



# RIPPLES



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## Newsletter of Department of Physics

### Faculty Contribution to FDP on Computational Physics

Dr. Ashish M. Desai, Assistant Professor of Physics was invited as a Resource Person for the Faculty Development Programme (FDP) titled “Compute4Physics: Computational Thinking for Contemporary Teaching”, organized by the Department of Physics, Carmel College of Arts, Science and Commerce for Women, Nuvem, Goa, from 4th to 9th December 2025.

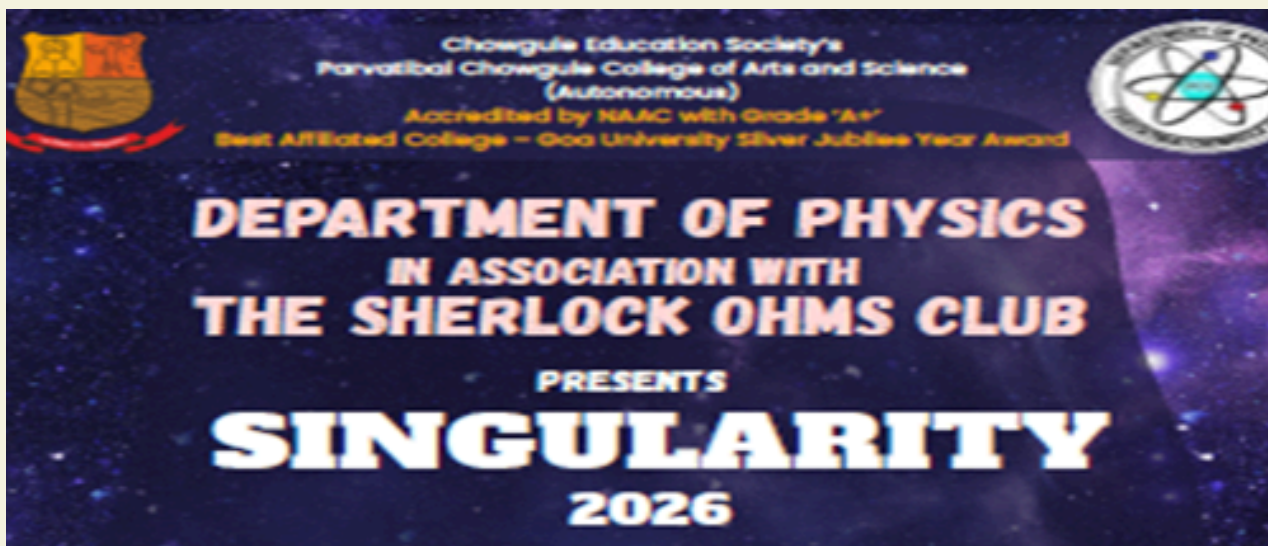


During the programme, Dr. Ashish Desai conducted six sessions, including four sessions on Computational Quantum Mechanics and two sessions on Introduction to SymPy. The sessions focused on key concepts such as fundamentals of quantum mechanics, numerical solution of the Schrödinger equation using the Numerov method, hands-on computational implementation, and symbolic computation using Python. Emphasis was placed on practical learning, simulations, and integrating computational tools into undergraduate teaching. Ms. Jevila Rebello, Assistant Professor of Physics, also participated in the Seven-Day Faculty Development Programme and successfully completed it, for which she received a certificate.

**POSTER PRESENTATIONS AT THE 69TH DAE  
SOLID STATE PHYSICS SYMPOSIUM**

**Mr. Yatin P. Desai attended and presented a poster titled “Mn Doping Effects on Structural and Magnetic Properties of NiFe<sub>2</sub>O<sub>4</sub> Nano-Ferrites” during 69th DAE Solid State Physics Symposium held at IIT-Roorkee, Uttarakhand from 18th to 22nd December 2025. The symposium was organized by Bhabha Atomic Research Center, Mumbai and sponsored by BRNS, Department of Atomic Energy, Government of India. The paper is co-authored by Third Year. B.Sc. students of 2023-2024 batch namely Shravya Borkar, Joshle Colaco, Kimberly Estibeiro and Chloy Costa. The paper is the outcome of the project work taken up by these students at T.Y.B.Sc. In this symposium, Mr. Yatin P. Desai also presented another poster titled “Effect of Site-Specific Substitution on Thermoelectric Properties of NiTiSn Based Half Heusler Alloys”.**

