RIPPLES

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NEWSLETTER OF DEPARTMENT OF PHYSICS



FRESHER'S 2026

The Department of Physics organized a Freshers' welcome event on 18th August 2026 for the newly inducted F. Y. students for the A. Y. 2026-2027. The programme was conducted by the S.Y. & T.Y. Physics students.

The program commenced with the felicitation of the attending faculties followed by a welcome address by the HOD, Mr. Yatin Desai. The celebration continued with various games organised by the S.Y. and T.Y. students for the F.Y. students. The event culminated by a talent search round, crowning Mr. Ashwin Ashok Kabanur and Ms. Saisha Alias Gargi Prasad Desai as Mr. and Miss Fresher respectively. The event created a warm and welcoming atmosphere for the newly inducted F.Y. students, providing them an opportunity to interact, bond, and build camaraderie with their S.Y. and T.Y. peers.





Some glimpses of the Fresher's event

August, 2026

MEET OUR NEW PHYSICS FACULTY MEMBERS

The Department of Physics is delighted to welcome Mr. Seliston Gama to our faculty team. He completed his B.Sc. in Physics from Parvatibai Chowgule College of Arts and Science in 2019, followed by M.Sc. in Physics from Goa University in 2021. He qualified the State Eligibility Test (SET) conducted by Savitribai Phule Pune University in 2023.



Mr. Seliston Gama

Mr. Gama brings valuable teaching experience from various institutions in Goa. He has served as a Physics faculty member at St. Joseph Vaz College, Cortalim, and at Goa College of Home Science. He has also served as an Assistant Professor under the Directorate of Higher Education. Most recently, he has been associated with Carmel College of Arts, Science and Commerce for Women.
His teaching experience spans a diverse range of undergraduate Physics courses, including Classical Mechanics, Thermodynamics, Modern Physics, Optics, Experimental Physics, and Physics Laboratory courses.

With his broad teaching experience, laboratory expertise, and commitment to student learning, Mr. Gama brings valuable experience and a fresh perspective to the Department of Physics. We warmly welcome him to the department and look forward to his contributions to teaching and the academic community.

August, 2026

The Department of Physics is pleased to welcome another new faculty member Ms. Myren Michael Azavedo. An alumna of Dhempe College of Arts and Science, she completed her B.Sc. in Physics in 2016 with 90.23%, followed by an M.Sc. in Physics from Goa University in 2018 with 83.83%. She has also submitted her Ph.D. thesis in Physics, titled "Understanding the Mechanism of Negative Thermal Expansion in Metallic Systems."
Her research interests lie in magnetic and local structural studies using EXAFS, with a focus on understanding the relationship between structural and magnetic properties of materials. During her Ph.D. tenure, she was a recipient of the prestigious DST INSPIRE Fellowship.



Ms. Myren Michael Azavedo

Her academic journey has been marked by several achievements, including Gold Medals in B.Sc. Physics and M.Sc. Physics, along with distinctions at the school and higher-secondary levels.

Ms. Azavedo has contributed to research through publications in reputed journals, with her work exploring magnetostructural coupling, anomalous thermal expansion, and martensitic transitions in materials. With her strong academic background and research experience, she brings valuable expertise and fresh perspectives to the Department of Physics. We warmly welcome her and look forward to her contributions to teaching, research, and the academic community.

