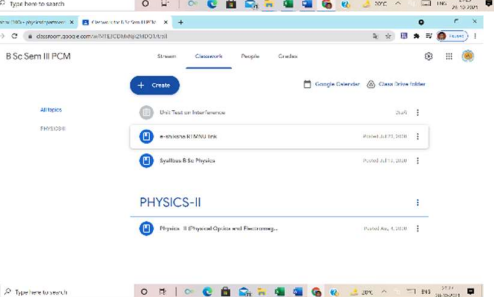
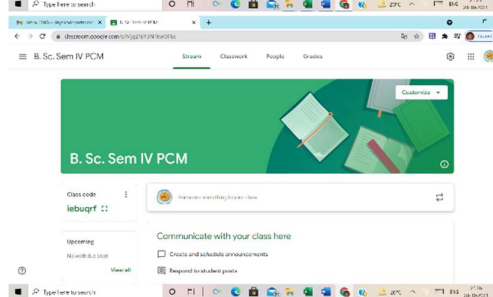
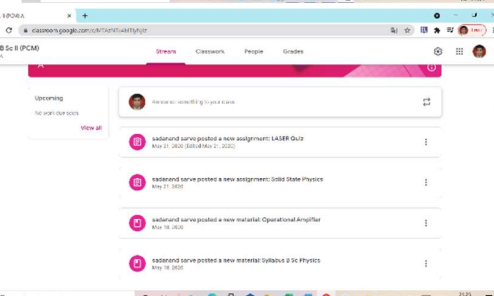
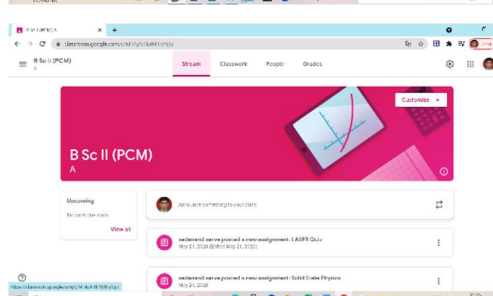
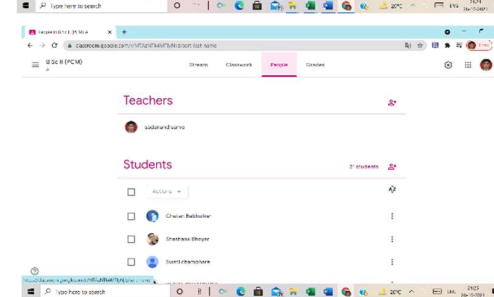
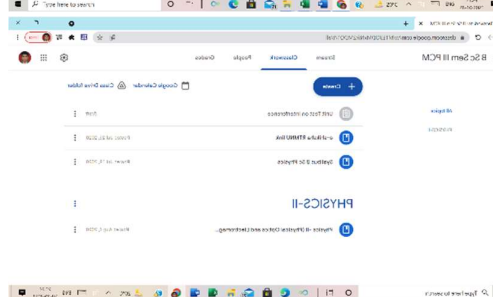
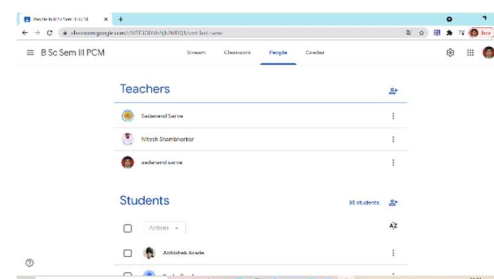
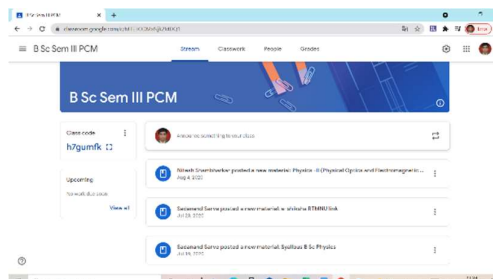
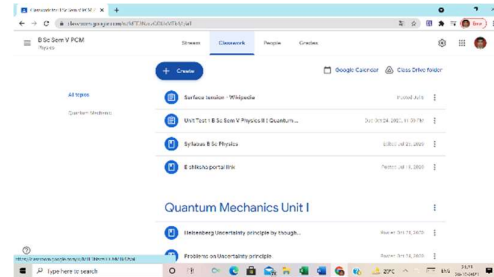
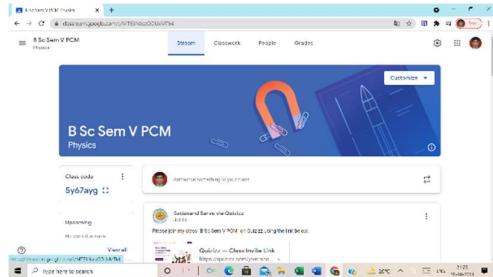
8. Organised VUPTA STUDENT SEMINAR-2022 on 19th and 20th March 2022 in which 150 participant from all over Vidarbha region participated where student seminar, guest lecture and elocution competitions were organized.



