



#### FROM THE DESK OF THE DIRECTOR:



I am glad to announce that NIT Goa has published the 1st Newsletter of the institute and this will be published periodically. News keep us updated and connected. The Newsletter will keep the readers abreast with the happenings at NIT Goa.

It is a moment of pride on our part that we have initiated the implementation of NEP 2020, revised the curriculum, introduced subjects under IKS and revamped the rules and regulations in the last two months. Now, we are looking forward to our annual convocation at the permanent campus in October 2023. All of us have joined hands to grow and make our presence felt beyond the boundary of our nation. With this, I wish this newsletter to continue its journey in years to come.

Prof. Jaiswal took charge of NIT Goa as the Director in June, 2023.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CSE)

#### Students' Achievements:

• Coding Excellence: Mandar Patade, a standout student pursuing B. Tech. in CSE (batch 2019-2023), has truly proven his coding prowess by achieving a remarkable feat-securing a place among the top 1.5% of coders worldwide on Leet Code.

This remarkable accomplishment showcases his dedication and skill in the world of coding.

- **ICPC Contests:** Mandar Patade of CSE and two ECE students, Aniruddh Lawande and Kaivalya Gauns, all from the 2019-2023 B.Tech batch, achieved top ranks (31 and 35) in the ICPC contest
- **GATE Success:** Four B. Tech students (batch 2019-2023) - Abel Lester Dsilva, Atharv Desai, Ketul Patel, and Raghav Sharma - excelled in GATE 2023. Ketul Patel secured an impressive rank of 90.
- Advanced Research: Atharv Desai, B. Tech, (batch 2019-2023), secured a seat in IISc Bangalore's direct Ph.D. programme.
- Diverse Achievements: Our students' talents extend beyond the academic realm. Aditya Lad had (B. Tech. CSE batch 2019-2023), who achieved a remarkable score of 99.35 percentile in CAT 2022, has been selected for the MBA program (2023-2025) at IIT Bombay. Additionally, Ayush Naique has been chosen for the MS Computer Science program at New York University.
- Empowered Woman in Engineering: Ms. Ayushi Kandpal, a second-year B.Tech.student, has been selected for the Women Engineers Scholarship and training program by NSE Talentsprint. Her achievement resonates strongly in our commitment to promoting diversity in STEM fields.
- Artistic and Coding Victories: Our students' talents know no bounds. Mr. Pranav Tikone's victory in the Solonote Music competition (Drums) during the WAVES fest organized by BITS Goa showcases his artistic flair. Zubin Shah, a fourthyear B.Tech student, achieved remarkable success in coding and hackathons. He secured the 2nd Prize at IIT Goa's Hack The Games Hackathon, earned a Leet Code Knight Badge with a peak rating of 2003, and clinched 1st Prizes in the Codeit To WinIt competition (ETC Dept, GEC Goa), Arena De Codigo Coding Competition (Technix, CS Dept, GEC Goa), and Code Cosmos Coding Competition (TechUrja, AITD, Mapusa). Additionally, he achieved the 2nd Prize at Code Ops (Techfluence, IT Dept, GEC Goa). Zubin's achievements stand as a testament to his dedication and talent in the field.



### Faculty Achievements:

The faculty members have also been making waves. Dr. Venkatnaresh babu Kuppili and MTech Student Rahul Sharma have published their work in the Core A GECCO conference. Dr. Pravati Swain has been selected for the Short Research Trip To France (SRTF) 2023 program and has also been invited to visit the Institute Galilee, Sorbonne University Paris Nord, France. Dr. Chirag N Modi's receipt of a Pure Consultancy Project from Siemens Ltd. reflects our faculty's industry engagement.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

### Students' Achievements:

- Career Conquests: Seven students from the B.Tech 2023 ECE batch have secured positions in Bharat Electronics Limited (BEL), a prestigious Navratna PSU under the Ministry of Defence, Government of India.
- **GATE Success:** Six B.Tech students qualified GATE 2023.
- Coding Geeks: In Coding, four 3rd-year ECE students Manobhav Sachan, Deepak S, AmbeshGaunker, and Sahil Reddy have proven themselves at the "Solve India" regional hackathon by GeeksforGeeks on May 27-28, 2023, at Pimpri Chinchwad College of Engineering, Pune.
- Striker's Glory: Gagandeep LV from 2nd year secured 3rd prize in the carrom competition at "Happenings", an inter-college event hosted by Goa College of Engineering on May 19, 2023.
- Exploring Horizons: Deep Shetye, 3rd year student was recognized among the top 10 national startups at the Global Student Entrepreneur Awards on 23rd January 2023.

