

FROM THE DIRECTORS DESK

It gives me immense pleasure to present the 6th Newsletter of NIT Goa, highlighting the remarkable achievements, and collective efforts of our institute during the period from July to December 2025. This period reflects steady progress in research, academics, and student development, reinforcing our commitment to excellence in technical education.

Our institute has made notable strides in research and innovation. The sanction of the ₹6.33 crore ANRF PAIR project with IIT Bombay as the Hub Institute, along with research and consultancy projects secured by our faculties, underscores the growing national recognition of NIT Goa as a centre of impactful research. The grant of an Indian patent and high-quality publications across departments further demonstrate the depth and relevance of our scholarly work.

NIT Goa has actively engaged in organizing and hosting academic events and outreach programs. The successful conduct of international conferences IEEE STPEC 2025, GIAN programs has provided valuable exposure to our students and faculty. I am particularly proud of our students who have also brought laurels to the Institute through commendable performances in technical competitions, hackathons, cultural activities, sports, and outreach initiatives.

I sincerely appreciate the dedication and hard work of our faculty members, staff, students, and all stakeholders. Let us continue to work together with enthusiasm and purpose to further strengthen NIT Goa's role as a center of academic excellence and societal contribution.

With best wishes,

Prof. Omprakash R Jaiswal

Director

National Institute of Technology Goa



NIT Goa as a SPOKE Institute signing MoU with IIT Bombay as Hub Institute under ANRF PAIR program

Dr. Shangerganesh, Assistant Professor of Mathematics, has received a research project titled "Estimating Unknown Coefficients in Nonlinear PDE Models of Cancer Invasion and Cardiac Electrophysiology" worth Rs. 5 lakhs per year for a total of 5 years under the ARG-MATRICES program, ANRF, GOI.

Dr. Harikumar from the Department of Civil Engineering has secured a consultancy project of Rs. 36 Lakhs from the Military Engineering Services, Vasco, towards the Third Party Testing and Inspection of Officers' Quarters at Vasco.

Innovation & Patents

An Indian patent titled "Robotic Bionic Prosthetic Upper Limb Device" has been granted to Dr. Mallikarjun, Pranav Gurudas Naik, and Richa Ravikant Chadankar of ECE Department.

Outreach & Events

NIT Goa co-hosted National Space Day 2025 with ISRO and MCF Hassan on 3rd August 2025, celebrating Chandrayaan-3 with expert talks, competitions, and cultural programs. Student performances were highly appreciated by ISRO officials.

Dr. Prashanth G.R, Associate Professor, Department of ECE organized Sixth International Conference on Optical & Wireless Technologies 2025 (OWT 2025) during 18-19 December 2025 in association with Manipal University Jaipur and Excel Engineering College, Tamil Nadu.

Dr. Lalat Indu Giri, Assistant Professor, Department of ECE organized 17th IEEE International Conference on Computational Intelligence and Communication Networks (CICN 2025) during 20–21 December 2025 in association with IEEE Bombay Section.

HIGHLIGHTS

Research Excellence

NIT Goa, as a SPOKE institute, has been sanctioned a ₹6.33 crore research project under the ANRF PAIR Program, in collaboration with IIT Bombay as the Hub Institute.

GIAN PROGRAM ORGANIZED

A GIAN workshop titled "Controller Design: Evolution from Classical to Machine Learning Framework" was jointly organized by Dr. Amol D. Rahulkar (Department of EEE) and Dr. T. Veerakumar (Department of ECE) from 07 July 2025 to 11 July 2025.

Prof. Akshaya Kumar Swain, Professor in the Department of Electrical, Computer & Software Engineering at the University of Auckland, New Zealand, served as the international faculty for the program.



