



FROM THE DIRECTORS DESK

With great pleasure, I would like to share with you the latest developments of NIT Goa. The institute continues to excel in academics expanding its horizons through collaborations and exchange programs.

NIT Goa has initiated a Student Exchange Program with two esteemed institutions: IIT Madras (IITM) and IIT Hyderabad (IITH). This prestigious program is meant to offer opportunities for our B.Tech students to spend their 7th and 8th semesters at the respective IITs however, the selection is being done through a rigorous process, which includes a thorough evaluation of the academic performances of the students participating in the Exchange Programme. Further, this will give the students a chance to avail of the direct admission to Ph.D. program at those institutions, which is contingent upon their overall academic performance.

NIT Goa believes that this collaboration will undoubtedly enrich the academic experience of these students, enhancing a spirit of innovation, research, and excellence. I extend my warmest congratulations to the students, who have earned this opportunity and wish them all the best in their academic pursuits.

Prof. Omprakash R Jaiswal
Director, NIT Goa

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (CSE)

Ketan Kunkaliker, a student of Third Year CSE has obtained a 4-star rating on Code Chef by Goa Engineering College. Also, he has been recognized as a specialist on Code forces organized by Don Bosco College of Engineering.

Devansh Garg from Third Year, won a 14-hour Jeopardy style offline Capture The Flag (CTF) contest in Spectrum'24 held at Goa Engineering College.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

Dr. Anirban Chatterjee, along with Dr. Deven G. Patanvariya, Dr. Kalyan Sundar Kola, and Dr. Vasantha M. H., has been awarded a patent for the "Fibonacci Series Based Rectangular Microstrip Fractal Patch Antenna" (Patent No.: 533409, Date of Grant: 17/04/2024).

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Dr. Suresh Mikkili has published **03 papers in reputed Journals** with his Ph.D. scholars. Details are as follows:

1. Gaurav Kumar and Suresh Mikkili, "Advancements in EV international standards: Charging, safety and grid integration with challenges and impacts", **International Journal of Green Energy- Taylor & Francis** - (SCI-E Journal), March 2024.
2. Santhosh Yedla, Suresh Mikkili, PK Bonthagorla, "A Novel Reduced Cross Link Based PV Array Interconnection Schemes for Enhancing Maximum Power Under Dynamically Varying Irradiance Conditions" **Transactions of the Indian National Academy of Engineering - Springer Nature**, June 2024.
3. Aditi A Desai, Suresh Mikkili, Kavita Nanshikar, "Hardware implementation of improved transformer-less grid-connected pv inverter topologies with constant common mode voltage and enhanced efficiency", **Electrical Engineering - Springer**, June 2024.

- Dr. Suresh Mikkili has received **02 INDIAN PATENTS** along with his Ph.D. scholars. Details are as follows:

1. Indian Patent Entitled "MOSFET Based Real-Time Current Sensing Device" has been granted to Dr. Suresh Mikkili and Mr. Pritesh Anil Metha.
2. Indian Patent Entitled " Smart Street Light" has been granted to Dr. Suresh Mikkili and Mr. Abhinav Bhattacharjee.

- Dr. Suresh Mikkili is executing two projects of worth:

1. Rs. 36,21,332/- Funded by SERB, DST Govt. of India and
2. Rs. 9,99,995/- Funded by NIT Goa respectively.

- Mr. Chinmay Bakhale, B.Tech 2024 graduate batch of EEE department got admission in IIT Bhilai for the MTech program. He had an AIR of 764 in DA paper.

- Amol D. Rahulkar Published book in Springer Nature with PhD student in May 2024 citation as Aswinikumar Samantaray, Amol D. Rahulkar, "Feature Extraction in Medical Image Retrieval: A New Design of Wavelet Filter Banks", 1st edition, Springer Nature, May 2024.

- "Portable Electric Vehicle to Electric Vehicle Charging System and its Control Method", Nivedita Naik, Madhu G M, Chintamani Vyjayanthi, Anju Mathew, Chirag Modi: Indian Patent granted.

- Arpita Sukhwai (21EEE1004) Secured 3172 AIR in GATE 2024 under EE.

DEPARTMENT OF MECHANICAL ENGINEERING (MCE)

- **Journal Publications:** Dr. Prasenjit Dey has published two papers in reputable journals: Journal of Vibration Engineering & Technologies and Numerical Heat Transfer, Part A: Applications.