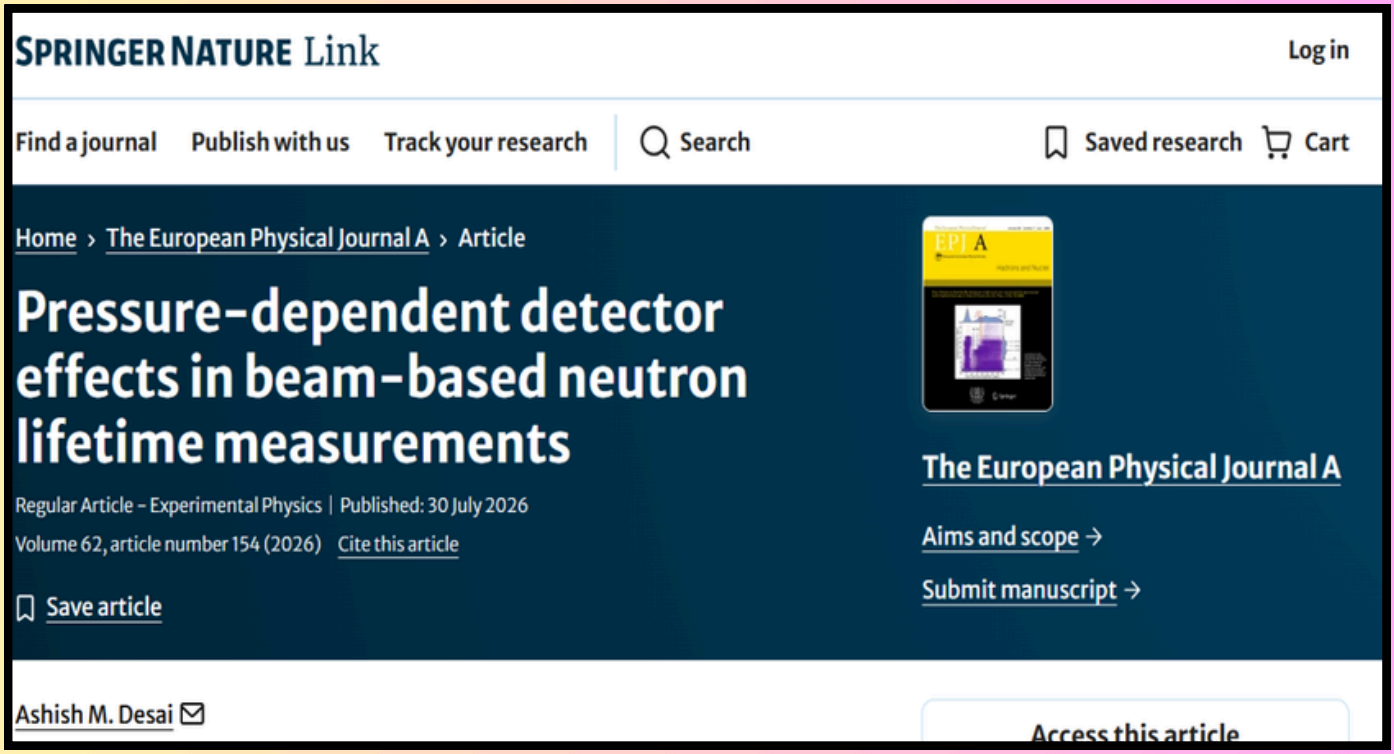
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Research Publications

Dr. Ashish M. Desai, Associate Professor, Department of Physics published following research articles:

1. Ashish M. Desai. (2026). Pressure-dependent detector effects in beam-based neutron lifetime measurements. The European Physical Journal A, 62, 154.

The journal is indexed in Scopus and Web of Science, has an Impact Factor of 3.0, and is ranked in the Scimago Journal Rank (SJR) Q1 quartile.
The study develops a theoretical model explaining pressure-dependent detector effects in recent beam-based neutron lifetime measurements at the Japan Proton Accelerator Research Complex (J-PARC), Japan, providing new insights into the longstanding neutron lifetime puzzle.



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2. *Chrysander P. Goes, Ramnath Samant, Sejal U. Lotliker, & Ashish M. Desai. (2026). Optimized Hulburt-Hirschfelder potential for accurate diatomic vibrational energy eigenvalues. The European Physical Journal Plus, 141, 868.*

The journal is indexed in Scopus and Web of Science, has an Impact Factor of 2.9, and is ranked in the Scimago Journal Rank (SJR) Q2 quartile.
The first three authors, Chrysander P. Goes (AY 2025-26), Ramnath Samant (AY 2022-23), and Sejal U. Lotliker (AY 2022-23), carried out this research as undergraduate students in the Department of Physics under the guidance of Dr. Ashish M. Desai.





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Dr. Ashish M. Desai has been awarded three months (September 2026 - November 2026) of compute time on the PARAM Rudra High-Performance Computing (HPC) System at C-DAC Bengaluru under the National Supercomputing Mission (NSM). PARAM Rudra is an indigenously developed petascale supercomputer designed by C-DAC to support advanced scientific research and high-performance computational applications across India. The allocation was granted based on the scientific merit, scalability, and potential impact of the proposed research and will support large-scale computational studies.