GIAN Program at EEE Department (07 – 11 July 2025)

IEEE STPEC 2025 CONFERENCE AT NIT GOA

The Department of Electrical and Electronics Engineering, NIT Goa, successfully hosted the prestigious 4th International Conference on Smart Technologies for Power, Energy and Control (IEEE STPEC-2025) from 10 to 13 December 2025. The conference focused on cutting-edge developments in power, energy, and control technologies and attracted strong global participation. A total of over 1,570 papers were submitted, of which more than 650 research papers and 165 innovative posters were presented.

The conference was inaugurated by the Hon'ble Chief Minister of Goa, Dr. Pramod Sawant ji, who graced the occasion as the Chief Guest. Shri B. Raja Gopal Naidu, Chairman, Board of Governors, NIT Goa, attended the event as the Guest of Honour.



Inauguration Ceremony of the IEEE STPEC 2025 Conference



Hon'ble Chief Minister of Goa, Dr. Pramod Sawant, along with dignitaries, keynote speakers, and participants.

The conference witnessed the participation of 540 registered delegates.

The technical program featured 16 keynote lectures delivered by eminent experts from academia and industry, addressing key areas such as Electric Vehicles, Power Electronics, and Automation. In recognition of outstanding research contributions, 10 awards—including Best Student Paper and Innovation/Industry Impact Awards—were conferred. Bringing together students, researchers, and professionals, IEEE STPEC-2025 fostered meaningful collaborations and underscored the direction of future sustainable engineering solutions.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (CSE)

Dr. Veena Thenkanidiyoor, Associate Professor and Head of the CSE Department at NIT Goa, served as an expert speaker for a one-week online Faculty Development Programme (FDP) on 'Recent Trends in Artificial Intelligence and Deep Learning.' Her session, titled 'Vision Transformers (ViT, Swin),' was part of the initiative organized by the E&ICT Academy, IIT Guwahati, in collaboration with the Department of Advanced CSE at Vignan's University (VFSTR), Andhra Pradesh, from November 10–14, 2025."

K Sudheer Kumar and B.N. Keshavamurthy presented a paper titled "DiGCHyNet – Diffusion-Guided Contrastive Hybrid Network with Lesion Priors and Uncertainty Calibration" in International Conference on Machine Learning and Data Engineering (ICMLDE) at Dehradun, India, from November 6th to 8th, 2025, and published by Elsevier in *Procedia Computer Science*.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Dr. Suresh Mikkili is recognized globally as one of the Top 2% Scientists according to the ranking by Stanford University. During January to December 2025, his academic contributions include 17 high-impact journal publications, notably featuring 4 IEEE Journals/Transactions, 4 IET Journals, 4 Taylor & Francis, 4 Springer, and 1 Elsevier publication. He is currently executing a massive national program called the ANRF PAIR Scheme, which has a total budget of ₹100 Crores and he is personally managing a project worth ₹1.47 Crores with title: "Design of Bi-directional Controllers for Level- 1/2/3 EV Charging Station and feasibility studies for their installation to Support V2G Services".

He has successfully completed a major project for the Government's Department of Science and Technology (DST) worth ₹36.2 Lakhs. Dr. Suresh Mikkili has authored a textbook "Power System-I" specifically designed for the third year B. Tech electrical engineering curriculum (for the Vth semester). Now he is actively working on "Power System-II" which is specifically tailored for the VIth Semester (third year) of the B. Tech program.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

ANSYS Tech Day – Accelerating Innovation with ANSYS (12–13 September 2025)

The event was organized by Infinipoint Technologies Pvt. Ltd. in collaboration with NIT Goa to provide students with hands-on experience in simulation tools and design solutions using ANSYS. The program focused on practical applications relevant to Electronics, Electrical, and Mechanical Engineering disciplines.

For ECE students, the sessions specifically emphasized low-frequency electromagnetic simulations, multiphysics solutions, and current industry practices, highlighting their importance in modern engineering applications.



Development of Campus Navigation System

A Campus Navigation System has been successfully developed and deployed at the Institute to help students, faculty, and visitors navigate the campus with ease. The system offers an interactive, map-based interface to locate academic blocks, hostels, administrative buildings, and other key facilities.

