

Bharatiya Jain Sanghatana's
Art, Science and Commerce College
Wagholi, Pune.

Department of Physics
Year 2018-2019

Departmental Activity:

• Bridge Course on “Mathematical methods in Physics”

1. Department of Physics Organized Bridge Course for F Y B.Sc. Students on “Mathematical methods in Physics” held on 16 – 21 July 2018.
2. 85 Students were participated in bridge course.
3. It is well known that most of students are still unaware about basics Physics and basics Math's. Students face immense Pressure of studying all concepts of both Physics and math subject.
4. It is bridge between Physics and mathematics to help the students to understand both the subjects.

• Two days workshop on “Printed circuit Board Designing”

1. Department of Physics organized two days workshop on “Printed Circuit Board Designing” held on 17 and 18 Dec 2018.
2. Total 25 students are enrolled for this workshop.
3. In workshop 17 Circuits are built.
4. Knowledge of Electronics Components.
5. Knowledge of Schematic design techniques.
6. Students can participate in various TechFest.

• Poster Presentation on Subject “Electromagnetic Spectrum”

1. Department of Physics Organized poster presentation on subject “Electromagnetic Spectrum” on 26 Dec 2018.
2. In Poster presentation 65 Students were participated.
3. An electromagnetic spectrum contains a series of different radiations that are emitted (emission spectrum) or absorbed (absorption spectrum) by a body and are characterized by frequencies and intensities.

4. Electromagnetic radiation is a form of energy released and absorbed by charged particles. This radiation has specific electrical and magnetic properties. The wavelength range corresponding to the electromagnetic radiation is termed the 'electromagnetic spectrum.' The way in which the electromagnetic spectrum interacts with any material can be used in qualitative and quantitative analysis of various materials. Therefore, the electromagnetic spectrum is often used to assess various physical and chemical properties of objects in food and agriculture

- **Online Ferodia Science Quiz**

1. Department of Physics Organized “Online Ferodia Science Quiz” on 15 Jan 2019.
2. In that 40 students were participated.
3. 10 Students are participated to interacting Program with scientists.

- **Celebration Of National Science Day**

1. On the occasion of birth anniversary of C.V.Raman celebrated national science day, Department of Science Faculty organized Project Competition.
2. 7 Projects are presented by 14 students of B.Sc. Physics
3. This help to creating science awareness in students and to improve their career.

- **Study Tour at Savitribai Phule Pune University and IUCCA, Pune**

1. Department of Physics organized Study Tour on the occasion of National science day at Savitribai Phule Pune University, Pune on 28 February 2019.
2. 15 Students are participated in that tour.
3. First saw a Science park, located at Department of Environment science, After that Department of physics and IUCCA.

- **Staff Achievements**

- Sonawane S.M**

1. Participation in 167th Orientation Program held on 1st – 28th October 2018 on Savitribai Phule Pune University, Pune.
2. On 7 September 2018 Present as subject expert on Pratibha College, Pimpri for Interview.

3. Participated as a member of Local Organizing Committee of Savitribai Phule Pune University at Lonavla Mahavidyalaya, Maval, Pune. On 2nd February 2018.
4. Participated for Paper setting In Savitribai Phule Pune University, Pune at 4th – 6th February 2018.
5. Presented Paper on RAMAN 2019 Organized by Department of Physics, Savitribai Phule Pune University, Pune held on 14-15 January 2018.
6. Participated in Short term Course on “Material Characterization” Organized by IIT Madras held on 23rd November 2018.
7. Worked as Co-coordinator of NCC and Member of IQAC in Bhartiya Jain Sanghatana’s College, Wagholi, Pune.

• Students Activity and Achievements

1. S.Y.B.Sc. and F.Y.B.Sc. Physics 25 Students are participated in two day workshop on “Printed Circuit Board Designing” held on 17th and 18th December 2018.

Students Designs following circuits:

- Power supply circuit (+ 5V , +12V)
- Touch Sensor
- Alternate LED Flashing Light
- Burglar Alarm

2. In National Science day B.Sc. Physics Students Participated Project exhibition, Following Projects are Presented:

- Dancing LED : Dhanshri Sahebrao Kurkute , Shushant Shridhar Mohite
- Automatic Street Light: Ujjawala Anand Bahirat , Nikhil Prakash Raskar
- Manual Lie Detector : Pooja Kerba Bahirat , Sayli Sudam Bhor
- Moisture Detection in Soil : Satish Devrao Pandit , Mithun Sharad Gadade
- Rubin’s Flame Method: Tejas Sampantrao Dhumal
- Water Level Indicator : Ganesh Kailas Gaikwad , Sneha Arjun Tanpure
- Bridge Security System: Ashwini Rajendra Gadade , Kamlesh Kailas Nitnaware

3. Project Exhibitation, organized by Department of Science Faculty held at 6 Feb 2019, In that Mr. Pandit Satish got 2nd prize and Mr. Gaikwad Ganesh got 3rd prize.

4. Department of Physics Organized poster presentation on subject “Electromagnetic Spectrum” on 26 Dec 2018. In that F.Y.B.Sc. Physics students Sayali Palande and Satav Chaitrali won first prize.

Sonawane S.M

Head, Department of Physics