Dr. Ashish M. Desai and Dr. Malati Dessai attended a one-week residential FDP on "Quantum Technologies" organised by the Directorate of Higher Education, Government of Goa, in association with C-DAC Bengaluru, from 29 June to 3 July 2026, covering foundational concepts and practical aspects of Quantum Computing.



National Space Day 2026

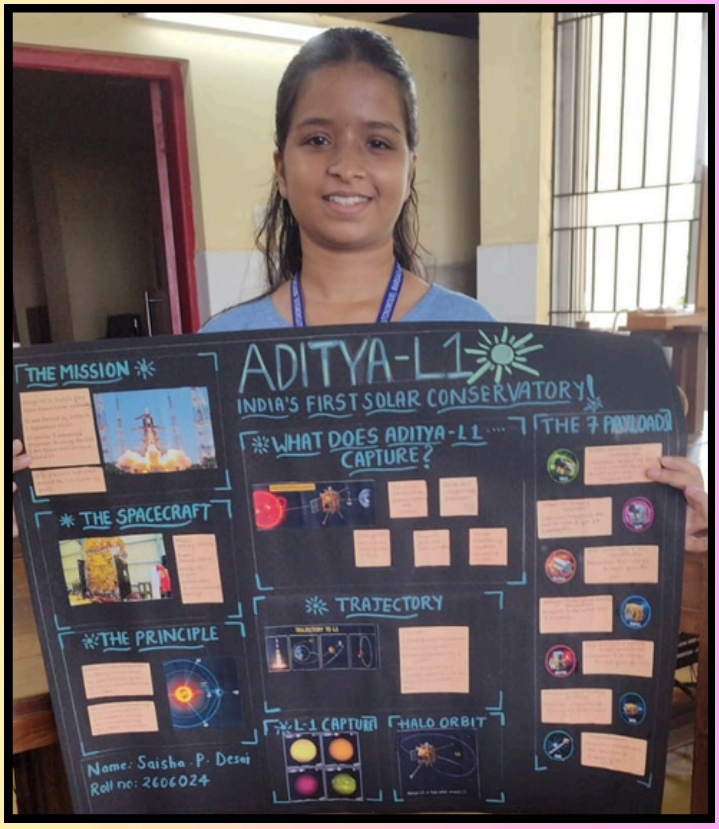
The Department of Physics organized National Space Day Celebration on 22 August 2026. The programme was conducted by the S.Y. & T.Y. Physics students under the guidance of Ms. Jevila Rebello and Ms. Myren Azavedo.







As part of the celebration, two competitions were organized — Poster Competition and Quiz Competition. The Poster Competition saw the participation of 9 students presenting six posters. The posters were judged by Dr. Adrian Ferro, Assistant Professor of Geography, and Ms. Juhi Priolkar, Assistant Professor of Geology. The winners were Saisha Alias Gargi Prasad Desai (1st), Divyanka Phal Dessai (2nd), and Madhura Milind Savaikar & Niddhi Ajit M. K. (3rd).



August, 2026

The Quiz Competition was conducted with the participation of 10 students. The winners were Sarvesh and Stuty Yadav. The celebration provided students with an opportunity to showcase their creativity, knowledge, teamwork, and enthusiasm for space science.







August, 2026

A seminar on "Quantum Information and Technology" was attended by five T.Y.B.Sc. students Dhiraj Girjesh Rajbhar, Sourav Shukla, Dixit Deepak Navele, Winona Dora Colaco, and Hillsberg Venglic Rio Fernandes and a faculty member Dr. Malati Dessai from the Department of Physics Parvatibai Chowgule College of Arts and Science (Autonomous).The seminar was organized by the Department of Physics, P.E.S.'s Ravi S. Naik College of Arts and Science, Farmagudi, Ponda, Goa, under the DBT Star College Programme on 22nd August 2026. The programme featured eminent resource persons, including Prof. Radhika Vathsan from BITS Pilani, K K Birla Goa Campus, and Dr. Sudipta Kanungo and Dr. Jhuma Sannigrahi from IIT Goa.The sessions provided insights into quantum computing, quantum communication, quantum cryptography, and quantum sensing. The seminar also introduced students to emerging opportunities in quantum technologies and encouraged them to explore higher studies and research in the field.



August, 2026

Student Editors



Saniksha Gaonkar



Siya Bambardekar

Faculty Advisor



Ms. Jevila Rebello



Ms. Myren Michael Azavedo