The application was developed by students Om Pamula (23ECE1026) and Shivam Kumar Ranjan (23ECE1028). Accessible across multiple devices, the system enhances campus accessibility and provides a convenient digital solution for efficient movement within the campus.



Workshop on ESP32 Microcontroller

A workshop on the ESP32 microcontroller was held on 28 October 2025 at Gyan Mandir for first- and second-year students. The session introduced the fundamentals of the ESP32 platform and its applications in embedded systems and IoT. The workshop provided practical insights into microcontroller-based system development and was well received by the participants.

DEPARTMENT OF MECHANICAL ENGINEERING (MCE)

Dr. Prasenjit Dey and Ph.D. Scholar Achintya Kambli published a research article titled "Flow direction control in branched microchannels by combining electrical and magnetic fields" in the journal *Physics of Fluids* (2025). Dr. Abhijit Sarkar published a single-author article in *Welding International* investigating the "Influence of welding heat input and post-weld heat treatment on mechanical and microstructural properties of modified 9Cr-1Mo (P91) steel".

An expert talk on "CFD with ANSYS Fluent: From Fundamentals to Applications" was organized on November 3rd, 2025. The session focused on simulation best practices and industrial applications.

One-Day Workshop on "Drone Technology: Design, Applications, and Demonstration" is being organized jointly by the Departments of Civil and Mechanical Engineering, National Institute of Technology Goa, on 13th November 2025 at NIT Goa. This workshop introduced students to design considerations and practical flight demonstrations for various drone types.



Workshop on Drone Technology

Inception'25: Students successfully organized and participated in Inception'25, a techno-cultural event held by META and SPIE NIT Goa.

DEPARTMENT OF CIVIL ENGINEERING (CVE)

The Department along with CESCO organized a hands-on workshop titled "PLAN IT!, MAP IT!, BUILD IT." on 08.12.25, featuring insightful hands-on sessions on GIS and Primavera, which saw enthusiastic participation from external students.

The faculty and students of the Department participated in the pre-conference workshop held as a part of Geotech Asia 2025.



The Department entered into an MoU with Indian Council of Forestry Research and Education, Institute of Wood Science & Technology, Kolkata for potential research collaboration on joint research, training, consultancy, and knowledge exchange in forestry, wood science, sustainable materials, and allied environmental and civil engineering domains.

The Department of Civil Engineering secured a consultancy project of Rs. 7 Lakhs from the Income Tax Department for the structural audit of residential buildings at Porvorim.

Further, the Department continues to execute consultancy works for Military Engineering Services, Indian Coast Guard, Indian Air Force, Central Public Works Department, GST Department etc.

The Department organized a series of expert talks for the students during the period. Sessions were organized on "Design and Construction of Tunnel and Underground Structure" by Mr. Chiranjib Sarkar, Geoconsult India, on 30.08.2025, "Introduction to Geotechnical Earthquake Engineering" by Dr. Shrabony Adhikary, VNIT Nagpur, on 07.10.2025 and on "Indian Knowledge Systems- Relevance in Science and Engineering" by Dr. P Hari Krishna, NIT Warangal on 08.10.2025.

A meeting related to the execution of the State Specific Action Plan for the Water Sector, Goa was held in the Department on 10.12.2025, attended by faculty members from IIT Dharwad, NIT Goa, GCE Goa, Engineers and consultants from Water Resource Department, Goa.



The Department of Civil Engineering also hosted a group of students and faculty from Sahrdaya College of Engineering and Technology, Thrissur, Kerala on 19.09.2025, which involved active discussions on various in-house laboratory facilities and research domains.



Faculty from Civil Engineering took part in One-Day Workshop and Stakeholder Consultation Meeting on the dissemination of groundwater data, aquifer management plans and groundwater quality related aspects in the State of Goa organised by Central Ground Water Board, Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Government of India on 16.12.2025 at WRD, Porvorim, Goa. Students from the Department of Civil Engineering were selected for 1 month internship training at NHAI across various road construction sites in India from 15-12-2025 to 15-01-2026.

DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES AND SOCIAL SCIENCES (APS AND HSS)

Ms. Brenda Coutinho and Ms. Antara Chandra from the Department of Humanities successfully completed their Ph.D. degrees in 2025. In addition, Ms. Gouri Basavraj presented a research paper titled "Tides of Time: The Victorian Poetic Sea as a Temporal Symbol in Select Poems of Tennyson" at the two-day international conference "Embracing the Paradigm Shift: Navigating the Interdisciplinary Frontiers in Humanities and Social Sciences Research", organized by the Department of Humanities and Social Sciences, IIT Roorkee, on 11th and 12th July 2025. She has also published a book chapter titled "Rewriting the Anthropocene Through Hydrocolonial Memory in Indian Ocean Poetics" in the edited volume Ecological Futures in the Anthropocene: Interdisciplinary Approaches to Literature and Discourse. Further, Dr. Sarani Ghosal was invited to attend the 2nd Edition of Auroville Literature Festival as a Critic to discuss Sri Aurobindo's poetry with reference to Blue Humanities. Additionally, Dr. Saidi Reddy Parne published a total of ten peer-reviewed journal articles. Moreover, Mr. Yadhavan K and Ms. Bhavyashree attended and presented a research paper at the SIAM Conference on Mathematical & Computational Issues in the Geosciences (GS25), held during 14th-17th October 2025 at Louisiana State University, USA, with travel support through the ANRF-ITS Travel Grant and CSIR Travel Grant, respectively.

CODING CLUB

Swaraj Singh and Felix Jayaprakash of final year B.Tech. Mech. won the consolation prize at the Road Safety Hackathon organized by PDEU in collaboration with IEEE ITSS and IEEE Gujarat Section, held during 27-28 September 2025.



Swaraj Singh and Prashant Babu Swami from 4th year Mechanical won the 3rd prize at the DevRush (a dynamic web dev competition), Techatva 2025, Manipal Institute of Technology, held during 8-12 October 2025.

Damodar Lokapure from II year B.Tech. CSE. was part of the team that won the first position at the 24 hour hackathon organized at Don Bosco College of Engineering during 9-10 October 2025.

Aaryan, Krish, and Eashan from II year B.Tech. CSE. secured the 2nd runner up position at the 24 hour hackathon organized at Don Bosco College of Engineering during 9-10 October 2025.



Saatwik Shetye and Prashant Mishra of III year B.Tech. CVE won the first prize at "CemHack for Green Infra", a hackathon organized by National Council for Cement and Building Materials- Incubation Center. The final round was held at NCB, Faridabad, on 28th October 2025.

Jonathan Paul (III year B.Tech. CSE) and Ronak Barwar (III year B.Tech. CVE) won the third prize at National Road Safety Hackathon 2025, CoERS, RBG Labs, IIT Madras, held on 15 December 2025.

SPORTS SECTION

Har Ghar Tiranga Campaign – 79th Independence Day 2025 Celebration at NIT Goa

The National Institute of Technology (NIT) Goa, in association with Cuncolim Police Station, Goa Police, organized the Har Ghar Tiranga Rally on 12th August 2025. The rally commenced from the NIT Goa campus and proceeded to Cuncolim Market. The rally was flagged off by Prof. O. R. Jaiswal, Director, NIT Goa. Faculty members, staff, students, security personnel, housekeeping staff, and police personnel from Cuncolim Police Station actively participated in the event, making it a collective effort to promote national unity and pride.

The event was also covered by All India Radio's News on Air and the Press Information Bureau.

[Link](#)



Outreach activities under Har Ghar Tiranga

A team of National Institute of Technology Goa has visited Bali Village, Quepem, South Goa and interacted with the Sarpanch Mr. Govind Fal Dessai for understanding the issues wherein NIT Goa can assist the village panchayat in the development of village in various aspects.