# **Faculty Achievements:**

• Dr. T. Veerakumar and Dr.Maruthadurai R received a development certificate from the Indian Council of Agricultural Research (ICAR) for the development of the technology: "Acoustic detection of Stem and root borer Neoplocaed-erusferrugineus (Coleoptere: Cerambycidae) infestation in Cashew".

- Dr. Trilochan Panigrahi is now the Co-PI of a Ministry of Earth Science-funded project titled "Exploring Deep Ocean Seamounts for Genetically Encoded Metabolites (GEMs) Using an Integrated OMICS Approach." Collaborators include NIO Goa, Center for Marine Living Resources and Ecology, Kochi, IIT Goa, and CSIR laboratories like IIIM Jammu. NIO Goa leads the project, which has a budget of 2.54 crores. The project aims to uncover GEMs through a multidisciplinary investigation of seamounts using advanced OMICS techniques.
- Dr. Anirban Chatterjee, and his research scholar Dr. Deven Patanvariya, jointly published a paper in an SCI-indexed journal in February 2023. Furthermore, Dr. Chatterjee, along with his another research scholar Dr. Kalyan Sundar Kola, authored a conference paper in March 2023.

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)



Talk organized by TESLA on 20th Feb, 2023



Field trip organized by TESLA on 20th April 2023

#### Students' Achievements:

• Alumnus Akash Srivastava achieved AIR-01 in Instrumentation Engineering and AIR 78 in Electrical Engineering in GATE 2023.



- All undergraduate students registered for placements secured positions with maximum and average salaries of 20 lakhs and 12.74 lakhs respectively. Bharat Petroleum Corporation Limited hired six students.
- Emily Grace Gummadi (research scholar), Santhosh Yedla (research scholar), and Dr. Suresh Mikkili presented a paper at the 2023 IEEE International Conference on Power Electronics and Energy (ICPEE).
- Nivedita Naik (Research scholar) and Dr. C. Vyjayanthi presented at the 2023 International Conference for Advancement in Technology.
- Aditya ShivanandShirodkar (M.Tech. student) and Dr. C. Vyjayanthi presented at the 2023 IEEE 8th International Conference for Convergence in Technology (I2CT).
- Ashish K Gupta (M.Tech. student), Nivedita Naik (Research scholar0, and Dr. Amol D. Rahulkar presented at the 2023 International Conference on Energy, Power, and Environment (ICEPE 2023).

### **Faculty Achievements:**

- A project worth Rs.94 lakh titled "Developing Smart Controller for Optimum Utilization of Energy and Trustworthy Management in a Micro Grid Environment," led by Dr. C Vyjayanthi, was successfully completed.
- Dr. Suresh Mikkili and research scholars Chavan Vinaya C and Praveen Kumar B published four papers in IEEE-CPSS TPEA, Circuit World, IJCTA – Wiley and JCAES – Springer
- Dr. B. Venugopal Reddy and Swetha KT coauthored a journal paper in IJCTA-Wiley
- Dr. Seeraj E S and JayeshPriolkar published a journal paper in IETE-JR.
- Dr. Soumitra Das and K Nanshikar published a journal paper in IEEE-JESTPE.
- Dr. Amol D. Rahulkar (PI) from EEE department and Dr. T. Veerakumar (Co-PI) from ECE department received an administrative approval for the implementation of the project titled "Design and Development of FPGA Accelerator IP for Deep Neural Network (FAipDNet)" at a total estimated cost of Rs. 86 Lakh from MEITY under Chip to Startup (C2S) Programme.

