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Dear Readers,

As our esteemed institute completes yet another year of glorious existence, it renews its pledge towards innovation and excellence across various disciplines and streams. This year, we are proud to present the latest edition of Communiqué as a special edition marking the 63rd Foundation Day of the institute. This edition is designed and planned as a Foundation Day Souvenir and consists of year-long achievements and activities of the institute.

Each page of this souvenir echoes the stories of countless milestones NITC has achieved over time. From its inception as a modest technical institute to its present stature as a renowned global institution, the evolution has been fuelled by the constant effort of its members. We have attempted to summarise the year of the institute in a few pages, which is an arduous task owing to the challenges of so many great milestones being restricted to a few words.

As we celebrate our past, we also gaze forward into the future. The pages of this souvenir are not only a reflection but also a vision. They remind us that the journey is ongoing and the pursuit of excellence knows no bounds. NITC's legacy is not merely etched in its buildings but in the hearts and minds of those who have been part of its journey.

This edition would not have been possible without the continuous efforts of the institute students, faculties, staff, and alumni. A special thanks is owed to our honourable Director, the Deans' offices and others who have contributed immensely to this edition. We also pay a special gratitude to the editorial team who have worked round the clock to prepare this special edition! We hope that this Communiqué does justice to these efforts and inspires many more milestones for the institute!

Team Communiqué

Editorial



Prof. Prasad Krishna

Dear Members of the NIT Calicut Community,

It is with great pleasure that I gift to you the Foundation Day Souvenir, commemorating the journey and accomplishments of our esteemed institution. As we celebrate this significant milestone, we reflect on the remarkable progress that NIT Calicut has achieved.

Our Foundation Day is not just a date on the calendar; it represents the culmination of years of dedication, hard work, and the unwavering commitment of our faculty, staff, students, and alumni. This souvenir is a tribute to the collective effort that has propelled NITC to its current standing as a centre of academic excellence and innovation.

Within these pages, one can find a chronicle of our institution's evolution, highlighting the achievements of our students, faculty, and staff across various domains. From ground-breaking research to impactful community initiatives, every story encapsulates the spirit of NIT Calicut and its pursuit of excellence.

This souvenir is special as it is released as a special edition of our Institute Newsletter, *Communique*. This publication is not merely a collection of our stories; it is a testament to the values that drive us – values such as curiosity, perseverance, and a passion for learning. As we navigate the ever-evolving landscape of education, technology, and society, these values remain our guiding beacons.

To our students, I hope this souvenir serves as a source of inspiration as you continue your journey of learning and growth. To our faculty and staff, your dedication to nurturing young minds and fostering a culture of research is what propels us forward. And to our alumni, you are living proof of the impact NIT Calicut has had on individuals and society as a whole.

As we look back with pride on our accomplishments, let us also look forward with enthusiasm and determination. The path ahead is filled with opportunities to innovate, to collaborate, and to continue shaping the future of education and research. Together, we can make NIT Calicut an even greater force for positive change.

I extend my heartfelt gratitude to all those who contributed to the creation of this commemorative publication. I encourage and invite everyone to delve into the pages of this souvenir, relive the moments that have shaped us, and take pride in being part of the NITC legacy. Thank you for your unwavering support, and here's to many more years of success and excellence.

Dean Speaks...



Dr. Sameer S. M.
Dean (Academic)

The journey since the last foundation day celebrations was quite amazing for the academic system of the Institute. While the thoughts for a new curriculum for UG and PG programs in the light of NEP 2020 and NISP 2019 were around the corner, they gained momentum during the last year. Some phenomenal changes are brought into the UG curriculum, such as scraping of a common curriculum for the first year of all programs, Interdisciplinary minor programs in cutting edge areas, mandatory as well as optional internships of different durations, enhanced focus on technologies for Industry 4.0 and broader scope for learning from different domains through liberal credit allocation for open electives. In the PG curriculum, significant changes were introduced to emphasise projects & internships and project-based learning. One distinct feature of the UG and PG curricula is the significant support for student start-ups. With the new curriculum being implemented from the 2023-24 academic year with many student-centric policies and industry connections through schemes such as Co-teaching and Professor of Practice, we sincerely hope that students will have exciting new learning experiences.

Several innovative schemes have been introduced in the last year on the doctoral research side. The external registration category was introduced to enable working professionals having PG degrees to join research programs. A special scheme was initiated to allow professionals working in industry and R&D labs for many years after their UG degree to join for PhD under an external registration scheme directly. Students from diverse specialisations, including medicine, were allowed to register for PhD. Also, various options are introduced for accounting for the tangible outcomes of doctoral studies.

A significant achievement in the last one year is the

successful re-accreditation of five major B.Tech. programs offered by the Institute, namely Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering and Computer Science & Engineering, for the maximum permissible period of 6 years. Also, B.Tech programs in Chemical Engineering, Production Engineering and Biotechnology were accredited this year for six years, six years and three years, respectively. Two M.Tech programs offered by the Institute, namely Telecommunication and Energy Engineering & Management, were also accredited for six and three years, respectively. Institute achieved significant improvements in the NIRF ranking also. Our position improved from 31 to 23 in engineering, while in Architecture, we retained our second position. In the innovation ranking, we figured in the top 10, and I am happy to share that we are the only NIT in the country to a position within the top 10. Our management program also has improved its ranking.

Another notable development was the adoption of the new information management system procured by the Institute with the support from Alumni for managing the academic activities of the Institute. This included the course registration, collection of fees and publication of results. The new system, which is in the roll-out phase, is expected to bring several welcoming changes in the Institute administration in the coming years.

While academic reform is a never-ending journey, the past year has been challenging and rewarding. This was possible due to the unwavering support from the Director, HoDs, Curriculum committee members and other faculty members. We thank each of them and reiterate our commitment to more reforms in the days ahead.

Dean Speaks...



Dr. P. P. Anilkumar
Dean (Alumni & Corporate Relations)

The office of the Dean of Alumni and Corporate Relations (ACR) works in close association with NIT Calicut Alumni Association (NITCAA) to foster the alumni-institute bond. One of the major highlights of the Dean (ACR) office in 2022-23 was organizing the Diamond Jubilee Culmination function as the grand finale of the World NITCAA Meet (WNM) 2022. This event, attended by nearly 450 alumni from across the globe, was testimony to the enduring affection and commitment of the alumni towards their alma-mater. Some major alumni-sponsored campus projects, viz. the Institute Management System (IMS), Internet of Things (IoT) lab and the Green Amphitheatre, were inaugurated on this occasion.

2022-23 was a very special year in terms of nurturing the institute-alumni connect, as we hosted 2 golden jubilee reunions (1971 and 1972 batches) in October 2022 and 3 silver jubilee reunions (1995, 1996 and 1997 batches) in December 2022. The golden jubilee batches jointly contributed Rs. 13 lakhs to the proposed Gymkhana project – a multi-facility student amenities centre, whose projected cost is Rs. 5 crore. The 1997 batch sponsored two key campus projects – i) a new NITC website developed with a budget of Rs. 5 lakh and inaugurated in February 2023, and ii) a student plaza named "97th Avenue" with an estimated cost of Rs. 32 lakhs, located between the F and G hostels.

The Dean (ACR) office's requests to alumni for in-campus and online interactions with NBA experts as part of accreditation of various UG and PG programs received overwhelming responses and many alumni across several batches visited the campus to support the accreditation process. Several alumni have also come forward to co-teach various courses along with regular faculty. More than 110+ alumni across the world volunteered to mentor our students as part of the Alumni Mentoring Program NITCAMP - an initiative of the USA chapter of NITCAA. Nearly 230 students benefited from the mentorship in the 2022 (7th) edition of NITCAMP.

The two flagship festivals of NIT Calicut, Tathva 2022 and Ragam 2023, received generous patronage from our esteemed alumni. Tathva 2022 received technical and financial support of alumni and the chief guest was 1989 batch alumnus Mr. James Thomas, who is Vice President & Head, SAP Success Factors, SAP India Sub Continent. The title sponsor of Ragam 2023 was an alumni-owned company RS group and the chief guest was 1985 batch alumnus Mr. Prakash Shetty, who is serving as NITCAA president and Technical Director of RS Group. The technical clubs at NIT Calicut such as Team Unwired and Aero Unwired also received liberal donations from alumni and NITCAA for their development activities related to automotive and aerospace prototypes and to participate in national level competitions.

The first batch (1966) of alumni continued their active association with NITC by donating 10 park benches, which were placed around the Green Amphitheatre and the Creative Zone. A CREC NITC Endowment fund account was opened in Canara Bank to attract alumni and corporate donations. Efforts are on to obtain 80G exemption also.

As a celebration of the professional achievements and contributions of our alumni and to motivate students, the Dean (ACR) office set up the Distinguished Alumni Awards (DAA) scheme with seven categories - Technology Innovation Excellence, Academic Excellence, Managerial Excellence, Entrepreneurial Excellence, Excellence in Public Services and other walks of Life, Excellence in Institutional Development and Alma mater services and Emerging Alumni Leader Award. 8 most deserving candidates were identified after a rigorous screening and selection process by eminent experts. We look forward to meeting and presenting them with the awards on the Institute Foundation Day (1st September 2023).

Dean Speaks...



Dr. J. Sudhakumar
Dean (Faculty Welfare)

The Office of Dean Faculty Welfare (FW) at the National Institute of Technology oversees the various matters related to the faculty members, including faculty recruitments, sanction of leaves, foreign travel, etc. The Dean (FW) office is entrusted to conduct Faculty recruitments at regular intervals to ensure proper Student Faculty Ratio (SFR) and in line with filling the gap due to the retirement of senior faculties. In the last academic year, to fill the existing vacancies in the sanctioned teaching strength, the Office of Dean Faculty Welfare (FW) at the National Institute of Technology has conducted two regular faculty recruitments. Nearly 4000 applications were received for regular faculty positions, 101 (44 in 2022 and 57 in 2023) new faculties were recruited, and 65 internal faculties were promoted. A talent pool of young faculties with world-class experience from various reputed national and international universities has joined the institute.

In order to provide an internationally renowned Campus teaching and research, interaction and sharing of knowledge with faculties and experts from other institutes/industries is essential. In this regard, a new scheme of recruiting faculties and researchers from eminent Institutes and Industries in India and abroad was introduced. In the new scheme, three posts were introduced, namely Professor of Practice, Adjunct faculty and visiting faculty and three sub-divisions (Assistant Professor, Associate Professor and Professor) in each category. About 250 applications were received under this new scheme, and eminent researchers and faculties from IITs and eminent industries were selected. This scheme shall facilitate better opportunities for staff and students to interact with faculties/experts from other institutes/industries and learn global best practices in teaching and research.

The Dean (FW) office supports the Professional Development Activities (PDA) of the faculties by providing financial support in attending training programs, seminars, workshops and international conferences, visiting other renowned institutions of teaching and research, etc. In the last financial year, under the PDA scheme, financial support was provided to faculties for attending forty two International conferences, eight International visits, two International workshops, eight International symposiums, three Meetings, two Discussions, and one Summer School.



Dean Speaks...



Dr. Priya Chandran

Dean (Planning & Development)

The past year (September 22 to August 23) has been an arduous but exciting period for the Team: Planning and Development, witnessing three mid-period changes in key positions - Dean, Associate Dean (Procurement), and Associate Dean (Projects). The new team's tasks have been made easier and streamlined, by the excellent work done by our predecessors. At the same time, they have set for us benchmarks of performance that are higher than ever before!

Institute infrastructure has been growing in magnitude and calibre expeditiously, with purchases to the tune of Rs 25 crore under Plan Funds and Rs 6 crore under DOC in the referred time period. Fasttrack purchases alone constitute Rs 6 crore, which includes Rs 2.32 crore worth of Layer 3 Core Switches, initiated by CNC for increasing the network bandwidth on campus, furniture worth Rs 22 lakhs for newly joined faculty, initiated by the Dean (Planning and Development), and state-of-the-art equipment and software for various research labs and centres across the institute, initiated by individual faculty members. GeM procurements for Rs 16.72 Cr through 573 GeM contracts generated, procurement of ANSYS software with a five-year licence, 1000 steel tables and metal cots for NITC Hostels, 80 laptops for newly joined faculty, an agreement with Metal Scrap Trade Corporation (Ministry of Steel) for disposal of obsolete items through e-auction, and appointment of Independent External Monitors as per CVC guidelines for all procurements above Rs 1 Cr, are some of the major developments in the procurement arena.

The progress of construction projects at NIT Calicut also witnessed a quantum leap, and the compelling need for frequent progress assessments has been addressed by the Office of the Dean, with detailed monthly review meetings for all ongoing projects under the expert supervision of the Engineering Unit and experts from the institute. The new academic block, for Rs 37.2 crore with MoE funding, is aimed at addressing the increasing space requirements of the institute. The 33 kV unmanned digital automated substation, the first of its kind in Kerala, with Rs 6.78 crore in funding from the MoE, would serve the future energy requirements of the institute by 2025. Including the two projects mentioned above, the Team - Planning and Development monitors, through the Institute Engineering Unit, Rs150.16 worth of 10 ongoing major projects, Rs 7.02 worth of 33 ongoing minor projects, and Rs 14.31 worth of 31 repair projects to existing buildings and spaces, which are under execution through government agencies like CPWD, Kerala PWD, KWA, KSEB, the society ULCCS, and more than 20 government-registered private contractors.



The overhead tank of 5 lakh litres capacity near the Institute Guest House and the ground sump of similar capacity are nearly complete. The much-awaited subway across Calicut-Mukkam Road is back in the active zone. GI roofing, MH-1 waterproofing, renovation of the Institute Guest House, compound wall construction, and Mega Hostel 1 balance work are urgent works taken up at a fast pace. A new 760-capacity (Rs 71.85 crore) Ladies' Hostel construction project is approved by the MoE and is awaiting a final MoU with HEFA to gain its entry into the list of active projects. In addition, there are 3 more BoG-approved projects, Students Activity and Sports Centre, Football Stadium and Athletic Track, and Connecting Buildings Between Administrative Blocks, which are due to commence soon.

Further envisaged is Rs 500 crore worth of infrastructure projects to be executed through EOI, using prefabricated construction modules to the maximum extent possible for faster completion times. The Central Research Facility (5000 sq m), the Central Lecture Hall (9000 sq. m), the Academic Building (12000 sq m), the International Hall of Residences (12,500 sq. m), the hostel complex (30,000 sq. m), the apartment complex for faculty and staff (25,000 sq. m), and the Diamond Jubilee Guest House (3000 sq. m) are the major projects for which document preparation for calling EOIs is being done by the Engineering Unit. In conclusion, the future looks enchanting a few years down the line, and the Team - Planning and Development, is happy to play its part in realising the Institute's vision.

Dean Speaks...



Dr. Sandhya Rani

Dean (Research & Consultancy)

National Institute of Technology Calicut has been increasingly promoting Research & Consultancy activities among its research community. The institute has received nearly 33 external funded projects during September 2022 to August 2023 with a sanctioned amount of Rs. 6.3 Crores from various funding agencies such as ISRO, ARDB-DRDO, SERB, SERB-POWER, SERB-TARE, SERB-RAMANUJAN FELLOWSHIP, UGC-DAE, DST-INSPIRE, CSR-HEFA, KSPCB, KSHEC, NBHM, IGSTC, IKS, CPRI, ICMR, IEEE Electronic Devices society USA., NIEPA etc. Rs.1.08 crores has been sanctioned under the Visvesvaraya Ph.D. Scheme for Electronics and IT: Phase II.

The institute has received funds of Rs. 18.5 Lakhs towards the consultancy and test charges from different agencies like PhyTunes Inc. USA, Calicut and Kollam Corporations, KSEB, ULCCS, etc. Three of our faculty members got the opportunity to explore their research experience and enrich their expertise in their area of research under SIRE (SERB International Research Experience (SIRE)) fellowship. Two faculty members have got the prestigious research grant under the Scheme for Promotion of Academic and Research Collaboration (SPARC) Project.

Around 150 project proposals have been submitted to various government agencies over different schemes (SRG, CRG and DBT scheme) during this year. The institute supports newly joined faculty members through seed grants, which helps them to apply for projects under external funding agencies. Under FRG 2023, 70 faculty members will be supported through seed grants in a tune of 3.5 crores.

Dr. Noel Jacob Kaleekal, Assistant Professor in the Department of Chemical Engineering, NIT Calicut, has won the 'Kerala State Young Scientist Award-2022' in recognition of his outstanding contribution in the field of Science and Technology.

An interactive session was organized with SERB officials on 8th May 2023 to equip the newly joined faculty members with the various schemes of SERB, project writing ideas, and tips for implementing the project successfully.

NIT Calicut organised various continuing education programmes that included workshops, faculty development programmes (FDP), short term training programmes (STTP) and conferences during the period September 2022- August 2023. Programmes were conducted online, offline or in hybrid mode. Four ATAL FDPs funded by AICTE were conducted in hybrid mode following the guidelines from AICTE. These programmes were conducted mainly in the relevant areas of research as listed in ATAL portal and these programmes included discussion and analysis on research papers, visit to industry or centrally funded institutes and sessions on NEP is also conducted during the ATAL FDP. ATAL FDP participants were from nearby institutes within a limit of 100 kms from NITC.

Four self-sponsored workshops were conducted during the last year. In addition to these 3 self-sponsored FDPs were also conducted departments/schools/centres of NITC and the participants were both including internal and external candidates. One of the FDPs was organised in the online mode. And the external participants were from all over the nation, and the experts were mainly faculties from Institutes of National importance or from the industry. Six different SERB Karyashala high-end workshops funded by the government of India were also conducted by different departments for skill development of PG and PhD students.

One International conference was conducted offline on Construction Materials and structures by the Department of Civil engineering. Two self-sponsored STTPs and one skill development program specifically for the Kerala electronic repair association members were also successfully conducted.

Dean Speaks...



Dr. Rajanikant G. K.
Dean (Student Welfare)

Greetings to the esteemed members of the NITC family, distinguished guests, faculty, staff, and, most importantly, our vibrant student community, Gathering to celebrate another year of progress, knowledge, and achievements during the NITC Foundation Day fills me with immense pride and joy. With pleasure and a sense of accomplishment, I am honoured to present the Annual Report of the Office of Dean Students' Welfare (DSW).

NITC's flagship event, Tathva, showcased dedication to academic excellence. Lectures, workshops, and competitions covered diverse topics like Indian Space Economy, cybersecurity, game development, Python programming, and robotics. "Wheels" auto expo exhibited exotic cars, bikes, and stunts. Notable attractions were "Robowars," the most significant South Indian robot combat, and "GSM Labyrinth," a bot racing contest. Dr Richard Stallman interacted on the second day. Proshow featured performances by Thaikkudam Bridge, Nakash Aziz, and Zephyrtone. Insightful talks spanned education, entrepreneurship, marketing, and blockchain. Competitions included aircraft, bot making, hovercraft, and coding. The fest concluded grandly with Shreya Ghoshal's performance and DJ Shaan.

The triumphant edition of Ragam'23, the annual cultural extravaganza of the National Institute of Technology Calicut, bore the collaborative essence of the DSWO and the student community. From March 10th to March 12th, 2023, the festival unfolded with a rich tapestry of events: mono act, debate, antakshari, and more, attracting participants nationwide. 'Swararaaga' harmonized classical Indian music with Western instruments, fostering a dynamic atmosphere. Babu Ramachandran recounted Rajan's legacy, while Shyam Pushkaran offered cinematic insights. Puppetry by Harisree Kannan weaved imaginative tales, 'Rajan Memorial Light Music Solo' celebrated the late Rajan through DABZEE's spirited performance. Mohan sisters danced gracefully at the pro-show, followed by DJ Swattrex. The festival's exuberance extended to fashion, sports, cinema, and music, culminating in a rousing finale with Amit Trivedi and Avial's electrifying performances. Ragam'23 radiated cultural vibrancy, captivating hearts and minds, leaving eager anticipation for next year. This year, we intensified our endeavours to offer accessible counselling services, workshops on stress management, and awareness campaigns. Our Student Guidance Cell orchestrated diverse programs dedicated to mental well-being, while 'yourDOST,' a 24/7 online counselling platform, was introduced to provide professional guidance to students navigating challenges.

Our commitment to social responsibility initiated impactful community engagement endeavours. The National Service Scheme (NSS) led initiatives aligned with social causes, fostering responsibility and empathy. Our NCC unit played a pivotal role in student's personal growth through diverse activities, instilling leadership and patriotism. Organizing events of national importance in partnership with the Ministry of Education facilitated knowledge exchange and innovation.

Safe spaces and inclusive environments remained a priority. Dialogues, seminars, and events fostered cross-cultural understanding. The Ek Bharat Shrestha Bharat initiative facilitated cultural exchange between NIT Hamirpur and NITC, enriching student experiences. We facilitated Inter-NIT student participation, resulting in students winning medals across disciplines. Inter-departmental staff sports tournaments showcased athletic prowess. The NIT Calicut Swimming Team secured seven medals, and the Body Building team earned the title of Overall First Runner-up with impressive performances. Our commitment to academic excellence remained unyielding. We expanded scholarship and financial aid programs, ensuring financial constraints do not hinder deserving students' pursuit of education and holistic development.

Looking Ahead

Nurturing Excellence and Innovation: As we reflect on our achievements in the past year, we remain acutely aware of the challenges ahead. The upcoming year holds opportunities for us to innovate, collaborate, and enhance our support systems as we strive for even more significant accomplishments.

Our vision includes Embracing Dynamic Transformations, Innovative Student Engagement, Cultural Enrichment beyond Borders, Prioritizing Mental Well-being, Empowering through Social Responsibility, Inclusive Campus for All, Elevating Athletic Excellence, & Enhancing Accessibility Through Scholarships, among other areas.

Our commitment to fostering excellence, innovation, and holistic development remains unwavering as we march forward. The Office of Dean Students' Welfare remains committed to empowering students to become well-rounded, compassionate, and accomplished individuals. I extend my heartfelt gratitude to every member of the DSW team, our esteemed faculty, supportive administrative staff, and, most importantly, our exceptional students for their unwavering commitment and enthusiasm.

Together, let us embrace the future with optimism, determination, and a shared vision of excellence!



NIT Calicut's Remarkable Journey: Rising Through NIRF Rankings Across Multiple Domains

NIT Calicut has significantly improved its National Institutional Ranking Framework (NIRF) ranking across multiple categories. The Institute's dedicated effort has earned recognition in the domains of Innovation, Engineering, Architecture & Planning, and Management.

NIT Calicut retained its second position in Architecture in the NIRF ranking 2023 for the third consecutive year. In the Architecture stream, it has improved its score in all the major ranking parameters related to teaching, research, sponsored research and consultancy. The Institute's continuous efforts to shape future professionals in the field of Architecture and Planning have resulted in retaining its position in the NIRF assessment. For Architecture & Planning, the position of NIT Calicut is not only the best among all the 31 NITs in the country but also better than old-generation IITs like IIT Kharagpur.

NIRF ranking for innovation is to rank the institutions in "Innovation and Entrepreneurship Development" amongst students and faculty members. NIT Calicut is ranked 8, improving its position from last year's 9, and is the only NIT to obtain a rank within the first ten positions. Earlier, the ranking was named ARIIA ranking, the first time it has been integrated with the NIRF ranking. NIT Calicut strongly supports the move towards a self-reliant India (Atmanirbhar Bharat) by having indigenous product development by many students and faculty members through various initiatives and the Technology Business Incubation Centre of the Institute. The Institute has also established a dedicated Centre for Innovation, Entrepreneurship and Incubation, through which the Institute aims to excel in these fields.

In the Engineering stream, NIT Calicut obtained the All India 23rd rank by improving eight positions from last year's 31. NIT Calicut has improved significantly in all the ranking parameters, which include innovations, research, consultancy, teaching & learning and graduate outcome. The improved placement, pay packages, opportunities for higher studies obtained by the students and improvement in the number of qualified permanent faculty members and their research outcomes are some of the parameters contributing to this achievement. NIT Calicut's uncompromised focus on cutting-edge research, industry collaborations, and entrepreneurship have further supported its standing in the Engineering domain. NIT Calicut also retained its position as the best engineering institution in Kerala, the second and third being IIST Trivandrum (Rank-48) and IIT Palakkad (Rank-69), respectively.

The improvements in ranking and recent achievements in the NBA accreditation are examples of the quality of education and research that we carry out, and we are poised to greater heights in the years to come. I congratulate my faculty, staff and students for this remarkable achievement."

Prof. P. S. Sathidevi, Deputy Director and Chairperson of the Centre for Quality Assurance and Enhancement (CQAE), said, "NIT Calicut's positions in ranking parameters such as teaching-learning resources which is an indicator of the high-quality teaching process and graduate outcomes which comprise of campus placements, higher studies as well as academic results are the best among top NITs and many new IITs in the country. We restrict the class strength to a maximum of 50 students and engage multiple batches. Though this requires more resources, it allows greater interaction between faculty and students, which is one reason for the excellent score in multiple parameters". Prof. T. K. Sindhu, NIRF Coordinator of the Institute and Prof. Sameer S. M., Dean (Academic), also shared the view that the improved ranking in all aspects, as well as the new curriculum structure that the Institute is going to adopt in the coming academic year, will help to attract high-quality students to the campus. NITC Director Prof. Prasad Krishna received the award from Dr Rajkumar Ranjan Singh, Hon'ble Minister of State for Education, Govt. of India, in a function held at New Delhi.

NITC's ranking in the Management stream improved by nine positions and reached the 75th position. The improvement in ranking is attributed to the improved scores in all the ranking parameters, such as research, publication, consultancy and teaching and learning. The Institute is duty-bound to disseminate managerial skills to the professionals through Executive and skill development programmes and classroom training. The Institute's continuous pursuit of innovation, industry engagement, and nurturing future leaders has positioned it as a prominent institution in Innovation, Engineering, Architecture & Planning, and Management domains. On this achievement, Prof. Prasad Krishna, Director NIT Calicut, said, "We have made several efforts in the last couple of years to improve the teaching-learning process and research. Apart from significant improvements in research funding brought by faculty members, Institute's focus on supporting research and innovation by UG students through special financial support schemes have resulted in increased publications and patents.



Outstanding Achievement for NIT Calicut in NBA Accreditation

Seven major B.Tech programmes and two M Tech Programmes offered by the National Institute of Technology Calicut, namely B.Tech in Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Chemical Engineering, Production Engineering and M.Tech in Telecommunication obtained the top accreditation status of 6 years (2023-2029) have been accorded the highest accreditation status of 6 years (2022-2028) by the National Board of Accreditation (NBA), New Delhi.

Besides, the Institute also received three-year accreditation for UG in Biotechnology and PG in Energy Engineering and Management. NITC programmes received accreditation during the two rounds of inspection visits carried out by expert committees composed of 11 senior professors from top Institutions in the country during 11-13 November 2022 and February 10-12, 2023. They reviewed the data during 2019-22, during which all academic institutions in the country experienced several challenges due to the Covid pandemic.

“This reiterates the outstanding quality that NIT Calicut ensures for teaching and research. As India is a full signatory in the Washington Accord now, this achievement will help our students to secure admissions to top universities of the world for higher studies as well as employment all over the world- particularly in the US, Europe and the Middle East”, said Prof.Prasad Krishna, Director of NITC.

While the programmes offered by colleges affiliated with other universities in the country come under the Tier-II accreditation process, all NITs and other Deemed Universities come under the Tier-I scheme, which is known to be much more stringent in terms of most of the quality assessment parameters. Moreover, the current evaluation was based on the new format introduced by the NBA in the year 2021, which is tough to achieve compared to previous formats in practice. NIT Calicut is one of the very few institutions in the country to achieve this feat.

According to Prof. P. S. Sathidevi, Deputy Director and Chairperson, Centre for Quality Assurance & Enhancement, CQAE and Office of Dean (Academic) are making concerted efforts to ensure the academic quality of the programmes offered by the Institute. Regular Academic Audit also helps maintain research quality in the Institute. “In Tier-I format, NBA considers the performance of the programmes on multiple aspects such as Course Outcomes and Program Outcomes, Program Curriculum and Teaching-Learning Processes, Students’ Performance, Faculty Contributions, Institute Resources, Governance and Continuous Improvement”, Prof. Sameer S. M., Dean (Academic) said.

NBA came into existence as an independent, autonomous body with effect from January 2010 with the objectives of assurance of quality and relevance to technical education and conducting an evaluation of programs of technical institutes based on the norms prescribed by the Washington Accord, a global consortium of accreditation bodies of 22 countries including USA, UK, Canada, Australia and India.



NIT Calicut Achieves 8th Position in National Innovation Ranking: A Remarkable Accomplishment

Setting a new benchmark for innovations, the National Institute of Technology Calicut has secured 8th position in the Innovation Ranking among all technical and engineering institutions across India. NIT Calicut is the only NIT among 31 NITs in the country to find a place in the first ten institutions included in the Innovation Ranking.

NITC has so far received 25 patents and five trademarks and copyright certifications for students and faculty innovations, said Dr. Prasad Krishna, Director, NITC. The institute has also filed 14 patent applications for student innovation projects completed during 2022-23, he added.

