

Department of Physics

Workshops/ Seminars/ Short term courses organized

‘Department of Physics’ engaged few activities for the academic year 2015-16 for undergraduate B.Sc. students. The activities were open to all Physics students.

The activities conducted for this academic year are as follows.

- i) An Expert Lecture on solar energy.
- ii) A Visit to Nehru Planetarium.
- iii) An overnight Sky Observation.

An Expert Lecture on Solar energy

Department organised a seminar on the topic “**SOLAR ENERGY NEED OF FUTURE**” in association with Science association of the college. Dr. SudeshBhagwat – Director of M.G. Solar Powertronics, gave an excellent talk on solar cells, power calculation and power generation. More than 50 students of B.Sc. attended the talk. The event was conducted on Wednesday, 20th January, 2016 in the Physics Laboratory, Staff of Physics, Chemistry attended the same. The event was ended with question answer session.

A visit to Nehru Planetarium

B. Sc.Physics students visited the Nehru Planetarium on the Thursday, 21st January, 2016 to see a short film on “**Our Universe**”. Department of Physics was the organising bodies along with the staff of Nehru Planetarium, Worli, Mumbai. The purpose of this activity was to make students to understand our Universe, its origin and cosmos; which is a part of their syllabus at S.Y. / T. Y. B. Sc. Level. Around 45 students and three staff members attended the film show. This show must have helped students to enhance their knowledge of cosmos.

An overnight sky observation

Department of Physics has organised this event for students on 6th February, 2016 night and 7th February, 2016 morning. 50 students and the staff members (Dr. AbhayRanade, Mr.VishwasDeshmukh&Mr.PradnyeshWaghmare) were co-ordinates with

“AskashMitraMandal”. The programme was conducted at Mammoli, Kalyan-Murbad Road, around 60 Km away from Bandra.

The main purpose was to explore the night and study different movements of different planets and stars which are visible. We were very specific about the date because of an amazing event in solar system- Five planets were along the same line of vision namely Jupiter, Mars, Saturn, Venus and Mercury.

The team of AakashMitraMandal helped us to explore the sky event started from 7 pm night and continued till next day morning 4.30 am; on 7th Feb, 2016. The students were informed basic about the sky observations, planets etc. An excellent geographical, celestial information was also given.

Event had two sessions- i) **on field**, means gather in an open ground to observe the dark sky with naked eyes and by means of astronomical telescope. ii) **Off field** – It is practically impossible to observe the sky upright so few lectures were organised by AakashMitraMandal viz. i) Telescopes ii) Celestial sphere to understand the Physics behind it.

What we have observed?

Through telescope we have observed Jupiter with its four satellites, the red Mars, different constellations, a hazy structure of nebula, also five planets in a line; a rare phenomenon, and nearest Andromeda galaxy- M32, which is 22000 light year away.

Overall the activity was highly informative and enjoyable.

Short term course in Laptop maintenance and repairing “Chip Level”

Department of Physics in association with Font Computer Institute have organised a three week short term certificate course in **Laptop maintenance and repairing “Chip Level”** for under graduate college students from 11th April to 30th April, 2016 in Physics Laboratory.

- The department of Physics has encourage the under graduate students to attend various competitions / certificate courses conducted by University Of Mumbai, Kalina. IAPT, and various other colleges like R. D. National, Wilson, Royal College etc.
- The department also encourage the T.Y.BSc. students to submit the research proposals for “ Visiting student’s research programme-VSRP-2016, TIFR: Mumbai.
- The department took extra efforts to teach syllabus of JAM-2016, Mr. Tarique appeared the exam.

- Students of T. Y. B. Sc. Faced the interview conducted by WIPRO –GE, TCS-Infosys, Mahindra Tech etc.

Extra Curricular Activities

Day & Date	Activity	Organised by	No. of Students Attended	No. of Staff Members Attended
21 st Dec, 2015 to 4 th Jan, 2016	Application of Quantum Mechanism	Dept. Of Physics of University of Mumbai	One (Mr. NiteshYadav F.Y.B.Sc.)	Dr. Rajesh Gowda
Friday, 13 th January, 2016	Film Show on Astronomy	Nehru Planetarium Worli, Mumbai 18	40	Staff
Thursday, 21 st Jan, 2016	Talk on “ Solar Power Need of future ”	Director of M. G. SolarPowertronics	65	Staff
Saturday, 6 th Feb, 2016	Overnight Sky Observation	AakashMitraMandal, Kalyan	55	Staff
Tuesday / Wednesday, 9 th & 10 th Feb, 2016	Frontiers of Experimental Physics	Wilson College, Mumbai	03 F. Y. B.Sc.	--
Saturday, 20 th Feb, 2016	Appyfizzics Intercollegiate Competition	R. D. National College, Bandra (West)	02 F. Y. B.Sc.	--
11 th April to 30 th April, 2016	Short term Certificate Course in Laptop repairing “ Chip Level ”	Font Computer Institute	Under graduate students	Staff
11 th April to 23 rd April, 2016	Summer School in Physics	Wilson College, IAPT	03 F. Y. B.Sc. students	--

Extra curricular activities are the integral part of the academics which not only increases the interest in students about the curriculum but also makes them to understand the curriculum.