- **Book Chapter:** A book chapter titled "A Systematic Review of the Rotary Piercing Process" by Dr. Pravin Anand Rao Pawar has been published by Taylor & Francis Group.

- **Conference Presentations:**

- At ICAM2024 (NIT Warangal), Mr. B. Yeshwanthkumar Reddy and Dr. Santhi presented "A Novel Approach on the Development of Natural Gums for Additive Manufacturing Applications".
- At the 2nd International Conference on Fluid, Thermal and Energy Systems (NIT Calicut), Mr. Tanu Naik Kurade, Ms. Rutuja Patil, Mr. Priyesh Singh, and Dr. Prasenjit Dey presented "Dual Cylinders in Tandem Dictating Wind Energy Harvesting at Very Low Reynolds Number".

- **Hackathon Win:** Mr. Saksham Jain was part of the winning team at the 36-hour hackathon "Hack The Future" (IIEC, IIT Gandhinagar), receiving a cash prize of ₹3,00,000.



Mr. Saksham Jain (Up) at "Hack The Future" and Mr. Aadarsh Patil (Bottom) at "Solidworks 3D Modeling" competition

DEPARTMENT OF CIVIL ENGINEERING (CVE)

The Department of Civil Engineering organized a Short-Term training program on Sustainable Future on Water Resources and Climate Challenges, sponsored by the Department of Science and Technology & Waste Management, Govt. of Goa, from 12th to 16th March 2024. The program was attended by about 50 participants from faculty and students from GEC, Don Bosco Engineering College and working professionals from Goa PWD and WRD.



STTP on sustainable future in Water Resources and climate challenges

- **BIS Meeting:** Dr. Harikumar M attended the CED57 meeting for discussion on Indian standard codes for cyclone-related structures.
- **Galactic Expedition Competition:** Second-year B.Tech students Mr. Saareesh Naik, Mr. Yash Kamat, and Mr. Yash Patil won 1st place on April 3, 2024.
- **Solidworks 3D Modeling Competition:** Third-year student Mr. Aadarsh Patil secured 2nd place on April 4, 2024.

INTERNSHIPS AND EXCHANGE PROGRAMS

- Third-year students interned at organizations like ONGC and Airport Authority of India.
- Mr. Jeednya Bhaskar Sade and Mr. Sahil Rajesh Lawande were selected for Student Exchange Programs at IIT Madras and Hyderabad, respectively.
- Mr. Sahil Rajesh Lawande also qualified for GATE-XE 2024 with an All India Rank of 1201.

STUDENTS ACHIVEMENTS

- Mr. U V Rohith and Mr. Fardeen Hasan got selected in direct Ph.D programme at IIT Gandhinagar.
- Ms. Shaivi Chanekar and Mr. Kaushik Bhat got selected for PG programme at IIT Gandhinagar.
- Mr. U V Rohith got selected at IIT Hyderabad for Ph.D program.
- Mr. Atharva Mopkar, Mr. Devendra Patidar, Mr. Fardeen Hasan and Mr. Kaushik Bhat, B.Tech final year (Batch 2020-24) students got placed at Larsen & Toubro as Graduate Engineer Trainees.
- Mr. Sameer got placed at Tata Consultancy Services.
- Mr. Gohil Kanak and Ms. Saniya Saraf were selected for summer internship at IIT Madras.

DEPARTMENT OF APPLIED SCIENCES (APS)

Mr. Sahil Sharma, a Ph.D. Scholar under the guidance of Dr. Saidi Reddy Parne, published a research article in the high-impact journal "Advances in Colloid and Interface Science," which is published by Elsevier and has a high CiteScore of 23.7 and an Impact Factor of 15.63. Meanwhile, Mr. Hariharn S, a Ph.D. Scholar working under the supervision of Dr. L. Shangerganesh, received a SERB travel grant and institute support to attend the "International Conference on Scientific Computation and Differential Equations (SciCADE 2024)."

CODING CLUB

Saksham Jain (B.Tech. MCE), was part of the team that won the first position in Hack The Future, a 36-hour hackathon, organized by IIEC, IIT Gandhinagar, during 10-12 March 2024.



Hack The Future Hackathon

Sagar Shirgaonkar, Ved Shetye, Archit Bhargava, and Saksham Thakur (B.Tech. ECE) won the first prize in Spectrathon 2024, a hackathon organized as a part of Spectrum 2024, by GCE, Goa during 3-4 April 2024. Spectrum 2024 was a highly competitive and successful event for many other students as well. Devansh Garg, Zubin Shah, and Aryan Shrivastav (B.Tech. CSE) won the first place in Capture the Flag. Zubin Shah and Aryan Shrivastav also excelled in Code Cosmos by securing first and second positions, respectively. In Binary Nebula, Zubin Shah won first prize, Ketan Kunkalikar and Abhishek Choukuse (B.Tech. CSE) secured the second prize.