The National Institutional Ranking Framework (NIRF) has selected NITC for the eighth rank, considering the student and faculty innovations, entrepreneurship and start-up initiatives, patents and collaborative activities. NITC has also signed 32 MoUs to promote collaborative activities with industries and higher learning institutions. Teamwork of students, faculty, staff, alumni and incubatees associating with the Institute Innovation Council, Patent Cell, Design Innovation Centre and Technology Business Incubator (TBI) of NITC resulted in the 8th rank after seven IITs, added Dr. Prasad Krishna.

The efforts of NITC to help students shape their future during their academic period have played an important role in helping the Institute to find a commendable position in the Innovation Ranking. As many as 43 innovative projects by students mentored by faculty were selected by NITC in 2022-23 alone for funding and support. The Institute has also conducted an expo of student innovations to give exposure to their products and prototypes.

The student innovation schemes also resulted in three start-up initiatives in the last academic year apart from patents and publications. These Start-ups make use of the TBI and its facility on the campus to develop their products and prototypes. As many as 64 start-up companies have already graduated from TBI at NITC and 23 companies are in the incubation stage.

The funding for the innovation projects is provided with support from Micro, Small & Medium Enterprises, Department of Science and Technology, NIDHI-Promotion and Acceleration of Young and Aspiring technology entrepreneurs (NIDHI-PRAYAS) and Ministry of Electronics and Information Technology. The institute also conducted 37 training programmes for faculties, entrepreneurs, industrialists and students for their knowledge enhancement and skill development to promote innovation. This is often spearheaded by various faculties from multiple departments.

According to the faculty members of the institute, NITC has been initiating a series of innovative programmes focusing on innovation projects since 2015. “We have been constantly working on mindset development among students and faculty, infrastructure on the campus for supporting innovation, start-ups, patents and their commercialization, collaboration with other Incubation units and introducing courses in entrepreneurship and innovation-related subjects,” they added.

In light of this remarkable accomplishment, NIT Calicut stands out as a shining example of the power of innovation and collaboration in driving institutional excellence.



Alumni's vital role in Moon Mission makes NITC proud

National Institute of Technology Calicut is on cloud nine after the successful launch of Chandrayan 3. As the Moon Vehicle blasted off from the Satish Dhawan Space Centre (SDSC) at Sriharikota in Andhra Pradesh, the pride of the alumni of NITC has also scaled to heights. While some of them were directly part of the ISRO and SDSC, some others joined the mission as private partners.

Dr. Subba Rao Pavuluri, a 1973 batch graduate of Regional Engineering College Calicut, now NITC is a prominent name that makes NITC proud. His company Ananth Technologies played a key role in the success of Chandrayan-3. Dr. Subba Rao, who was with the ISRO for 15 years of his career, launched Ananth Technologies Pvt Ltd (ATL) in 1992 with a mission to support space research in India.

“ISRO offered me an opportunity to understand the potential of the space sector. This coupled with the spirit of entrepreneurship led me to start Ananth,” said Dr. Subba Rao, Chairman and Managing Director of ATL. The company had signed technology transfer agreements with Vikram Sarabhai Space Centre, (VSSC) and with ISRO Satellite Centre (ISAC), Bangalore and started working with Launch Vehicles like PSLV, GSLV, SSLV etc and with multiple satellites and planetary and scientific missions, he said.

Ananth Technologies, headquartered in Hyderabad has been contributing to all the launch vehicle and satellite missions of ISRO. ATL has contributed to Chandrayaan - 3 launch vehicle (LVM3) in the realization of many of the Avionics packages for this LVM3 mission including On-board computers, Navigation system, Control Electronics, Telemetry, Power systems etc. In addition, ATL realized Interface packages including SLRU-BS, SCOUT-A, Power switching modules (EMA-PSM), Cryo, stage safe Arm relay units, strain Gauge balancing units, and other vehicle interface units.

So far ATL has contributed to 94 Satellites and 74 launch Vehicles. Ananth also works for providing solutions using satellite data by creating spatial databases and total solutions to developmental planning and monitoring.

The role of the alumni of the institute in the successful launch of the Moon Vehicle has made the institute proud, said Prof. Prasad Krishna, Director, NITC. NITCians are working in prestigious positions across the globe, and we are elated when our graduates reach heights and become role models to others, he said.

Apart from private partners of the Moon Mission, many of the former graduates of NITC who are working as engineers of the Indian Space Research Organization have played significant roles in Chandran 3. Many of the engineering graduates from different departments of NITC are currently working in the space research sector.

An engineering graduate who equips himself with technical knowledge, looks beyond his profession and ignites the fire in him to be an employer with ideas to contribute to the development of the country and society at large can emerge successful, said Dr. Subba Rao. Faith in oneself is the greatest strength to be an entrepreneur, he said.





CENTRE FOR CAREER DEVELOPMENT : CCD

NITC continues stellar placement record

National Institute of Technology Calicut has recorded the highest ever placements achieved in its history with 1148 placements for the 2023 passing out batch. NITC students secured placements in firms like D. E. Shaw, Salesforce, Google, Goldman Sachs, TI, Qualcomm, Oracle, Nvidia, Cisco, Atlassian, SAP Labs, Micron, Marvell, Samsung, Wabtec, L&T, IBM, TCS, Caterpillar, HCL, Bosch, Infosys, Wipro, Samsung, Maruti Suzuki and Tata Motors among a total of 200+ companies who visited the campus for recruitment this year. The campus has also seen a strong positive response from public sector placements this year.

The highest offer made this year is Rs. 50 Lakhs per annum and the average offer for Computer Science and Engineering students has increased to Rs. 22.03 Lakhs from Rs. 20.54 Lakhs last year. Average offer to ECE students has seen an increase to Rs. 18.19 Lakhs from Rs. 15.34 Lakhs at the same time last year. The overall average this year has risen to Rs. 14.29 Lakhs from Rs. 12.91 Lakhs at the same time last year.

This achievement is a testament to the credentials of the student community and the efforts of the institute in developing innovative teaching methods and career-readiness training programs for the students. Commitment to high quality education and research and efforts to provide opportunities for students to excel in their chosen field of study has had a significant impact in achieving this goal.

In line with the new education policy, the institute has a strong focus on internships at industry and research organisations. The new Centre for Industry-Institute Relations, along with our strong 35000+ alumni network, has ensured strong relationships with both public sector and private industry and other research organisations, both within and outside the country.

NIT Calicut has been incorporating novel teaching methods to make learning more interactive and effective. Consistent efforts were put to improve faculty-student ratio with recruitment of around 200 new faculty with academic and industry experience in India and abroad. The institute introduced various initiatives, curricular and co-curricular activities like flipped classrooms, lectures and interaction with Industry experts through co-teaching, peer-to-peer learning, gamification, and experiential learning to make learning more engaging and exciting for students.

The Centre for Career Development (CCD-NITC) has been providing career-readiness training programs to students to make them industry-ready. The centre has been conducting various training sessions, workshops, coding programs, hackathons and CV clinics to help students develop the necessary skills to excel in their chosen fields. The centre's focus on soft skills, communication, and personality development has helped students to become confident and articulate.

Commenting on this achievement, Dr. Praveen Sankaran, the Chairperson of CCD, said, "We are thrilled to have achieved this milestone and are proud of the achievements of our students. Our faculty, CCD-NITC team and staff have been working tirelessly to ensure that our students get the best opportunities, and this achievement is a testament to their efforts. The recent NBA 6 year full accreditation of our five undergraduate programmes augurs well for the future career prospects of our students"





NIT Calicut's Innovative Curriculum Revamp: Bridging Industry Demands & Academia

In a significant stride towards aligning education with the ever-evolving industrial landscape, the National Institute of Technology Calicut (NITC) is set to roll out a comprehensive curriculum revamp for the academic year 2023 onwards. This transformative overhaul will encompass a broad spectrum of programs, including B.Tech, B.Arch, M.Tech, M.Sc, M.Plan, and MBA, all meticulously designed to resonate with the principles of the National Education Policy (NEP)-2020. The revamped syllabi for various programmes have become a reality after a year-long review and revision by the Institute's curriculum revision committees. The process has been completed with the support of industries, recruiters, faculty, alumni and students.

The curriculum revamp offers more interdisciplinary opportunities to students, said Prof. Prasad Krishna, Director of NIT Calicut. He said it would ensure active and practical-oriented learning and bring industrial and social changes to the classrooms.

UG Programmes

NITC has introduced significant changes in its Bachelors in Technology and Bachelors in Architecture curriculum to give thrust to interdisciplinary courses, laboratory and experiment-oriented learning and academic projects in collaboration with industries, R&D labs and other reputed academic institutions in India and abroad.

According to Dean (Academic), Dr Sameer S.M., NIT Calicut is the first Institute in the country among all IITs and NITs to scrap the common first-year engineering programme for all branches of studies followed for decades. This will help them familiarise themselves with the new industry landscape arising out of Industry 4.0 and other significant developments in their first year of study in the current decade.

Minor degree programmes

The Minor programmes will help students complete four courses offered by various departments/centres. On completion of these courses, the students will be conferred with a minor degree apart from the degree in their significant stream.

NIT Calicut will offer minor degrees in cutting-edge technological areas such as Artificial Intelligence & Machine Learning, Alternative Energy Technology, Cyber-Physical Systems, Robotics and Automation, Smart Mobility and Electric Vehicle Engineering, Geoinformatics, Building Systems Engineering, Entrepreneurship & Business Analytics, Computational Biology, Photonics & Optical Engineering and Molecular Modeling and Simulation.

Open Electives

Students can opt for open electives offered by other departments and the thematic centres of the Institute.

This includes language and communication training and other technical courses. Academic, co-curricular and extracurricular activities will get thrust with the revision.

PG Programmes

The Institute has revised the curricula of 26 M.Tech programs and 3 MSc programs apart from M.Plan and MBA programs. Two new M.Tech programmes will also begin this academic namely,

(i) M.Tech in AI

A new Post Graduate programme in Computer Science and Engineering, Artificial Intelligence and Data Analytics is being introduced this academic year, identifying the significance of AI and data analytics in the changing IT scenario. It will be offered as a self-sponsored programme for students with diverse backgrounds, such as engineering and sciences in any specialization.

(ii) M.Tech in Electric Vehicle

This M.Tech programme will be offered online by the Electrical Engineering Department aimed to attract working professionals. Candidates can complete the course with an industry sponsorship or self-sponsorship.

Doctoral Programmes

The NITC has also revamped its doctoral programmes. The Senate of the Institute has decided to offer PhD programmes with and without fellowship to students through multiple schemes. A unique, first-in-the-country, external direct PhD scheme is introduced to provide opportunities to scientists and engineers in R&D labs and industries without post-graduation, to pursue their PhD, along with their regular job. This is designed to foster greater collaborative research between our faculty members and experts in industries. This curriculum metamorphosis encapsulates NIT Calicut's dedication to dynamic education, integrating industry-relevant skills and knowledge. With these profound changes, NITC continues its journey as a forward-looking institution poised to produce graduates primed for the contemporary professional landscape.





Transforming Education: Implications and Promises of National Education Policy 2020



Prof Prasad Krishna
Director

Education is vital for national advancement and growth. Higher education is particularly important for fostering knowledge creation, driving innovation, and promoting social and economic development, thereby contributing to the nation's progress and prosperity.

The National Education Policy 2020 (NEP 2020) is a forward-thinking blueprint that introduces groundbreaking concepts to enhance the Indian education system in the 21st century. It offers insights and recommendations for education, covering multidisciplinary and holistic approaches, quality research promotion, teacher professional development, technology integration, internationalization of higher education, institutional autonomy, governance and regulatory restructuring, curriculum revamping, pedagogy enhancement, assessment improvement, and content availability in Indian languages. These measures aim to enhance access, improve quality, and prepare higher education for the future. By 2030, NEP 2020 aims to transform India's education system, emphasizing access, equity, quality, affordability, and accountability.

NEP 2020 seeks to revolutionize higher education in India through holistic learning, multidisciplinary education, research excellence, and technology integration. It covers undergraduate, postgraduate, doctoral, and vocational education in both public and private institutions, including foreign universities. The policy proposes measures to create a more inclusive, flexible, multidisciplinary, and innovative higher education system that meets the diverse needs and aspirations of learners and society.

Among the numerous transformative initiatives, a few standout frameworks shine brightly, promising to bring about an era of unprecedented revolution in higher education.

National Credit Framework and Academic Bank of Credits: A game-changer for higher education and skilling. The National Credit Framework (NCrF) is a revolutionary reform introduced under NEP 2020 for the Indian higher education system. It establishes a standardized credit-based system to recognize and transfer academic credits across institutions and programs in India. All higher education institutions will adopt this uniform credit system, enabling seamless credit transfer and student mobility. It promotes multidisciplinary learning, allowing students to pursue diverse interests and develop a range of skills, encouraging lifelong learning and personalized educational paths. Moreover, the NCrF fosters collaboration among institutions, recognizes prior learning and skills acquired through non-formal or informal means, and supports research initiatives.

The policy introduces the Academic Bank of Credits (ABCs) along with the NCrF. ABCs is a digital repository that stores academic credits earned by students from various institutions and domains, online and offline. These credits can be used to obtain a degree. The bank securely stores learners' academic records, transcripts, certificates, and badges. ABCs aims to foster lifelong learning, flexibility, and learner-centric education.

MERU for Embracing Multidisciplinary Education and Innovation: NEP 2020 suggests the establishment of multidisciplinary education and research universities (MERUs) with the aim of promoting interdisciplinary education and research across all higher education institutions (HEIs). MERUs offer comprehensive education that encompasses various disciplines, including sciences, social sciences, arts, humanities, languages, and sports. These universities prioritize holistic and experiential learning, fostering critical thinking, creativity, and problem-solving skills among students. Additionally, MERUs actively engage in high-quality interdisciplinary research and innovation across diverse fields, enjoying complete autonomy in academic, administrative, and financial matters. MERUs aim to develop individuals capable of contributing to the knowledge society and addressing 21st-century challenges.

Fostering Research Excellence: The NEP 2020 acknowledges the importance of research in higher education and proposes the establishment of the National Research Foundation (NRF) to facilitate high-quality academic research in India. The government approved this proposal in June 2023, and the NRF is expected to be established soon through an act of Parliament. The primary goal of the NRF is to bridge the gap between research and higher education, enhancing research capabilities in Indian universities and fostering innovation and collaboration among academia, industry, and government.

Promoting Innovation, Entrepreneurship and Industry-Academia Collaboration: NEP 2020 prioritizes innovation and entrepreneurship in higher education, promoting incubation centers, entrepreneurship cells, and technology transfer offices. It aims to nurture an entrepreneurial mindset, support startups, and foster industry-academia collaboration. The goal is to cultivate innovators and job creators, align the skilled workforce with industry needs, and stimulate economic growth.

The NEP 2020 is a transformative blueprint for higher education in India. It emphasizes learner-centric approaches, research excellence, multidisciplinary learning, digital transformation, flexibility, and entrepreneurship. The policy aims to position India as a global hub for knowledge creation, innovation, and academic excellence. It focuses on providing high-quality education, nurturing a future-ready workforce, and fostering innovation and research. Several initiatives like the NCrF, ABCs, MERUs, and NRF are introduced to achieve these objectives.

Embracing NEP 2020: NITC's Bold Leap Towards Transforming Higher Education

National Institute of Technology Calicut (NITC), which was recently ranked 23rd in the NIRF Engineering ranking 2023 and positioned 8th in the NIRF Innovation Ranking 2023, has wholeheartedly embraced the NEP 2020 by taking proactive initiatives in revising its academic programs and curriculum. This demonstrates NITC's commitment to aligning its offerings with the transformative vision of NEP 2020. The initiative signifies a

significant step forward in shaping the future of higher education at NITC and preparing learners for the changing world. NITC has strategically developed a range of programs to establish itself as a MERU. Through an innovative approach, it offers students the opportunity to explore diverse academic disciplines and fosters interdisciplinary knowledge development.

Access to quality education: NITC aligns with the NEP 2020's goal of providing inclusive education and a flexible credit system, fostering creativity and critical thinking through innovative curricula. By offering a choice-based credit system, NITC empowers students to tailor their academic journey based on their passions, ultimately preparing them for their desired career paths. In 2023, NITC will introduce exit options to enhance their educational programs.

Holistic and multidisciplinary curriculum: The institute showcased its adaptability by actively integrating specialized programs in emerging technologies such as Robotics, Automation, AI, and Machine Learning. This addition aims to develop diverse skills and encourage interdisciplinary competencies among students. The implementation of these programs will begin in the upcoming academic year.

NITC has recently completed a comprehensive revision of the syllabi for undergraduate, postgraduate, and doctoral degree programs. The process included input from industry consultations, and feedback from faculty, alumni, and students. This collaborative and inclusive approach ensured that the revised curriculum aligns with industry requirements.

NITC strongly encourages students to pursue minor programs in addition to their majors, recognizing the advantages of a well-rounded education and a diverse range of skills. NITC places a strong emphasis on practical experience by incorporating mandatory internships across different sectors, providing students with opportunities to apply their knowledge, gain valuable hands-on experience, and build meaningful industry connections.

Experiential learning through internships: NEP 2020 emphasizes the importance of experiential learning, internships, industry collaborations, and social service activities. NITC encourages these practices by incorporating project-based, problem-based, and inquiry-based pedagogies. It also fosters collaborations with industries to provide real-world exposure to students.

The Institute is dedicated to facilitating valuable internship opportunities for students, allowing them to engage in one or two-semester internships while pursuing their undergraduate or postgraduate studies. This initiative aims to provide students with practical exposure to real working environments, enabling them to gain invaluable experience and enhance their skill set.

Industry exposure gained through internships indeed plays a significant role in fostering the ability to learn. Internships provide invaluable hands-on experience that allows individuals to apply theoretical knowledge to real-world scenarios. By working alongside professionals in their field, interns gain practical skills, industry insights, and a better understanding of how concepts are applied in a professional setting. Understanding how to acquire new knowledge and adapt to changing circumstances is a fundamental aspect of the NEP 2020.

Governance and excellence: NEP 2020 focuses on improving the governance and management of educational institutions. NITC aligns with this objective through the establishment of centers, incubation centers, and innovation labs. These initiatives promote excellence, research, innovation, and entrepreneurship. NITC has made significant strides in promoting holistic education through the establishment of fifteen multidisciplinary centers. These centers cater to diverse aspects of development, including intellectual, aesthetic, social, physical, psychological, emotional, and spiritual dimensions. By focusing on these areas, the institute recognizes the importance of a well-rounded education that goes beyond academic achievements. The centers are as follows:

1. Centre for Quality Assurance and Enhancement
2. Centre for Sustainable Technologies
3. Centre for Innovation, Entrepreneurship and Incubation
4. Centre for Indian Knowledge Systems
5. Centre for Yoga and Holistic Wellness
6. Centre for Information Technology, Research and Automation (CITRA)
7. Centre for Industry-Institutional Relations (CIIR)
8. Centre for International Relations and Foreign Languages
9. Centre for Cultural and Art Relations (CCAR)
10. Centre for Public Relations, Information, and Media Exchange (C-PRIME)
11. Centre of Excellence in Logistics and Supply Chain Management
12. Centre for Electric Vehicles
13. Centre for Women Welfare and Social Empowerment (CWSE)
14. Centre for Bioscience and Bioengineering
15. Centre for Holistic Teaching and Learning

NITC's multidisciplinary centers offer programs that enhance students' overall development, enabling them to acquire knowledge and skills beyond their core academic subjects, thus reflecting the institute's dedication to creating a comprehensive learning environment that transcends disciplinary boundaries.

NIT Calicut has established the Centre for Indian Knowledge Systems (CIKS), or Bharatheeya Gyana Parampara Kendram, as part of its commitment to the NEP 2020. CIKS aims to promote education, training, and research in traditional Indian Knowledge Systems. The center focuses on disciplines like Science, Mathematics, Economics, Astronomy, and Astrology, encompassing the rich heritage of Indian knowledge in these fields. CIKS offers open elective courses, workshops, and projects that explore Indian traditions and principles. These initiatives provide a holistic educational experience, fostering an appreciation for India's diverse heritage and knowledge systems. NIT Calicut's establishment of CIKS demonstrates its dedication to preserving and revitalizing traditional Indian knowledge and nurturing a deeper understanding of the nation's intellectual heritage.

NITC has also established the Centre for Cultural and Art Relations (CCAR) to integrate arts into the educational journey of engineering students. CCAR recognizes the holistic benefits of arts and believes that exposure to diverse art forms can greatly enrich engineering education. The center introduces various art forms, such as dance, music, drawing, painting, and drama, as part of the engineering curriculum. By incorporating these disciplines, CCAR encourages students to explore their artistic talents, broaden their perspectives, and develop a well-rounded skill set. The inclusion of arts in the curriculum serves multiple purposes, including fostering discipline, enhancing focus and attention to detail, boosting confidence, and improving communication skills.



Promoting Student Wellness: NITC is indeed committed to the well-being of its students, faculty, and staff. The institute recognizes that the overall welfare and happiness of its members are vital for creating a conducive learning and working environment.

Fostering Innovation and Entrepreneurship: NITC has established a Centre for Innovation, Entrepreneurship, and Incubation to encourage innovation and entrepreneurial ventures among its students and faculty. As a result of this initiative, NITC has achieved an impressive 8th position in the Innovation Ranking among all technical and engineering institutions in India. Notably, NITC is the sole NIT among the 31 NITs in the country to secure a spot in the top ten institutions featured in the Innovation Ranking.

Igniting Innovation, Empowering Start-ups: In the past three years, NITC has successfully obtained 29 patents and acquired five trademarks and copyright certifications for innovative creations by its students and faculty. Notably, the Institute has provided funding for 43 student innovations during the 2022-23 academic year, resulting in the filing of 14 patent applications. To showcase the products and prototypes developed by students, an expo dedicated to student innovations was organized last year, providing them with valuable exposure. Furthermore, NITC has implemented the National Innovation and Startup Policy (NISP) of 2019, which actively promotes and supports start-ups initiated by both faculty and students. This comprehensive framework encourages entrepreneurial endeavors within the

institute and nurtures a culture of innovation and business development.

Advancing Education with Global Mobility and Digital Innovations: NITC is following NEP 2020 guidelines to promote study opportunities in India and improve credit transferability. It has registered with DigiLocker and initiated the onboarding process for the ABCs, making it easier for students to transfer their credits to other institutions. These initiatives enhance the academic experience and credit portability for NITC students.

Empowering Educators for Excellence: NITC focuses on the professional development of teachers and educators as per NEP 2020. They offer various opportunities for training, research, innovation, and leadership roles to enhance their skills and knowledge. By doing so, NITC ensures the delivery of high-quality education and empowers educators to excel in their roles.

NITC's implementation of NEP 2020 is commendable. The institute has revised academic programs and curriculum, embracing a holistic and multidisciplinary approach. The institute incorporates choice-based credit system, minor programs, internships, and emphasizes governance, excellence, student wellness, innovation, entrepreneurship, global mobility, and digital advancements. These efforts create a dynamic learning environment, nurturing well-rounded individuals for an evolving world. NITC's adoption of NEP 2020 inspires other institutions to transcend disciplinary boundaries and provide comprehensive learning experiences.



Entrepreneurship Development Activities at NIT Calicut

NIT Calicut (then CREC) established an Entrepreneurship Development Cell with financial support from DST in 1988. EDC had conducted many skill development programmes, including the diploma programme in Small Business Management till 2007. EDC has conducted Entrepreneurship Development programmes in general and specific areas like rubber and food products. Skill and Technology Upgradation Programmes (sponsored by DST, SIDBI, etc.) were conducted for the upgradations of the MSMEs of the region. Apart from these programmes for the entrepreneurs, EDC had conducted skilling programmes under the MEGSAT (Mission For Employment Generation through Science And Technology) Scheme of DST in plumbing, electrical wiring, etc. Other Skill development programmes like Office Automation training (MS Office, DTP, etc.), project management, and accounting were also conducted for the skilling of the unemployed youth of the region.

NITC set up a Technology Business Incubator (TBI) in 2003-04 with the support of the National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India to incubate startup industries in various fields of Technology & Science. Incubation activities are also supported by the Ministry of Electronics and Information Technology (MeitY) and the Ministry of MSME. TBI has provided incubation support to 102 startups, providing funding, mentoring, technical and managerial training, and infrastructure support. All the incubated companies have employed more than 1400 people; some have offices and clients in many other countries. The TBI at NITC is now registered as a society and is open to all entrepreneurs.

During the last three years, 34 innovators have been supported through the NIDHI-PRAYAS scheme, giving each prototype grant up to 10 lakhs. Faculty and student innovators and startups of the Institute are also supported and mentored by TBI.

Under the Coir Board, TBI has also taken up consultancy services like cluster development for the Coir societies in Balussery, Calicut. Approximately 500 coir workers benefit from this project. TBI at NITC also conducts entrepreneurship development programmes, including special programmes for women entrepreneurs, every year and has trained almost 800 people, including 200 women, leading to a success rate of 65%.

Centre for Innovation, Entrepreneurship and Incubation was formed at NITC to coordinate all the entrepreneurship and innovation activities at the Institute. The CIEI has a cell that promotes intellectual property generation and filing for the faculty and students of the Institute. The Institution Innovation Council (IIC), another arm of CIEI, works to promote student innovations specifically per the directions of the Ministry's Innovation Council (MIC) of MoE. TBI provides help to startups formed by students and faculty as well as startups of entrepreneurs from the regional ecosystem. CIEI promotes entrepreneurship activities in the region's institutions and handholds them.

NITC collaborates closely with the National Innovation Foundation to promote grassroots innovation, and NITC acts as a nodal Centre for NIF. An MoU was entered into with NIF in this regard. NITC collaborates with NIF in mentoring the innovators identified from the region. CIEI has associated with the State government for the Young Innovators programmes and activities of Startup Mission of the State also to provide mentoring to the innovators.

The skill training was provided to the artisans of the region's traditional coir industry under the Ministry of MSME's financial support. The Ministry of MSME also supported many other entrepreneurship training programmes.



Empowering Education and Global Collaborations: Hon. Minister of State Shri V Muraleedharan's visit to NITC

Union Minister Shri. V. Muraleedharan emphasized the need for diversifying education and learning

Honourable Minister of State for External Affairs and Parliamentary Affairs, Shri. V. Muraleedharan, visited NIT Calicut on 24th February 2023. The minister launched several new initiatives during the event. Shri PTA Rahim, MLA Kunnamangalam also attended the event. The Director, Prof Prasad Krishna in his presidential address urged on the need for multidisciplinary knowledge and aptitude for engineering students. He insisted on the ideal of India becoming a "Vishwa Guru". He assured that NITC fraternity will wholeheartedly deliver to that cause.

The Hon. minister Shri V Muraleedharan addressed the gathering and emphasized the need of diversifying education and learning and the global significance of the same. He also shared his personal experiences and urged that the media must be guided by ethics and be committed to the idea of unbiased ethical reporting. Shri PTA Rahim, MLA Kunnamangalam also addressed the gathering and congratulated the institute for its endeavors. The Deputy Director of NITC, Prof Sathidevi PS congratulated the Center for International Relations and Foreign Languages and conveyed best wishes to the newly formed Center for Women Welfare and Social Empowerment. The Registrar, Cdr. Dr Shamasundara M S, in his welcome address, assured that NITC will continue to commit itself to several other socially committed initiatives.

NITC also signed an MoU with the Mahatma Gandhi College of Mass Communication (MAGCOM) with the intent to collaborate for academic courses in the domains of content writing, technical writing and international media studies. MAGCOM has already signed a similar MoU with JNU, Delhi for academic collaboration. Speaking on the occasion, Dr N R Madhu, from MAGCOM said that several engineers now turn to courses in media studies and he hoped that collaborating with an institute such as NITC will open newer possibilities. The Registrar Cdr. Dr. Samasundara signed the NoU on behalf of NITC and Shri. Anuraj A K signed it on behalf of MAGCOM.

A brochure of the newly formed Centre for Women Welfare and Social Empowerment (CWSE) was released by the Minister. The Chair of the center, Dr Suni Vasudevan, mentioned that the objectives of the centre is to empower girls and women towards self-sustenance, by enabling them to take part in decision-making and entrepreneurial skills, and providing equitable socio-economic opportunities.

Prof MK Ravi Varma, Chair, CIRFL, presented a brief report on the activities of the center during the last year. The first newsletter of the Centre was released by the Hon. MLA Shri. P T A Rahim. The Hon. Minister also inaugurated a newly formed International Students and Scholars Office to facilitate international exchanges. Shri ARS Menon, Swadeshi Science Movement, Kochi, spoke about Swadeshi Science Congress and updated the audience about the upcoming collaboration with Center for Indian Knowledge Systems, NITC. The Congress will be held in NIT Calicut during 25 - 27 May 2023 in association with the ICAR - Indian Institute of Spices Research (IISR) Calicut and KSCSTE - Centre for Water Resources Development & Management (CWRDM).

Dr Amit Kumar Singh, Associate Professor, Mechanical Engineering Department and Coordinator, Pradhan Mantri Kaushal Vikas Yojana 4.0, addressed the gathering and spoke about the SKILL HUB at NITC. He spoke about the initiative taken by NITC pertaining to PMKVY 4.0 and said that NITC has already envisioned 41 courses under the scheme.