The duration of the project is five years (from May 2023 to April 2028).

# **TESLA - Student Association Highlights:**

- TESLA organized a talk on "Entrepreneurship Empowerment for Engineers" by Mr. SachinRajgire, Founder of WYNISCO, kindling the spark of entrepreneurship on 20th Feb, 2023.
- An enthralling experience of underarm control cricket was organized among the EEE department by TESLA on 21st and 22nd Feb 2023.
- TESLA hosted a badminton tournament for the entire college during 7th to 9th April 2023.
- An industrial field trip to Marine Electricals on 20th April 2023, provided practical insights on Electrical Machines.

# DEPARTMENT OF MECHANICAL ENGINEERING (MCE)



Visit to Himgiri Castings Pvt. Ltd., Kundaim, Goa.

#### Students' Achievements:

- Seven students cleared GATE 2023
- Mr. Omkar Khadtare secured admission to the University of Birmingham, reflecting the department's quality education and global exposure in 2023.

# **Faculty Achievements:**

• Dr. B. Santhi, Assistant Professor and Head, authored a thought-provoking book chapter titled "Sustainability in the Welding Industry," shedding light on sustainable practices in welding on July 2023.



- Dr. Prasenjit Dey and his Research scholar have published 2 articles in reputed SCI journals in 2023.
- Dr. Sooraj Mohan's research work addressed CO2 capture and storage, making a vital contribution to environmental sustainability. He has presented a conference paper on bioenergy at the International Conference on Innovation and Technological Advances for Sustainability in Doha, Qatar, held between March 1 and March 3, 2023.

### **Industry Exposure:**

• The students along with faculty members visited Himgiri Castings Pvt. Ltd. in Kundaim, Goa on 25th March 2023

# DEPARTMENT OF CIVIL ENGINEERING (CVE)





Site visit to Zuari Bridge (Final Yr)Site visit to OPA water works (2ndYr)



Girls in STEM workshop at Mahila Camp; Nutan High school

#### Students' Achievements:

- Eleven students excelled in GATE 2023.
- Ms. ValabojuSreevidya secured admission to University of Alabama's Civil Engineering Master's Program.
- The UG students, Krishna Priya, Hariom S, Sudeepta S and K Harish presented a paper on Bio-Enzyme Amended Building Blocks by Partial Replacement of Clay with Native soil at the International Conference of Sustainable infrastructure: Opportunities and Challenges. Organized by NITK Surathkal during April 2023.

## **Industry Exposure:**

- The final year Civil Engineering students visited the ZuariBridge on the Panaji–Margao stretch of NH 66 on January 27, 2023.
- On February 17, 2023, the 2nd-year students visited the OPA water treatment plant at Khandepar, Ponda.

### **Faculty Achievements:**

- A patent has been granted to Dr. Ankit Balvanshi, Dr. Harikumar Mohanan and Dr. Hari Lal Tiwari, for "A system for Quantitative Estimation of the Impact of Climate Change on Crop Evapotranspiration" (Patent no.202022107269, German Patent, 2023).
- Dr. Harikumar participated in an Online International workshop on Landslide Hazard: Forecasting, Monitoring, and Early Warning, organized by IIT Indore and the University of Florence, Italy, on Feb 9 & 10, 2023
- Ms. Vanessa Fernandes showcased her expertise by presenting a paper on "Erosion Control by Bioengineering Measures" at a three-day international conference on Climate Resilient Construction and Building Materials at NITK Surathkal, held during 3rd-5th March 2023

### **Empowering Initiative:**

Civil Engineering Students Council (CESCO) organized "Girls in STEM" workshop at Mahila & Nutan High School, on March 9th, 2023, promoting diversity in engineering fields.



# DEPARTMENT OF APPLIED SCIENCES (APS)

#### Students' Achievements:

Mr. S. Hariharan Ph.D. scholar, Mathematics, was granted a registration fee exemption to attend the International Conference on Industrial and Applied Mathematics (ICIAM-23) in Tokyo, Japan.

