

## **Department of Physics**

### **2019-2020**

#### **Departmental Activities:**

##### **A. Workshop Under DBT:**

Department organized Student's Winter Training Workshop under DBT STAR College scheme on "**Basics of Nanoscience**" from 31<sup>st</sup> January and 1<sup>st</sup> February 2020 for graduate and post graduate students. 40 students from various departments of different colleges attended this workshop. **Dr. Sunita Bhagwat**, Vice Prinipal and Head, Department of Physics, Abasaheb Garware College, **Dr. Deepti Sidhaye**, Department of Physics, SPPU, **Dr. Jyutika Rajwade** , ARI, **Dr. Shraddha Kelkar**, NCL incubation Centre, **Dr. Anil Garje**, Department of Physics, S.P. College; **Dr. Pooja Rana**, **Mr. Mahendra Waghmare** and **Mrs. Chhaya Abnave**, Modern College, Ganeshkhind. **Dr. Pratibha Rao** Department of Physics was the coordinator for this workshop.

##### **B. Guest Lecture:**

- Department has organized a **guest lecture** on "**Scope of Physics**" on 13<sup>th</sup> August 2020 by **Dr. Vijay Raybaugkar**, Ex Principal, Silvasa College under DBT STAR College Scheme for all students of F.Y., S. Y. and T.Y. B.Sc.
- Department has organized a **guest lecture** on "Upcoming Annular Solar Eclipses and Careers in Amateur Astronomy" on 17<sup>th</sup> December 2019 under DBT STAR College Scheme for all students of F.Y., S. Y. and T.Y. B.Sc, B A (Geography) and F.Y Biotechnology. Mr. Mayuresh Prabhune, Khagol Vishava, Austro club, Pune was the speaker for this lecture.

##### **C. Study Tour:**

- **A study tour was organized for students of F.Y. B. Sc.(General) and B,Sc Blended students to Morgaon under STAR STATUS scheme of DBT, Govt. of India on 11, Jan 2020.**
- **A study tour was organized for students of S.Y. and T.Y.B. Sc.(Physics) to Nehru Science Centre and Nehru Planetarium under STAR STATUS scheme of DBT, Govt. of India on 7<sup>th</sup> February 2020.**

##### **D. Sky Observations of Solar Eclipse (26<sup>th</sup>, 27<sup>th</sup> December 2019)**

- Students of F.Y.B.Sc. and T.Y.B.Sc. (Physics) worked to take on field observations during solar eclipse on 26<sup>th</sup> December and day after the eclipse 27<sup>th</sup> December at observatory of Metearology Department located in Agricultural College campus, Pune. Students measured changes in intensity of electromagnetic radiation in the sky during eclipse and normal day.

### **E. Anubhuti and Science Exhibition under DBT**

Students of FY, SY and TY participated enthusiastically in the science exhibitions. The projects on Water pollution, Li-Fi, Generation of Lissajous figures, Wave form generation through chanting of Shloka were appreciated.

### **F. Physiqia- 2020**

The “Talent Search Activity” Physiqia was organized by the Department on 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> Jan 2020 to improve the logical thinking, basic knowledge and interest in the subject. Different competitions like Physics Quiz, Physics Puzzle, Physics fun game – Ludo and Cartoon making competition were organized. 50 students participated in these events. Mrs. Chhaya Abnave worked as coordinator of this activity.

### **Staff achievements:**

All staff attended Moodle Hands-on Training of 3-sessions organized by Modern College Ganeshkhind, Pune. Mrs. Varsha Joshi and Mr. Mahendra Waghmare Attended Vridhi Software training organized by the college. Staff attended various webinars during March – June 2010.

#### **Mrs. Varsha Joshi**

1. Attended MOOC course on ‘Basics of Quantum Mechanics’ conducted by Centre for Continuing Education, IIT Kanpur from 15 Aug to 18 Nov 2019.
2. Attended MOOC course on ‘Advance course on Special Theory of Relativity’ conducted by Centre for Continuing Education, IIT Kanpur from 26 January to 19 May 2020.
3. Attended MOOC course on ‘Learning Physics Through Simple Experiments’ conducted by Centre for Continuing Education, IIT Kanpur from 2 April to 10 June 2010.
4. Attended one day workshop on S.Y.B.Sc. Syllabus Framing of Choice Based Credit System (CBCS) at Annasaheb Magar Mahavidyalaya on 29<sup>th</sup> January 2020.
5. Worked as coordinator for Swaramadhuri State Level and University Level Music Competitions
6. Attended National Seminar on ‘Intellectual Property Rights and Research Ethics’ organized by Modern College Ganeshkhind, Pune on 27<sup>th</sup> and 28<sup>th</sup> February 2020.
7. Attended session on “e-content Development” on 10<sup>th</sup> April 2020 organized by Research center for English Language and Literature
8. Attended FDP on “Art of Research Paper Writing And IPR” organized by First Year Engineering Department of PCET’s Pimpri Chinchwad College of Engineering (PCCOE, Nigdi), Pune between 25th -27th May 2020.
9. Attended one day training programme in "ICT tools for Online Teaching" on 28th May 2020 conducted by Sanjivani College of Engineering, Kopergaon, District-Ahmednagar

### **Mr. Mahendra Waghmare**

- Worked as coordinator of Distance Learning Centre at Modern College
- Attended workshop on ‘FTIR – Imaging and Laser Raman Imaging’ on 3-4 June 2019 at IIT Bombay.
- Attended MOOC course on ‘Basics of Quantum Mechanics’ conducted by Centre for Continuing Education, IIT Kanpur from 15 Aug to 18 Nov 2019.

### **Dr. Pratibha Rao**

1. Runner-up in Badminton singles, intercollegiate competition organized by Progressive Education Society.
2. Runner-up in Badminton doubles, intercollegiate competition organized by Progressive Education Society.
3. Attended session on “e-content Development” on 10<sup>th</sup> April 2020 organized by Research center for English Language and Literature.
4. Attended 9 days FDP on “भौतिकी यात्रा” organized by Department of Physics, Saurashtra University, Department of Science and Technology, Govt. Of Gujarat (DST) from 21<sup>st</sup> to 29<sup>th</sup> May, 2020.
5. Completed 5 days FDP on “ONLINE teaching” organized by Satish Pradhan College, Thane, Mumbai from 30<sup>th</sup> May,2020 to 3<sup>rd</sup> June, 2020.

### **Mrs. Chhaya Abnave**

1. Completed MOOC course on ‘Basics of Quantum Mechanics’ conducted by IIT Kanpur from 15 Aug to 18 Nov 2019
2. Attended National Webinar on “Research Publication skills ethics and misconducts” Organized by Department of Chemistry, Kumarguru College of technology, Coimbatore held on 15 May 2020.
3. Attended National Seminar on ‘Intellectual Property Rights and Research Ethics’ organized by Modern College Ganeshkhind, Pune on 27<sup>th</sup> and 28<sup>th</sup> February 2020.

### **Student’s Achievements:**

1. Cadet Captain Aparna Parkhe and Shraddha Yadav of T.Y.B.Sc. participated in Advance Leadership Camp at Agartala (Tripura) from 17<sup>th</sup> to 28<sup>th</sup> November 2019.
2. Miss. Siddhi Londhe of T.Y.B.Sc. , volunteered NSS activities held throughout the year and participated in COVID -19 awareness drive organized by college.