

Departmental Report (2022 - 2023)

Preliminary information

I Department profile: Dr. Meeta Saxena, Head of Physics Department

II Courses/Papers taught:

F.Y.B. Sc.				
Theory (Semester 1 and 2)				
Paper No	Course Code	Title of Paper	Credits	Status
I	SBSPHY101	Classical Physics	2	Unchanged
II	SBSPHY102	Modern Physics	2	Unchanged
I	SBSPHY201	Mathematical Physics, Electrical & Electronics	2	Revised
II	SBSPHY202	Electricity and Electronics	2	Revised
Practical (Semester 1 and 2)				
Paper I	SBSPHYP1	Practical I	2	Unchanged
Paper II	SBSPHYP2	Practical II	2	Unchanged

III BOS composition:

Name	Designation
Dr. Meeta Saxena, Head of department	Chairperson
Prof. Shekhar Deodhar, Head of Physics Department, Wilson College, Mumbai	University Representative
Dr. Pravin More, Prof, Department of Physics, Dr. Homi Bhabha State University, Nano Material Application Laboratory, Mumbai	Subject Expert (outside Parent University)
Dr. Pranesh Sen Gupta, Head Surface & Diffusion Study Section, Material Science Division, BARC, Mumbai	Industry Professional

Dr. Pushpinder Bhatia, Principal, Guru Nanak College of Arts, Science & Commerce, Mumbai	Senior Teacher (other member of faculty)
Dr. P. M Dongre, Principal, Arts, Commerce & Science, Senior College (Grant – in – aid), Satral, Ta. Rahuri, Dist Ahamadnagar & Director, Research and Innovation, Pravara Rural Education Society, Loni.	Senior Teacher (other member of faculty)
Ms. Iqra Khatri	Postgraduate meritorious alumnus

IV Dates of BOS meetings: 10th June 2023

Report

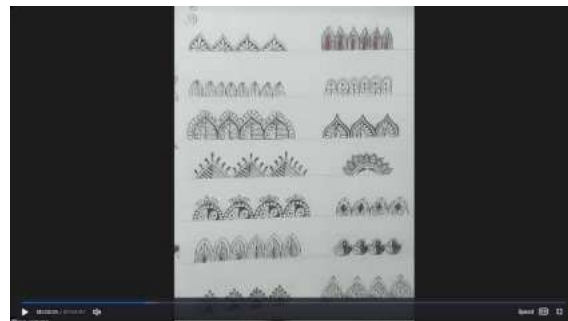
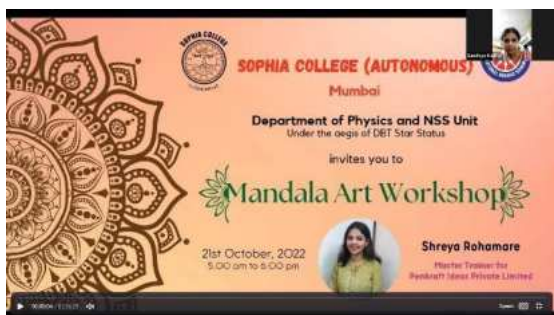
Please note that the following are the pointers to facilitate report writing. Feel free to alter the sequence of the items. Write about the ones applicable to the department for the given academic year (AY 2022-23) and ignore what is NOT applicable. Please ADD relevant points, if not included in the list.

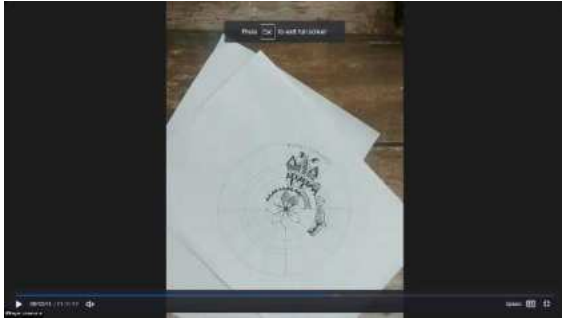
One or two photographs per event would suffice.

1. Activities Conducted by the department:

- Title of the activity/event: Mandal Art Workshop
- Date (from & to): 21st October 2022
- Number of staff members involved: 03
- Number of students involved: @ 227
- Guest/Speaker: Shreya Rohamare, Master Trainer, Penkraft Ideas Private Limited

Geotagged Photographs (please include photographs even if they are not geotagged)





Video Link:

<https://drive.google.com/file/d/1KnfKevtrQzpdGxz3PnV1bKdfphI4sz0I/view?usp=drive link>

2. (a) Field trips done by the department, should include:

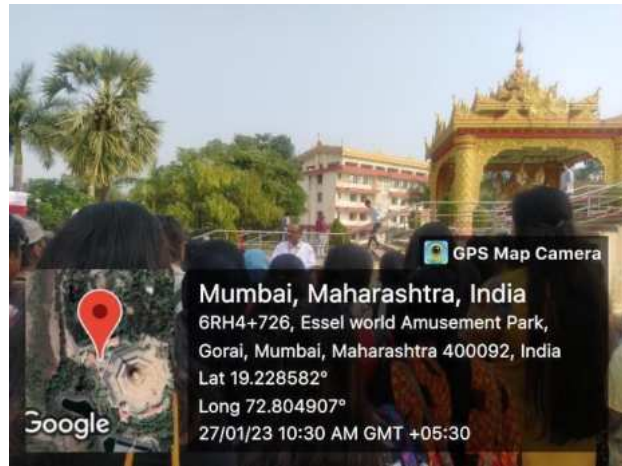
- Name of the place: Veer jijamata Bhosale Udyan
- Date (from & to): 1st December 2022
- Number of staff members involved: 04
- Number of students involved: 20
- **Geotagged Photographs (please include photographs even if they are not geotagged)**





2. (b) Field trips done by the department, should include:

- Name of the place: Global Vipassana Pagoda, Borivali
- Date (from & to): 27th January 2023
- Number of staff members involved: 05 (4 departments)
- Number of students involved: 80 students
- **Geotagged Photographs (please include photographs even if they are not geotagged)**





2. (c) Field trips done by the department, should include:

- Name of the place: Bhabha Atomic Research Centre (BARC)
- Date (from & to): 1st March 2023
- Number of staff members involved: 03
- Number of students involved: 20
- **Geotagged Photographs (please include photographs even if they are not geotagged)**



3. Special pedagogical tools used, other than the lecture method:

a) Gaming based learning:



https://docs.google.com/document/d/1ASMZi-etD2n8gxw-Q57aO-kKkR0h7Kw/edit?usp=drive_link&ouid=112781318335877768091&rtpof=true&d=true

b) Activity based learning:





[https://docs.google.com/document/d/1KyuTZKe6Ikj2kVuprLKVNgCPlqLQ306X/edit?usp=drive link&oid=112781318335877768091&rtpof=true&sd=true](https://docs.google.com/document/d/1KyuTZKe6Ikj2kVuprLKVNgCPlqLQ306X/edit?usp=drive_link&oid=112781318335877768091&rtpof=true&sd=true)

c) Inquiry based learning:



[https://docs.google.com/document/d/16OKrSdJrNUyeiWFj9sfEXG1l7dyRZfi8/edit?usp=drive link&oid=112781318335877768091&rtpof=true&sd=true](https://docs.google.com/document/d/16OKrSdJrNUyeiWFj9sfEXG1l7dyRZfi8/edit?usp=drive_link&oid=112781318335877768091&rtpof=true&sd=true)

4. Any special programs conducted for either /both slow learners and advanced learners.

a) Celebration of Marathi Divas with learning of Topic: ‘Transistor’:



b) Science Day celebration: Outreach activity





https://docs.google.com/document/d/1edUwnXe9yqJbZpkXGuNrVhT_xEEyeiki/edit?usp=drive_link&oid=112781318335877768091&rtpof=true&sd=true

5. Mentor Mentee programs conducted by the department: Nil

6. Research Papers Presented: Research article published:

- 1) Energy Discourse and the Nuclear Projects: Comparative study of Nuclear Energy and other Energy Sources, Lucid 2023
- 2) Oral presentation in International Conference on Multidisciplinary Approach in Technology and Social Development (ICMATSD – 2023) on 'LASER beam Irradiation on doped Polyblends' on 26th May 2023.

7. Research Grants Received

8. Research Guide for PhD students

9. National or International awards/fellowships received.

10. Department/ lecturers having research projects funded by Government (include RUSA), Non-Government agencies, college during the year.

11. Workshops/seminars/ Conferences conducted during the year: Nil

12. Workshops/seminars/ Conferences conducted on Intellectual Property Rights (IPR), during the year: Nil

13. Workshops/seminars/ Conferences conducted on Gender related issues (IPR), during the year: Nil

14. Extension activities carried out in the neighborhood sensitizing students to social issues for their holistic development: Nil

15. E-content development: 1) Elasticity 2) Derivations of Elasticity

16. Capacity Development and Skill Enhancement activities organised for improving students' capabilities; like Soft Skills, Language and Communication Skills, Life Skills (Yoga, Physical fitness, Health and Hygiene) & Awareness of Trends in Technology.

17. Guidance/coaching for competitive examinations and career counselling offered to students.

Invited to conduct Special lecture for MSc students (Material Science):

Date: 28th April 2023

Duration: 9.00 am to 11.00 am

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