# **Faculty Achievements:**

Dr. Saidi Reddy Parne, Associate Professor, Physics, has become a senior member of Institute of Electrical and Electronics Engineers (IEEE) senior member (ID-95448393). He has been elected as a Senior Member of SPIE (The International Society for Optics and Photonics, USA). (https://spie.org/membership/exploremembership/senior-members-ID#: 3510007). He has been nominated as one of the Editors of Frontiers in Sensors Journal. He visited the University of Agder, Norway during 9-15 July for his Indo-Norwegian project.

Dr. Velavan Kathirvelu received an Indo-French collaborative project entitled "Next-generation spirocyclic nitroxide spin labels for distance measurement at higher temperature by Electron Paramagnetic Resonance Spectroscopy" sponsored by CEFIPRA. The financial outlay of the project is Rs. 1.5 Cr.

Dr. L. Shangerganesh, Assistant Professor, Mathematics, has published four papers in indexed journals on optimal control problems and fractional partial differential equations jointly with his national and international collaborators between January and June 2023. He delivered an invited talk at National Conference on Recent Advances in Industrial and Applied Mathematics (RAIAM 2023), Department of Mathematics, Periyar University, Salem.

Dr. Gundlapally Shiva Kumar Reddy at the department published 4 articles in reputed international journals between Jan and June 2023.

# DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES (HSS)

#### Students' Achievements:

Mr. Baiju, Ph.D. scholar, Economics has published two papers in Scopus index journals.

Ms. Melba J. Fernandes, Ph.D. scholar, Economics, has presented her papers in two reputed conferences and received the best presenter award "Impact of Covid-19 on Volatility of Indian Banking Sector Stock" at the International Conference on Interdisciplinary Research in Technology and Management (IRTM) April 2023.

Ms. Lijna Johnson has presented her paper in a national conference at Central University of Karnataka on the topic "Startup and Access to Finance: Evidence from India"

Ms. Brenda Coutinho, Ph.D. scholar, English, presented her research at ASLE, US in July 2023

### **Faculty Achievements:**

Dr. Sunil Kumar, Assistant Professor, Economics, has published a paper "In-house R&D, Importing Technology and R&D Tax Credit on the Productivity of Manufacturing Industry: Evidence from India" in Studies in Microeconomics.

Dr. Sarani Ghosal, Associate Professor, English, has delivered three Invited talks at BHU, IEM-Kolkata and Sri Aurobindo Bhavan-Kolkata, published two book chapters under Atlantic Publishers, New Delhi and Edinburgh University Press, UK and presented papers at two national seminars at Jadavpur University and ICPR, between Jan and June 2023.

#### TRAINING & PLACEMENT:

Corporate Stars: Bharat Petroleum Corporation Limited (BPCL) hired nine (09) students. Tesco offered a generous package of 21 lakhs to a student. Samsung Display chose six (06) of our students. JSW, a well-known conglomerate, selected five (05) students. Together with ASEC, Planet Spark, Alfa Laval, Adani, Loyalty Juggernaut, and Tredence, these companies employed sixteen (16) more students.

Public Sector Pride: It's not just the private sector where our students shine. In the public sector, twenty five (25) students secured placements in various Public Sector Undertakings (PSUs), underlining our commitment to national progress.

### **Achieving New Heights:**

Mr. Patade Mandar Manohar has received a position at Findem with a package of Rs. 26 lakh p.a. In the fields of Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), and Electrical and Electronics Engineering (EEE), we proudly achieved a flawless 100% placement rate, with an average package of 12.8 lakhs.



Our Mechanical Engineering (MCE) and Civil Engineering (CVE) branches also delivered commendable performances. The highest package recorded for MCE was 21 lakhs per annum, while CVE reached an impressive 12 lakhs per annum.

#### **Masters' Pursuits:**

In our M.Tech programs, the 2022-23 batch successfully secured excellent internship opportunities with industry leaders such as AMD, Global Foundries, Intel, Qual comm, Smart SOC, DELL, and BOSCH. Notably, Meghdatta Korgaonkar, a CSE student, achieved the highest overall package of 37 LPA from Qualcomm. Additionally, students from our VLSI and PEPS branches obtained the highest packages of 22 LPA and 9 LPA, respectively.