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

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

Google Classroom B Sc



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

Google Forms

Department of Physics

The screenshot shows the Google Forms interface with a list of forms. The forms are categorized into 'Yesterday', 'Previous 30 days', and 'Earlier'. The 'Yesterday' section includes forms like 'Second Unit Test B Sc Sem V Physics II (Quantum Mechanics-II)', 'B Sc Sem V Physics II', 'Assignment B Sc Sem V Physics II', 'Second Unit Test B Sc Sem III (Ultrasonic) 2021-22', and 'Second Unit Test B Sc Sem III (Ultrasonic)'. The 'Previous 30 days' section includes 'B Sc Sem III Unit Test 1 Physics I (Session 2021-22)' and 'Unit Test B Sc Sem III Physics I'. The 'Earlier' section includes 'B Sc Sem V Unit Test-1 Quantum Mechanics', 'Unit Test -1 B Sc Sem V Physics-II', 'Unit Test B Sc Sem II (SHM & Damped SHM)', 'B Sc Sem II RTMNU Physics Practical Summer 2021', 'Second Unit Test B Sc Sem V (Quantum Mechanics -2)', and 'B Sc Sem IV RTMNU Physics Practical Summer 2021'.

The screenshot shows the Google Forms interface with the 'Start a new form' section and the 'Recent forms' section. The 'Start a new form' section includes templates like 'Blank', 'Contact Information', 'RSVP', 'Party Invite', 'T-Shirt Sign Up', and 'Event Registration'. The 'Recent forms' section shows a grid of form thumbnails, including 'Second Unit Test B Sc Sem V Physics II', 'B Sc Sem V Physics II', 'Assignment B Sc Sem V P...', 'Second Unit Test B Sc Sem V P...', 'Second Unit Test B Sc Sem V P...', 'B Sc Sem III Unit Test 1 P...', 'Unit Test B Sc Sem III Phys...', 'B Sc Sem V Unit Test-1 Q...', 'Unit Test -1 B Sc Sem V P...', 'Unit Test B Sc Sem II (SH...', 'B Sc Sem II RTMNU Physic...', and 'Second Unit Test B Sc Sem V P...'.