NIT Goa organized a Har Ghar Tiranga rally for Class XI students of United Higher Secondary School, Cuncolim, to foster patriotism and create awareness about the importance of the national flag.



Independence Day 2025

On August 15, 2025, NIT Goa celebrated India's 79th Independence Day with patriotic fervour in front of the Sardar Patel Administrative Complex, bringing together students, faculty, and staff. The programme commenced with the ceremonial hoisting of the National Flag by the Director, Prof. O. R. Jaiswal, followed by the National Anthem and a parade by the security guards.

In his address, Prof. O. R. Jaiswal highlighted the significance of Operation Sindoor in strengthening national security, acknowledged the achievements of both faculty and students, and noted that this year's theme, Naya Bharat, reflects the nation's progress towards Viksit Bharat by 2047.

During the occasion, the NIT Goa cultural team and winners of the quiz competitions—organised as part of the Har Ghar Tiranga Campaign 2025, an initiative of the Ministry of Culture, Government of India—were felicitated. The cultural programme featured a poem on freedom and sacrifice, an inspiring speech, and a group song, all of which reflected on India's journey since independence and encouraged positive contributions to society.



Nasha Mukt Bharat Abhiyaan through E-Pledge Campaign

NIT Goa observed the Nationwide Drug Awareness Campaign/Nasha Mukt Bharat Abhiyaan on 15th-16th August 2025. The institute actively participated in the E-Pledge campaign, reaffirming its commitment to a drug-free society.

Celebration of National Sports Day 2025

The Sports Section of NIT Goa celebrated National Sports Day 2025 with great enthusiasm and dedication from August 29 to September 7, 2025, in alignment with the guidelines issued by the Ministry of Youth Affairs & Sports, Government of India, to honor the birth anniversary of the legendary hockey player Major Dhyan Chand. This year's celebration was dedicated to fostering the Olympic values of Excellence, Friendship, and Respect under the theme “Ek Ghanta Khel Ke Maidan Mein,” encouraging every individual to dedicate at least one hour daily to sports and physical activities.

A series of engaging activities were conducted during the celebration, including a volleyball tournament and a football tournament. All participants also took part in the Fit India Pledge, committing themselves to regular exercise and well-being.

The volleyball tournament commenced on August 29, 2025. The 4th Year B.Tech team emerged as the winner, while the 3rd Year B.Tech team secured the runner-up position. Outstanding players were recognized, with Mr. Rai Charan from the 2nd-year B.Tech program being awarded the title of Best Spiker. Additionally, Mr. Anup Jha from the 2nd-year B.Tech (Men) and Ms. Suhashini from the 1st-year B.Tech (Women) received the Best Player of the Tournament award.

The football tournament concluded on September 7, 2025. The 4th Year B.Tech team was crowned the winner, and the 3rd Year B.Tech team finished as the runner-up. Awards were given to exceptional performers, including Mr. Vikalp Bharti from the 1st Year M.Tech for Best Player, Mr. Satyam from the 2nd year B.Tech for Best Top Scorer, and Mr. Jahan Bhonsle from the 1st Year B.Tech for Emerging Player. The celebrations concluded with a formal prize distribution ceremony where winners and participants were felicitated for their outstanding performance, commitment, and sportsmanship.



NIT Goa Football (Men) Team has participated in the All India Inter NIT Football (Men) Tournament, being organized by NIT Jamshedpur from 04 to 06 October 2025.

Plogging Run – Swachhotsav: Swachhata Hi Seva 2025

As part of Swachhotsav - Swachhata Hi Seva 2025, NIT Goa organized a Plogging Run (Fitness with Cleanliness) on 24th September 2025. The event was inaugurated by Dr. Anirban, Nodal Officer, Swachhata Ambassador Committee. Students actively participated with great enthusiasm, covering checkpoints across the campus while collecting litter. The Director of NIT Goa, Prof. O. R. Jaiswal, graciously distributed prizes to the winners.



