

Department of Physics

The department of Physics was established in this institute on 2006. We have well equipped laboratory with all necessary instruments as well as dark room for spectroscopic experiments. The M Sc Physics and B Sc programme are run through this, the department of physics has two faculty member Mr. S R Sarve (HOD, Assistant Professor) and Mr. N D Shambharkar (Assistant Professor) with immanent qualification of SET and NET. The faculties are actively engaged in research and curriculum development and published research paper in national and international journals.

We organized educational visit, industry visit, seminar and quiz competition for the development of students. We also provide platform for the students in different seminar completion held in different colleges and institute itself. In such a difficult situation of pandemic COVID-19 department of tries for creating awareness among the student through the quiz. The departmental faculties acquire the new pedology techniques of Google meet, Google Classroom, Google form Quiz and Video lectures for the to enrich the knowledge of the students. The online platforms are actively used by the students and faculties for their educational enrichment.

Mr Sadanand R Sarve
HOD, Assistant Professor, Physics

Mr Nitesh D Shambharkar
Assistant Professor, Physics



Departmental Activities:

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




2. 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

Dr. Nandkishor Meshram
Assistant Professor, Physics
Dr. Ambedkar College, Nagpur
Email: nandun16@gmail.com

Mr. Sahanand R Sarve
Assistant Professor, Physics
Vidya Vikas College, Samudrapur.
Email: sarve.sahanand@gmail.com

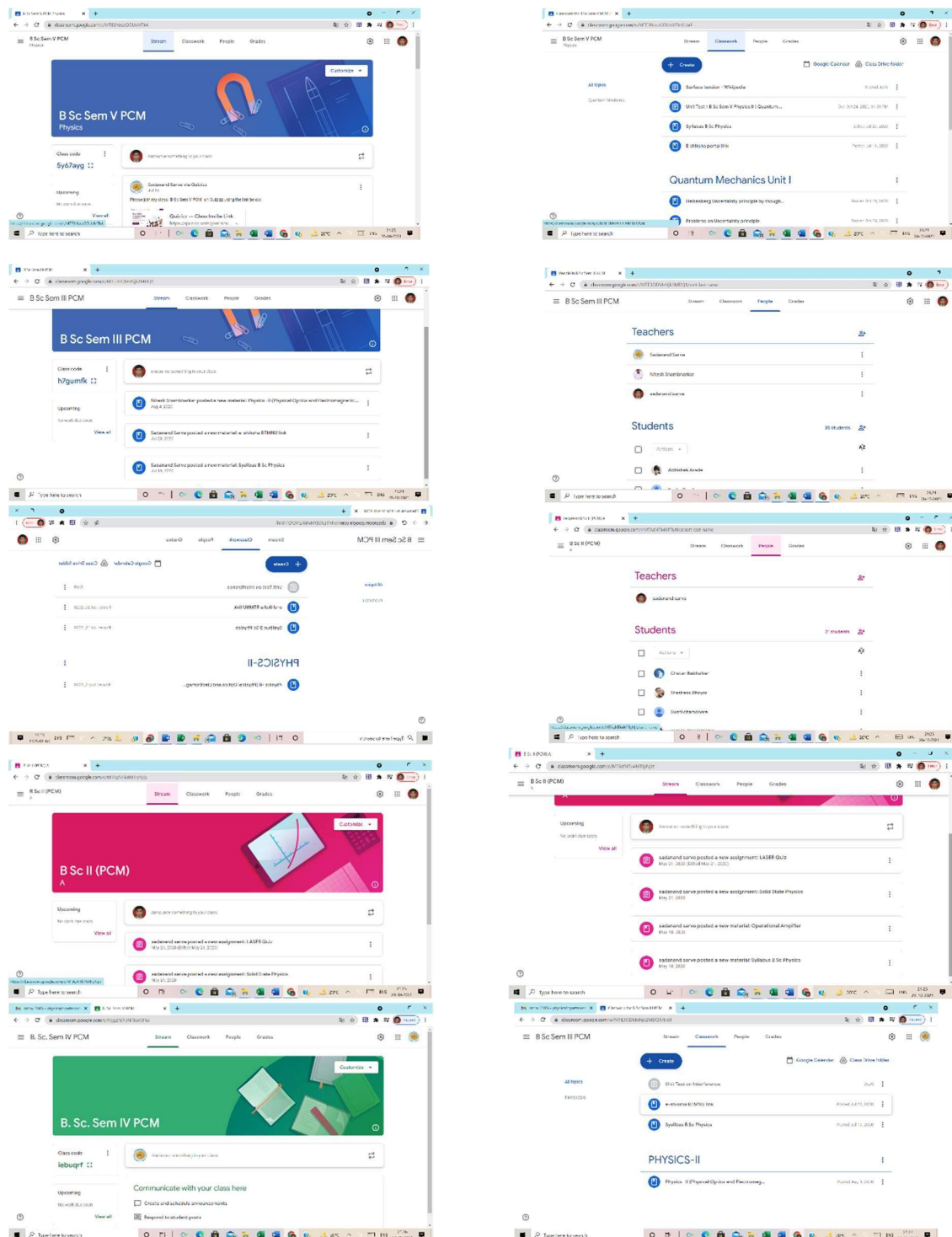
3. Organised VUPTA STUDENT SEMINAR-2022 on 19th and 20th March 2022 in which 150 participant from all over Vidarbha region participated where student seminar, guest lecture and elocution competitions were organized.