**Mr. Yatin P. Desai participated in the Nurturing Future Leadership Program (NLFP) from 9th to 13th February 2026 at the Goa Institute of Management, Sanquelim, Goa.**



15<sup>TH</sup>  
JAN

## PHYSICS DAY - SINGULARITY

The Department of Physics at CES's Parvatibai Chowgule College of Arts and Science (Autonomous), Margao, Goa, successfully organized Physics Day on 15th January 2026, from 10:00 AM to 4:30 PM at the Lower Auditorium. The event aimed to promote experiential learning, encourage scientific thinking, and enhance students' presentation and communication skills. A total of 33 participants, including 4 faculty members and 29 students, took part in the event.



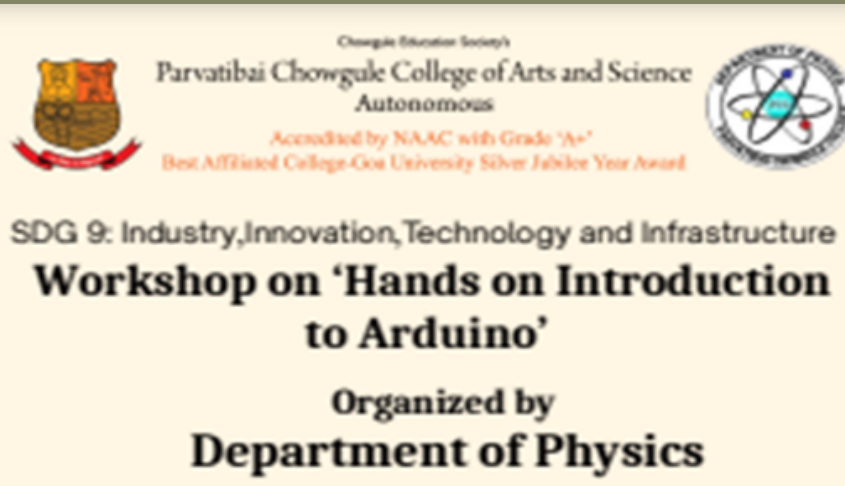
A proud moment with our Chief Guest prof. Arun Kulkarni, BITS-Pilani, Goa Campus, Goa and students during the Physics Day celebration on 16th January 2026.





The highlight of the celebration was student-led demonstrations by B.Sc. Physics students from all three years. They showcased experiments and working models in Mechanics, Electricity and Magnetism, Optics, and Modern Physics, designed especially for visiting school students to promote interactive and practical learning. To make the event more engaging, activities like a Physics Pictionary competition and a Treasure Hunt were organized. These added a fun element while encouraging teamwork, creativity, and participation. The event was successful, helping participants gain basic knowledge and hands-on experience in physics.





## ARDUINO WORKSHOP

The Department of Physics at Parvatibai Chowgule College of Arts and Science organized a two-day workshop titled “Arduino – Hands-on Introduction” on 13th and 14th January 2026, from 2:00 PM to 4:30 PM. The sessions were conducted in offline mode at the Department of Computer Science. The workshop was led by V. C. Kumaresh, Associate Professor in the Department of Computer Science, who served as the resource person.

The primary objective of the workshop was to introduce participants to the fundamentals of Arduino-based systems and microcontroller programming. It aimed to develop essential skills in Arduino hardware, programming using the C language, and interfacing electronic components.



The workshop combined theory with hands-on sessions, introducing participants to Arduino hardware, software, and the Arduino IDE. Students practiced basic programming, such as blinking an LED, and worked on interfacing a tri-colour LED with a push button. The sessions focused on coding, circuit building, and troubleshooting, making learning interactive and effective.

A total of 11 participants, including 2 faculty members and 9 students, attended the workshop.

It was well received, helping participants build basic Arduino knowledge, programming skills, and understanding of electronic components through practical experience.

# CREDITS

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