#### **OUTREACH ACTIVITIES OF NIT GOA**

- The Rajbhasha Prakoshth of NIT Goa has been working to emphasise the usage of Hindi language in the institute and therefore, bilingual form sand official documents have been introduced. Quarterly workshops have been organised. A committee has been constituted for the annual Hindi magazine "Urva".
- **EBSB Club** of NIT Goa fosters cultural exchange through programs like Pongal, Hackathon, and Navya. The club recently celebrated GudiPadwa and Ugadi, thereby strengthening regional bonds.
- NIT Goa remains committed to the Swachh Bharat Mission (SBM), and organizes clean-up initiatives in both its transit and permanent campuses. The institute's active community engagement continues to make a positive impact.



Programmes of *Rajbhasha Prakoshthon* 18-th February 2023.



Pongal celebration



Ugadi celebration



Swachh Bharat Mission (SBM) on 10 March 2023.



Swachh Bharat Mission (SBM) on 10 March 2023.



# CAMPUS CHRONICLES: NIT GOA'S DYNAMIC ACHIEVEMENTS AND EVENTS

#### Dreams with Leaders:

Dr. Subhas Sarkar, Honorable Union Minister of State for Education of India, visited NIT Goa on February 18, 2023. He reviewed institute affairs, addressed faculty and students, and participated in an interactive session on the book "Modi @20: Dream Meets Delivery." The visit highlighted NIT Goa's dedication to excellence and knowledge exchange.





Honourable Union Minister with Prof.Anupam Shukla, Interim Director of NIT Goa from 23rd Jan to 7th June 2023

#### Yoga Harmony:

The 9th International Day of Yoga was befittingly observed on 21/06/2023 at NITG, as per directions of the Ministry of AYUSH and the Ministry of Education. The function began with a brief introduction of Yoga Day by Prof. O. R. Jaiswal, The Director of NIT Goa. He elaborated on how yoga helps to maintain harmony between body and mind. Hence, the 21st June is celebrated as the International Day of Yoga; the theme selected for this year's International Day of Yoga 2023 is "Yoga for Vasudhaiva Kutumbakam," which represents our shared desire for "One Earth, One Family, One Future.



Director, Prof. Jaiswal, addressing on Yoga Day



Yoga for Vasudhaiva Kutumbakam" - One Earth, One Family, One Future.

**Badminton Tournament:** Enthusiastic sports events unfolded at NIT Goa. The Intra-Departmental Badminton Tournament took place in the GEC Indoor Badminton court from April 7th to 9th, 2023.





The Intra-Departmental Badminton Tournament from April 7th to 9th, 2023



**Chess Excellence:** Mr. Milind Gauns, Department of Electrical and Electronics Engineering, secured First prize in the Inter-Collegiate Chess Event in Goa organized by Plexus 2023 Chess Event.



Our chess champ Milind Gauns with Registrar, Dean SW and Sports Officer

Champions at Revels'23 Xventure: Mr. Kaushik Bhat, from the Department of Civil Engineering, and Mr. Sharul Kukolkar, from the Department of Electrical and Electronics Engineering, achieved the First Position in the Xventure – Warrior Dash event. This accomplishment took place as part of Revels'23, the National Sports and Cultural fest organized by Manipal Institute of Technology, Manipal, held from March 22nd to March 25th, 2023.



Champions at Revels'23 Xventure

# **Cricket Tournament Highlights:**

The Sports Section of NIT Goa organized an Intra—Departmental Cricket Tournament from 07.04.2023 to 09.04.2023 in ITI Playground. The tournament result is as follows: Winner: M.Tech&Ph.D. Scholars. Runners Up: IV Year B.Tech Students, Man of the series: Mr. Ashok M.Tech, Best Batsman: Mr. Mahesh Ph.D. Scholar and Best Bowler: Mr. Chinnamuthu Ph.D. Scholar.





An Intra – Departmental Cricket Tournament from 07.04,2023 to 09.04,2023



M.Tech & Ph.D. Scholars (Cricket Team)