National Unity Day (Rashtriya Ekta Diwas)

As part of the observance of National Unity Day 2025, the National Institute of Technology Goa organized a Pledge-Taking Ceremony and a “Run for Unity” on 31st October 2025 to commemorate the 150th birth anniversary of Sardar Vallabhbhai Patel, honouring the legacy of the Iron Man of India.

The Run for Unity event was inaugurated by Prof. O. R. Jaiswal, Director, in the presence of Dr. Shashidhar K. Kudari, Registrar. Faculty members, staff, and students actively participated in the event with great enthusiasm.

Following the run, the Director graciously distributed prizes to the winners. The event successfully fostered a sense of national pride and unity among the NIT Goa community.



Bhagwan Birsa Munda's 150th Birth Anniversary and Observance of Janjatiya Gaurav Varsh

In commemoration of the 150th Birth Anniversary of Bhagwan Birsa Munda and in line with the observance of Janjatiya Gaurav Varsh (15th November 2024 to 15th November 2025) as declared by the Government of India, NIT Goa organized a series of events from 12th to 15th November 2025 at Gyan Mandir.

The programme commenced with a floral tribute and garland ceremony in honour of Bhagwan Birsa Munda. Faculty members, administrative officers, and non-teaching staff assembled to pay homage. Following the tribute, a series of traditional games—including Tyre Race, Gilli Danda, Spinning Top (Lattu), and Lagori—were conducted to promote India's rich indigenous culture and encourage community participation among staff members.

The event concluded with a prize distribution ceremony, where the winners of the traditional games were felicitated.



SWACHHOTSAV 2025

NIT Goa successfully executed the Swachhotsav – Swachhata Hi Seva 2025 campaign, mobilizing over 400 students through a series of impactful community initiatives. Organized under the Department of Higher Education's core pillars—Youth Activities, Zero Waste, and RRR—the campaign ran from September 17 to October 2, 2025.

Campaign Timeline & Impact:

September 17–19, 2025: Collaborative cleanliness drives were held at the Cuncolim Rural Medical Dispensary, Bus Stand, and Football Ground, featuring the Swachhata Pledge and Eco-Bag design competitions.



September 25, 2025: The institute hosted the Safai Mitra Suraksha Shivar health camp and safety kit distribution, followed by a major drive at Balli Railway Station.



October 2, 2025: The campaign culminated in a final campus-wide cleaning intensive.



By the end of the program, the institute collected and handed over 80 kg of plastic waste to the Cuncolim Municipal Council, successfully integrating waste segregation and environmental leadership into the student experience.

EK BHARAT SHRESTHA BHARAT (EBSB) CLUB ACTIVITIES

The 2025-26 academic year at NIT Goa was marked by a series of vibrant events hosted by the EBSB Club, showcasing India's rich cultural diversity. These celebrations brought the campus community together, blending tradition with modern student life through music, dance, and shared rituals. Throughout these festivities, the EBSB Club remained dedicated to creating a platform where every tradition is celebrated, and the spirit of national unity is kept alive on campus.

BRIJLEELA

Brijleela '25, celebrated on 15th August in the sacred spirit of Janmashtami, was a graceful confluence of devotion, culture, and artistic expression. The event witnessed enchanting dance, vocal, and instrumental performances by the children of faculty members, filling the atmosphere with joy and innocence.



AARAVAM

Aaravam '25, celebrated on 31st August in the spirit of the harvest festival Onam, was a vibrant expression of cultural harmony and togetherness. The festivities began with an energetic tug-of-war, setting a lively tone for the day, followed by a traditional Onam Sadhya that brought the community together in shared celebration.



UMANG

Under the ripening moon of Dussehra, 2nd October 2025, Umang arrived, draped in vibrant colours, carrying the fragrance of dhoop lit with devotion. It began with aarti, filling the air with sanctity; devotional hymns echoed softly, and the glow of hope chased away the darkness from every heart.