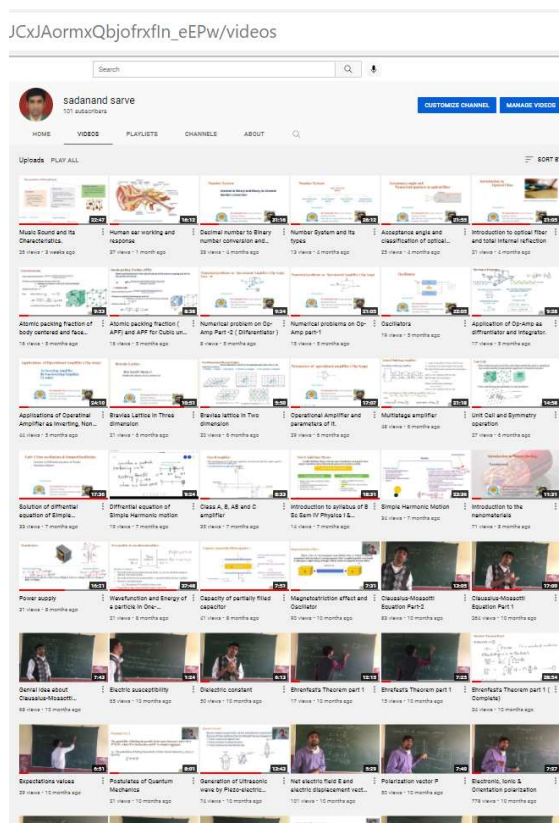
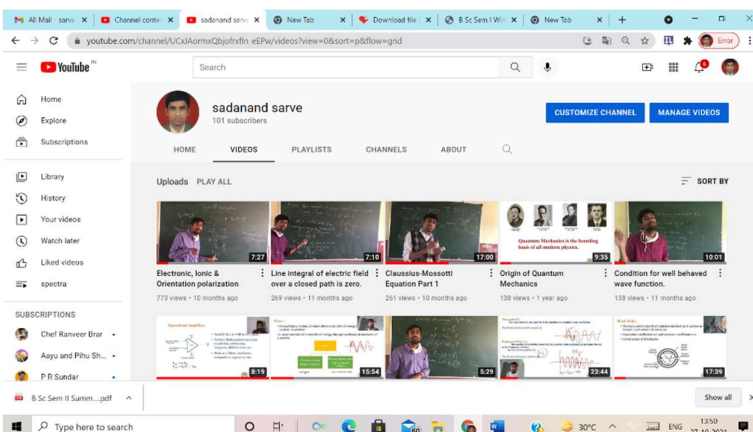
c) Use of ICT: whatsapp groups, OBS software, YouTube, Google Classroom, Google Forms, Projector and PPT, etc.

1. Development of E-Content and use of new Information and Communication Technologies for the students of B Sc Sem I, II, III, IV, V VI

a) YouTube Video Channel:

1. Mr Sadanand R Sarve, Assistant Professor, Physics

- More than 100 video lectures on the YouTube.
- Channel Link: https://www.youtube.com/channel/UCxJAormxQbjofrxfn_eEPw



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

The screenshot shows a YouTube channel page for Nitesh Shambharkar, who has 34 subscribers. The channel features a grid of 18 video uploads, each with a thumbnail, title, and view count. The videos cover various physics topics such as Pauli's Exclusion Principle, Young's modulus, cantilever depression, beam bending, Kepler's Law, electrical conductivity, zone plates, strain energy, limiting values of poisons, resultant amplitude, area of half period zone, and free electron theory.

A) Teaching work load

Sr. No.	Name of the lecturer	Subject	Class	Periods Allotted		Total Work Load
				L	P/T	
1	Shri S. R. Sarve	Physics	B.Sc.I B. Sc II B. Sc. III	03 03 03	00 03 06+02	20
2	Shri N.D.Shambharkar	Physics	B.Sc.I B. Sc II B. Sc. III	03 03 03	06 03 + 01 01	20
3	Dr. K.G. Rewatkar	Physics	B Sc II B Sc III	-	02 02	04

1. Mr. S. R. Sarve (Assistant professor):

a) National conference/workshop/seminar attended :

Sr. No.	Conference/workshop/seminar	Title	Date	Venue

1	A National Webinar	Physics Education Post COVID Era	21-22 July 2020	Indian Association of Physics Education IAPT RC-08 Maharashtra.
2	Faculty Development Programme	Innovations: Teaching-Learning & Research	1-7 June 2022	Vidya Vikas Arts Commerce & Science College, Samudrapur
3	IPR Workshop	IPR and Drafting of research project and research paper	21 August 2021	Vidya Vikas Arts Commerce & Science College, Samudrapur

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	'Synthesis and Luminescence Study of n-UV Excitable Tm ³⁺ - Activated Blue Phosphor'	03	Macromolecular Symposia,	December 2021	0.85 https://doi.org/10.1002/masy.202100019
2	A Textbook on Physics B Sc Semester -II	05	Sai Jyoti Publication ISSN/ ISBN No. 978-93-91201-14-2	2021	

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

Sr. No.	Programme	Duration	Organised By
1	ONLINE TWO - WEEK INTER-DISCIPLINARY REFRESHER "Managing Online Classes & Co-creating MOOCS 6.0"	05 - 19 July, 2021	Teaching Learning Centre, Ramanujan College University of Delhi. Under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING

ANY OTHER ACTIVITY :

1. Coordinator IT Infrastructure Committee for session 2021-22.
2. Member of IQAC for session 2021-22.
3. Member of RTMNU Examination Committee.
4. Member of Admission Committee.
5. Member of Library committee
6. Member of website development committee.

2. Mr. N. D. Shambharkar (Assistant professor):

a) National conference/workshop/seminar attended :

Sr. No.	Conference/ workshop/ seminar	Title	Date	Venue
1	One day webinar	"Nanoscience and Nanotechnology: The Gift of Nature"	20 July 2021	Nabira Mahavidyalay Katol, Dist- Nagpur

2	Faculty Development Programme	Innovations: Teaching-Learning & Research	1-7 June 2022	Vidya Vikas Arts Commerce & Science College, Samudrapur
3	IPR Workshop	IPR and Drafting of research project and research paper	21 August 2021	Vidya Vikas Arts Commerce & Science College, Samudrapur

b) Publications (Research Paper/Books etc)

Sr. No.	Title of paper	No of Authors	Name of Journal ISSN ad ISBN no	Year	Page	Impact Factor
1	Transition to Fully or Partially Arrested State in Coupled Logistic Maps on a Ladder.	3	International Journal of Bifurcation and Chaos, Vol. 31, No. 12 (2021) 2150185 (11 pages) ISSN (Print): 0218-1274, ISSN (online): 1793-6551 https://dx.doi.org/10.1142/S0218127421501856	2021	11 pages	Peer-reviewed Scopus 2.836
2	Optical, P-XRD & U-V Properties by Varying the Concentration of L-valine Amino Acid in Pure KDP	2	Jordan Journal of Physics, Volume 15, Number 1, 2022. pp. 37-42, Doi: https://doi.org/10.47011/15.1.5	2022	Pages 37-42	Peer-reviewed Scopus 0.39

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

Sr. No.	Programme	Duration	Organised By
1.	National Level Faculty Development Program (FDP) on "Materials for Photonic Applications"	Mahatma Gandhi Institute of Technology, Kokapet, Gandhipet Hyderabad-500075	9 th -13 th August 2021
2.	One Week Short Term Training Program (AICTE Sponsored) on Next Generation Wireless Technologies: 5G and beyond	Indo Global College of engineering, Abhipur, New Chandigarh (Online)	16 th - 21 th August 2021

ANY OTHER ACTIVITY :

1. Working as a Chairman of Feedback Committee.
2. Working as a Co-coordinator of Placement cum Career Counseling Committee
3. Working as a Member in Admission of Science Department.
4. Working as a member in Committee of NAAC Criterion V.
5. working as a Member in GAME and Sport Committee.

Date: 16/07/2022

Place: Samudrapur

Mr Sadanand R Sarve
Assistant Professor
Department of Physics

Mr Nitesh D Shabharkar
Assistant Professor
Department of Physics

PRINCIPAL