4. 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 displays the Google Forms interface for the Department of Physics. The top navigation bar includes the Google Forms logo and a search bar. Below the navigation bar, there is a list of forms organized into three categories: Yesterday, Previous 30 days, and Earlier. Each form entry includes a title, a status (e.g., 'me'), and a date. The forms listed include various unit tests and assignments for different semesters and topics like Quantum Mechanics, Physics II, and SHM.

Form Title	Status	Date
Second Unit Test B Sc Sem V Physics II (Quantum Mechanics-II)	me	Oct 27, 2021
B Sc Sem V Physics II	me	Oct 27, 2021
Assignment B Sc Sem V Physics II	me	Oct 27, 2021
Second Unit Test B Sc Sem III (Ultrasonic) 2021-22	me	Oct 27, 2021
Second Unit Test B Sc Sem III (Ultrasonic)	me	Oct 27, 2021
Previous 30 days		
B Sc Sem III Unit Test 1 Physics I (Session 2021-22)	me	Oct 1, 2021
Unit Test B Sc Sem III Physics I	me	Oct 1, 2021
Earlier		
B Sc Sem V Unit Test-1 Quantum Mechanics	me	Sep 17, 2021
Unit Test -1 B Sc Sem V Physics-II	me	Sep 15, 2021
Unit Test B Sc Sem II (SHM & Damped SHM)	me	Aug 13, 2021
B Sc Sem II RTMNU Physics Practical Summer 2021	me	Aug 10, 2021
Second Unit Test B Sc Sem V (Quantum Mechanics -2)	me	Aug 6, 2021
B Sc Sem IV RTMNU Physics Practical Summer 2021	me	Aug 6, 2021

Below the list of forms, there is a section for 'Start a new form' with options like Blank, Contact Information, RSVP, Party Invite, T-shirt Sign Up, and Event Registration. A 'Recent forms' section shows a grid of thumbnails for previously used forms, including various unit tests and assignments.

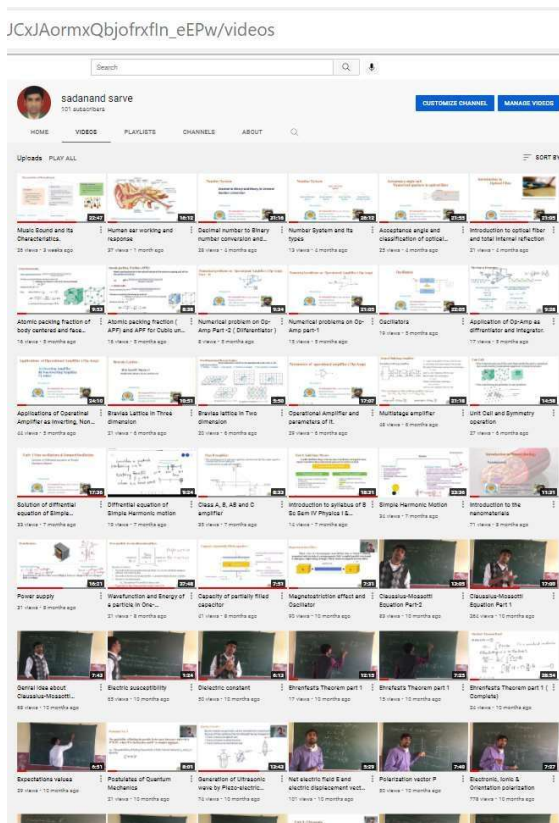
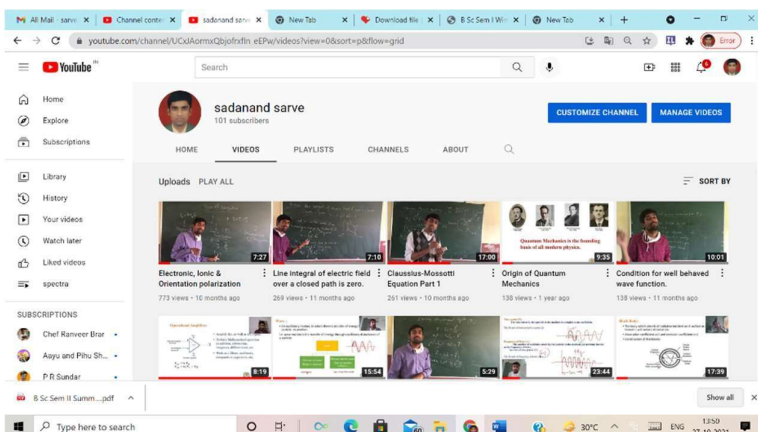
c) Use of ICT: whatsapp groups, OBS software, YouTube, Google Classroom, Google Forms, Projector and PPT,etc.

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/UCxJAormxQbjofrxfln_eEPw



Dr Nitesh D. Shambharkar , Assistant Pro



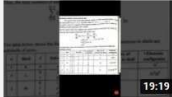
Nitesh Shambharkar
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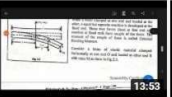
Pauli's Exclusion Principal, Multiplicity and Hunds Rule
34 views • 1 hour ago



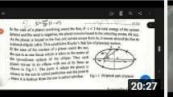
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zone plate
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Resultant amplitude at point P due to half period Zone
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Area of Half period Zone
20 views • 1 hour ago




Unit-II Free Electron Theory-2
12 views • 1 hour ago



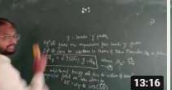
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