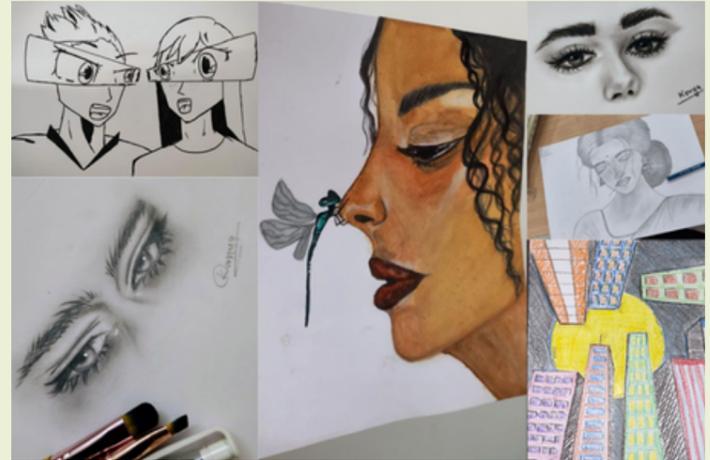
Each of these celebrations, from the energy of EBSB Days to the spiritual warmth of Umang, served as a powerful reminder that while our traditions may vary, the spirit of togetherness remains the heartbeat of NIT Goa. Through these diverse events, the campus continues to grow as a space where every culture is honored and every student finds a sense of home.

ECLECTIC BRUSHSTROKES CLUB ACTIVITIES

Eclectic Brushstrokes, the art club serves as a platform for creative expression among students, encouraging exploration across diverse art forms such as sketching, painting, origami, crafts, and digital art. The club provides a collaborative space for learning, sharing ideas, and nurturing artistic skills. In addition, the club actively contributes to the institute by designing posters and banners for official college events, thereby supporting cultural and academic initiatives

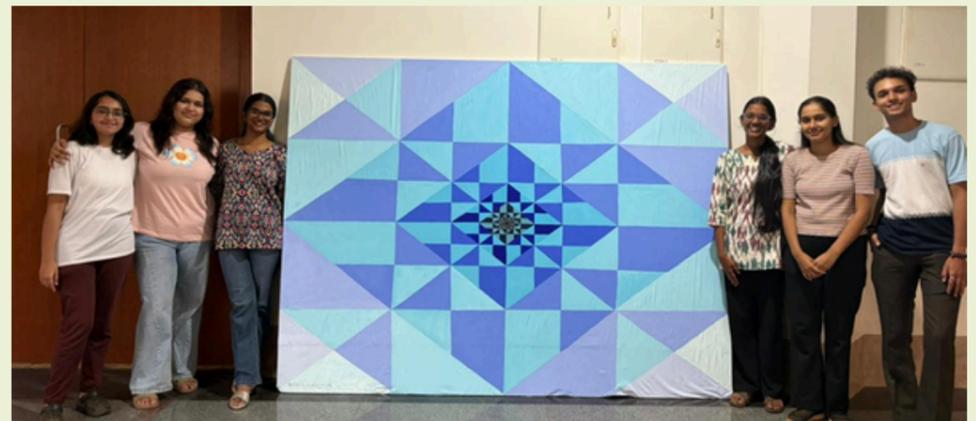
Canvas of Souls

An introductory event organized to familiarize new members with the club, offering an engaging and creative platform where participants interact, collaborate, and spend quality time exploring and creating art forms of their choice in a welcoming environment.



Collective Canvas Painting Session

A collaborative team painting activity was conducted, during which participants collectively painted a wooden panel featuring a geometric design. The activity encouraged teamwork, creativity, and coordinated artistic expression while fostering collaboration and active participation among the members.



Graphic Design of College Posters and Banners:

The graphic design of posters and banners focused on creating clear and visually appealing designs for official college events, ensuring effective communication, neat presentation, and consistency with the institute's visual identity.

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:

