

## Academic Report 2024-25

### Department of Physics

Department of Physics organized several co-curricular activities to enhance and explore the recent knowledge in various aspects of Physics during the session 2024-25.

- **Departmental Programs/Activities:**

Faculty members of Physics Department actively organised following activities to enrich students' knowledge during academic session 2024-25.

1. Induction Program for Newly Admitted Students: 06/09/2024
2. Celebration of Birth Anniversary of Dr. Vikram Sarabhai: 12/08/2024
3. National Energy Conservation Day: 14/12/2024

- **Mini projects for B.Sc.-III students:**

Physics syllabus contains theory & practical based on solid state electronic devices. To get practical knowledge about functioning of the components and role in electronic devices, for this purpose B.Sc.-III students of our department are encouraged to fabricate experimental kits/models. Faculties of department guide the students for the same. The project work has been given in the group of two or more students. The department provides components such as diodes, transistor, capacitors, inductors, transformers, IC's etc. as per requirement. The soldering of the components in the circuit is done under the supervision of non-teaching staff. This practice reduces the departmental expenses.

- **Research Project for M.Sc. Students**

The M.Sc. II sem IV student are carried out the research project under the guidance of the faculties of physics department. The research area contains fabrication of ZnO and CuO nanomaterials, Optics and Undulator Technology.

- **Avishkar Competition:**

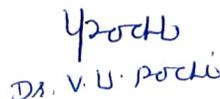
Students from our department actively participated in district level Avishkar Competition held at PLIT, Buldana . Ku Komal Bhagat and Vaishnavi Atole students of B.Sc.-II presented poster on "Electromagnet Undulator Technology for Radiation Generation." The student of M.Sc. II part Pallavi Anjankar and Rutuja Dayje presented a poster of, " Fiber Optics Biosensor for the Detection of Cholesterol." . They both are second runner up for District level Avishkar Competition and eligible for the university level competition.

- **Research Contribution of the faculty**

The faculties of department of physics engaged in various research field and published the research papers in reputed international journals. Dr. Pallavi Nalle published eight national/international journals and Dr. Vijay Huse, Dr. P.P. Padghan and Dr. D.N. Bhojar published one internal journal paper.



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