Hon. Union Minister Shri. Rajeev Chandrasekhar's Inspiring Visit to NITC: Encouraging Innovation and Skill Development

Shri. Rajeev Chandrasekhar, Union Minister of State for Electronics, Information Technology, Skill Development and Entrepreneurship, visited the National Institute of Technology Calicut on 30.08.2022.

He was received by the Director, Dr Prasad Krishna and his team of officials at the Director's Office. He was joined by the Member of Parliament of Kozhikode, Shri. M K Raghavan. After an informal interaction with the Director, the minister interacted with 11 incubatees from the Technology Business Incubator (TBI) of NITC. Dr Preethi M., Manager, TBI, coordinated the meeting. The incubatees that met the minister were NuCore Software Solutions Pvt. Ltd, Infinite Open Source Solutions LLP, Babtra, NAWE Robotics, BRAI-Ro Tech Pvt. Ltd, Storilab System Technologies LLP, C-Disc Technologies LLP, Zolaris Energy Solutions LLP, Santo Jacob, APHEXS (Automated Trading System) and Aojal.

Afterwards, the minister had an exhilarating 'Fireside chat' with the students of NITC on the topic 'New India for Young India: Techade of Opportunities'. The Center for International Relations and Foreign Languages, NITC coordinated the programme. He shared his valuable experience and motivated students by providing them with direction with regard to their career-building in response to the worldwide need for better technological solutions. He stressed the importance of aligning oneself with the national interest and global requirements, which can be attained by pursuing certification programmes for skill enhancement alongside graduate studies.

He said that the students must not settle for jobs but pursue intelligent designs and innovation and turn to entrepreneurship as a career option. He also suggested that TBIs must identify such sustainable and bright designs and support them substantially. He insisted that India needs innovative ideas and designs to achieve a position for itself as a global leader in technology. Indian needs to redefine itself as a technology provider rather than a technology buyer/consumer. He expressed his optimism that India's digital population will increase from 82 crores to 120 crores in 3 years with the support of 5G, 4G and BharatNet, and transform into the biggest connected nation.

The Director addressed the audience and thanked the government's machinery for aiding the institute in this journey. He stated that the institute has already aligned itself with the directives of the Govt. of India and manifested its Vision 2047, taking inspiration from government initiatives like Skill India, Start-up India, Make in India, Digital India and Aatmanirbhar Bharat. He also inspired the young graduates to work towards achieving a Viswaguru Status for India once again, for which the students will have to envision welfare of society

and the world at large. Shri. M K Raghavan M P also addressed the gathering and extended his gratitude to the minister and NITC for creating scope for such an interaction. He stressed the significance of improving the overall quality of education from the grassroots level to enhance employability. He also proposed the ideas of an electronic park, national skill park and IT park to improve skills and employment opportunities for young women and men. He suggested that NITC should tap possible collaborations with Tech giants for better skill development of its students.

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NIT Calicut & BOSCH MoU for a new M.Tech Program on Electric Vehicle Engineering

NIT Calicut, jointly with Bosch Global Software Technologies (BGSW), sets a new trend in Industry-Academia Collaboration by introducing a new M.Tech Programme on Electric Vehicle Engineering for Working Professionals. It is the country's first fully Industry sponsored Postgraduate programme on Electrical Vehicle Technology.

The course is designed to have both theoretical and practical expertise on EV product development. Every subject in the program will have an industry case study and a subsequent project in industry. The course has advanced subjects in in-vehicle system engineering, energy storage, and charging systems, as well as powertrain, power electronics, and electric machine. Additional focus is also on digital engineering for electric vehicles like data science, artificial intelligence, IoT, etc.

BGSW is sponsoring part of this program's annual seats for their employees. The rest of the seats will be offered to other industries, organizations and students under

the self-financing category. Additionally, BOSCH will also volunteer for industry sessions of the program. The agreement was signed on 18th November 2022 between Prof. Prasad Krishna, Director of NITC, and Sri. R K Shenoy, Member of the Executive Leadership Team and Senior Vice President at Mobility Engineering, BGSW.

The event also saw presentations from BOSCH leadership Mr Yusuf Osman (Vice President of Engineering, Electric Vehicles), Mr Mohan Bellur (Head of Learning and Development, HR), Mr Sajit C.P (Head of Engineering, Electric Vehicles), Mr Prasanth Pathiyil (Head of CoE, electrification). During the occasion, Director Prof. Prasad Krishna said that **"Development and training on Electric Vehicle Engineering is the need of the hour. EV is a viable solution for pollution, fossil fuel shortage and economic security."**

This BOSCH-sponsored M Tech programme is one of the milestone events for NIT Calicut, which celebrated its diamond jubilee in 2022. NIT Calicut will offer this programme to working professionals from all India and worldwide industries".

Sri. Shenoy from BOSCH commented – "As we turn a new page in Industry-Academia collaboration, it allows us to reimagine a more sustainable future in mobility. A sustainable future is one based on learning, and going forward; we will continue our strive towards innovating new-age technologies in the mobility space. We are very excited as these courses empower our Engineers to explore newer horizons."

Sri. Yusuf from BOSCH commented – "We are very proud to establish this Electrification Masters' program with NITC. This will help fuel our future innovations and help us reinvent the automotive space. This collaboration opens doors for great opportunities, and we are looking forward to its successful launch."



NITC launches Online Regular M Tech Programme in Electric Vehicle Engineering

National Institute of Technology Calicut, on Monday, launched an innovative M Tech Programme in Electric Vehicle Engineering. The initiative aims at offering an online-regular M Tech Programme for industry professionals and other students in Electric Vehicle Engineering.

The total number of seats allotted for this online-regular M Tech programme is 20. Of the total, 50 per cent of the seats are industry-sponsored, and the remaining are self-sponsored. The programme is launched by the Electrical Engineering Department (EED) of NITC. Eight of the new batch candidates are from BOSCH and four from TATA Elxsi.

The presence of 50 per cent industry experts in the batch will benefit the remaining students as they can associate closely with industry experts, said Prof. Prasad Krishna, Director of NIT Calicut, during his address at the launch function, at the Senate Hall of NIT Calicut. Now with the launch of this programme, the vice president of BOSCH and many other senior experts from automobile industries will become part of our

academia, assuring excellent opportunities to students, he said. Professor of practice system, where industry experts will become the faculty of the institution, is another initiative that will benefit the students of NIT Calicut, said Prof. Prasad Krishna. The problems are multi-disciplinary, and we are trying to equip our students to find multi-disciplinary solutions, said the Director of NITC.

Sri. R K Shenoy, Vice President of BOSCH India highlighted the significance of this online M Tech Programme, during his address. It is the right time to start a new mode of engineering, and this programme offered in hybrid mode involves a lot of practicals to equip candidates, he opined.

Green energy is the need of the hour and the engineers from a new stream can contribute a great deal towards this, said Sri. Anush G Nair, senior Technology Manager of Tata Elxsi. Tata Elxsi is happy to collaborate with NITC, and the initiative to set up a new laboratory on the Campus will enhance the collaboration, he said.

Industry Connect will ensure the availability of industry-ready engineers, said Prof. Sameer S M, Dean (Academic). The new programme will be mutually beneficial to the institute and the industry as the students are permitted to work on projects related to their responsibilities in the industry, he said.

Dr. Ashok S, Professor of EED; Dr. Kumaravel S, Associate Professor of EED, Prof. Preetha P, Head of EED, Dr. Praveen Shankaran, Chairperson, Centre for Career Development, Dr. Sreelakshmi M P, Assistant Professor EED, Cdr (Dr) Shamasundara M S, Registrar of NITC also spoke at the launch function.

Industry connect with BOSCH, TATA Elxsi and other companies to improve with the initiative.





New M.Tech programme in Artificial Intelligence and Data Analytics

Department of Computer Science and Engineering of NITC started a new M.Tech programme in Computer Science and Engineering with specialization in Artificial Intelligence and Data Analytics from this academic year. This programme is offered under the Self-financing mode for candidates from multiple disciplines, with a view to address the ever-growing demand for AI and Data Analytics professionals in all walks of life across the globe. The curriculum, designed in consultation with experts from both the industry and academia, provides a balanced coverage of the theoretical foundations of the subject and places heavy emphasis on the engineering practice that suits the industrial requirements.

Applicants should have passed Bachelor's degree of four years duration in any branch of Engineering/Technology/Science OR Master's degree of two/three years' duration in any stream of Science / Mathematics / Statistics / Computer Science / Computer Applications, from a recognized university/institute. Selection is based on the test and interview conducted by the Department of Computer Science and Engineering. GATE score is not compulsory. Students admitted under the self-financing category will not receive any financial aid or scholarship. But they are eligible to appear for campus placement interview coordinated by the Centre for Career Development of the institute.

NIT Calicut offers Integrated B.Sc.- B.Ed. Programme



NIT Calicut has received approval to commence an Integrated four-year B.Sc. B.Ed. Programme from this academic year. The new programmes are approved under the Integrated Teacher Education Programme (ITEP) introduced in institutions, including two IITs and four NITs. The ITEP aims to contribute substantially to revitalizing the whole teacher education sector. The prospective teachers passing out of this programme through a multi-disciplinary environment, imbibing global standards, are expected to shape the future of India and help the education system to adapt to National Education Policy.

“NIT Calicut will offer BSc-BEd (Secondary level) with Majors in three different disciplines, namely Physics, Chemistry and Mathematics, in line with the mandate of the National Education Policy 2020 and subsequent initiatives by the National Council for Teacher Education (NCTE),” said Prof. Prasad Krishna, Director, NITC. The four-year ITEP will be open to all students who choose teaching as a profession after secondary education, by choice, he added. ITEP offered by NITC helps students complete B.Sc.-B.Ed., a dual major undergraduate degree, after their plus two or XII grade. This integrated programme will benefit the students to save one year by completing B.Ed. and BSc. in four years. The normal duration for completing B.Sc. and B.Ed. is five years.

“The students can choose the Major in the first semester and complete their BSc. Degree in the first three years,” said Dr Sameer S. M., Dean (Academic). The exit policy of NEP helps the students to exit with an undergraduate degree in Physics, Chemistry or Mathematics after three years. Those who complete the four-year programme will get B.Sc. and a B.Ed. Degree from NITC,” he added. Students who have completed their plus two in science can apply for the programme. National Testing Agency will conduct the national-level entrance exam for the programme. According to Dr Sunil Jacob John, Coordinator, ITEP, NITC, the Four Year ITEP is a milestone achievement in fulfilling one of the major mandates of National Education Policy 2020. The programme will also nurture the teachers grounded in Indian values and traditions and meet the global educational requirements in the 21st Century.

NIT Calicut and IIT Hyderabad Forge Strategic Partnership to Elevate Academic Collaboration

In a landmark development, National Institute of Technology Calicut (NITC) signed MoU with IIT Hyderabad, K on Tuesday, 23rd May 2023, to foster collaborations in the fields of academics and research. The MoU between NIT Calicut and IIT Hyderabad envisions knowledge exchange and joint research initiatives. The MoU signed by Prof. Prasad Krishna Director NIT Calicut and Prof. B. S. Murthy, Director IIT Hyderabad, signifies a shared commitment to

enhance academic cooperation and exploring avenues for joint initiatives. This strategic collaboration will open up numerous opportunities for faculty, researchers, and students to engage and collaborate on projects of mutual interest. The MoU paves the way for student exchange initiatives, enabling undergraduate and graduate students to study at the partner institution for an academic year. This opportunity expose students

to diverse educational environments and cultural experiences and foster global perspectives. NIT Calicut and IIT Hyderabad will explore the possibility of jointly offering degree programmes, allowing students to obtain degrees from both institutions.



NIT Calicut established two key partnerships for Innovation and Progress

On the afternoon of Tuesday, May 23rd, 2023, the National Institute of Technology (NIT) Calicut formalized two significant Memoranda of Understanding (MoUs) with distinguished institutions. The first MoU was signed in collaboration with the Centre for Water Resources Development and Management (CWRDM), an eminent research and development establishment specializing in the water sector, instituted by the Government of Kerala. The signatories of this MoU were Professor Prasad Krishna, Director of NIT Calicut, and Dr Manoj P. Samuel, Executive Director of CWRDM. This partnership aims to forge a lasting alliance between the two institutions with a focus on education, training, and research. The central objectives of the MoU revolve around the joint execution of research endeavours and the development of technological solutions in the domain of water resources engineering and its

associated fields. The MoU also encompasses the arrangement of collaborative training and outreach initiatives to serve the interests of both students and the broader society. Within the framework of this agreement, NIT Calicut and CWRDM will facilitate the exchange of faculty members, scientists, and postgraduate and research scholar students, fostering mutual growth and enrichment.

Simultaneously, during the same event, NIT Calicut entered another MoU, this time with the Kerala Medical Technology Consortium (KMTC). KMTC was the other party to this MoU, a flagship initiative endorsed by the Government of Kerala and incubated under the Kerala Development and Innovation Strategic Council (KDISC). Professor Prasad Krishna,

Director of NIT Calicut, and Mr C Padmakumar, Special Officer at KMTC, affixed their signatures to this collaborative agreement. The primary goal of this MoU is to establish a substantial and value-enhancing partnership between NITC and KMTC through joint initiatives aimed at fostering innovation and entrepreneurship in the realms of 'Medical Technology / Medical Devices and allied areas'. This partnership seeks to streamline the process of translating research discoveries into pragmatic applications and marketable products. By harnessing the industry connections of KMTC in conjunction with the research outputs of NITC, pioneering medical technologies can be effectively introduced to the market, ultimately benefiting patients and healthcare providers



Medical institutions joining hands with NITC under the leadership of KMTC

Kerala Medical Technology Consortium (KMTC) and the National Institute of Technology Calicut joined hands to organize a one-day 'Connect Meet' on 7th March, where experts and stakeholders came together to discuss issues around Translational Research in Medical Technology. The Meet themed around "Translational Research in MedTech: From Concept to Manufacturing", brought together the various stakeholders of the Kerala MedTech Ecosystem - Research Institutions, MedTech Companies, Academic Institutions, Govt agencies, Startups, Healthcare Professionals and Hospitals to discuss and exchange notes on taking innovations and ideas from a concept stage all the way to commercial manufacturing. KMTC is a flagship initiative of the Government of Kerala, aimed at establishing Kerala as the top Medical Technology / Medical Devices hub of India by 2032. KMTC acts as a catalyst to accelerate research, innovation, development and manufacturing in the sector by bringing together all stakeholders in a vibrant, interactive and inclusive ecosystem. KMTC organizes Stakeholder Connect Meets (SCM) on a regular basis, in associations with key partners in different parts of the state, to help the ecosystem to interact better.



Director of NIT Calicut, Prof. Prasad Krishna inaugurated the Meet in the morning and emphasized on the necessity of indigenization of the technologies for making healthcare affordable. The Special Officer of KMTC, Mr. C. Padmakumar, set the context for the event in his address to the participants, urging the experts, participants to share their knowledge and insights to distill their experiences and learning to help improve Translational Research, especially in the Medical Technology and Medical Devices area.



Inspiring and encouraging words were also delivered by Dr. Saji Gopinath (Vice Chancellor, Digital University Kerala), Dr. E. V. Gopi (Principal, Government Medical College Kozhikode), Dr. K M Navas (Chairman, KMCT Group of Institutions), Dr. Narayanankutty Warriar (Medical Director, MVR Cancer Centre and Research

Institute), and Dr. Gopakumar Kartha (Dean, Dr. Moopen's Medical College, Wayanad) during the inaugural session. In the technical session, Dr. Siby Varghese, Deputy Director of Rubber Research Institute of India, elaborated on the immense opportunities in natural rubber and latex based medical products. Dr. Santhosh Kuriakose (Govt. Medical College, Kozhikode) and Dr. Vijayagopal (MVR Cancer Centre and Research Institute) described their ongoing research collaborations with NIT Calicut in the area of 'Artificial Intelligence for Health Care'

NIT Calicut, Government Medical College Kozhikode, KMCT group of Medical Institutions, Dr. Moopen's Medical College and MVR Cancer Centre and Research Institutions presented the ongoing research activities in the relevant field and overview of the facilities at the respective institutions. Selected startups from the medical devices field showcased their innovations.

They also presented the challenges they are facing in the product development process. There were 130 participants from Government Medical College Kozhikode, KMCT Medical College, Dr. Moopen's Medical College, MVR Cancer Centre and Research Institute and many others in this one day programme.

NIT Calicut signed MoU with KMCT Medical and Dental Colleges

National Institute of Technology Calicut signed a MoU with KMCT Medical College and KMCT Dental College, Mukkam, to foster collaboration in education, research, technology development and its translation. In the function organized at NITC on Monday, the Director of NITC, Prof. Prasad Krishna and Dr Lathi Nair, Principal of KMCT Medical College and Dr Manoj Kumar, Principal of KMCT Dental College, signed the MoU in the presence of dignitaries from NITC and KMCT Medical and KMCT Dental College. During the programme, Dr Jose Mathew, the Centre for Industry Institutional Relations Chairperson, presented the various collaborative researches NITC is doing in the medical field and Institutions like MVR Cancer Centre and Research

Institute, Govt. Medical College, Kozhikode, Dr Moopen's Medical College Wayanad, SCTIMST, KMC Mangalore, etc. He also mentioned some ongoing projects in which KMCT Medical and KMCT Dental College are actively participating. In his address, NITC Director Prof. Prasad Krishna mentioned that the MoU will strengthen the collaboration in promoting research and development and establish stronger ties between the Institutions. This MoU will create better opportunities for the students, faculty and staff, giving a broader framework for areas to associate and can jointly look for funding from different agencies for these researches. Dr Lathi Nair, Principal KMCT Medical College, emphasized the importance of research and technology

intervention in medical procedures among doctors. The group of institutions highlights innovations and product development, too and has made some commendable achievements.

Dr Manoj Kumar, Principal KMCT Dental College, pointed out that some areas in which the Dental college is looking for collaborative research are Materials Science, Nano Technology, Artificial Intelligence applications and surgical stent prototyping through 3D printing. Dr Rajendran and Dr Kuriakose from KMCT Medical College, and Prof. Santhosh from KMCT Dental College mentioned that there is a lot of scope for addressing the medical problems with technological solutions.



Fostering Excellence through Industry Collaboration: NIT Calicut's Innovative Approach'

In an ambitious endeavour to bridge the gap between academia and industry, NIT Calicut is set to embark on a transformative journey of enhanced collaboration. The initiative is to appoint industry experts and researchers as Professors of Practice, Visiting and Adjunct Faculty members to improve collaboration with the experts.

"We want to promote excellence and leadership in teaching and research and facilitate wider and deeper interactions of NIT Calicut faculty, students and researchers in all the specialization of its departments, schools and centres," said Prof. Prasad Krishna, Director, NITC. He added that collaboration with experts will enhance opportunities for students and faculty to collaborate with the industries and research institutions.

NITC engages eminent persons from the industry or R&D organizations as Professors of Practice full-time to enrich students' experience. The initiative aims to ensure a deep understanding and appreciation of the best practices applied in real-world settings in a particular field of study. NITC also appoints visiting faculty and adjunct faculty from the industry and R&D organizations at the levels of Professors, Associate Professor and Assistant Professor. He said that the appointment of experts will help us promote the integration of academic scholarship with the practical experience of professionals in a given field. The future of education lies in synergistic partnerships. NITC's dynamic initiative is poised to reshape the academic landscape, bridging the gap between theory and practice and preparing students for the demands of a rapidly evolving world. With industry experts joining hands with academia, the institute is setting an example of innovation in education that is both impactful and transformative.

NIT Calicut signed MoU with Ulster University Belfast, UK

NIT Calicut has signed an MoU for research collaborations and student/faculty exchanges with Ulster University, Belfast, UK, at 12:30 pm today in the Board Room, NITC. The MoU was signed by Prof. Prasad Krishna, Director, NIT Calicut and Prof. Paul Seawright, Ulster University (in absentia). The Director mentioned that the MoU will be a starting point for Joint academic programmes like Joint PhD guidance, credit transfer of UG and PG students and Joint funded projects between the two Universities. The MoU was signed in the presence of Dr. Jayanta Mondal, Research Director in the Belfast School of Architecture and the Built

Environment and Dr. Nikhil Kumar Shah, Lecturer in Energy and Building Services from Ulster University. This MoU has been realised as part of the Exchange Project by Royal Society UK with

Dr. Nikhil Kumar Shah and Dr. Jayanta Mondal as the lead researchers from Ulster University and Dr. Shijo Thomas (SMSE) as the lead researcher from the NITC.



NIT Calicut signed MoU with Bureau of Indian Standards (BIS)

National Institute of Technology Calicut (NITC) signed a Memorandum of Understanding (MoU) with the Bureau of Indian Standards (BIS) at an online event on 16th February 2023. The MoU envisions collaboration in the field of standardization and conformity assessment. Prof. Prasad Krishna,

Director, NITC and Shri. Pramod Kumar Tiwari IAS, Director General, BIS, signed the MoU. Dignitaries from both sides also attended. The MoU will be effective for 10 years from 16th February 2023. The MoU envisages the appointment of a Chair in the field of Standardization and Conformity

Assessment for which the Bureau will provide financial support to NITC. In order to create a corpus fund at NITC, the Bureau will provide a non-refundable endowment of Rs. 1,00,00,000/- (Rupees One Crore) in a single installment for creating BIS Standardization Chair Professorship at NITC.



According to the MoU, NITC will coordinate Research and Development efforts towards the development of standards, inputs to the drafts of new Indian Standards and revision of Indian Standards. Additionally, BIS and NITC will jointly organise seminars, conferences, workshops, symposia and lectures on topics of standardisation and conformity assessment.

Fostering various Local Government-level technology based initiatives; MoU between KILA & NITC

Marking the beginning of a series of initiatives focusing on building spatial planning capacity through democratic processes within Local Governments, the National Institute of Technology Calicut (NITC) signed a Memorandum of Understanding (MoU) with the Kerala Institute of Local Administration (KILA) on Friday, 26th May 2023. The collaboration is focused on developing a comprehensive strategy linking academics, research, and partnerships for community development initiatives. It is envisaged to achieve this by engaging students' academics and policymakers through collaborative projects that can institutionalise innovation in policy, practice and pedagogy in Kerala. This MoU is being signed at a time when the Government of Kerala has decided to give focus to planned urbanisation through a comprehensive urban policy, risk-informed Master Plans, spatial strategies at various scales, integration of digital technologies and design thinking to make planning and place governance more agile and collaborative. The MoU also stresses further activities like conducting a series of joint courses, organising Urban

dialogues by global experts, conducting an Annual Kerala Urban Research Conference etc. It also relies on engaging citizens in the mainstream planning processes through organising Citizen Planning Schools, democratising place-based design strategies and joint research and capacity development initiatives in Kerala.

Speaking on the occasion both Dr. Joy Elamon, Director General, KILA and Prof. Priya Chandran, NITC Director-in-charge expressed eagerness to showcase the shared strength of both the institutions to support Kerala's development as a sustainable and liveable society. Having secured the national second spot in the all India NIRF

ranking in Architecture and Planning, NITC has excellent intellectual and institutional strength to offer the required knowledge and skills to all these initiatives.

The MoU, signed by CDR (Dr) M S Shamasundara, Registrar, NIT Calicut and Dr Joy Elamon, Director General, KILA, signifies a historic moment in developing a robust academic connection to the capacity-building programmes in Kerala and other states. The MoU marks a steady growth for both institutions, which are partnering with national and international organisations strengthening their focus on multi-disciplinary initiatives and transferring academic research to practical applications.



NIT Calicut inks MoU with TATA Elxsi for research on electric vehicles

National Institute of Technology Calicut inked a Memorandum of Understanding (MoU) with TATA Elxsi on Wednesday at NIT Calicut. The MoU aims at ensuring collaborative research in the Electric Vehicle Domain.

As per the MoU, a new laboratory of the TATA Elxsi will be set up at NITC to help the students and faculty work on electric vehicle domains. The laboratory will be set up using Rs 1 crore of which Rs 75 lakh is sanctioned by TATA ELXSI and Rs. 25 lakh by the institute.

The MoU is expected to promote the industry connection of NIT Calicut. The initiative also aims at equipping students for bringing transformation in the electric vehicle sector.

Prof. Priya Chandran, Director in Charge of NIT Calicut and the Dean (Planning and Development) and Mr. Manoj Raghavan CEO and MD of TATA Elxsi signed the MoU at a function held at the Senate Hall.

The electric vehicle industry is gaining a grip in the market and 10 per cent of the vehicles registered in Kerala are from the electric vehicle domain, said Mr. Manoj Raghavan, during his address. "However, the industry is also experiencing a lot of challenges including the shortage of electricity, high price of electric vehicles and battery charge, he said exuding confidence that the collaboration between the industry and the institute will help to face these challenges effectively.

Institutes like NIT Calicut can work on mid-term projects in electric vehicles and bring in innovations, said Mr. Raghavan. TATA Elxsi is looking forward to innovative projects from NITC which will be a boost for the industry as well, he said.

TATA Elxsi is working in different sectors like health care, communication, software etc and we are looking forward to more collaborations with NITC after reviewing the success of this initiative, he said.

The institute is looking forward to a bigger range of collaboration with TATA to ensure a large-scale impact on the life of people, said Prof. Priya Chandran during her address.

Mr. Shaju S, Vice president and Head of the Transportation Business Unit of TATA Elxsi urged the UG, PG, doctoral and post-doctoral students to work for a cause with passion to bring out practical innovations.

Dr. Preetha P, Professor and Head of the Department of Electrical Engineering, NIT Calicut gave an introduction about the department. Cdr. (Dr) Shamasundara M.S. Registrar of NITC, Dr N Sandhyarani, Dean (Research and Consultancy), Mr. Shilen Sagunan, advisor of Centre for Electric Vehicle Engineering, Dr. Nikhil Sasidharan Assistant Professor of EED, Dr. Sreelakshmi M.P. Assistant Professor EED and Mr. Sharath M Nair, Kozhikode Centre Operations Manager of Tata Elxsi also spoke at the function.





Visitor's Conference 2023 at Rashtrapati Bhavan

Excerpts from the Director's Speech

Prof. Prasad Krishna, Director, NIT Calicut, attended the Visitors' Conference 2023 at Rashtrapati Bhavan on July 10. The conference for the leaders of top-notch educational institutions in India discussed the National Education Policy 2020 and other initiatives to uplift the education sector for the betterment student community.

Prof. Prasad Krishna made a presentation on the **Transformative Power of Diversity, Equality, Inclusivity and Wellness** at the conference.

A glimpse of his presentation is given below:

National Education Policy (NEP) 2020 aims to:

- Ensure inclusive & equitable quality education for all by 2030
- WIDE (Wellness, Inclusivity, Diversity & Equality) initiatives for sustainable growth (WIDE for Open)
- Recognizes education as a powerful tool for economic & social mobility, inclusion & equality and focuses on providing a quality education system regardless of student's location
- Focus is on historically marginalized & underrepresented groups

Strategies for Embracing Diversity in Education

- Introduce inclusive curriculum materials that represent various cultures, ethnicities, genders, languages & socioeconomic backgrounds
- Implement teaching strategies that promote dialogue, discussion & collaboration among students from diverse backgrounds, encouraging mutual understanding & learning
- Empowering Wellness Ambassadors: Strategies for Fostering Well-being in Students
- Incorporate regular physical activity breaks or exercise routines into the daily schedule to promote physical well-being & combat sedentary behaviour.
- Integrate heartfulness & relaxation exercises into classroom routines to enhance mental & emotional well-being, reduce stress, & improve focus.

Strategies for Building an Empowering Environment at NITC

- Well-structured Induction Program for freshers, highlighting the importance of holistic development for academic success
- Internal Complaints Committee for Grievance Redressal
- Equal Opportunity Cell - To help individuals or groups of students belonging to the disadvantaged groups of society with problems related to discrimination
- Centre for Cultural and Art Relations to promote cultural and art-related activities on campus
- Centre for Yoga and Holistic Wellness to promote stress management and holistic wellness initiatives in the NITC community
- Student Club to support the LGBTQ community and bring awareness and inclusivity
- Centre for Women Welfare and Social Empowerment: An inclusive space empowering women with workshops,

training, and mentorship to develop leadership, communication, and entrepreneurial skills.