Spectrum 2024

A workshop was organized by Router Protocol on 21st March 2024. The concepts and potential applications of Web3 technologies were introduced to the students during this workshop.



Workshop by Router Protocol

Jayendra Pal, Bryson Gracias, Shantanu Ranjeet Ingale and Shivansh Pandey (B.Tech. CSE), were shortlisted to the finals of Hackfest (a national level hackathon) organized by NMAM Institute of Technology, Udupi, held on 5-7 April 2024.



Hackfest 2024

SPORTS SECTION UPDATES

- **Voter Awareness Campaign:** "Mera Pehla Vote Desh Ke Liya" (Feb 28 - Mar 6) to educate and motivate students
- **Empowering Women:** Self-defense program on International Women's Day (Mar 9-10) for women staff and students
- **Yoga for Well-being:** International Day of Yoga (Jun 21) celebrated with the theme "Yoga for Self and Society"
- **Cricket Tournament:** InterDepartmental tournament (Apr 5-9) to boost team spirit and sportsmanship.
- **Sports Achievers Felicitated:** Annual Sports Prize Distribution Ceremony to recognize and reward outstanding performers
- **Say No to Drugs:** International Day against Drug Abuse (Jun 26) observed with a pledge to promote a healthy lifestyle



10th International Yoga Day (21st June , 2024)



Cricket Tournament



Annual Sports Prize Distribution 2023-2024

be a part of voting in the world's largest democracy

MERA PEHLA VOTE DESH KE LIYE

राष्ट्रीय प्रौद्योगिकी संस्थान गोवा
National Institute of Technology Goa



Voters Awareness Campaign

#InternationalWomensDay

Self-Defence Program for Women

Self defence Program for Women on International Women's Day

NIT GOA OUTREACH PROGRAMS

Program Overview:

NIT Goa organized a series of workshops for Class IX students from various schools in Goa, aiming to spark curiosity and interest in science and mathematics.

Program Overview by:

Dr. Saidi Reddy Parne, Associate Professor of Physics

Workshops:

Experimental Science & Basic Mathematics:

- May 3, 2024, at Perpetual Succour Convent High School, Navelim (40 students, 3 teachers)
- April 18, 2024, at PM SHRI Govt. School, Gaval Khol, Canacona (30 students, 4 teachers)
- March 27, 2024, at New English High School, Digas Panchawadi (30 students, 4 teachers)

Experimental Physics:

- March 27, 2024, at New English High School, Digas Panchawadi (30 students, 4 teachers)

NIT Goa Visits:

- **Maria Bambina Convent High School, Cuncolim:** March 6, 2024 (100 students, 5 faculty members)
- **PM SHRI Govt. School, Morpiria, Cuncolim:** February 21, 2024 (30 students, 5 faculty members)

Program Highlights:

- Hands-on experience in physics and chemistry laboratory experiments
- Career guidance and insights into engineering disciplines
- Motivational talks by Director Prof. O R Jaiswal and Registrar Prof. Shashidhar Kudari

Total Participation: 250 students and 21 faculty members



School Students at NIT Goa for Outreach Program

SWACHH BHARAT ABHIYAN (SBA) ACTIVITIES AT NIT GOA

NIT Goa is actively participating in Swachha Bharat Abhiyaan (SBA) activities since its inception. The Institute has organized the following activities.

- **“Swachhata Hi Seva” Campaign-** April 2024. The Institute conducted a cleanliness drive on 25th April 2024 (Thursday) at 4.15 pm. **Around 100 students, Faculty and staff members were participated.**
- NIT Goa organized cleanliness drive on 21st March, 2024, as part of the **"Swachhata Hi Seva"** Campaign. Our team of 60, including students, faculty, and staff, worked tirelessly to spruce up our campus, tackling roadsides and green areas. Together, we're shaping a cleaner, greener tomorrow!



Swachh Bharat Abhiyan At NIT Goa

National Institute of Technology Goa,
Kottamoll Plateau, Cuncolim Municipal Area,
Salcete Taluka, South Goa District, Goa -
403703

To know more about us please visit our official pages:

