



News from Department of physics.....Contd. From Page 1

- Three faculties, Mr. Yatin Desai, Mrs. Malati Dessai and Mr. Ashish Desai with seven B. Sc. Third year students from department of physics attended the lecture cum demonstration program on “**New version of EXPEYES for computer interfaced experiments in Physics**”, by Dr. B. P. Ajit Kumar, Scientist from Inter University Accelerator Center, New Delhi. In carnal college of Arts, Sciences and commerce for women, Goa on January 30, 2018.
- Two Faculty members Mr. Ashish Desai, and Mrs. Pallavi Dalvi from department of Physics attended workshop on “**Flipped learning**” by Dr. Vasudha Kamat, organized by Department of Computer sciences. Chowgule college on November 8, 2017 Goa.

Upcoming Event

Department of Physics will be organizing a workshop on Numerical Technique by Rován Vaz, Assistant professor, Department of Mathematics, Chowgule College Goa on February 7. 2018.

Editorial Board

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Physics day celebration..... Contd. From Page 1

The Do it Yourself Activity competition was another group activity for which the first prize was won by Vijay Peddasingh for his project name ‘**curvature meter**’, the second prize was shared by Shweta Tiwari and Annapurna Meti from Third year B. Sc. for their project ‘Pendulum waves’ and third place was shared by Siddharth Nath from First year B.Sc. for his activity ‘Black line follower robot’. During the valedictory function all the winners were awarded with certificate and cash prize from the hands of Chief Guest Dr. E. M. Travassos.

Winner of JIGYASA event organised by IEIMS miramar

During December 3-4, 2018 the IEIMS, Miramar organized an event called JIGYASA. Our college won the competition and got a huge cash prize of one lakh rupees. In that event Rishbha Sathe from Second year B. Sc. took part in three events and secured first place in all three events.

Winner of In XVIth state youth festival 2017

• Einstien from Third year B. Sc, Physics secured **3rd place in state level Guitar Competition** at the XVIth state youth festival, held at Rajiv Gandhi Kala Mandir, Ponda on 14.12.2017. This festival was organized by Government of Goa directorate of sports and youth affairs.

Newsletter of Department of Physics

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Physics Day celebration on December 20, 2017

Physics Day was celebrated on 20.12.2017 with great enthusiasm. Students actively participated in the different competitions held through the day.

The first activity was the Oral Presentation competition. For Oral Presentation competition, Nikhil from First Year B. Sc. won the first prize and Srinidhi pawar from First year B. Sc. won the second prize and Clint Fernandes from Second year B .Sc. Won the third prize in the competition.

The second activity was the quiz competition. For quiz competition, Sandeep from Third year B. Sc. won the first prize and from third year B.Sc. Vijay Peddasingh, Hemand, and from First year Siddarth nath, Shantadurga won the second prize.



Vijay pedasingh with his project 'curvature major' explaining to the judges during 'Do it yourself competition'

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News from Department...

Dr. Ashish M. Desai presented a poster of the paper entitled “Teaching One-Dimensional Time Independent Schrödinger Equation using Spreadsheet” at the Seventh International Conference to review research in Science, Technology and Mathematics Education (epiSTEME 7) organized by the HBCSE, Mumbai which was held during 5th - 8th January 2018. This research paper published in the proceedings of epiSTEME 7 and is a part of the Third year B. Sc. Physics Project of 2017-18 undertaken by Vijay Peddasingh under the guidance of Dr. Ashish M. Desai.

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92nd Refresher course in experiential physics in Goa university



Refresher course in experiential physics Our S.Y. Bsc. Students in Goa university

Science Academies' 92nd Refresher Course in Experimental Physics at Goa University, Goa. From 6-21 November 2017, Sponsored by Indian Academy of Sciences, Bengaluru. Indian National Science Academy, New Delhi. The National Academy of Sciences, India, Allahabad and was attended by three students of physics Department, from B. Sc. Second year Clint Fernandes, Sidhanth S. Prabhudesai and Siddhart Naik. In this course there were 16 experiments performed by students. These experiments were consisting mainly of thermodynamics, mechanics and electricity after performing these experiments result and conclusion of each experiment were discussed and studied.

Reported by: Sidhant P., S.Y.BSc

Physics Quote

"What I am going to tell you about is what we teach our physics students in the third or fourth year of graduate school....

It is my task to convince you not to turn away because you don't understand it. You see my physics students don't understand it... That is because I don't understand it. Nobody does."

-----Richard Feynman

Winner of the battle of Band Competition



Steve Jr. Da costa singing

First year B.Sc minor physics student Steve Jr. Da. costa won first place in Voice of Chowgules in English category and also with his band - T.N.T.

secured first place in the Battle of bands competition for Plexus that was organized by Goa Medical College.

Winner of 'Srujan Sangam'



Participants; Richa, Shreya, Anagha, Raveena, etc..

Third place in Group singing competition through the college. Held at Rajive Gandhi Kala Mandir, Ponda, on 12.12.2017.

In which students from First and Second year B. Sc. from physics department and minor students of physics department from first year B.Sc. participated in the event.

ASTROSAT



Integration of ASTROSAT in progress in a clean room ISRO satellite centre.

ASTROSAT is India's first dedicated multi wavelength space observatory. This scientific satellite mission endeavors for a more detailed understanding of our universe. One of the unique features of ASTROSAT mission is that enables the simultaneous multi-wavelength observations of various astronomical objects with a single satellite.

ASTROSAT observes universe in the optical, Ultraviolet, low and high energy X-ray regions of the electromagnetic spectrum, whereas most other scientific satellites are capable of observing a narrow range of wavelength band. Multi-wavelength observations of ASTROSAT can be further extended with co-ordinated observations using other spacecraft and ground based observations. All major astronomy Institutions and some Universities in India are participating in these observations.

ASTROSAT with a lift-off mass of about 1513 kg was launched into a 650 km orbit inclined at an angle of 6 deg to the equator by PSLV-C30. After injection into Orbit, the two solar panels of ASTROSAT were automatically deployed in quick succession. The spacecraft control centre at Mission Operations Complex (MOX) of ISRO Telemetry, Tracking and Command Network (ISTRAC) at Bangalore manages the satellite during its mission life.



ASTROSAT in tilted position in clean room for a pre-launch test

The scientific objectives of ASTROSAT mission are:

- To understand high energy processes in binary star systems containing neutron stars and black holes.
- Estimate magnetic fields of neutron stars.
- Study star birth regions and high energy processes in star systems lying beyond our galaxy
- Detect new briefly bright X-ray sources in the sky.
- Perform a limited deep field survey of the Universe in the Ultraviolet region

Source : <https://www.isro.gov.in/Spacecraft/astrosat>