- Centre for Indian Knowledge Systems - Enables the NITC community to engage in education and research on Indian Knowledge Systems for sustainable growth.
- Disciplinary committee to promote ethical behavior inclusivity and integrity among students.
- Anti-Narcotic Cell to facilitate organized programs addressing the critical issue of substance abuse
- Anti-ragging Committee for the Prevention, Policy Development, Complaint Handling, Counseling and Support, Regular monitoring of ragging within the campus
- Equal Opportunity Campus to foster unity in diversity among faculty: staff and students
- Student Guidance Cell to address any wellness-related issues by certified counsellors and psychologists
- 24/7 online counselling facility (YourDOST)
- Heritage tourism & Yuva Sangam for students to bring awareness to the rich cultural history and tradition of the region and country
- Diversity in the curriculum by offering elective courses in liberal and performing arts
- Activity Credits in the curriculum (NEP 2020) to promote sportsmanship and artistic talents among students
- Coaching & Mentoring to support students from economically weaker section
- Inclusion of SEDG in student clubs and student-elected bodies
- Nodal Center for National Innovation Foundation to foster innovations & entrepreneurship among students
- TBI: well-established Business Incubator Centre to strengthen the startup ecosystem
- Skill Development Center to empower students in community/tribal & socially backward communities through skill training (skill hub under PMKVY 4.0)
- NCC & NSS to promote unity, team spirit, discipline & national integrity among students
- Swimming, Sports & Gym facility to promote sports, exercise sportsmanship
- Sneharagam: A students initiative to support socially disadvantaged group

Conclusion

Wellness-Inclusivity-Diversity-Equality are integral components of education for sustainable development, as they foster understanding, empathy and global citizenship. NITC is actively promoting diversity by fostering an inclusive campus environment that celebrates the cultural, linguistic and regional diversity of its students and faculty. The institute is committed to ensuring equal opportunities and rights for all individuals, irrespective of their background, through various initiatives and policies.



Strengthening Bonds: Consulate General of Japan's Visit to NIT Calicut

NITC hosted a momentous occasion on April 24, 2023, as His Excellency Taga Masayuki, the Consulate General of Japan, visited the campus. Organized by the Centre for International Relations and Foreign Languages (CIRFL), the event celebrated the strong cultural and academic ties between India and Japan.

In his opening remarks, Dr Shyamsundara, the Registrar of NITC, emphasized the importance of cultural exchange and its role in building stronger ties between nations. Professor Ravi Varma, Chairperson of CIRFL, followed with an insightful overview of the centre's mission and its significant contributions. Notably, the demand for Japanese language education in India has steadily risen, indicating a deepening interest in Japanese culture and language.

In the presidential address, Professor Sathidevi PS, Deputy Director of NIT Calicut, commended the achievements of NITC and emphasized the importance of language education and cultural exchange.

However, the event's focal point was the presentation of certificates to students who are set to complete the NITC-JF Marugato program. The Chief Guest, H.E Taga Masayuki, Consulate General of Japan, handed out the certificates. This ceremony symbolized a significant milestone, showcasing the growing partnership and cooperation between NITC and Japan.

The keynote address delivered by H.E Taga Masayuki accentuated the Indo-Japan relationship as a unique strategic and global partnership. The Consulate General acknowledged and commended the relentless efforts of NITC in promoting Japanese

language education. He expressed optimism for future collaborations, aiming to deepen the bond between the two nations. interactive session with H.E Taga Masayuki allowed attendees to engage in a candid exchange of thoughts and ideas. Participants raised pertinent questions and shared their perspectives on the Indo-Japan relationship. The occasion was a resounding success, underscoring the vital role of language education and cross-cultural interaction in fostering mutual understanding and synergy. The event also marked a pivotal juncture in the burgeoning partnership between NITC and Japan, demonstrating the tangible outcomes of international collaboration.



AI for Cancer Research: NITC and MVRCCRI to work with Maastricht University, Netherlands

National Institute of Technology Calicut and MVR Cancer Centre and Research Institute (MVCCRI), Kozhikode, decided to strengthen joint research with the Maastricht University and Maastricht Clinic, Netherlands, pioneering institutes in the field of applying Artificial Intelligence, Machine Learning and Data Science for cancer research. Celebrated Clinical Data Scientist and Professor of the Clinical Data Science Department of Maastricht University, Dr. Andre Dekker addressed the researchers from NITC and doctors from MVRCCRI.



He emphasized the tremendous scope of applying novel Machine Learning methods for the early detection and treatment of cancer. Dr. Leonard Wee, Faculty member and Clinical Data Scientist at the Maastricht University also shared

his experience. A joint research work involving the three institutes, using the 'Federated Learning' method, for improving the treatment for Lung cancer, is already underway.

French Embassy Delegates discuss with NIT Calicut on Higher Education and Research Opportunities

The delegates from the Embassy of France in India insisted that the students from India should maintain good academic grades and prepare good applications to get admission in French Universities. Over 1700 programmes, aimed at international students are taught completely in English to help foreign students and hence studying in France will not be a tough task for Indian students, said the delegates during their interaction with the students of NITC. They also discussed student mobility programmes and research and innovation services.

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The programme was organised by International Students and Scholars Office (ISSO)-Centre for International Relations & Foreign Languages (CIRFL) at the National Institute of Technology Calicut. Interaction with the delegates was held at the Senate Hall. Dr. M. K. Ravi Varma, Chairperson, Centre for International Relations & Foreign Languages, explained the initiatives by NITC for collaboration with France.

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The visit of the French embassy delegation signifies an essential stride towards fostering international collaborations and creating pathways for students to access world-class education and research opportunities in France.

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18th Convocation

India will be a Global Knowledge Hub of the 21st Century - Envisioning of NEP 2020 :
Shri. Dharmendra Pradhan
Hon Union Minister for Education

India's Techade will be glorified through 'Jai Anusandhan', a strategic call for Hi-Tech Research and Innovation with Entrepreneurial approach, said Shri. Dharmendra Pradhan, Hon. Minister for Education and Skill Development & Entrepreneurship, Government of India. He was addressing the graduands as the chief guest who delivered the Convocation Address online, at the 18th Convocation of NIT Calicut conducted on Saturday, September 03, 2022 at the Open-Air Theater. He highlighted the remarkable contribution of women in research, by comparing the doctoral degree graduands of NITC in which more than two-thirds are women. "The aim of making India as a global knowledge hub of the 21st century will be boosted up by the strategic call 'Jai Anusandhan' of Prime Minister Shri. Narendra Modi by moving forward with resolutions towards a developed India as outlined in National Education Policy 2020", he said. He added that the innovative research outputs should be effectively utilized to address the needs of the local community such as marine fishing, production of coir from coconut, etc.

Shri. Dharmendra Pradhan further emphasized, "As proposed in NEP 2020, stand-alone institutes must look to expand and become multi-disciplinary as some of the best research emerges from a cross-disciplinary environment". The Honorable Union Minister concluded his convocation address by calling upon the young graduates to use their knowledge, culture, science and technology for serving the global community.

Sri. Gajjala Yoganand, Chairperson, Board of Governors of NITC, addressing the fresh graduands, reminded them that one should pursue their passion by fixing feasible goals. He insisted on the need of a self-sustaining, self-resilient and self-reliant country which creates enormous opportunities towards the development of India as the 3rd most largest economy of the world by 2030.

Dr. Virander Singh Chauhan, Padma Shri Awardee, Former Chairman UGC, Ex-Director, International Center for Genetic Engineering & Biotechnology, New Delhi addressed the gathering as the Guest of honor. "A major role of higher education is in creation of new knowledge, finding innovative solutions and preparing the youth to address the problems prevailing in the society", the Padma Shri Awardee emphasized. He also mentioned that the country has emerged as the 2nd largest education system in the world.

The former chairman UGC recalled a few remarkable contributions of the country towards health care. Dr. Chauhan insisted that in spite of marching fiercely on one side (health care), there are many other unsolved muddles which are more alarming than pandemic. He further added that the most challenging problems prevailing which are more serious are climate change, drought and floods, forest fires, etc., which need immediate attention of the youngsters to explore and find sustainable solutions. The Ex-Director of ICGB concluded his guest of honor address by urging the young minds to aspire more without compromising the honesty, integrity and utmost responsibility in bringing an order in the system towards the protection of common lives.



18th Convocation



Prof. Prasad Krishna, Director, presenting the annual report, highlighted the achievements of the Institute in the academic year 2021-22. NITC has retained its position as one of the top technological institutes of national importance in the country, through its glorious existence spanning more than 60 years. NITC secured the 9th rank at the national level in the ARIIA-2021 ranking on the basis of excellence in Innovation and Entrepreneurship Development, making it the highest ranked NIT in the list. In the national level NIRF ranking of this year, the Architecture programme of NITC retained its rank as the second best in the country, while in the Engineering stream, NITC could improve its overall score compared to last year and was ranked 31st at the All-India level. For the first time, NITC participated in the NIRF ranking for management stream and secured 84th position. During the past year, NITC faculty members and students have filed 14 patents. Five previously filed patents were granted as well based on the research works carried out within the Institute. 11 new multidisciplinary centers were established recently on campus to assimilate the intellectual, aesthetic, social, physical, emotional, and moral values in an integrated manner in consensus with the spirit of NEP 2020.

During this year, the placement figures at NITC crossed the 1000-mark for the first time. In the 2021-22 placement drive, the outgoing students of NIT Calicut received a record number of 1140 placements, as compared to 714 job offers last year. Close to 200 companies visited the campus. The highest offer of this year was Rs. 67.6 lakhs per annum, offered by Traceable AI to four students of B.Tech. (Computer Science and Engineering), while the average annual salary was Rs. 12 lakhs per annum. The institute has received nearly 49 external funded projects with a sanctioned amount of about 15 Crores and received nearly 1.2 Crores towards the consultancy and test charges from different agencies. The institute is also involved in collaborations with several foreign universities for various student and faculty exchange programs, projects, master courses, etc.

The Honorable Union Minister urged the necessity of a multi-disciplinary research environment to lead the world in serving the community.

In the Technology Business Incubator of the Institute, 22 companies are getting incubated with the addition of 11 startups during the last year. Toppers of the 10 B.Tech, 25 M.Tech, 3 The 18th convocation of NIT Calicut conducted at Institute's Open Air Theater saw a total of 1687 graduates receiving their degrees. This included 948 B.Tech., 42 B.Arch., 433 M.Tech., 12 M. Plan., 53 MCA, 47 MBA, 61 M.Sc., and 91 Ph.D degrees. Mr. Sandeep S Zachariah of the Electronics and Communication Engineering branch secured the highest CGPA (9.75/10) among all the outgoing B.Tech students of the Institute. He was awarded the 'Bapana Gold Medal' and 'Prof. Allesu Kanjirathinal memorial award'. Among the PG students, Anjaly S Menon from the M.Tech - Computer Science and Engineering bagged the Bapana Gold Medal with CGPA of 9.87 out of 10. M.Sc., MCA and MBA programmes of the Institute were also awarded Gold Medals for their outstanding performance in the respective specializations. Deputy Director Prof. Sathidevi P S, Registrar Cdr (Dr.) M S Shamasundara, Dean (Academic) Prof. Sameer S M and the Heads of various departments administered the convocation ceremony.



18th Convocation





Foundation Day 2022

In commemorating its remarkable journey, the National Institute of Technology Calicut (NITC) marked its Foundation Day on September 01, 2022. The institution, which started its odyssey as the Regional Engineering College (REC) Calicut on September 1, 1961, celebrated its rich history, growth, and achievements with heartwarming events and reflections.

The ceremony, held on the campus, was graced by luminaries and dignitaries who had been instrumental in shaping the institution's destiny. A sense of nostalgia and reverence filled the air as Prof. S. Unnikrishna Pillai, the former Principal of REC Calicut, and former Directors of NITC - Prof. S. S. Gokhale, Prof. G. R. C. Reddy, and Prof. Sivaji Chakravorti were honoured and presented with mementoes. Their reminiscences painted a vivid picture of the institute's evolution, encompassing administrative decisions, hostel life, student experiences, faculty camaraderie, and the growth of its infrastructure.

Delivering the prestigious Foundation Day lecture, the Chief Guest, Prof. B. Jagadeeshwar Rao, Vice Chancellor of the University of Hyderabad, passionately emphasized the importance of nurturing fearless, creative, and passionate young minds. He also drew attention to the vision outlined in the National Education Policy 2020, highlighting the strategy required to address gaps in knowledge, gender inequalities, and the enhancement of teaching methodologies through targeted training programs.

Presiding over the event was Mr. Gajjala Yoganand, Chairman of the Board of Governors at NITC. He underscored the institute's relentless efforts in aligning with the National Education Policy, envisioning its role in achieving India's Centenary Vision 2047.

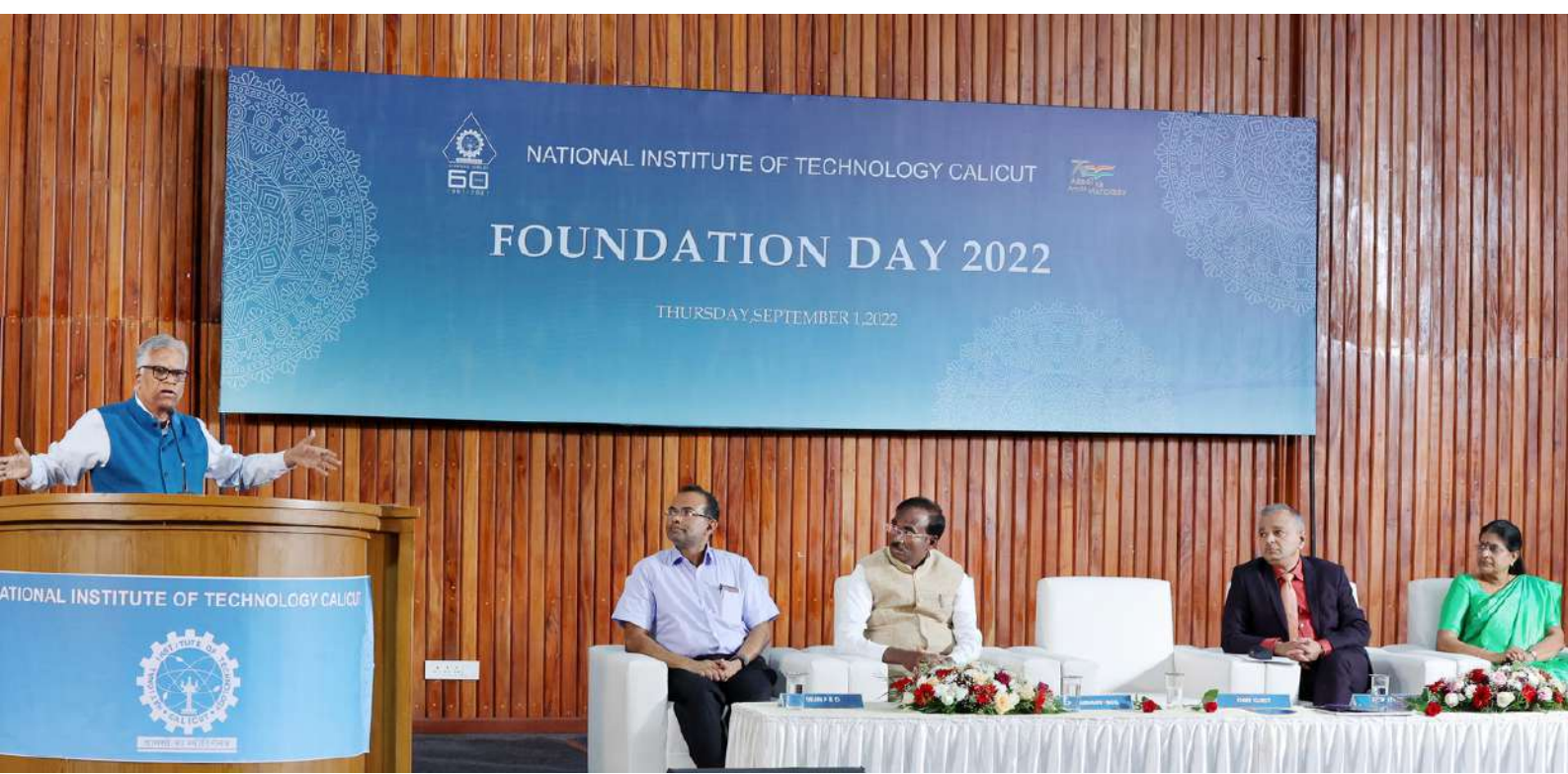
Prof. Prasad Krishna, the current Director of NITC, presented an insightful report that chronicled the institute's trajectory from its humble beginnings to its present eminence. He elaborated on the transformation from a Regional Engineering College to an Institute of National Importance. The institute's journey was marked by implementing the credit-based academic system, infrastructure augmentation, and numerous undergraduate and postgraduate programs spanning science, engineering, and management.

Noteworthy milestones were discussed, including the swift integration of the online learning management system (Eduserver) during the COVID-19 pandemic, the globally acclaimed World NITCAA Meet alumni reunion, the Institute's Diamond Jubilee celebrations, the establishment of interdisciplinary centres, and achieving a remarkable placement record amidst challenging times. The institute's collaborative ventures with industries and foreign universities were highlighted, along with groundbreaking achievements such as patented plastic-to-fuel technology and innovative entrepreneurship programs.

The celebration also spotlighted the dedicated faculty and staff who have dedicated 25 years of service to NITC. Their enduring commitment was recognized with the prestigious Institute Silver Award and commemorative mementoes by Director Prof. Prasad Krishna. In a touching gesture, Prof. Paul Joseph, a former Department of Electrical Engineering professor, was bestowed with the 'Haritha Mithram Award'. This accolade acknowledged his unwavering efforts to enhance and preserve the lush greenery gracing the NITC campus.

This acknowledgement of student achievement reflects NITC's commitment to nurturing well-rounded individuals. Highlighting the spirit of information exchange and communication, Prof. Prasad Krishna presented the inaugural copy of the institute's newsletter, aptly named 'Communique,' to Prof. S. Unnikrishna Pillai, the former Principal of REC Calicut. This publication, a product of the newly established Centre for Public Relations, Information, and Media Exchange (C-PRIME), captures the kaleidoscope of academic, co-curricular, and extra-curricular activities at NIT Calicut.

The jubilant celebrations came to a melodious close with a cultural program featuring the enchanting "Violin Duo" of Sri Idappally Ajith Kumar and Ms. Krishnaa Ajith, accompanied by captivating performances from NITC students. Organized by the Centre for Cultural and Art Relations (CCAR), the evening resonated with the institute's commitment to fostering creativity and cultural appreciation.



Foundation Day 2022



RECOGNISING THE CONTRIBUTION OF FACULTY & STAFF MEMBERS AT NIT CALICUT

On the 62nd Foundation Day function, the Institute recognised the contribution of the staff and faculties who had completed more than 25 years of service at the institute.

Faculty Members

- Dr. Kasthurba A. K., Professor, Architecture & Planning
- Dr. P. P Anil Kumar, Professor, Architecture & Planning
- Dr. M.V.L.R Anjaneyulu, Professor-HAG, Civil Engineering
- Dr. S. Chandrakaran, Professor-HAG, Civil Engineering
- Dr. P. V. Indira, Professor-HAG, Civil Engineering
- Dr. T. M. Madhavan Pillai, Professor-HAG, Civil Engineering
- Dr. Mohammed Ameen, Professor, Civil Engineering
- Dr. N Sankar, Professor-HAG, Civil Engineering
- Dr. A. P. Shashikala, Professor-HAG, Civil Engineering
- Dr. J. Sudhakumar, Professor, Civil Engineering
- Dr. Santosh G. Thampi, Professor-HAG, Civil Engineering
- Dr. Priya Chandran, Professor, Computer Science & Engineering
- Dr. Vineeth Paleri, Professor, Computer Science & Engineering
- Dr. S. D. Madhu Kumar, Professor, Computer Science & Engineering
- Dr. Jeevamma Jacob, Professor-HAG, Electrical Engineering.
- Dr. Susy Thomas, Professor, Electrical Engineering.
- Dr. Ashok S., Professor-HAG, Electrical Engineering.
- Dr. Saly George, Professor, Electrical Engineering.
- Dr. P. S. Sathidevi, Professor-HAG, Electronics & Comm. Engg.
- Dr. M. J. Jacob, Professor, Mathematics
- Dr. Sushama C. M., Professor, Mathematics
- Dr. Jose Mathew, Professor-HAG, Mechanical Engineering
- Dr. M. L. Joy, Professor, Mechanical Engineering

- Dr. C. Muraleedharan, Professor-HAG, Mechanical Engineering
- Dr. P K Rajendrakumar, Professor-HAG, Mechanical Engineering
- Dr. R. Sreedharan, Professor-HAG, Mechanical Engineering
- Dr. M. A. Joseph, Professor-HAG, Mechanical Engineering
- Dr. V Madhusudanan Pillai, Professor, Mechanical Engineering
- Dr. M. D. Narayanan, Associate Professor, Mechanical Engineering
- Dr. C. B. Sobhan, Professor-HAG, SMSE
- Dr. T. K. Suresh Babu, Professor, SoMS
- Sri. Suresh Kumar K. S., Associate Professor, Electrical Engineering.
- Sri. Ananthakrishnan P., Associate Professor, Electrical Engineering.
- Dr. G. Abhilash, Associate Professor, Electronics & Communications Engg.
- Smt. Lyla B. Das, Associate Professor, Electronics & Communications Engineering

Staff Members

- Sri. A Rajagopalan, CITRA
- Sri. Reejish Kumar M., Establishment
- Sri. Shafi S. M., Accounts
- Sri. Ajayachandran V. R., CSED
- Sri. Anandan P., MED
- Sri. Anilkumar P., MED
- Sri. Petson Andrew, Admissions
- Sri. Santhosh Kumar S., CSED
- Smt. Mini K., Accounts
- Sri. Abdul Sidheek P. K., Engg. Unit
- Smt. Prama P., Accounts
- Sri. Jayaraman K., Library
- Sri. Muraleedharan P., Establishment
- Sri. George T. M., MED
- Sri Rajendran M. K., MED
- Sri. Mohankumar A. K., Engg. Unit
- Sri. Unnikrishnan K., Engg. Unit
- Sri. G. Sasidharan Pillai, CSED
- Smt. Sangeeta P. K., Establishment
- Sri. Pradeepkumar K. K., MED
- Sri. V. Krishnankutty, ECED
- Sri. Velayudhankutty N. P., MED
- Sri. Jayarajan T., Library
- Sri. Sasi K. K., MED
- Sri. Hariharan C. P., MED
- Sri. Unnikrishnan R., MED
- Sri. Shaju K. P., Library
- Sri. C. Anwar Sadath, Hostel Office
- Sri. Shibu K., Engg. Unit
- Sri. Praveen Kumar P., Academic
- Smt. Thankamani K., Engg. Unit
- Sri. N. K. Mohammed Sali, EMU
- Sri Prasad M. V., Engg. Unit
- Sri. Somanath K. A., EED
- Smt. Juliet Das P. D., Establishment
- Sri. Sasesh, EED
- Sri. Ummerkutty N. K., S&P
- Sri. Praveen H. Babu, ECED





NITCAA 2022 COCHIN CHAPTER AWARDS



PROF. SATHIDEVI P. S. RECEIVING THE PROF. K. M. BHAUDDIN AWARD FOR DISTINGUISHED ENGINEERING TEACHER

NITCAA 2022 Cochin Chapter Awards were presented at an event organized at the RECCAA Club in Kochi. Prof K M Bahauddin Award for Distinguished Engineering Teacher of Kerala 2022 was presented to Dr. Sathidevi P. S (Professor ECED & Deputy Director, NIT Kozhikode) by Dr. Rajashree MS (Vice Chancellor, APJ Abdul Kalam Technological University, NITC Alumna 1989 CSED). The award comprises a cheque for Rs. 1 lakh, citation and memento.

Dr. Saranya. P, (PhD in Civil Engineering at NITC), received the NITCAA Award for Outstanding Doctoral Thesis in Engineering and Technology in Kerala 2022. A memento, citation and cheque for Rs 10000 were handed over by Prasad Krishna (Director, NIT Calicut).

Ms. Gayatri Sandeep (B. Tech Production Engineering, 2018-2022) won the Jussay Gold Medal for Best Outgoing Student at NIT Kozhikode 2022. Gold Medal and Certificate were handed over by Dr. Rajashree MS. Mr. Darryl Andrew and Mr. Jacob Kurian, office bearers of NITCAA Cochin Chapter, attended the ceremony.



MS. GAYATRI SANDEEP (B. TECH PRODUCTION ENGINEERING, 2018-2022) WON THE JUSSAY GOLD MEDAL FOR BEST OUTGOING STUDENT AT NIT KOZHIKODE



R. SARANYA. P, (PHD IN CIVIL ENGINEERING AT NITC), RECEIVING THE NITCAA AWARD FOR OUTSTANDING DOCTORAL THESIS IN ENGINEERING

Swacchta Saarthi Fellowship Awards 2021-2022

Dekketti G C Vikram Reddy, of B.Tech (2018-2022 batch) from the Department of Chemical Engineering, was selected for the Swacchta Saarthi Fellowship CoHort 2021, which was jointly organised by The Principal Scientific Adviser to the Government of India and INVEST India. It was a one-year-long fellowship under the Waste to Wealth Category, under which he submitted his proposal on Experimental and Numerical Investigation on Swirling Fluidised Bed Reactor - Process Intensified Reactor for BioOil Production from Rice Straw under the guidance of Dr Panneerselvam Ranganathan. After completing the one-year program and subsequent presentations, he was awarded the Swacchta Saarthi Fellowship Award 2021-2022 at Swacchta Saarthi Samaroh -2022 event at IIT Delhi, held on September 30th and October 1st 2022. The event was graced by the Principal Scientific Adviser to the Government of India (Prof. Ajay Kumar Sood) and Dr Parvinder Maini (Scientific Secretary PSA to the GoI), and many other dignitaries.





WORLD NITCAA MEET 2022

The World NITC Alumni Association (NITCAA) Meet 2022 was organised in Calicut Trade Centre and NIT Calicut campus on 26 and 27 August respectively. The culmination of the golden jubilee celebrations of NIT Calicut and the interaction between students and the alumni were the major attractions of World NITCAA Meet's final day.

Dr. Subba Rao Pavuluri, CMD of Ananth Technologies Ltd. was the chief guest in the function. The function also had dignitaries like Prof. Dr. Prasad Krishna (Director, NITC), Mr. Gajjala Yoganand (Chairman, Board of Governors, NIT Calicut), Prof. Dr. P.S. Sathidevi (Dy. Director, NITC), Mr. K.S. Sudhakaran (President, NITC Alumni Association), Mr. Joseph Philips (Secretary, NITC Alumni Association), Prof. Dr. P.P. Anil Kumar (Dean Alumni & Corporate Relations) present. In his address, Dr. Subba Rao Pavuluri emphasized the possibility of funding for ventures jointly initiated by students and faculty members. Prof. Dr. Prasad Krishna expressed gratitude to the alumni and NITCAA for sponsoring various amenities on campus.



Alumni & Corporate Relations Activities



Internet of Things Lab (Lab 8085)



Inauguration of the Green Amphitheatre

The ACR office organized the NITC Diamond Jubilee Culmination Function on 27th August 2022 at NIT Calicut Campus as a part of the World NITCAA Meet (WNM) 2022. 450 Alumni from across the world participated in the event. Dr. Subba Rao Pavuluri, an eminent CREC alumnus (B.Sc Civil Engineering, 1974) and CMD of Ananth Technologies Ltd. was the chief guest of the function, during which many alumni projects were inaugurated, such as: many alumni projects were inaugurated, such as: i) the Institute Management System (IMS) sponsored by the 1994, '95 and '96 batches, ii) the Green Amphitheatre, jointly sponsored by the 1993 batch, Mr. Suresh Chand Jain of 1973 batch and NITCAA. The amphitheatre with a seating capacity of 300 was constructed with a budget of Rs. 25 lakh, iii) an Internet of Things (IoT) lab, named 'Lab8085', which was sponsored by the 1985 batch for research work in the areas of IoT, AI, ML etc., and iv) a coffee-table book on CREC/NITC and its alumni.



Rendered Image of 97th Avenue



The golden jubilee campus reunions of the 1971 and 1972 batches took place on 8th and 11th October 2022 respectively. These batches contributed Rs. 13 lakhs to the proposed Gymkhana project – a multi-facility student amenities centre, whose projected cost is Rs. 5 crore. Three batches - 1995, 1996 and 1997 – celebrated their silver jubilee campus reunions on 17th, 23rd and 28th December 2022, respectively. Many of the former faculty and staff members were invited and honored at these events. The 1997 batch sponsored two key projects – i) a new NITC website developed with a budget of Rs. 5 lakh and inaugurated in February 2023, and ii) a student plaza named "97th Avenue" located between the F and G hostels in campus. It has been designed by the 1997 batch along with the Department of Architecture and Planning, NITC, for an estimated cost of Rs. 32 lakhs.



Foundation Stone Laying of 97th Avenue



Procession during Silver Jubilee Reunion of 1995 Batch



The newly inaugurated Green Amphitheatre



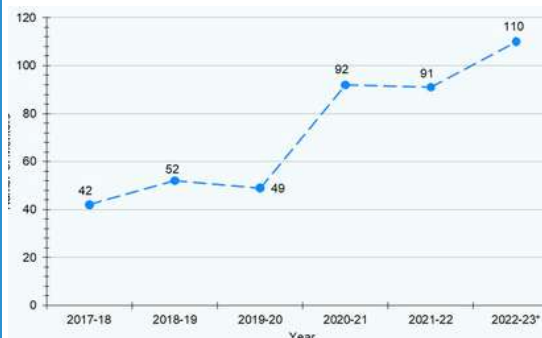
Golden Jubilee Reunion of 1971 Batch



Mr. Prakash Shetty & Prof. Prasad Krishna Inaugurating Ragam '23



UPI Details of CREC NITC Endowment Fund



Growth History of NITCAMP Mentorship

The Dean (ACR) office's requests to alumni for in-campus and online interactions with NBA experts as part of the accreditation of various undergraduate and postgraduate programs received overwhelming responses, and many alumni across several batches visited the campus to support the accreditation process. Several alumni have also come forward to co-teach various courses along with regular faculty. The ACR office coordinated the annual Alumni Mentoring Program NITCAMP - an initiative of the USA chapter of NITCAA. Nearly 230 students benefited from the mentorship by 110+ alumni worldwide in the 2022 edition of NITCAMP.

In February 2023, the ACR office started a CREC NITC Endowment fund account with Canara Bank for receiving Alumni donations and CSR funds from Corporate Companies. Efforts are on to obtain 80G exemption also. In March 2023, 10 park benches donated by the First Batch (1966) alumni of CREC were placed around the Green Amphitheatre and the Creative Zone.

The ACR office established the Distinguished Alumni Awards (DAA) scheme in seven categories - Technology Innovation Excellence, Academic Excellence, Managerial Excellence, Entrepreneurial Excellence, Excellence in Public Services

and other walks of Life, Excellence in Institutional Development and Alma mater Services and Emerging Alumni Leader Award to celebrate the professional achievements and contributions of its alumni and to motivate students.

After a rigorous screening of 29 eligible applications by eminent experts at multiple levels, 8 most deserving candidates were identified. The awards will be presented on the Institute Foundation Day (1st September 2023).

The two flagship festivals of NIT Calicut, Tathva 2022 and Ragam 2023, received generous patronage from our esteemed alumni. Tathva 2022 received technical and financial support of Alumni and the chief guest was 1989 batch alumnus Mr. James Thomas, who is Vice President & Head, SAP Success Factors, SAP India Sub Continent. The title sponsor of Ragam 2023 was an alumni-owned company RS group and the chief guest was 1985 batch alumnus Mr. Prakash Shetty, who is serving as NITCAA president and Technical Director of RS Group. The technical clubs at NIT Calicut such as Team Unwired and Aero Unwired also received liberal donations from Alumni and NITCAA for their development activities related to automotive and aerospace prototypes and to participate in national level competitions.



Rendered Images of the DAA Trophy



Park Benches Donated by First Batch (1966)



DISTINGUISHED ALUMNI AWARDS 2023



MR. A. K. BALASUBRAHMANIAN
DIRECTOR (TECHNICAL),
DISTINGUISHED SCIENTIST
(RTD.),
NUCLEAR POWER
CORPORATION OF INDIA LTD.

AWARD CATEGORY **TECHNOLOGY INNOVATION EXCELLENCE**

Shri. A. K. Balasubrahmanian was Director (Technical) & Distinguished Scientist, in Nuclear Power Corporation of India Ltd, Department of Atomic Energy. During his illustrious career of about 37 years, he contributed immensely towards the indigenization of Pressurised Heavy Water Reactor (PHWR) Technology and its further development. PHWR Technology in India has grown to a state of maturity over the years, with an excellent record of safety and availability.

During the initial phase of his career, he was a designer of Reactor Components and Process systems. He is credited with design & development of FOAK Reactivity Control systems, Shut Down Systems and Flux monitoring assemblies, with innovative designs; safety features for the first indigenously developed 540 MWe PHWR at Tarapur, Maharashtra. Later, as Executive Director (Engineering) and subsequently as Director (Technical), he provided leadership and played a pivotal role in the design, technology development, analysis and plant engineering of India's first 700 MWe PHWR at Kakrapar, Gujarat. The 700 MWe PHWR, a state-of-the-art design with advanced safety features developed indigenously, is operating successfully. He was instrumental in developing a 3-D model of the 700 MWe plant in an integrated intelligent environment and bringing it to a state of maturity as an efficient & versatile tool for detailed engineering. This paves the way for design standardization and implementation of 700 MWe plants in a Fleet mode. He provided strong technical support and oversight to the operating nuclear plants to ensure safe and reliable operation.

He was a member of the NPCIL Board of Directors and also a member of the Board of Nuclear Fuel Complex & Heavy Water Board. He is a Fellow of the Indian National Academy of Engineering (FNAE).



MR. VENU NAIR
MANAGING DIRECTOR
& CEO,
SHOPPERS STOP

AWARD CATEGORY **MANAGERIAL EXCELLENCE**

Mr. Venu Nair is the Managing Director and Chief Executive Officer of Shoppers Stop. He is an International Retail Leader with a rich and varied experience in the Retail & Apparel Industry across South Asia & Europe. Venu joined Shoppers Stop in the second half of 2020 and has led the transformation of the department store from a brick & mortar retailer to an omnichannel retailer. During his tenure, Shoppers Stop registered its highest-ever sales and profits, with the market capitalisation growing 5 times in less than 3 years. The company also launched two new formats – Ssbeauty for the beauty enthusiast and Intune, the value fashion format, which has gotten off to a rocking start.

Prior to joining Shoppers Stop, Venu was the CEO (Westside) at Trent Limited, where he was responsible for the growth of the brand across the country for over 3 years. For a large part of his tenure at Trent, he was also responsible for the operations of Zudio and Landmark. From 2012 to 2017, he was Managing Director - Marks & Spencer Reliance Pvt. Ltd, where he spearheaded its growth. During his tenure, the turnover of the business tripled, and the number of stores under operations more than doubled, with a significant growth in local sourcing.

Venu had a long stint of over 8 years working in London with various retailers. While working for M&S in London, he took the opportunity to convince the M&S plc board to venture into India, and thus brought the M&S brand into India. He moved back to India as the Director of Marks & Spencer, India, to set up Buying Offices for the global M&S business in South Asia, headquartered in India, with country offices set up in Sri Lanka and Bangladesh. In this role, he was responsible for sourcing over \$ 1 billion of merchandise for Marks & Spencer plc. Venu is a Bachelor of Technology (Hon) from NIT, Calicut and an MBA in Marketing from S.P. Jain Institute of Management and Research, Mumbai.



DISTINGUISHED ALUMNI AWARDS 2023



MR. JAYADEVAN P.
EXECUTIVE DIRECTOR (LPG),
INDIAN OIL CORPORATION
LTD. (RTD.)

AWARD CATEGORY

EXCELLENCE IN PUBLIC SERVICES AND OTHER WALKS OF LIFE

Mr Jayadevan has over three and half decades of experience in Oil and Gas Sector. Besides heading engineering projects and operating plants, he was instrumental in conceptualising and implementing transformational IT projects in the sector. He joined Indian Oil Corporation as an operations officer, rose to Executive Director, and was recently superannuated on 31st July 2023. He holds a Masters degree in Petroleum Management from the University of Ljubljana, Slovenia.

While Mr Jayadevan has made significant changes through many innovative projects, it was his relentless efforts in adapting digital technology which created a difference for every LPG consumer in the country. After evolving a digital network for the huge LPG supply chain across the length and breadth of our country, he launched many customer-oriented initiatives on an Industry basis. His critical work on Aadhaar-based Direct Benefit Transfer in targeting subsidy to eligible households has laid the foundation for arresting leakages in LPG subsidies of thousands of crores for the Government of India. For this pioneering effort, he was awarded Aadhaar Excellence Award by the Honourable Prime Minister of India . This also figured in the Guinness Book of World records. Further, it paved the way for the Government of India to provide Clean Energy to nearly 100% of households in India through Ujjwala Yojna, a scheme commenced in 2016.

Besides working in different parts of the country, he was head of the Chairman's secretariat, Head of Tamilnadu State and Country Head of LPG. He also represented the Boards of Indian Oil Total Private Limited, Indian Oil Petronas Private Limited and Chaired the Board of Kochi Salem Pipelines. He also represented India in the World LPG Association and participated and made presentations in many national and international forums.



MR. MUSTHAFA P. C.
CEO & CO-FOUNDER,
ID FRESH FOOD INDIA PVT.
LTD.

AWARD CATEGORY

ENTREPRENEURIAL EXCELLENCE

Musthafa PC, a visionary entrepreneur, has redefined the fresh-food business, with his commitment to making preservative-free food available to his consumers. Born with an innate passion for transforming the way people eat, Musthafa's journey from modest beginnings to co-founding iD Fresh Food is a testament to his unwavering determination and innovative spirit.

Hailing from a small village in Kerala, India, his humble beginnings strengthened his social consciousness and resolve, to help build a world, where everyone has equal opportunities. His relentless pursuit of education led him to secure a degree in Computer Science Engineering from NITC and later an MBA from IIM, Bangalore.

In 2005, Musthafa co-founded iD Fresh Food in Bangalore with a vision to offer traditional, home-cooked Indian meals to a fast-paced world. His dedication to using natural ingredients and eschewing preservatives struck a chord with consumers seeking healthier alternatives. The team's clarity on their brand philosophy has helped its evolution from a modest family-run business to a professionally-run organisation that currently operates in 45+ cities across India, Middle East, the UK and USA. Musthafa's leadership style, characterized by innovation and inclusivity, has not only turned iD Fresh Food into a household name but also empowered local communities by creating employment opportunities. His commitment to sustainability is evident in the company's responsible sourcing and eco-friendly packaging practices.

Recognized for his exceptional contribution, Musthafa PC has been honoured with numerous awards, including the prestigious IIMB Distinguished Alumni Award. He has been invited to share his success story at various esteemed platforms, including the Harvard Business School, MIT-Sloan and United Nations. With an emphasis on innovative packaging and unique product delivery, PC has helped pave the way for a revolution in the fresh food market in India.



DISTINGUISHED ALUMNI AWARDS 2023



MR. JOHN JOSEPH
MANAGING DIRECTOR,
JOHN MECH-EL
TECHNOLOGIES (P) LTD,
MUMBAI

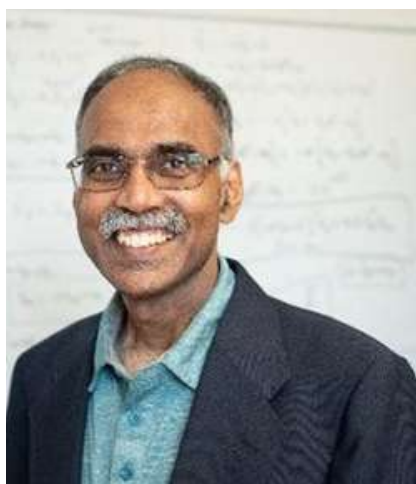
AWARD CATEGORY

EXCELLENCE IN INSTITUTIONAL DEVELOPMENT AND ALMA MATER SERVICES

John Joseph is an alumnus of NITC from the 1968-72 Mechanical Engineering Batch. He also received a Bachelor of Laws degree from Mumbai University. John Joseph is the Chairman and Principal Consultant of John Mech-El Technologies (P) Ltd., an engineering consultancy company based in Mumbai. He has 44 years of experience in engineering and project management consultancy services.

John's firm renders design/engineering/management/consultancy services in the field of HVAC, clean rooms, co-generation, district cooling, boilers, steam & hot water, medical gas & other process piping, electrical substation, D.G. sets, internal and external electrification, telephones, data networks, music, public address, T.V., security, plumbing, sanitary, water & effluent treatment, air pollution control, fire protection, security, IBMS, elevators, escalators, travellers, etc. for buildings, townships and industries; in India and abroad. John had also worked in the United States for a short period.

John Joseph was the first President of the reconstituted World NITCAA Apex Body. As the President, John led major initiatives by signing a formal agreement between NITC and NITCAA to start alumni projects and programmes in campus and for better Institute-Alumni interactions. The initiatives include starting new chapters, attracting younger alumni, statutory registration of chapters for good governance, better information flow, alumni as visiting faculty, and projects such as the gazebo, amphitheatre, IOT labs, etc.. John has participated in all alumni activities in the NITC campus and outside, including all World NITCAA Meets (WNMs). He conducted the WNM2016 in Goa as the Chairman.



DR. MARUTHI R. AKELLA
COCKRELL FAMILY
ENDOWED CHAIR PROFESSOR,
THE UNIVERSITY OF TEXAS AT
AUSTIN

AWARD CATEGORY

ACADEMIC EXCELLENCE

Maruthi Akella is a professor with the Department of Aerospace Engineering and Engineering Mechanics at The University of Texas at Austin (UT Austin) where he holds the Cockrell Family Endowed Chair in Engineering.

He received his B. Tech in Mechanical Engineering (1992) from REC Calicut, M.E. in Aerospace Engineering (1994) from the Indian Institute of Science, and Ph.D. in Aerospace Engineering (1998) from Texas A&M University. He is the founding director of the Center for Autonomous Air Mobility and the faculty lead for the Control, Autonomy, and Robotics area at UT Austin. Dr Akella's research program encompasses control theoretic investigations of nonlinear and coordinated systems, vision-based sensing for state estimation, and development of integrated human and autonomous multivehicle systems.

His research contributions led to high-impact applications for aerial robotics, high-speed flow-control systems, spacecraft formations, and computer vision. He published more than 230 papers in peer-reviewed archival journals and professional conferences. His work was recognized through prestigious awards, including the AIAA Mechanics and Control of Flight Award, the AAS Dirk Brouwer Award, the IEEE-CSS Award for Excellence in Aerospace Control, and the Judith A. Resnik Space Award from the IEEE Aerospace and Electronic Systems Society.

He is Editor-in-Chief for the Journal of the Astronautical Sciences and serves on the AAS Board of Directors. Dr. Akella is a Fellow of the IEEE, AIAA, and AAS, and holds the Academician rank with the International Academy of Astronautics.



DISTINGUISHED ALUMNI AWARDS 2023



MR. SHILEN SAGUNAN
CHIEF EXECUTIVE OFFICER,
SS CONSULTING,
KOCHI

AWARD CATEGORY

EXCELLENCE IN INSTITUTIONAL DEVELOPMENT AND ALMA MATER SERVICES

Shilen graduated with a B.Tech. Mechanical Engineering Degree from REC/NIT-Calicut, and M. Tech. in Aerospace Engineering from IIT Mumbai. Shilen started his career with VSSC/ISRO specializing in aerospace systems engineering, subsequently moving to US heading product development of Arbitron Inc. He founded Arbitron India, growing this company to a world class product company creating 400 hi-tech jobs in Kerala. The firm won several awards including SHRM award for workplace flexibility. Promoting startup entrepreneurship, he co-founded two organizations, the first PPP model tech Accelerator and Incubator in Kannur called Mizone creating 50+ entrepreneurs and the first native Angel investment Network of Kerala called Malabar Angel Network (MAN) creating 70+ angel investors.

Shilen led two delegations of academicians from NITC, and startup entrepreneurs from Kerala, (KSUM) to the agri and food tech hub in Upper Galil, Israel. Shilen had convinced two of his mentee startups Tranzmeo and C-Electric to provide consulting projects to his alma mater for solving certain complex technology problems and made joint proposals to DST for securing capital investment for research facilities. Shilen had connected Tata Elxsi to provide a grant from their CSR Fund to NITC for developing capability in Electric Vehicle Technologies. The total value of funds secured is more than Rs 2 crore and has contributed towards development of an exclusive Postgraduate program in this aspect. He had also started Arbitron Center of Excellence in NIT Campus in 2010, providing paid internships and recruiting a few NIT students. He has received several prestigious awards particularly in creating a startup entrepreneurship culture in Kerala from TiE, KSUM, NASSCOM and KMA. He serves in the Board of Kerala Startup Mission chaired by the Chief Minister of Kerala, Board of Governors, NIT TBI, and many startups and SME companies. He is the honourable secretary of RECCAA Club, Kochi.



MR. NIRMAL N R
CHIEF EXECUTIVE
OFFICER- (3-WHEELER
BUSINESS)
GREAVES ELECTRIC
MOBILITY

AWARD CATEGORY

EMERGING ALUMNI LEADER AWARD

Nirmal is the Chief Executive Officer for 3 wheeler business at Greaves Electric Mobility, the electric vehicle arm of Greaves Cotton, one of India's oldest business houses. He is responsible for all aspects of the business including Sales and Marketing, Product Development and Manufacturing.

Prior to the current role, Nirmal scaled and ran India's only Car sharing platform-Zoomcar as CEO-India. He joined the company in 2016 and scaled up operations and growth of Zoomcar in West India initially. He also led Zoomcar's foray into electric mobility business and the company's transformation from a car rental company to a Tech enabled car sharing marketplace with more than 25, 000 cars on the platform.

Before Zoomcar, he had successfully launched OYO Rooms in Kerala and ran the region with the best customer experience across the company. He has held leadership roles across Marketing, Business Development and Operations in large established companies like E.I.DuPont and Ashok Leyland. Nirmal started his career with Ashok Leyland as a manufacturing engineer after his B. Tech. from NIT Calicut in 2005.

While at NIT Calicut, Nirmal was an office bearer of the Industrial and Planning Forum (IPF) and the Mechanical Engineering Association (MEA) and actively volunteered for the cultural and technical fests. Nirmal has an MBA from the Indian School of Business and is a TEDx speaker who speaks on culture and kindness at Work.

Patents in 2022-23



Hearty Congratulations

Indian Patent (429867)

A Low-Cost Portable Electrochemical Biosensor for Rapid Detection of Endotoxin

Prof. Sandhyarani, Prof. Ravi Varma,
Dr. Arun, Mr. Tushar & Ms. Haritha

INTELLECTUAL PROPERTY INDIA
GOVERNMENT OF INDIA
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Clause 4 of The Patents Act, 1970)

क्रमांक / SL No : 044152784

पेटेंट सं. / Patent No. : 429867
 आवेदन सं. / Application No. : 202241053140
 प्रस्तुत करने की तिथि / Date of Filing : 16/09/2022
 पेटेंटी / Patentee : National Institute of Technology-Calicut
 आविष्कारक (या सवु से) / Inventor(s) : 1. Dr. N. Sandhyarani 2. Tushar Pathak 3. Haritha K 4. Dr. Arun R S. Dr. M. K. Ravi Varma

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में वर्णित A Low-Cost Portable Electrochemical Biosensor for Rapid Detection of Endotoxin and Method Thereof नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख तिथि 2022 के सोमवार दिनांक 16th दिनांक से प्रदान की गई है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A Low-Cost Portable Electrochemical Biosensor for Rapid Detection of Endotoxin and Method Thereof as disclosed in the above mentioned application for the term of 20 years from the 16th day of September 2022 in accordance with the provisions of the Patents Act, 1970.

INTELLECTUAL PROPERTY INDIA
DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

अवकाश की तिथि / Date of Grant : 24/04/2023

अध्यक्ष / Controller of Patent

ध्यान दें - इस पेटेंट के अधिकारों को सुरक्षित रखने के लिए, इसे 2024 के 16th दिनांक से प्रदान की गई है।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 16th day of September 2024 and on the same day in every year thereafter.



Hearty Congratulations

Indian Patent (433177)

“Superhydrophobic-Omniphobic Membrane for Membrane Distillation with Enhanced Scaling, wetting and fouling Resistance and Preparation Method Thereof”

Dr. Noel Jacob & Vivekanandan Sangeetha

INTELLECTUAL PROPERTY INDIA
GOVERNMENT OF INDIA
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Clause 4 of The Patents Act, 1970)

क्रमांक / SL No : 044154054

पेटेंट सं. / Patent No. : 433177
 आवेदन सं. / Application No. : 202241065935
 प्रस्तुत करने की तिथि / Date of Filing : 17/11/2022
 पेटेंटी / Patentee : National Institute of Technology-Calicut
 आविष्कारक (या सवु से) / Inventor(s) : 1. Noel Jacob Kaleekkal 2. Vivekanandan Sangeetha

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में वर्णित Superhydrophobic-Omniphobic Membrane for Membrane Distillation with Enhanced Scaling, wetting and fouling Resistance and Preparation Method Thereof नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख तिथि 2022 के सोमवार दिनांक 17th दिनांक से प्रदान की गई है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled Superhydrophobic-Omniphobic Membrane for Membrane Distillation with Enhanced Scaling, wetting and fouling Resistance and Preparation Method Thereof as disclosed in the above mentioned application for the term of 20 years from the 17th day of November 2022 in accordance with the provisions of the Patents Act, 1970.

INTELLECTUAL PROPERTY INDIA
DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

अवकाश की तिथि / Date of Grant : 30/05/2023

अध्यक्ष / Controller of Patent

ध्यान दें - इस पेटेंट के अधिकारों को सुरक्षित रखने के लिए, इसे 2024 के 17th दिनांक से प्रदान की गई है।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 17th day of November 2024 and on the same day in every year thereafter.

Patents in 2022-23

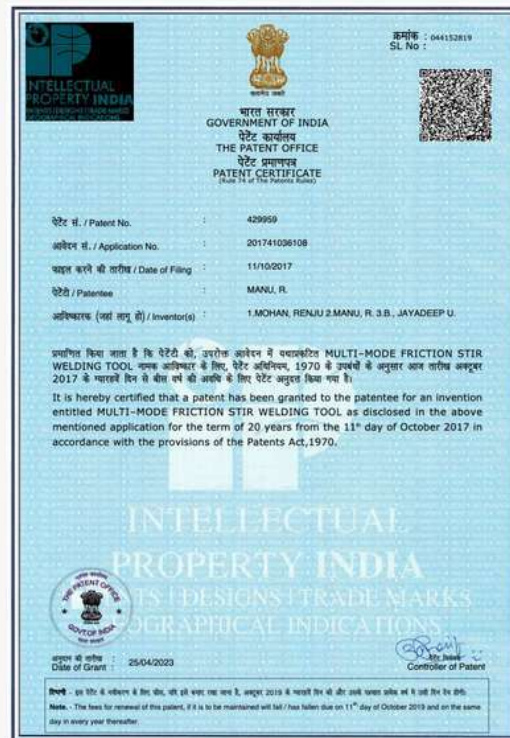


Hearty Congratulations

Indian Patent (429959)

Multi-Mode Friction Stir Welding Tool

Prof. R. Manu, Dr. Jayadeep and Mr
Renju Mohan

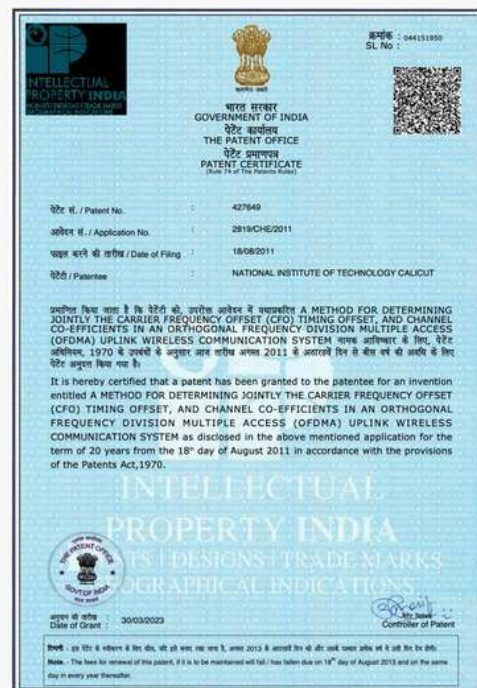


Hearty Congratulations

Indian Patent (427649)

“A Method for Determining Jointly the Carrier Frequency Offset (CFO) Timing Offset, and Channel Co-Efficients in an Orthogonal Frequency Division Multiple Access (OFDMA) Uplink Wireless Communication System”

Prof. Sameer S M and Thafasal Ijyas V P



Patents in 2022-23



Hearty
Congratulations

Indian Patent (434837)

Ground Granulated Blast Furnace Slag-Dolomite Geopolymer Concrete Blocks.

Prof Praveen Nagarajan, Dr. Saranya P & Prof. A P ShashikalaC



Hearty
Congratulations

Indian Patent (436763)

System for inscribing patterns on metallic nano particles layer at liquid-liquid interface and method thereof.

Dr Subramanyan Nambodiri Varanakkottu, Ms Ragisha C M & Dr Farzeena C



Hearty
Congratulations

Indian Patent (447616)

“Gold-Silver Alloy Embedded PEDOT-Based Non-Enzymatic Electrochemical Sensor for Histamine Detection and Method Thereof”

Dr. Mini Mol Menamparambath, Sameena Kanakkayil, Nesleena Puthiyottil, Sijina Kinattaringara Parambath and Dr. Rajanikant G K.

AWARDS...

Dr. Noel Jacob wins the Young Scientist Award

Dr Noel Jacob Kaleekal, Assistant Professor in the Department of Chemical Engineering, NIT Calicut, has won the 'Kerala State Young Scientist Award-2022' in recognition of his outstanding contribution to the field of Science and Technology. The Kerala State Council for Science, Technology and Environment announced the award. The award carries a cash award of Rs. 50,000, Chief Minister's Gold Medal, research grant of up to Rs. 50 Lakhs and travel support for a visit abroad to present the research work at a conference.

Dr Noel holds a Chemical Engineering undergraduate degree from the National Institute of Technology Karnataka, India and obtained his postgraduate degree (Chemical Engineering) and PhD (Technology) from AC Tech. Anna University, Chennai, India.



Dr Noel Jacob
Assistant Professor,
Dept. of Chemical Engineering

He leads the Membrane Separation Group (MemSepGrp), which focuses on developing nano-enabled polymeric membranes for various applications.

Dr Noel also received the prestigious Young Engineer Award -2022 (Chemical Engineering) from the Indian National Academy of Engineering (INAE), India & Young Engineer Award 2023 by Institution of Engineers India. Noel has completed two extramural funded (MHRD-SPARC, SERB SRG) research projects and is implementing another DST-funded project. He has published more than 40 research articles in peer-reviewed journals, authored four book chapters, edited two books (Elsevier, CRC Press) and has been granted two patents.

His initial focus was on developing and evaluating membranes for hemodialysis applications. He has also worked on the pressure-driven membrane process for water treatment, including the removal of heavy metals, humic substances, separation of oil-water emulsion, etc. He has collaborated on a project involving developing and characterising proton exchange membranes for direct-methanol fuel cells. His research group is working on government-funded projects for developing novel forward osmosis membranes and superhydrophobic membranes for Membrane Distillation to recover and reuse wastewater and seawater. The Young Scientist Award-2022 was awarded to Dr Noel for his most recent research focused on low-pressure, novel membrane technologies that address the concerns of diminishing water and energy resources.

Dr Noel is the eldest son of Mr Jacob Kaleekkal Chacko and Mrs Jessy Rachel Jacob of Kaleekkal Bethel House, Venmony, Chengannur.



AWARDS...

NITC team wins accolades at the e-Yantra Robotics competition at IIT Bombay

The NIT Calicut team has won the top position in the national level e-Yantra Robotics competition conducted by IIT Bombay on 1st April 2023. e-Yantra is a project sponsored by the Ministry of Education, Govt. of India, under the National Mission on Education through Information and Communication Technology (NMEICT). E-Yantra Robotics Competition aims to promote robotics education and encourage students to develop embedded systems, programming, and mechatronics skills.

The NITC team consisting of two Third year B.Tech students, Eldho Kuriakose (Electronics and Communication Engineering) and Vivek Pankaj (Computer Science and Engineering), developed the RoadBot to maintain roads efficiently. These students are members of the Robotics Interest Group (RIGNITC) at NIT Calicut.

The RoadBot searches for faulty road segments and provides service by filling potholes with the dispensing mechanism. It operates following the traffic on a specific road segment, ensuring minimal traffic flow disruption. RoadBot is an ideal solution for busy roads and highways where maintenance work can cause significant traffic congestion. The RoadBot constantly works to assess the street and tries to work on the construction zone as swiftly as possible.

The competition is open to students from engineering colleges across India and has two main components - online and onsite competitions. In the online competition, participating teams must complete tasks related to robotics and embedded systems using a robotic kit provided by the e-Yantra Lab. The onsite competition involves the demonstration of the robot developed by the teams to perform a set of tasks related to the competition's theme.

The RoadBot is controlled using Raspberry Pi and programmed in Elixir, a functional programming language that helps in the efficient utilization of multiple cores in Raspberry Pi. This makes the RoadBot highly efficient and capable of handling complex tasks.



The road network is one of the most critical infrastructures for any country's economic growth and development. However, inadequate maintenance of roads can lead to increased traffic congestion, accidents, and unnecessary expenses. The social relevance of the Functional RoadBot lies in its ability to provide a safe, efficient, and cost-effective solution for road maintenance. It can contribute to the well-being of people, the country's economy, and the nation's overall development.

A total of 376 teams from across the country participated in the competition. As none of them could complete the task thoroughly, the first prize was not awarded to any. The NITC team secured the top position by winning the second prize, a remarkable achievement.

AWARDS...

Club Aerounwired secured The Best Design Report

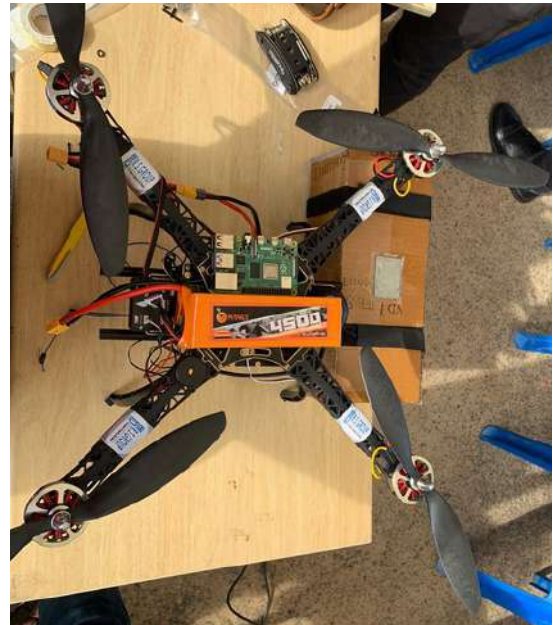
Club Aerounwired, from National Institute of Technology, Calicut, has secured THE BEST DESIGN REPORT, in a national competition, namely, The 1st All India Autonomous Drone Development Competition conducted by the Society of Automotive Engineers India Southern Section held at KCG College of Technology, Chennai. The competition consisted of 42 teams from various colleges. Club Aerounwired emerged victorious winning a cash prize

The objective of the competition was to manufacture an autonomous drone which is capable of safe and secure transport of medical goods in a quick response to medical emergencies. In response to this, Club Aerounwired designed an autonomous drone and presented.

The Registration for the next year's ADDC 2024 has already started and the team commenced their initial preparations to repeat the success

Ms. Komal lead the team to the success. The team members are

1. Ayush Singh
2. Himanshu Dudi
3. Cyriac Joy
4. Naveen Sunil
5. Komal Singh
6. Shyam Prakash
7. Vedant Jadav
8. Arun SK
9. Anurag Bhatt



DAP student wins NIUA Logo Design Competition

Ramjith Jayan, a 2020 Batch Undergraduate student from the Bachelors in Architecture Programme of the Department of Architecture and Planning, won the NIUA logo design competition. The National Institute of Urban Affairs (NIUA), is an institute for research, training and information dissemination in urban development and management. The NIUA advertised a logo design competition for its Urban Youth Unit.

The Urban Youth Unit logo design brief focused on representing the spirit and power of youth in the urban ecosystem. The winning design focused on representing the first three letters of the words of the Urban Youth Unit in the colours of the Indian tricolour with the shapes emulating the letters. The overall logo represents the alphabet Y. This win is a great achievement for the Institute and the Department, marking a significant milestone in the field of design.



Colour of the Indian flag
+
First letter of each word





National Service Scheme @ NIT Calicut

NSS NITC is the NIT Calicut chapter of the National Service Scheme working under the Ministry of Youth Affairs & Sports Government of India. It was established in 1970 and since then, we have been actively instilling the importance of social responsibility in the minds of students. The NSS Chapter of NIT Calicut has three units, each guided by corresponding coordinators, and around 90 members who take part in community services in and around the campus. The NSS unit operates under the motto 'Not Me, But You' embodying the ethos of selfless service that is the foundation of its endeavors.

It produces opportunity to the student youth to take part in various government led community services and program. With this organization the students are able to build their character, maintain discipline, create leadership and become a person who understand human nature. With a rich legacy of impactful initiatives and activities, the NSS at NITC stands as a beacon of change and service in the campus and beyond.

One of the key dimensions of NSS NITC's activities is community outreach. Volunteers actively engage with local communities, identifying their needs and collaborating to develop sustainable solutions. This includes organizing free health camps for non-teaching staff, awareness drives, and workshops that address issues such as sanitation, hygiene, and healthcare. Blood donation drive, stem cell donor registration camp, anti-drug campaign, hair donation camp and various campaigns are successfully conducted by NSS volunteers annually.

Environmental conservation is another cornerstone of NSS NITC's activities. Recognizing the urgent need for sustainable practices, volunteers participate in tree planting drives, clean-up campaigns, and awareness programs on biodiversity and climate change. By partnering with local environmental organizations, the NSS unit contributes to creating a greener and more ecoconscious society.

NSS NITC is also committed to promoting education and awareness. The unit extends support to underprivileged groups through initiatives like providing educational assistance, distributing essentials, and facilitating skill development programs in nearby government schools. 'Aavishkar' is one such event where volunteers visited different schools like IGMRS Nilambur, AMMHS Pulikkal, GHSS Poonoor, Pleasant Omassery and AUPS Mangad and conducted workshops, seminars, and awareness campaigns on a wide range of subjects including digital literacy, women's empowerment, mental health, and more. Through these initiatives, volunteers strive to equip individuals with knowledge and skills that empower them to make informed decisions and lead fulfilling lives.



Health and wellness are integral aspects of NSS NITC's activities. The unit organizes blood donation camps, health check-up drives, and awareness sessions on physical and mental wellbeing. By addressing health-related issues at both individual and community levels, NSS NITC aims to contribute to a healthier and happier society. NSS NITC places a strong emphasis on skill development and capacity building. The unit conducts workshops on leadership, communication, and teamwork, fostering personal growth and professional development among its volunteers. These skills not only enhance the impact of their service activities but also prepare them to be responsible and ethical leaders in their future endeavors.

In addition to its local efforts, NSS NITC actively participates in national-level campaigns and initiatives. Volunteers participated in the Clean India Campaign by organizing a cleaning drive for two days. They are keen to promote social causes like gender equality, education for all, and disaster preparedness. NSS never fails to keep up the patriotism and spirit among its volunteers. Independence Day and Republic Day are celebrated annually by organizing rallies and events to spread the sense of harmony and unity. By aligning with larger national objectives, the NSS unit amplifies its impact and creates a wider network of change agents.

In brief, the NSS at NITC is a vibrant and transformative force that engages students in a range of activities aimed at promoting social responsibility, community engagement, and personal development. Through its diverse initiatives spanning community outreach, environmental conservation, education, health, and skill development, NSS NITC creates a positive impact both within the campus and in society at large. As young minds channel their energy and enthusiasm into meaningful service, they not only contribute to the welfare of the community but also cultivate values and skills that shape them into responsible and compassionate citizens of the world.



Ek Bharath Shresth Bharath cultural exchange program

'Sanskriti' a cultural program, was hosted by NIT Calicut under the Ek Bharath Shresth Bharath cultural exchange program launched by the Govt. of India. We have conducted a cultural exchange program with NIT Hamirpur, Himachal Pradesh, as a part of this program. On the 4th of October, Prof. Prasad Kirshna, Director of NIT Calicut, inaugurated the event. He welcomed the students of NIT Hamirpur along with Dr Rajanikant G K Dean SW, NIT Calicut and Dr Sudev Das, Nodal Officer, EBSB. They shared their thoughts and provided insight into the importance of culture in our daily lives. We were also enlightened about the rich culture of India through their address.

Dr Shampy Kamboj from NITH then acquainted us with the vibrant culture and natural beauty of Himachal Pradesh and NIT Hamirpur. Further, he took us on a journey through the diversified culture of India. Following this, the students of NIT Calicut showcased their skills by performing Thiruvathira, a traditional dance native to Kerala. Thiruvathira is performed by women donning white saris during essential festivals like onam. The music club of NIT-C then performed vanjipattu and nandanpattu, the classical Malayalam songs of Kerala. Through this, we all got a new perspective on the culture of Kerala. Thus concluded the first day of Sanskriti.

The second day of 'Sanskriti' started with a lamp-lighting ceremony graced by faculty from NIT Hamirpur. This was accompanied by a prayer to seek the blessings of goddess Saraswathi. The students of NITH then gave us a glimpse of the culture of Himachal Pradesh. Dr Ashok, NITH, then educated us on the rich and diverse heritage of Himachal Pradesh. It was indeed an eye-opener. Post lunch break, the students of NIT Hamirpur performed the folk songs of Himachal Pradesh. We were then delighted by a stunning drama performance by NITH. Following this, a variety of poems enriched our literary knowledge.

The main attraction of the evening was next, the ethnic fashion parade. Students of NITH enrobed in Pahari caps, purdahs and pashmina shawls put on a stunning show. We were all left in awe, looking at the local dressing style of Himachal Pradesh. It enabled us to look at the rich culture of Himachal Pradesh in a new light. Then, we were mesmerized by the traditional songs of Himachal Pradesh. An energetic performance of Nati, a folk dance of Himachal Pradesh, rejuvenated us. To conclude the day, Dr Sandeep sharma imparted us with the knowledge of the ancient and present culture and state of Himachal Pradesh



A two-day workshop for the district coordinators of Sasthrarangam and Gifted Children clubs

A two-day workshop for the district coordinators of Sasthrarangam and Gifted Children clubs started at the National Institute of Technology Calicut on Tuesday. Nearly 50 coordinators from different districts in Kerala are attending the workshop. The programme is conducted by NIT Calicut in association with the Directorate of General Education, Government of Kerala.

The workshop aims at offering training and guidance to teacher coordinators of Sasthrarangam and the Gifted Children club to inspire school students for taking up innovations. The workshop also aims at increasing the participation of students from Kerala in INSPIRE Innovation in Science Pursuit for Inspired Research (INSPIRE)-MANAK (Million Minds Augmenting National Aspirations and Knowledge), being executed by DST with National Innovation Foundation – India. Prof Prasad Krishna, Director NIT Calicut, in his message expressed his happiness on this great initiative of Government of Kerala to train the school teachers to function as coordinators of innovation clubs in their respective schools. “We, being an institution of national importance, takes pride in partnering with the Government of Kerala in strengthening the innovation ecosystem in the school education sector,” said Prof. Prasad Krishna. Future lies in innovation, entrepreneurship and startup so that our young population will become job creators instead of job seekers, he said.

The workshop was inaugurated by Prof. J Sudha Kumar, Director in charge of NIT Calicut. Prof. S Ashok, chairperson of the Centre for Innovation, Entrepreneurship and Incubation of NIT Calicut (CIEI) presided over the inaugural session.

The initiative aims at helping the teacher coordinators to identify the innovation in the students and motivating them for developing commercially viable ideas and products. Different sessions, handled by experts from NIT Calicut, discussed the methods for identifying innovations in different areas like science topics, robotics, nanotechnology, Internet of Things (IoT) and electronics.

Experts from start-ups and industries also addressed the workshop to impart knowledge on idea formulation, feasibility studies and commercialisation. The workshop will conclude on Wednesday. The programme is coordinated by CIEI.

Ms. Deepa Martin, Chief Planning officer, Directorate of General Education and Dr. M Preethi, CEO of Technology Business Incubator, NITC also spoke at the inaugural session.



Exploring Science Through Innovation: NIT Calicut's Tinkering Laboratory

In a transformative stride towards enhancing rural education and community development, the National Institute of Technology Calicut (NITC) has established a Science Tinkering Laboratory at Government L.P. School, Chenoth, Chathamangalam. This initiative falls under the umbrella of the Unnat Bharat Abhiyan (UBA) Scheme, spearheaded by the UBA Cell NIT Calicut, with a vision to elevate the school to a Center of Excellence at the grassroots level, nurturing comprehensive growth among students and the community.

The laboratory was inaugurated by the esteemed director of NIT Calicut, Prof. Prasad Krishna, symbolizing the institution's commitment to fostering innovation in education. The laboratory's design aims to transform learning into a tangible and accessible student experience. By offering visual aids and hands-on experiments, the

laboratory translates complex scientific concepts into actual actions and experiences. It houses an array of equipment and physical models meticulously aligned with the lower primary education curriculum, spanning science, mathematics, and biology. One noteworthy highlight of this initiative is the vibrant 'wall painting' adorning the school premises, a project undertaken by the National Service Scheme (NSS) unit of NIT Calicut. This artistic endeavour beautifies the learning environment and encapsulates the collaborative spirit of community engagement.



Dr Shyni Anilkumar, the Faculty in charge of the UBA Cell at NIT Calicut, explained the multifaceted project activities planned under the UBA Scheme. These activities are poised to empower students and community members alike, fostering holistic development and a profound understanding of science and its practical implications. but has also redefined educational institutions' role in nurturing academic growth and community progress. The Science Tinkering Laboratory is a beacon of innovation, illuminating a path towards accessible and impactful education. In championing this venture, NIT Calicut has not only underscored the significance of hands-on learning but has also redefined educational institutions' role in nurturing academic growth and community progress. The Science Tinkering Laboratory is a beacon of innovation, illuminating a path towards accessible and impactful education.

'One day Workshop on 'waste-free sea' project

To safeguard our precious marine ecosystems, Prof. Prasad Krishna, Director of the NIT Calicut, has rallied the student community behind the transformative 'Clean Coast - Safe Sea' project. Speaking at the launch of a one-day workshop on the NITC campus, Prof. Krishna passionately urged young minds to take charge of converting our seas and coasts into garbage-free havens. This initiative aligns seamlessly with the 'Swachh Sagar, Surakshith Sagar' endeavour, championed by the Ministry of Earth Sciences, Government of India. Senior journalists Mr. Biju Govind and Mr. Joshua P., echoed the call for active public and student

participation in environmental protection awareness initiatives alongside media efforts. They underscored the role of scientific and technological institutions in spearheading innovative waste management projects. Dr B. K. Tyagi, a scientist from Vigyan Prasar, and Dr Sreeraj C. R., a Marine Ecologist, engaged with students from various Kozhikode district schools, sparking insightful conversations. Prof. P. Predeep of the Department of Physics at NITC expertly coordinated the workshop. Dr M.K. Ravi Varma, Head of the Department of Physics, and Dr Sandeep Barua from Vigyan Prasar

were also present. As part of the event's vibrant activities, school students participated in Painting and Essay Writing competitions centred around the theme 'Clean Coast, Safe Sea'. The day culminated in extensive cleaning drives and awareness campaigns along Kozhikode South Beach, leaving an indelible mark of unity and commitment towards preserving our oceans and shores. With a resolute pledge to continue these efforts, the event stands as a rallying cry for a future where our coasts remain untarnished, and our seas remain secure.



Unlocking Opportunities: NIT Calicut Launches Japanese Language Certificate Programme

NIT Calicut launched a certificate programme in the Japanese language to foster cultural exchange and enhance students' global competencies. The programme was commenced by Dr Sanjeeb Patjoshi IPS, Chairman and Managing Director of Supplyco, Kerala. The program, initiated in collaboration with the Japan Foundation (JF), introduces a Japanese language certificate course at the A level, catering to students and staff. Mr Yoshifumi Murakami, a Japanese language analyst at Japan Foundation, and Prof. D Shakti Kumar, Deputy Director of the Bio-Nano Electronics Research Centre, graced the inaugural program. Dr Patjoshi emphasized the profound impact of language learning in today's multicultural landscape. He commended the initiative, highlighting the diversity of languages across India and the opportunities it provides.

NIT Director Prof. Prasad Krishna emphasized the advantages of multilingualism, especially for students aspiring to pursue higher education in Japan. He underscored how India's linguistic richness fosters sensitivity to diversity and enhances workplace performance. Dr Ravi Varma, Chairperson of the Centre for International Relations & Foreign Languages (CIRFL), provided insights into the centre's activities. NITC's endeavour to bridge linguistic and cultural gaps through this program promises language proficiency and a broader worldview, setting the stage for a new era of global academic and professional success. He underscored how India's linguistic richness fosters sensitivity to diversity and enhances workplace performance.

One-day workshop on "Labour Laws"

National Institute of Personnel Management, Calicut Group, Kerala Chapter, in association with School of Management Studies, NIT Calicut, conducted a one-day workshop on "Labour Laws" on 17th September, 2022. The workshop was led by Kerala's Leading Labour Law Consultant, Mr. Varkiachan Pettah.

Mr. Varkiachan Pettah engaged the audience on the new labour laws and the four new labour codes and its implementation. Students from management institutes across Kerala attended the workshop. It was concluded with an interactive session.

Talks for collaboration with MTU, USA

Professor Will Cantrell, Assistant Provost & Dean of Graduate School, Michigan Technological University (MTU) and Prof. Ravindra Pandey, Chair of Department of Physics, Michigan Technological University (MTU), Michigan, USA, interacted with the faculty, research scholars and students of NITC regarding the opportunities available for them at MTU. The duo was visiting the campus to discuss the possibilities of academic collaboration and student/faculty exchanges, and prospects

of higher studies at Michigan Technological University for NITC students. The interaction session was arranged by the Centre for International Relations and Foreign Languages. They said that the Indian students' community is the largest student diaspora at MTU and they are extremely happy to receive more. The team will be interacted with faculty members from various departments and exploring possibilities for academic collaboration at the institute level.

Workshop on sophisticated instruments for materials & device fabrication and characterization

One-week long hands-on training workshop on sophisticated instruments for materials and device fabrication and characterization began at NIT Calicut on 14th November, 2022. The program is organized by the Department of Physics, NITC, in association with Banasthali Vidyapith Rajasthan under the scheme Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI), which is supported by the Department of Science and Technology, Government of India.

Prof. Prasad Krishna, Director of NITC inaugurated the program. Prof. Prasad Krishna expressed his gratitude to the DST and Banasthali Vidyapith for the opportunity. He also wished the participants a great time on campus, encouraging them to make use of the opportunity to interact with the faculty members of the institute. Dr. Parvej A Alvi, Project Management Unit (PMU) coordinator, briefed the STUTI scheme of the Department of Science and Technology.



30th Swadeshi Science Congress

The 30th Swadeshi Science Congress was held at NIT Calicut from May 25-27. The three-day event was opened by Dr. Chandrasekhar, Secretary of, the Department of Science and Technology.

Visible changes in science and technology could be seen in recent years, observed Dr. Chandrasekhar during the virtual inauguration of the event. He called upon the scientists to bring sustainability concepts that are intrinsic to Indian philosophy on pursuing research in any branch of science and attract other countries to India to learn such models.

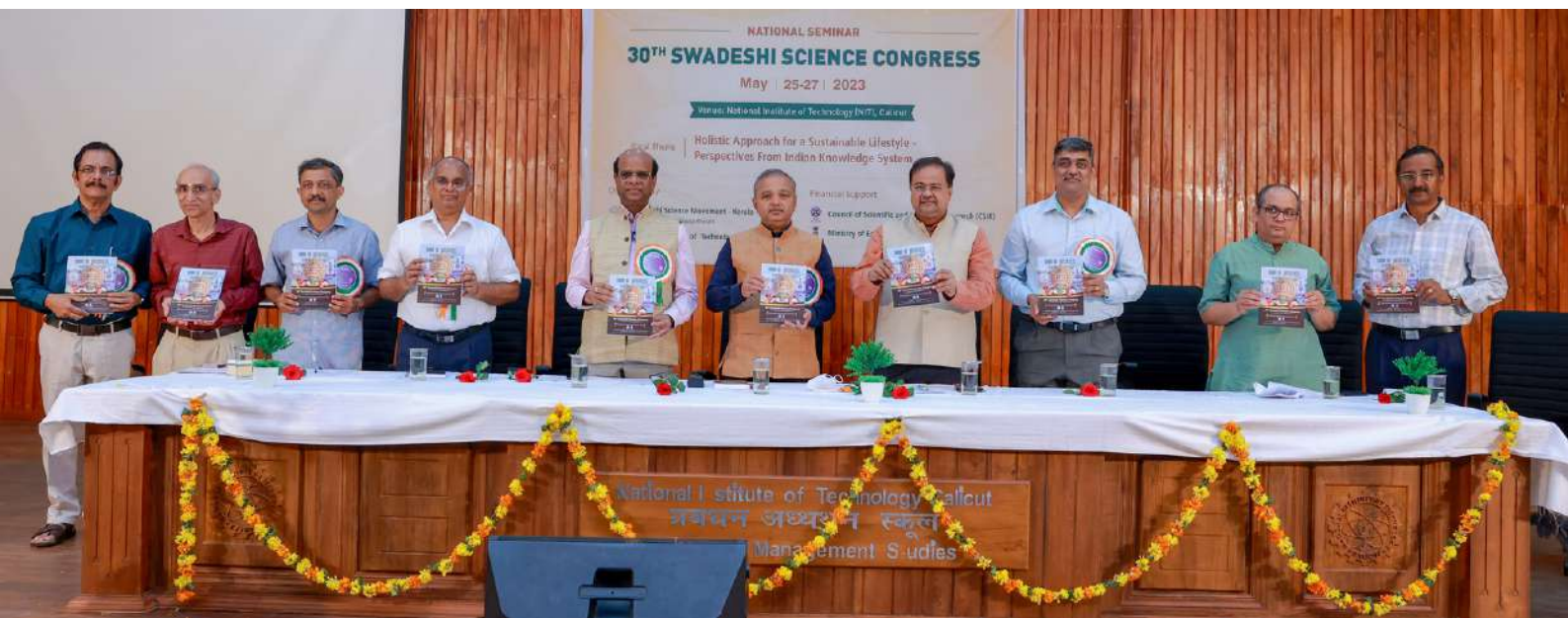
Dr. Debashis Chatterjee, Director, IIM, Kozhikode delivered keynote addresses on the focal theme: Holistic approach for a sustainable lifestyle - perspectives from the Indian knowledge system. The Parameswarji memorial lecture was delivered by Dr. Prasad Krishna, Director, NIT-C.

Dr. A Sujith, NIT-C delivered the Sir C V Raman Memorial lecture. Dr. K. Muralidharan, President of Swadeshi Science Movement Kerala presided over the function. Professor C. Sridharan, chairperson of the Centre for Indian Knowledge System, NIT-C and Dr. Ashish Avasti, NIT-C, Sri. Vivekananda Pai, National Secretary, Vijnana Bharati, Dr. A. R. S. Menon and Sri. Rajeev Nair (Swadeshi Science Movement Kerala) and Dr. Shyamasundara M, Registrar, NIT-C also spoke. More than

250 delegates from different parts of the country are attending the three days congress.

Dr. V. A. Pathasarathi, Ex-Director, ICAR-IISR delivered the valedictory address. Prof. C. Sridharan, Chairperson, Indian Knowledge System, NIT-C presided over the session. Other dignitaries who spoke in the valedictory session were Shri R. Abga, South India Organising Secretary Vijnana Bharati, Dr. K. Muralidharan, President, Swadeshi Science Movement Kerala, Dr. A. R. S. Menon, Secretary, 30th Swadeshi Science Congress, Prof. Ravi Varma, NIT-C and Sri. Rajeev Nair, Secretary of Swadeshi Science Movement Kerala.

Best paper awards for young scientists were presented to 13 scientists. The awards include the Dr. Ravindran memorial award and Dr. A.R. R. Menon memorial award.



NITC organizes G20 workshop on clean water & energy

National Institute of Technology Calicut conducted a G20 workshop on ‘Accelerating Progress on Sustainable Development Goals for Clean Water and Energy,’ on Friday. The workshop was organised to find out technological solutions for achieving sustainability goals. The most important goal of an engineer or a scientist should be the protection of the environment, especially by ensuring clean water and energy,” said Prof. Prasad Krishna, Director of NIT Calicut, during his inaugural address. Tsunami, floods and other natural calamities are the outcome of the greed of human beings, and humanness is the essential quality to achieve all sustainability goals, he said.

Compassion towards fellow beings is necessary to protect nature, said Prof. Prasad Krishna. He also promised the support of NIT Calicut for the sustainability and developmental initiatives of the district administration. Dr. Manoj P Samuel, Executive Director of the Centre for Water Resources Development and Management, delivered the keynote address. Global temperature and climate changes have become unpredictable, and technology is the only solution to achieve sustainability goals, he said. Judicious use of resources for optimum results is essential to protect the environment, he added.

According to Sri. Prateek Jain, Assistant Collector of Kozhikode and the chief guest at the inaugural session every individual has the right to use clean water and energy. India can become a superpower by increasing energy efficiency, he said. Dr. S Kumaravel, Associate Professor and President of the Institute Innovation Council, spoke about the innovative initiatives by NIT Calicut, and Dr. Hari Babu, Head of the Chemical Engineering Department, spoke about the initiatives by the Chemical Engineering Department.

Dr. S Bhuvaneshwari, associate professor of Chemical Engineering Department of NITC and Dr. Noel Jacob K, Assistant Professor, Chemical Engineering Department of NITC, also spoke on the occasion. Dr. Jayashree, Principal Scientist of ICAR- Indian Institute of Spices Research and Dr. S Ashok, chairperson of Centre for Innovation, Entrepreneurship and Incubation (CIEI) also attended the programme. The workshop was jointly organised by CIEI, Institute Innovation Council and Chemical Engineering Department.



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International Yoga Day 2023 at NITC

National Institute of Technology Calicut observed Yoga Day with various programmes. The observance was inaugurated by Dr. Prasad Krishna, Director of NITC. P Unniraman, Director of Pathanjali Yoga Research Centre spoke on the topic 'Yoga Practice for All'. Tree Bath, a Japanese meditation programme was also held on the campus under the leadership of Prakash Gopal, international trainer in Shinrin-yoku. Dr. G. K. Rajanikanth, Dean, Students Welfare flagged off the programme. Students, PhD scholars, faculty and non-faculty members participated in the Yoga Day programmes.



The World Bicycle Day 2023 at NITC

The World Bicycle Day 2023 was celebrated at NIT Campus with great zeal. The NSS unit of NITC organized a bicycle rally in celebration of World Bicycle Day on June 3rd 2023 in collaboration with KMCT Medical College, Mukkam, Kerala. The Registrar, CDR(Dr) Shamasundara flagged off the event at the campus. The students from KMCT Medical College also participated in the rally.



Motivational talk organized by Equal Opportunity Cell & Institute Innovation Council of NITC

Equal Opportunity Cell (EOC) and Institute Innovation Council(IIC) of National Institute of Technology Calicut jointly organized "Ignited Minds" - a Motivational Talk for students under the ambit of EOC on 11th April 2023 evening in Aryabhata Hall. Rizwan Ramzan Ahamed, a motivator, educator and innovator motivated the students through a 2 hour long interactive session.

The session was about igniting the student minds to come out of their limiting perceptions to play the game of life that they would be proud of. We spoke and discussed why and how to create a life that would change theirs and the generations to come and why they should act now. The talk revolved around things like, how to overcome limiting beliefs about ourselves, how the Internet could be a common ground, why and how to build skills that would help build dream careers and life, how to use your college days to set the foundation for your future, why and how to stand up for yourself, how to manifest your dreams and find ways to make them a reality, the power of slowing down and reflecting on yourself, why do change and uncertainty matter and why you should not settle down easily, etc. The session was followed by a feedback session where the students had all the doubts about careers, self-doubt, dreams, and more.



Mathematics for Artificial Intelligence MAI2023

Department of Mathematics, NIT Calicut, conducted a one-week offline workshop on “Mathematics for Artificial Intelligence MAI2023” during 16-20 January 2023. The workshop was inaugurated by Honorable Director Prof. Prasad Krishna, sir. Dr Raju George (an outstanding Professor from IIST) was the chief guest for the Inaugural function. One hundred twenty-nine participants registered in this workshop, including UG, PG, research scholars, faculties, and industry people from across India. Fourteen distinguished speakers from academia and Industry graced the workshop. The workshop was organized by Dr S. Panda and Dr Neetu Garg



World Environment Day 2023 at NITC

World Environment Day 2023 was celebrated at NIT Calicut, with the participation of students, staff of NIT, and students from nearby schools. We organized thought-provoking sessions that shed light on various aspects of environmental conservation, sustainable practices and eco-friendly development that minimize the production and usage of plastic products in daily life. Prof. Shobeendran, the eminent environmentalist, delivered a lecture highlighting the relevance of beating plastic pollution. An awareness talk on Menstrual cups by experts from Stonesoup Trust, an organization promoting sustainable products. Tree saplings were planted at various locations as part of the Environment Day celebrations in the campus.



Workshop on Start-up Ecosystem

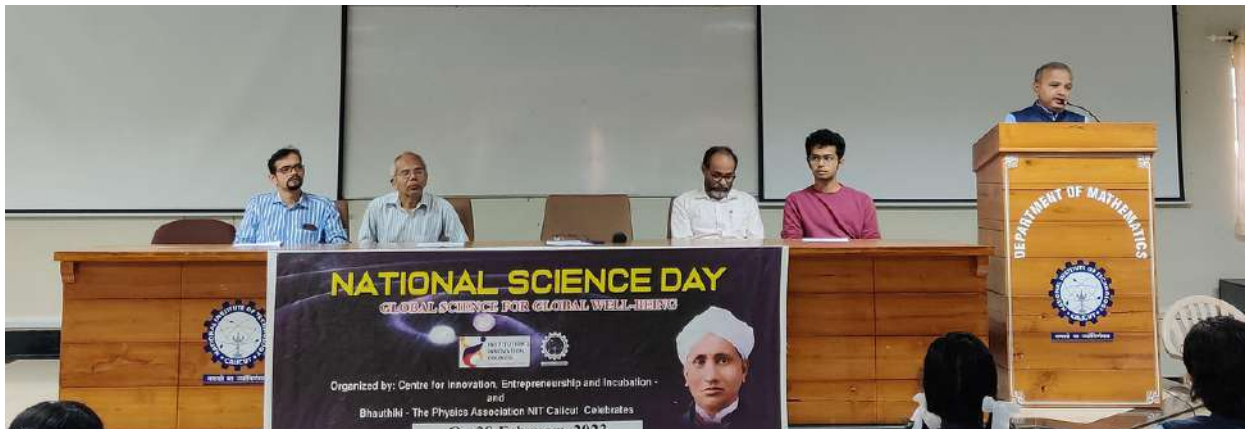
The Institution's Innovation Council of the NIT Calicut (NITC) has conducted a "One day workshop on Mentee Pre-Incubation Program for Start-up Ecosystem" on August 26, 2022, at the NITC campus. This workshop aims to illuminate the concept of prototype development based on academic research activities from schools and colleges. Dr P. S. Sathidevi, Deputy Director, NITC, inaugurated the program. She emphasized the role of IIC in fostering innovations as per the National Innovation and Start-up Policy and also briefed its importance in National Education Policy. The Resource Persons Suhail V P, Director, Nucore Pvt. Ltd. Calicut, Dr Kumaravel S., President, IIC-NITC, and Dr Preethi Manniledam, Chief Executive Officer, Technology Business Incubator, NITC, delivered lectures as part of the program.

The faculty from the mentee institutes, namely, KMCT College of Engineering, KMCT College of Engineering for Women, AWH Engineering College, Kunnamangalam Government Arts and Science College, Government Polytechnic West Hill, GSHSS Medical College, Jairani SABS Public School, Vedavyasa School have participated in the program. Dr T J Sarvoththama Jothi and Dr Jayachandran K., Innovation Ambassadors of IIC-NITC coordinated the program.



National Science Day 2023 at NITC

Center for Innovation, Entrepreneurship and Incubation (CIEI) in association with Bhauthiki, the Physics Association, celebrated National Science Day 2023 along with students from nearby schools. Dr. P N Bala Subramanian, Faculty-In-Charge Bhauthiki, welcomed the gathering. The inaugural function was presided over by Prof. M K Ravi Varma, HoD Physics, and Prof. Prasad Krishna, The Director NIT Calicut, addressed the gathering and interacted with the students. In the inaugural session The Director emphasized the importance of developing scientific temper for the betterment of society, aligned with the theme of 'Global Science for Global Well-Being'. Prof. Ashok S, Chairperson CIEI, Mr. Reuben S Mathew, Secretary - Bhauthiki and Dr. Subramanyan N V, Innovation Ambassador felicitated the gathering. Dr. Raman C K, Asst. Professor Department of Physics, conveyed the vote of thanks. The students were treated to experimental demonstrations, and took part in Poster design and Quiz competitions.



NIT Calicut to get new academic complex

NIT Calicut is gearing up to improve infrastructure facilities to comply with the National Education Policy 2020 guidelines. The institute will get a new academic block soon to meet the space requirements with the increasing number of students.

The Union Government has sanctioned Rs 37.2 crore for the new academic block to ensure infrastructure support as the student and staff strength has been continuously increasing with the introduction of new programmes. NITC is launching new academic programmes in M Tech and Integrated B.Sc-B.Ed from this academic year.

“The institute is planning large-scale infrastructure development to provide a spacious and state-of-the-art ambience for the students,” said Prof. Prasad Krishna, Director, NITC. The campus is spread across 285 acres of land and we are set to introduce a series of futuristic facilities on the campus, he said adding that all the developmental works on the campus will be completed according to the masterplan.

The block will accommodate 21 classrooms, 42 faculty single rooms and 21 faculty double rooms. In addition, it has room for accommodating research scholars.

“The New Academic Block is a project sanctioned under the EWS (Economically Weaker Section) scheme of the Ministry of Education,” said Dr. Priya Chandran, Dean (Planning and Development). We expect the work to be complete by December 2024, she said.

As per the plan, the new block will be constructed on 7 floors (G+6) with a total plinth area of 9073 sq metres. Apart from classrooms and faculty rooms, the building will also accommodate 21 laboratories.

The building will have two lifts, two main stairs and a fire escape stairway. All facilities to cater the needs of the differently abled users also will be available in the building., said Dr. Sajith A. S., Professor of Civil Engineering & Superintending Engineer (in charge), Engineering Unit of NIT Calicut. The work has been entrusted to the Central Public Works Department and the preliminary works have already been started, he said.

COMMUNITY OUTREACH

Anakkampoyil Public Library to go green, digital

A Social Service Initiative of IEEE Student Branch of NITC

A Public library at Anakkampoyil in the district is all set for a green and digital facelift. The Student Branch (SB) Institute of Electrical and Electronics Engineers (IEEE) of National Institute of Technology Calicut (NITC) has come up with a solar powered digital hub project for the library to revolutionize access to technology and use of solar power.

Anakkampoyil, a small town in the district is expected to witness a new age educational empowerment and renewable energy use with the opening of an advanced solar-powered digital hub at V K Krishnamenon Public Library. This initiative, led by the IEEE Student Branch of NIT Calicut is funded by IEEE International Humanitarian Activities Commission (HAC) by offering Rs 3,11,013.

The project aims at transforming the library into a green energy zone by exploring the scope of solar power, said Dr. K V Shihabudheen, student branch counsellor at NITC. With the launch of the project, all the electricity needs of the library will be met by solar power, he said.

According to Dr. Shihabudheen K. V., IEEE student branch counsellor of NITC, the digital hub is equipped with solar panels, 4 computers and an all-in-one printer to meet all computational needs of Anakkampoyil residents. Open-Source Software and accompanying resources to manage the digital hub are also being developed in association with the project, he said. The project also aims to reduce energy costs for the V K Krishnamenon Public Library, where the digital hub is housed.

The Solar Powered Digital Hub Project was opened by Linto Joseph, MLA of Thiruvambady on Sunday. Prof. Muhammed Kasim S, Chairperson of IEEE Kerala Section, Mr. George M Thomas, ex MLA of Thiruvambady and Dr. Praveen Sankaran, Chairperson of Centre for Career Development, NITC also attended the inauguration.

The project's open-source digitalization of the library will enhance education, computer literacy and bridge the digital divide, said Dr. Shihabudheen. This undertaking exemplifies the collaborative efforts of IEEE SB NITC and IEEE HAC, who share a common vision of leveraging technology for the betterment of society and creating a brighter future through the power of education and innovation, he added.



IEEE Student Branch of NITC to launch Solar Powered Digital Hub



COMMUNITY OUTREACH

Social Innovation & Entrepreneurship For Sustainable Development

A two-day Workshop on Social Innovation & Entrepreneurship for Sustainable Development jointly organised by the National Innovation Foundation -NIF India (Autonomous body of the Department of Science & Technology, Govt of India) and National Institute of Technology, Calicut, was successfully inaugurated this morning at Bhaskara Auditorium in NITC Campus. The Conference was officially declared open when the dignitaries lit the Lamp of Knowledge to mark an auspicious beginning for the Workshop.

The Inaugural Session started with the welcome address by Dr Vipin Kumar, Director NIF, who emphasised the importance of Grassroots Innovation, blending Science and Technology into implementable practices that lead to employment and advocate social change. The Presidential Address issued by Prof. Prasad Krishna, Director NIT Calicut, focussed on the immense innovative potential of our country and the importance of having an integrated personality - of sustainable development at individual levels leading to the global attainment of our Sustainable Development Goals. Shri Rajive NP, Vice Chairperson NIF, gave the Inaugural Address where he reiterated the importance of Grassroots Innovative Models for a fast-developing country like India.

Shri Shilen Sagunan, Chairman, Mizone & Malabar Angels Network, addressed the gathering with inspiring examples of successful innovative models that Mizone & Malabar Angels Network has brought to fruition.

The key focus of the workshop is to showcase innovative ideas and product designs at various stages of development that address and simplify multiple agricultural practices that currently employ manual methods. The Workshop is envisaged to be a two-day experience of gaining and exchanging knowledge and ideas, identifying various issues, challenges and sectors where further innovation would increase productivity and finally initiating work on an Action plan post the workshop for addressing these cumulatively with the presenters. Participants and dignitaries. The Workshop endeavours to be a step towards taking the concept of Science to Society for transformational change through an Inclusive and Eco-centric Grass-root Innovative Model as a vision for a robust economy.

The Inaugural Ceremony on Day-1 was followed by sessions of 10 varied Innovative Product Presentations by presenters from across the country on the sub-theme Science and Technology led Innovations for Societal Application chaired and co-chaired by Shri Rajive NP, Vice Chairperson NIF and Prof. Ravi Varma, NIT Calicut and Dr Chithra K, NIT Calicut respectively. The second session, chaired by Shri Rajive NP, Vice Chairperson NIF and Prof. Lisa Sreejith, NIT Calicut, respectively, consisted of three presentations on the sub-theme- Grassroots Innovations for Inclusive Development. The sessions on Day-1 concluded with an inspiring panel discussion with many invigorating interactions exploring the need and relevance of social innovation in a growing and fast-developing economy.



COMMUNITY OUTREACH

Skill Development Programme on Modern Electric Vehicles



In collaboration with the Kerala State Electronics Service Technicians Association (KSESTA), NIT Calicut conducted a Skill Development Programme on Modern Electric Vehicles (MEV 2023) for electronic technicians from all over the state. The program aims to equip technicians with essential knowledge and practical skills in the maintenance, repair, design, and upgradation of modern electric vehicles.

Prof. Prasad Krishna, Director of NIT Calicut, inaugurated this programme on 24th May 2023. In the inaugural address, he emphasized the necessity of such workshops to enhance technical skills, which are currently in high demand. He also supported collective endeavours and reaffirmed the institution's commitment to driving innovation in the electric vehicle sector. Prof. Preetha P, Head of the Electrical Engineering Department, felicitated the gathering during the inaugural function.

The Skill Development Training Series on Modern Electric Vehicles, is designed to empower participants with the necessary expertise to navigate the promising domain of electric vehicles. Scheduled to be conducted monthly, this comprehensive training series provides continuous opportunities for individuals interested in exploring the ever-evolving realm of electric vehicles. This training programme spanned three days, each focusing on different aspects of electric vehicle technology. The sessions were handled by experts working in the areas of Electric Vehicles and related technologies. The distinguished speakers were Prof Jagadanand G, Dr Nikhil Sasidharan, Dr Shreelakshmi M P (faculty members) and Mr Nithin T (Research Scholar) of the Electrical Engineering Department of NITC. The research scholars of NIT Calicut, Mr Kannan S. A, Mr Akhil Raj and Mr Renjith G, demonstrated a prototype of an Electric vehicle they developed to understand the various parts clearly. A hands-on session specifically focused on battery chargers was conducted to enhance their design and debugging capabilities. A debugging contest was held on the last day of the training programme. The training series concluded with a valedictory function, where certificates were distributed to the participants.

This initiative highlights NIT Calicut's dedication towards excellence and promoting sustainable practices in electric vehicle engineering, solidifying its position as a leading institution in this field. As the demand for servicing and repairing electric vehicles rapidly increases, this skill development program addresses the current need of the hour. By promoting innovation and sustainability, NIT Calicut continues to fulfil its social responsibilities as an institute of national importance, contributing to the overall progress of society.



COMMUNITY OUTREACH

KSEB and NIT Calicut Forge Partnership for 33kV Substation Construction on NITC Campus

A groundbreaking collaboration has been set in motion as the Kerala State Electricity Board (KSEB) Limited and the National Institute of Technology Calicut (NITC) officially inked an agreement on May 24, 2023. This pioneering partnership is geared towards the establishment of a revolutionary 33kV fully digital, unmanned, and automatic substation – a trailblazing venture that stands as the first of its kind within the state of Kerala

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Prof. Prasad Krishna, Director of NITC, highlighted the potential benefits of the collaboration. Speaking on the occasion, he stated that "Our partnership with KSEBL



provides an excellent opportunity for our campus for a reliable and quality power supply and a milestone to proceed further with new establishment and centres for academic and research excellence. Moreover, this facility will contribute to the overall development of the power sector in the region." Mrs. Lekha Rani Dy. Chief Engineer (Transmission Circle), KSEB Kozhikode expressed her enthusiasm for the collaboration, stating that "This agreement marks as significant milestone in our efforts to strengthen the power distribution network in the region. NITC, renowned for its academic excellence and research in the field of engineering, will contribute its technical expertise to the project

The institution's Electrical Engineering department, known for its cutting-edge research will actively participate in the design, planning, and implementation phases of the substation.

The forthcoming 33kV substation is primed to fortify the existing power infrastructure, unburdening the current distribution network and catering to the escalating energy demands of proximate panchayats. This progressive endeavor is expected to foster economic development and cultivate an enhanced quality of life for the local populace. The agreement delineates the shared responsibilities of both KSEBL and NITC, encompassing feasibility studies, schematic design, equipment procurement, and oversight of the construction and commissioning processes. The project is steadfastly aligned with exacting standards of quality and safety, promising enduring reliability and stability for the substation's operation.

As this landmark partnership sets the wheels in motion for a forward-looking energy landscape, it stands as a testament to the potential that emerges when academia and industry collaborate to power innovation and progress.

"This agreement marks a significant milestone in our efforts to strengthen the power distribution network in the region, Mrs. Lekha Rani Dy. Chief Engineer (Transmission Circle), KSEB"





COMMUNITY OUTREACH

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School Students visit to NITC

A group of 120 students and 4 teachers from Vedavyasa Vidyalyam Sainik School visited the campus of National Institute of Technology Calicut on Thursday. The students of class 6 and 7 visited the laboratory facilities on the campus to have hands-on experience of science and technology.

The students visited the labs including Robotics, Material Science and Engineering, Chemistry and Physics. The students also visited the library and other facilities on the campus. The Centre for Innovation, Entrepreneurship and Incubation (CIEI) facilitated the visit. Dr. Ashok S, chairperson of CIEI and Dr. Kumaravel, President of Institution Innovation Council addressed the students.



Workshop on Advances in Metal Additive Manufacturing

A week-long workshop on 'Advances in Metal Additive Manufacturing (AMAM): Fundamentals, Modeling, and Materials with Future Research Potential' was inaugurated at National Institute of Technology Calicut, on Wednesday. The workshop organised by the Department of Mechanical Engineering was inaugurated by Prof. B Ravi, Director, NIT Karnataka.

The workshop is organised as a curtain raiser event for COPEN 13 (Conference on Precision Engineering), an international conference on Precision, Micro, Meso and Nano Engineering scheduled to be held at NITC in 2024. Prof. Prasad Krishna, Director, NITC, presided over the online workshop.

Prof. V Radhakrishnan, Professor Emeritus, IIST Trivandrum, spoke about COPEN. Dr. V S Sooraj, Associate Professor IIST Trivandrum and Joint Organising Secretary of COPEN 13; Dr. Dinesh Setti, Assistant Professor of IIT Palakkad and Organising Secretary of COPEN 13; Prof. Jose Mathew, Professor (HAG) Mechanical Engineering Department NITC and Organising Secretary of COPEN 13 and Dr. Basil Kuriachen, Assistant Professor, Mechanical Engineering Department NIT Calicut and coordinator of AMAM 2023 also spoke on the occasion.

NSS Unit of NITC conducts Medical Camp

National Service Scheme of National Institute of Technology Calicut conducted a free medical camp at Open Air Theatre on the campus. The initiative covered the faculty, non- faculty and security personal working at NIT Calicut. The medical checkup was conducted by 15 specialist doctors from general medicine, ophthalmology, orthopedic and dermatology. Over 200 persons benefitted from the camp. This initiative was to ensure the health and wellness of all the persons working on our campus, said Marvan Saleem, Student coordinator of NSS. The camp was organised with the support of the doctors and other staff members of KMCT Medical College.

COMMUNITY OUTREACH

Social exchange programme: NSS volunteers from Wayanad visit NITC

A group of National Service Scheme (NSS) volunteers from WMO college Wayanad reached NIT Calicut campus on Monday to interact with their counterparts here. The visit was organised as part of social exchange programme. The NSS volunteers from NIT Calicut explained the activities and initiative by their unit for the welfare of the community outside. NSS volunteers from WMO college also shared their experiences. NSS team comprising of 55 students and two NSS coordinators also visited the central facilities on NITC campus. Dr. A Sujith, professor of Department of Chemistry, NITC, interacted with the students. The visit was coordinated by the Centre for Public Relations, Information and Media Exchange (C-PRIME) of NITC.



DISHA-2023: Direction and Inspiration to Students for Holistic Advancement Path Ahead of Engineering Education

NIT Calicut conducted a guidance programme for engineering aspirants and their parents on Monday. The programme 'DISHA-2023 (Direction and Inspiration to Students for Holistic Advancement)- Path Ahead of Engineering Education' was conducted to help the students understand the possibilities of different engineering streams. The programme aimed at helping students and parents to choose the right stream to begin their engineering education. The programme was also streamed live on the Youtube Channel of NITC to help those who could not register.

Dr. Prasad Krishna, Director, NITC inaugurated the session. Dr Sameer SM, Dean (Academic) and Professor of Electronics and Communication Engineering; Dr. K Chitra, Associate Professor, Department of Architecture and Planning; Dr. M Hari Krishnan, Associate Professor Department of Civil Engineering; Dr. Vinod Pathari, Associate Professor Department of Computer Science and Engineering; Dr. S Ashok, Professor Department of Electrical Engineering; Dr. R Manu, Professor Department of Mechanical Engineering; Dr. Baiju G Nair, Associate Professor School of Biotechnology; Dr. Fathima Fasmin, Assistant Professor, Department of Chemical Engineering; Dr. Maneesh Chandran, Assistant Professor Department of Physics and Dr. V Sajith, Professor, School of Material Science and Engineering detailed the advantages and scope of each stream.

The programme was conducted by Centre for Public Relations, Information and Media Exchange (C-PRIME) of NITC in association with different departments of the Institute. A total of 220 persons from different parts of the country registered for the programme.

FOSS Meet Conducted at NITC

National Institute of Technology Calicut hosted FOSSMeet'23, one of Kerala's largest events dedicated to Free and Open Source Software (FOSS), during February 2023. After a three-year hiatus, the institute's FOSS Cell and CSE Association, in partnership with Nilenso, FOSS United and the Free Software Foundation brought back the event. FOSSMeet'23 featured 14 speakers from all over India over the course of three days and conducted three workshops aimed at providing participants with a glimpse into the world of FOSS. Dr. V Sasi Kumar, Director of the Free Software Foundation of India, graced the occasion as a Keynote Speaker. The event saw many interactive sessions with professionals, including Dr. Deepika's talk emphasizing the integration of FOSS into systems and Mr. Gopikrishna's presentation on the use of AI to solve regional problems. Meanwhile, Mr. Andrew Bastin and Mr. Prasad Khake shared the journey of Hoppscotch and Paperd.ink, respectively, sparking the interest of budding enthusiasts who wanted a glimpse into the industry. The hands-on workshops on Rust, NeST, and Self Hosting gave students an insight into the practical aspects of FOSS. This edition of FOSSMeet witnessed an enthusiastic participation of over 130 people, comprising of students and working professionals. The event brought together individuals from diverse backgrounds, all with a common interest in FOSS, fostering a vibrant atmosphere of learning and exploration. A community-driven competition named place.git was also hosted, allowing participants to learn the basics of git while creating impressive logos and art in the process. FOSSMeet'23 was a resounding success, achieving its goal of spreading the knowledge and benefits of FOSS to a broader audience. The event hopes to continue reaching new heights in the coming years

COMMUNITY OUTREACH

NITC stall enthralls tech enthusiasts in DISHA Expo

National Institute of Technology Calicut (NITC) highlighted its technical prowess by actively participating in the Higher Studies Expo - DISHA 2023 organized from January 3 to 7, 2023 at Kozhikode Beach. The Expo was organized by the Career Guidance and Adolescent Counseling Cell of Higher Secondary Wing under the Directorate of General Education, Govt, of Kerala.

The details of various programmes offered by the Departments and Schools of NIT Calicut along with the opportunities for career growth were displayed. The admission procedure to the various Undergraduate, Postgraduate and Research programmes of the institute was highlighted for the benefit of the public.

One of the star attractions in the venue was the Electric Go-kart, designed by Team Unwired of SAE India Collegiate Club of NIT Calicut. A 3D printed prototype of a robot with three omni wheels and a robot with a mobile base equipped with four meccanum wheels to demonstrate the flexibility in the robot movement also drew large crowds to the stall. An Autonomous Underwater Vehicle equipped with various sensors to navigate and gather data in underwater environments was also displayed. The projects accomplished by the students of the institute were demonstrated so as to inculcate an interest and passion in school students towards engineering disciplines.

A total of 30000 people including students from various schools across the state, educationalists and ministers visited the stall during this period. The arrangement of the NIT stall was coordinated by the Centre for Career Development of NIT Calicut headed by Dr. Sajith V



National Level Workshop on 'Device Fabrication'

NIT Calicut organizes Hands-on training workshop on sophisticated instruments for materials and device fabrication and characterization

One-week long hands-on training workshop on sophisticated instruments for materials and device fabrication and characterization began at the National Institute of Technology Calicut on 14 th November, Monday. The program is organized by the Department of Physics, NITC, in association with Banasthali Vidyapith Rajasthan under the scheme Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI), which is supported by the Department of Science and Technology, Government of India.



COMMUNITY OUTREACH

NITC organized hands-on workshop for school students on modern Biotechnology techniques

The School of Biotechnology (SoBT), NIT Calicut organized a two-day workshop during 4th and 5th November 2022 for the higher secondary students of nearby schools. The workshop was organized under the scientific social responsibility of the research project titled “Investigation of cross-talk of gene regulation of L-sorbose and galactose metabolism in *Candida albicans*” granted by the Science and Engineering Research Board, Department of Science and Technology, Government of India to Dr. Mohammed Anaul Kabir, Professor of Biotechnology, NITC. The workshop was inaugurated by lighting of the traditional lamp by the Director of NIT Calicut Prof. Dr. Prasad Krishna in the presence of the Chief Guest Prof. Dr. P Jayadeva Bhat (former Professor, IIT Bombay), the Head of the School of Biotechnology Dr. Rathinasamy K, Professor Dr. Md.



Anaul Kabir the organizer of the workshop, other faculty members, students, research scholars and participants from 5 nearby Schools. The students showed an enthusiastic response and participated in a lively interaction with the speakers.



Symposium at Wayanad on the heritage of Kerala Varma Pazhassi Raja'

Reinventing The Lost Heritage of Pazhassi Raja’s, a symposium and poster exhibition to evoke the heritage of Kerala Varma Pazhassi Raja, freedom fighter known as the ‘Lion of Kerala’ was organized by the Department of Architecture and Planning, National Institute of Technology, Calicut, in collaboration with Vellamunda Grama Panchayath on November 5, 2022 at the Vellamunda Grama Panchayath Office, Manathavady.

The Symposium commenced with a welcome address by the Vice President of Vellamunda Grama Panchayath, followed by a series of talks by Smt. Sudhi Radhakrishnan, President Vellamunda Grama Panchayath, Mr. Justin Baby, President Block Panchayath, Manathavady, Mr. A N Prabhakaran, Member, District Planning Committee. Their speech appreciated and celebrated the great valor, guerrilla warfare specialities and contribution of Pazhassi Raja.





Academic Achievements 2022-23

Department of Civil Engineering

- Ms. Riya Pradeep won the IGS-AISAT Award 2022 for the best M.Tech. Thesis in Geotechnical Engineering in Kerala State, jointly instituted by the Indian Geotechnical Society, Kochi Chapter and Albertian Institute of Science and Technology, for her thesis entitled 'Landslide simulations and stability assessment of locally available massive soil slopes'. Dr. K. Ranga Swamy received a citation for the exceptional guidance to Ms. Riya Pradeep.
- Ms. Riya Pradeep and Ranga Swamy K won the best paper presentation award for the technical paper titled 'Landslide simulations and stability assessment of Puthumala hill soil slope in the Meppady region of Wayanad in Kerala' at the Indian Geotechnical Conference 2022 (IGC 2022), hosted by the IGC Kochi Chapter and CUSAT during the period 15-17 December 2022.
- Dr. Muhamed Safer Pandikkadavath received the best paper award for his paper titled 'Machine Learning (ML) Based Seismic Response Assessment of Special Moment Resisting Frames (SMRFs)', in the Second International Conference on Construction Materials and Structures (ICCMS-2022) held during 13-19 December 2022.
- Mr. Muhammed Navvar K received the best paper award for his paper titled 'Seismic Response Evaluation of Special Steel Moment Resisting Frame (SMRF) with Low Seismic Response Reduction Factor (R)' in the Second International Conference on Construction Materials and Structures (ICCMS-2022) held during 13-19 December 2022.
- Ms. Anjana R. Menon and Dr. Anjana Bhasi received the Best Paper Award for their paper titled 'Numerical Parametric Study on Time-dependent Response of Geocell Reinforced Flexible Pavements' in the 4th International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2022) held during 18-19 October 2022.
- Ms. Anjana R. Menon, and Dr. Anjana Bhasi, received the best paper award for their paper titled 'Time-dependent study of load transfer mechanism in geocell reinforced soil bed' in the Second International Conference on Construction Materials and Structures (ICCMS 2022) held during December 14-18 2022.
- Ms. Nayanathara O. S. and Dr. Aswathy E.V. received best paper award in the 7th International Conference on 'Recent Advancements in Chemical, Environmental & Energy Engineering', organized by Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Tamil Nadu, during 16-17 February 2023.
- Ms. Ashalakshmi V. M., Mr. Mithlesh Kumar, Dr. M. V. L. R. Anianeyulu and Dr. Sivakumar M. received the Best Paper Award for the paper entitled 'Effect of Pavement Roughness on Speed of Vehicles' in the 4th National Conference on Recent Advances in Traffic Engineering 2022 held at the Sardar Vallabhbhai National Institute of Technology Surat during 11-12 November 2022.
- Dr. Robin Davis P and his students received the best paper award in the International Conference on Climate Resilient Construction and Building Materials held at NIT Surathkal during 3-5 March 2023.
- Dr. Abinaya S. who completed her Ph.D. under the supervision of Dr. George K. Varghese, received the Best Outgoing Female Researcher Award 2023, jointly presented by the Research Forum NIT Calicut and CWSE, NIT Calicut.

Department of Chemistry

- Thasnim P Mohammed secured prize for oral presentation in international conference on "International Conference on Recent Trends in Materials and Magnetism (RTMM - 22)" from 15 & 16 December, 2022, organized by the Department of Chemistry, Loyola College, Chennai.
- Athulyadas secured third prize in poster making competition on the topic "Current research technologies (physical, chemical, biological, mathematical, computational, engineering etc.) in advancing frontiers of molecular genetics: Where does India stand?" on the occasion of Gregor Mendel's 200th year birth anniversary celebration held on 15 September, 2022, organized by school of biotechnology, NIT Calicut.

- Thasnim P Mohammed secured prize for oral presentation in international conference on "Emerging Frontiers in Chemical Sciences, EFCS - 22)" from 19 & 20 January, 2023, organized by the Department of Chemistry, Farook College (Autonomous), Calicut.
- Anjana Rajeev secured the best poster award at the national conference on "Frontiers in Chemical Sciences (FCS 2023)" from 1-3 February 2023, organised by the Department of Chemistry, University of Calicut."
- Athulyadas secured best poster award in the international conference on "Emerging Frontiers in Chemical Sciences, EFCS - 22)" from 19 & 20 January, 2023, organized by the Department of Chemistry, Farook College, Calicut.
- Athulyadas secured best oral presentation award in the national seminar on "Frontiers in Chemical Sciences, FCS - 2023" from 1-3 February 2023, organized by the Department of Chemistry, University of Calicut.
- Nesleena P. got the Best paper award (oral presentation) at the first International Conference on "Advancements in Materials, Manufacturing and Automation (AMMA- 2023)" organized by Amrita Vishwa Vidyapeetham Chennai
- Nesleena P. – First prize for Poster Presentation in Frontiers in Chemical Sciences 2023, organized by Calicut University, Kerala India.
- Rasha Rahman P. K. – First prize for Oral Presentation in emerging Frontiers in Chemical Sciences, EFCS 2022 organized by Farook College, Calicut, India
- Nesleena P. – First prize for Poster Presentation in 2nd International Conference (iCAM-2022) organized by Sathyabama Institute of Science and Technology, India
- Rasha Rahman P. K. – First prize for Oral Presentation in 2nd International Conference (iCAM-2022) organized by Sathyabama Institute of Science and Technology, India
- Rasha Rahman P. K. – First prize for Oral Presentation in World Sensor Congress 2022 organized by C-MET Thrissur

Department of Architecture & Planning

- Vishrut Goswami secured a spot as a finalist for the Sponsored Student Thesis Competition and Scholarship Award, which was sponsored by NIUA and NMCG. The award carried a sponsorship of Rs. 50,000.
- Ramjith K Jayan won the Logo Design competition for the Urban Youth Unit of NIUA in 2023.
- Bhavya, Mehrin, Rashi, Adeeb, and Hanan from Batch 2021-2026 were shortlisted by the Vaishnavi School of Architecture and Planning, Hyderabad, for ENVISAGE 2023.
- Zehba M.P. received the prestigious Commonwealth Split-site Scholarship in 2023, facilitating her studies on Gendered Mobility.
- Nina Lazar received the Best Paper Award from the Indian Institute of Architects at both the national level and the Kerala chapter.
- DAP students' design was among the top 50 works shortlisted for The Annual NASA Design Competition (ANDC) 2022 at the annual NASA convention.
- Abhiraj C was shortlisted for The Documentary Filmmaker Showcase in 2023.
- Dr. Kasthurba A. K's paper titled "Landslide and Human-Modified Landscapes - Kerala" was honoured with the Best Paper Award at the Academic World International conference held in Melbourne, Australia, in 2022.

Department of Electronics & Communications

- Bhanu Prakash Pebbeti published papers titled 'Deep Cleaner—A Few Shot Image Dataset Cleaner Using Supervised Contrastive Learning' in IEEE Access and 'DeepBindPPI: Protein-Protein Binding Site Prediction Using Attention Based Graph Convolutional Network' in The Protein Journal
- G. Roy, N. Mohan, S. R. V. C. Shubin presented a paper titled 'Generation of Synthetic Computed Tomography from Magnetic Resonance Images: A Literature Review' at International Conference on Power, Instrumentation, Control and Computing (PICC), Thrissur, India, 2023
- Shaik Thasheem Pasha secured All India GATE rank of 1444
- Rahul Ganesh S, Balabhadra Niketh, Somashekhar Dehury, Pranav Kandukuru became finalists in Ramaiah National Level Hackathon.



Academic Achievements 2022-23

Department of Electrical Engineering

- Dr. Harish Sudhakaran Nair Introduced a new core (theory + lab) course "Digital Control of Power Electronic Converters" for PG Power Electronics programme, delivered NPTEL video lecture on "Predictive Current Control Techniques for Power Converters" in collaboration with IIT Madras."
- Mr. Abin Dany Mathew, UG student under the guidance of Dr. Mithun M. S. received the best emerging researcher Award in International Conference on Sensing Technology 2022, organized by IIT Madras & Macquarie University Australia.

Department of Physics

- Surya Saradhi (B180976EP) secured the 2nd prize in the DRDO competition "Dare to Dream," the Sainya Ranakshetram competition by the Indian Army, and the All Kerala Exhibition, and also filed a patent.
- Ragisha C M (P190066PH) has a patent granted for the work entitled "System for inscribing patterns on metallic nanoparticles layer at Liquid-Liquid Interface and method thereof".
- Lekshmi B S (P180049PH) received the Best Oral Presentation Award at the "5th International Conference on Soft Materials" (ICSM-22) at MNIT Jaipur, India, the Best Poster Presentation Award at the "16th Complex Fluids Symposium" (ComFlu 2022) at IIT Kharagpur Research Park, Kolkata, India, and the Best Oral Presentation Award at the "First In-House Symposium, Confluentia 2023" at NIT Calicut, India.
- Farzeena C (P160081NS) was awarded the patent for their work titled "System for inscribing patterns on metallic nanoparticles layer at Liquid-Liquid Interface and method thereof" and also received the Best Poster Award at the International Conference on Advanced Materials and Mechanical Characterization (ICAMMC 2021) hosted by SRM Institute of Science and Technology, India.

School of Biotechnology

- Sirikar Sham Sunder was recognized as the Best NCC Cadet in 2022, while Sanandh Kumar achieved the 1st position in the Hackathon at the Code Innovation Series Hackathon organized by IncubateIND and GitHub.

School of Management Studies

- Bisna Chandran earned recognition in February 2023 by excelling at the District Level of Speak for India, Kerala Edition, and securing qualification for the zonal level. In October 2022, Bisna Chandran secured the 1st position in the District Level Youth Convention orchestrated by the Ministry of Youth Affairs and Sports and NYKS, earning the privilege of representing Kozhikode at the upcoming State Youth Convention. Additionally, Bisna Chandran's accomplishments extended to September 2022 with a triumphant first place in a debate competition organized by the Official Language Unit at NIT Calicut.
- Maya Manoj, achieved the CMA US scholarship in July 2023.

Department of Mechanical Engineering

- Dr. Basil Kuriachen secured SERB's SIRE fellowship to visit Auburn University, USA, 1st September 2022 to 28th Feb 2023
- Dr. Sujith Kumar C S has been awarded the SIRE Fellowship to work with Prof. Christos N. Markides at the Chemical Engineer Department of Imperial College London.
- Dr. Vinod Kumar Sharma secured a funding of Rs. 39,95,200/- from DST, Government of India for the Project on Sustainable Hydrogen production from wastewater through Hybrid Microbial-Photo-Electrochemical System and Purification through Metal Hydride Technology
- Dr. Sujith Kumar C S, Dr. Sudev Das and Prof. S. Jayaraj has received funding under the SPARC scheme in collaboration with National Taiwan University and National Chiao Tung University, Taiwan.
- Mr. Angkur Shaikkea, alumni of MED (B.Tech. ME 2011-15 batch) joined as Assistant Professor in the Department of Engineering, University of Cambridge.

- The paper titled "A blockchain-based platform for smart contracts and intellectual property protection for the additive manufacturing industry," authored by Abhiram
- Samad, V. D, Deepak Lawrence K, and Vinod Pathari has secured the Best Paper Presentation Award at IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2022 (SPICES 2022).
- Vipul and Dr A. Shaija secured 1st position in SHAASTRA RESEARCH CONFERENCE 2018, IIT MADRAS.
- As Chairman of CIIR, Dr. Jose Mathew played a pivotal role in securing around 24 MoUs with governmental entities and R&D organizations, a noteworthy achievement.
- Mr. Atul A P (M Tech, Thermal Sciences) secured first position in PG innovative projects in NIT Calicut in the year 2022-23.
- Shyam Mohan K P (MTech 2022) got Best paper award in the Third International conference on Advances in Physical Sciences and Materials (ICAPSM 2022), Coimbatore, August 18-19, 2022.
- Ajin, Trilokesh, and Abel's entrepreneurial spirit led them to launch a start-up company leveraging the knowledge and expertise gained from their B.Tech project work, which is an impressive achievement.

School of Material Sciences and Engineering

- Dr Geo Sebastian supervised by Dr Shijo Thomas was awarded PhD degree
- Dr Neeshma Radhakrishnan supervised by Dr C B Sobhan was awarded PhD degree
- Dr Antony Joseph supervised by Dr Sajith V was awarded PhD degree
- Dr Nubula. K supervised by Dr N Sandhyarani was awarded PhD degree
- Dr Shebeer A Rahim supervised by Dr Hanas T was awarded PhD degree
- Mr Lins Varghese, Mr Munawar M, Ms Shruthi S, Mr Syed Helal and Ms Ramya S Lakshmi were selected to pursue the final year of B.Tech at IIT Hyderabad as part of the Exchange Project
- Mr Sreehari Sreekumar, PhD Scholar at Ulster University visited SMSE as Visiting Research student during January-March 2023 as part of the Exchange program
- Mr. Gaius Cherian Mathew, PhD Scholar, SMSE and Mr Jyothish Shaji, M.Tech student, SMSE visited Ulster University during June-July 2023 as part of the Exchange program.

Department of Computer Science & Engineering

- B.Tech programme offered by the department got accredited for 6 years by NBA in 2022.
- PhDs completed: 52
- Patents granted : 1 titled A System And A Method For Trust-Based Intrusion Detection In A Distributed IOT System(Dr. Jimmy Jose, Ms. K N Ambili)
- Short term Courses/ Workshops/FDPs conducted: 5 days FDP coordinated by Dr. Anil Pinapati.
- Funded Projects : Rs. 227 Lakhs
- Paper Publication in Journals: 49
- Paper Publications in international journals: 16
- Dr. Murali Krishnan has been selected as Member of the Board of Studies for Computer Science & Engineering - APJ Abdul Kalam Technological University.
- Dr. Vineeth Paleri has been nominated as the academic representative for NIELIT Executive committee.
- Dr. Madhu Kumar S D has served as Member of the Board of Studies for the Department of Computer Science and Engineering and Allied Branches/Programs, of Sahyadri College of Engineering & Management, Adyar, Mangalueu for a period of 3 years i.e, 29.11.2021 to 28.11.2024.
- Dr. Abdul Nazeer K A played a lead role in submitting the proposal for the new M.Tech programme in Computer Science and Engineering with specialization in Artificial Intelligence and Data Analytics. Presently serving as the first Programme Coordinator of this new self-financing academic programme.



Research & Innovation 2022-23

Department of Civil Engineering

- Faculty of the Department of Civil Engineering published 60 papers in peer reviewed journals, and 10 book chapters. They presented 59 papers in International Conferences and 15 papers in Nationals Conferences.
- Dr. Jayachandran K. received a project grant of ` 36,16,500/- for his proposal titled 'Development of Ultra-High-Performance Concretes (UHPCs) for Road/ Bridge Infrastructure in Urban Areas' from the Kerala Highway Research Institute (KHRI).
- Dr. Yogeshwar Vijayakumar Navandar (PI) and Dr. K Krishnamurthy (Co-PI) received a project grant of ` 5,50,000/- for their proposal titled 'Sustainability Assessment of Inland Water Transport: A Case Study of Kerala' from the Kerala State Council for Science Technology and Environment (KSCSTE).
- Dr. Sathish Kumar D (PI) and Dr. Santosh G Thampi (Co-PI) received a project grant of ` 5,30,000/- for their proposal titled 'Investigations on the uncertainties in the reservoir inflow and flood forecasts based on Numerical Weather Prediction (NWP) precipitation forecasts' from the Kerala State Council for Science Technology and Environment (KSCSTE).
- Dr. Seethalakshmi P. received a project grant of ` 15,72,076/- for her proposal titled 'Influence of Bentonite and Biopolymer as Stabilizers on Micro-Mechanical Performance of Pre-crushed Micaceous Sand at Different Degree of Mica Particle Breakage under Varying Cyclic Loading Conditions', under the CRG scheme from DST-SERB.
- The Apex Committee of SPARC, Ministry of Education sanctioned a proposal submitted by Dr. Santosh G Thampi (Indian PI) and Dr. Saket Pande (International PI, TU Delft), titled "Development of Guidelines for Environmental Flow in a River Located in the Humid Tropics". The Co-PIs are Dr. Sathish Kumar. D. (India) and Dr. Pieter van der Zang (International - Delft University of Technology). The approved budget is Rs. 60,17,680/-.

Department of Chemistry

- Dr. Muniyandi Sankaralingam was awarded the Guest Researcher honor by University Paris City, France
- Dr. Mini Mol Menampambath is selected as a 2023 Rising Star in Materials Science by ACS Materials Au, United States
- Dr. Janardhan Banothu received International Best Researcher Award ISSN International Science & Technology Awards and Congress (IISTAC-2022) and Outstanding Research Award - 2023 in Vinus International Research Awards - 2023

Department of Architecture & Planning

The Department of Architecture and Planning contributed significantly to scholarly discourse, with 26 papers published in peer-reviewed journals. Their active engagement extended to esteemed international and national conferences, including the Academic World International conference in Melbourne, Australia, the 1st International Conference: Resilience by Technology & Design (UTD 2022) hosted by the University of Economics Ho Chi Minh City, Vietnam, the International Conference on Water and Environmental Management (WEM 2022), and the International Conference on Future is Urban - Urban Planning and Resilience, Nature Based Solutions, and Capacity Building organized by Nirma University, Ahmedabad.

- Dr. Bimal P. and Dr. Deepthi Bendi received a project grant of 2,940,000 from Respond, ISRO, for the proposal titled "Development of a model for the generation of high-resolution gridded population map."
- In 2022, the department collaborated with the Health Department of Kerala Government for the CHC Cheruvady project. With an allocated budget of Rs 6.56 lakhs, the project is currently ongoing and managed by Dr. Kasthurba AK, Dr. Deepthi Bendi, and Ar. Ritesh Ranjan.
- Led by Dr. Chithra K, Dr. Amritha P K, and Dr. Deepthi Bendi, the Community Health Centre Building for the Mukkam Municipality initiated in 2022 with a project value of Rs 30.09L., the project remains in progress.
- The department undertook the renovation and upgradation of Old and New Admin blocks at the NITC Campus in 2022

- with a project value of 2 Crore. Dr. Chitra K. leads this ongoing work with Ar. Ritesh Ranjan and other team members.
- The proposed development of the Administration Building C-Block at the NITC Campus is ongoing (with approval received and submitted for estimation) under the supervision of Dr. Chitra K and team.

Department of Electronics & Communications

- Dr. Sameer S. M. selected as the Chair for the Conference Quality and Management Committee of IEEE Region-10 (Asia-Pacific).
- Dr. Chandan Yadav selected as member in the Golden List of Reviewers 2022 - IEEE Transactions on Electron Devices

Department of Electrical Engineering

- Dr. Ashiq Muhammed P E received PPSA award (Doctoral Category) for best PhD thesis for the year 2022, jointly given by Grid India and IIT Delhi for the research on standing wave phenomena on transformer windings

Department of Chemical Engineering

- Dr. Panneerselvam Ranganathan and Dr. Sudev Das received research funding of Rs 170 Lakhs from various agencies like SHV Energy Netherlands, BPCL RD, DST-CRG, MHRD - SPARC etc.
- Dr. Panneerselvam Ranganathan, Dr. Subhasis Mandal, Dr. Aniruddha Sanyal are carrying out consultancy work on the Investigation of thermodynamic properties of H2 and CNG mixture for BIT Coopermatics (I) PVT LTD.
- MOU signed between the Department of Chemical Engineering and BPCL R&D
- Publications in reputed journals, International Conference proceedings exceed 100.
- Dr. Noel Jacob Kaleekkal, Assistant Professor was conferred with Kerala State Young Scientist Award – 2022, INAE Young Engineer Award (Chemical) – 2022, and IEI Young Engineers Award – 2023

Department of Mechanical Engineering

- Faculty of the Department of Mechanical Engineering published over 87 papers in peer reviewed journals, 37 international conferences, 2 books, 21 book chapters, and 10 Patents (filed/granted) and delivered over 30 expert lectures.

School of Material Sciences & Engineering

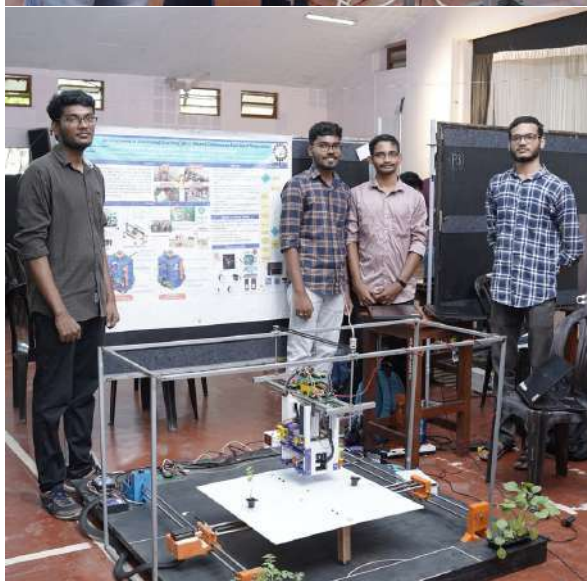
- SERB-TARE-Project titled 'Flexible, self healing and high power density supercapacitors based on Poly (3,4-ethylenedioxythiophene) (PEDOT) and PEDOT: PSS (poly(styrene sulfonate)) reinforced with polyhedral oligomeric silsesquioxane (nano-POSS)/Gold coated porous Silica decorated Multi walled Carbon nanotube (MWCNT)/Graphene' PI, Dr Ajalesh B Nair, Mentor-Soney Varghese
- Dr Shijo Thomas was sanctioned a sponsored project funded by KSCSTE titled "Carbon based hybrid nanomaterial in ionic fluids for CO2 reduction" for 19.58 lakhs.
- Dr Shyam Kumar C N was awarded the IGST-SING sponsored project "Fabrication and testing of low cost of in situ micro tensile tester for scanning electron microscopy" funded by Indo-German Center for Science and Technology for 7 lakhs
- Ms Amiya Rajugot selected for doing PG Thesis at Airbus India Engineering Centre, Bangalore
- Ms Balamurugan N got selected for doing PG Thesis at IGCAR, Kalpakkam

Department of Computer Science & engineering

- Research project sponsored by BPR &D for Dr. S D Madhu Kumar titled Proactive Monitoring of Online Social Network for Prevention of Crime Against Women and Children (PMOPGwC)
- Research project sponsored by SERB Dr. Priya Chandran titled Project on Design and Development of a Techniques and Tools to Build a Simulation Framework for Performance Evaluation of Designs of Processors Enhanced for Virtualization
- Research project sponsored by SERB (MATRICS) for Dr. Arun Raj Kumar P titled Towards Solving a Trajectory Planning Problem for Unmanned Aerial Vehicles (UAVs) to a Computationally Efficient Algorithm
- Dr Abdul Nazeer K A, produced two Ph.Ds during the year 2022-'23, and received more than 500 citations for a research paper published in the World Congress on Engineering held at Imperial College, London in 2009.

Research & Innovation 2022-23

- Research project sponsored by DST -SERB for Dr. M. Prabu titled A long Term Solution : Fuzzy Logic Based Image - Acoustic Classification to Detect the Elephant Movement Patterns in Hosur Forest Area to avoid Human Elephant Conflicts (3 years)
- Research project sponsored by DST – ICSSR Dr. M. Prabu titled Initiative to Resolve Socio Economic Issues of the Marginalized Transgender Community through Fuzzy Cognitive Mathematical Model Approach in and around Kozhikode(2years)
- Research project sponsored by SERB for Dr. Jay Prakash titled Design And Development of A Deep Learning Based Online-Assistance System for Psychologists By Transforming Patient Transcripts to Speech with Emotions Using Text to Speech Synthesis
- Research project sponsored bySERB for Dr. Pranesh Das titled A Prototype for Intelligent Coconut Harvester: An Application to Artificial Intelligence (AI) and Internet of Things (IoT)
- Research project sponsored by SERB Dr. M. Prabu titled A Step towards Smart City Environment: A Reinforcement Learning Based Intelligent Traffic Control for Transportations system for Smart Cities of Kerala



INNOVATIONS

- Dr. Anand Raj, Dr. Praveen Nagarajan, and Dr. Shashikala, A. P. received the Indian patent for their work on ‘Steel Fibre Reinforced Rubcrete Prestressed Concrete Railway Sleepers’ (Indian Patent No.: 440975).
- Dr. Praveen Nagarajan, Dr. Saranya P., and Dr. A. P. Shashikala received the Indian patent for their work on ‘Ground Granulated Blast Furnace Slag-Dolomite Geopolymer Concrete Blocks’ (Indian Patent No.: 434837).
- Dr. Sindhu T.K has filed a provisional patent.
- Dr. Ashique Muhammed P E has filed a patent " Planar Printed Circuit Board Winding Architecture to Reduce DC Resistance"
- Dr N Sandhyarani was awarded a patent (No:429867) for the innovation titled “A Low-Cost Portable Electrochemical Biosensor for Rapid Detection of Endotoxin and Method Thereof”.
- Dr Shijo Thomas and Mr Sumanth S filed a provisional patent titled “Variable ribs design thickness approach for effectively improving the thermo-hydraulic performance of the fluid flow channel at higher Reynolds number” with application number 202241043843 on 1/8/2022
- Mr. Renju Mohan (P150023ME), Dr R. Manu, Dr Jayadeep U. B. Multi-Mode Friction Stir Welding Tool, 2023
- Dr. V. Madhusudanan Pillai Developed a Skelton prototype of Blockchain enabled IoT (BIoT)-based Traceability System for Pharmaceutical Supply Chains.
- Mr. Amudhan. A.N & Dr. Sudheer. A.P, A Hypermetropic Convolutional Neural Network Device For Small Size Object Detection And A Method Thereof, 2022
- Mr. Amudhan. A.N, Mr. Lijiya A and Dr. Sudheer. A.P, CNN Based Method And System For Real-Time Object Detection With Feature Reuse And CSP Net To Reduce Computations, 2022
- Mr. Alok Kumar Samanta and Dr.G Varaprasad, Mudra Prabha, 2022
- Dr. Sudheer. A.P, Mr. Ajin, Mr. Hariram Sankar, Mr. Murali Gopal and Mr. Thomas Joseph, Deployable Retractable Prefabricated Building Structure, 2022
- Dr. Sudheer A P, Dr. Vineesh K P, and Mr. Deepak Kasindi, Automated Robotic System for Cleaning Railway Tracks, 2022
- Dr. Sudheer A P, A Hypermetropic Convolutional Neural Network Device For Small Size Object Detection And A Method Thereof, Patent Granted No. 2022/05778, 2022
- Dr. Sudheer A P, CNN Based Method And System For Real-Time Object Detection With Feature Reuse And Csp Net To Reduce Computations, Patent Granted No. 2022/06075, 2022

Achievements in Sports 2022-23

All India Inter NIT Athletics and Basketball was held at MNIT Jaipur from November 17-20, 2022

The NIT Calicut Mens Athletics team finished Runner up in the All India Inter-NIT Athletics conducted by MNIT Jaipur from November 17-20, 2022.

GOLD:

1. Irshad Ibrahim B190293PE, the captain of NIT Calicut, won gold in the Long Jump with a meet record jump of 6.20m.

SILVER:

1. Adil K B200215EE secured Silver Medal in 400m.
2. Karthik B B200718CS secured Silver Medal in High Jump.
3. Athira Suresh B200545CE secured Silver Medal in Triple Jump.

BRONZE:

1. Ali Faisal B210426CE secured Bronze Medal in Shot Put & Discus Throw.
2. Ananthkrishnan M B200712CS secured Bronze Medal in Triple Jump.
3. Sandrima G B191178ME secured Bronze Medal in Triple Jump
4. Irshad Ibrahim B190293PE, Anooj Anil P B200429CH, Adil K B200215EE, Ananthkrishnan M B200712CS secured bronze in 4*100m Relay Men
5. Mathushika Murugiah B201309CE, G Sandrima B191178ME, Athira Suresh B200545CE, Shreyasi Saha B210553CS secured bronze in 4*100m Relay Women.



Achievements in Sports 2022-23

All India Inter NIT Table Tennis and Chess held at NIT Silchar from November 18-20, 2022

The NIT Calicut Women's Table Tennis team finished second runner up in the All India Inter-NIT Table Tennis Tournament conducted by NIT Silchar from November 18-20, 2022.

Pamula Sai Shritha B200616CE, Shimaila Praveen B210381CE, Anjana Unnikrishnan E B190749EP, Bhawna Gupta M210496EE were part of the women's team.

Aparna Prasad B200518CE won Gold Medal in individual category in the Chess Tournament



All India Inter-NIT Hockey and Handball tournament organized by NIT Calicut from 6th to 8th Jan 2023

The tournament was inaugurated by Dr. Sathidevi P S, Deputy Director, NIT Calicut followed by a march past of more than 320 students from 14 NITs from all over the country. The gathering was addressed by Dean of Students' Welfare, Dr Rajanikant G K and the athlete's oath taking ceremony was led by NITC Sports Secretary, Irshad Ibrahim.



Inaugural Ceremony



Hockey (M) Runner Up



Handball (M) Runner Up



Handball (W) Champions

All India Inter NIT Cricket and Power sports held at SVNIT Surat from February 16–19, 2023

The NITC Body Building team placed Overall First Runner-up in the All India Inter NIT Body Building and Powerlifting Competition 2022–23 held at SVNIT Surat from Feb 16-19. The detailed results are as follows;

NIT Calicut secured 2 Gold, 1 Silver and 1Bronze medal in the competition.

Body Building

1. Lijith (Under 65 category) – Gold
2. Pradeep (under 74category) - Silver
3. Akhileesh (under 60 category) - Bronze

Powerlifting - Sagar Singh (90+ Weight category) – Gold



Achievements in Sports 2022-23

All India Inter NIT Volleyball, Kabaddi and Yoga was held at NIT Surathkal from January 20-22, 2023



The Men and Women Yoga team won the second runner-up spot in their competition. The men's volleyball team played outstandingly, winning matches against NIT Andhra Pradesh, NIT Patna, NIT Surat, and NIT Jalandhar en route to the championship match against NIT Mizoram. The team finished the series in Second place after scoring 26-24, 19-25, 23-25, and 25-27 in the nail-biting sets, respectively.



Men's volleyball team



Choppara Avinash won the title of Best All-Rounder in the volleyball tournament.

All India Inter NIT Football, Kho-Kho and Swimming was held at NIT Rourkela from February 10–12, 2023.

The NIT Calicut Swimming Team of 8 members finished up with 7 medals in the All India Inter-NIT Swimming competition held at NIT Rourkela from Feb 10-12, 2023. Deepilli Sujay, the team captain for swimming, won four medals, and Sarah, the only female representative of the institute, won two medals.

1. 50 Freestyle - Deepilli Sujay - Gold
2. 100 Freestyle - Deepilli Sujay - Gold
3. 50 Butterfly - Deepilli Sujay - Bronze
4. 400 Freestyle - Sarah - Silver
5. 200 Freestyle - Sarah - Bronze
6. 200 Freestyle - Zacharia - Bronze
7. 4*50 Freestyle team relay - Bronze - Zacharia , Krithik, Reuben & Sujay





Centre for Information Technology Research and Automation : CITRA

CITRA is the Multidisciplinary Research Centre Established in March 2022 with focus on Training, Research and Consultancy in the area of Information Technology. The vision of CITRA is to elevate NIT Calicut to the smartest T- School in the country through intelligent and automated IT Enabled services in a sustainable manner for all academic, research, co-curricular and outreach activities. Here is a brief report of the activities of CITRA during the period (September 2022-September 2023).

I. IT Infrastructure Development

1. Added eleven workstations and one server class machine in the Central Computer Centre (Appx. Cost: Rs. 31 lakhs).
2. Campus Connectivity: Upgraded the Bandwidth of the Internet connection to the campus from 1.01 Gbps to 5 Gbps.
3. Purchase and installation of Core Switches for upgrading the switching network of entire campus (Appx. Cost: Rs. 2.45 Cr)
4. Purchase and installation of Smart Rack (Appx. Cost: Rs. 47 Lakhs)
5. Upgraded nearly 450 Network switches with modules from 100 mbps to 1 Gbps (Appx. Cost – Rs. 90 Lakhs)
6. Upgraded all fiber links in campus to support 10Gbps from Core Switch by changing 120 Network Switches (Approx. Cost: Rs. 40 Lakhs)
7. Purchase and Installation of Video Conferencing Setup in Board Room and Senate Halls (12L)
8. Purchase and installation of Server Class Machines for institute firewall (Apprx. Cost : Rs. 10 Lakhs)
9. Installation and configuration of the backup intercom PBX Server using Open Source FreePBX software.
10. Purchased nearly 200 CCTV cameras and installation in various locations are in progress.

II. Automation Projects (Software developed)

1. Online Portal for faculty recruitment
2. Online Scrutiny portal for faculty recruitment
3. Online interface for selection board members for the faculty recruitment
1. Online portal for Distinguished Alumni Award applications
2. Online Portal for Adjunct Faculty, Visiting Faculty and Professor of Practice
1. Academics module of IMS
2. Software for the Non-Teaching Staff recruitment
3. Meeting Room Booking Management System



III. Continuing Education and Outreach Activities

1. Hosted online examinations for JEE Main, UGC NET, CUET
2. Hosted Online examination for Kerala Police Officers promotion Test
3. Conducted Workshop on IBM Cloud Essentials (Around 250 students participated)
4. Organized an interactive session on with Dr. V.P Joy, Chief Secretary of Kerala on 14th January 2023.





Centre for Innovation Entrepreneurship and Incubation: CIEI

The Centre for Innovation Entrepreneurship and Incubation (CIEI) is an initiative by NIT Calicut from the year 2022, to foster innovation and entrepreneurship culture among the student, faculty and staff to enable them to transform their innovative business ideas into reality. The centre aspires to develop individual talent, skills and personality to give each business the best possible start, thus fostering entrepreneurship at a local, National/International level. CIEI has formulated various schemes like Student Innovative Project Scheme (SIP), Start up Schemes for Faculty, staff & students (SSFS) with the help of Design Innovation Centre (DIC), Institute Innovation Cell (IIC), Institute Patent Rights (IPR) Cell and Technology Business Incubator (TBI).

Student Innovative Project Scheme (SIP)

strengthened the Research & Development (R&D) activities amongst the Under Graduate /Post Graduate students by providing financial assistance to meet the expenses related to software development, fabrication /assembly charges, consumables and contingency/minor equipment. About 25 lakhs was spent on such projects during 2022-23 which resulted in filing of 21 patents and 1 start-up business by students incubated at NIT Calicut.

Institution's Innovation Council (IIC) has been actively engaged in a myriad of initiatives orchestrated by the Ministry of Education's Innovation Cell (MIC) and the AICTE. IIC-NIT Calicut has orchestrated numerous programs steadily contributing to the nurturing of a vibrant innovation ecosystem. Under the aegis of IIC 4.0 and IIC 5.0, a comprehensive line-up of 55 activities as per the IIC calendar, 36 activities directed by MIC, 18 self-driven activities, and 21 celebratory events have been meticulously conducted by IIC NITC. The fold of faculty innovation ambassadors has expanded to 38, while the ranks of innovation student members have surged to 57, reflecting the growing engagement and enthusiasm. The multifaceted initiatives spearheaded by IIC have fostered a robust and dynamic innovation landscape within the Institute. Based on the activities conducted during IIC 4.0, IIC – NITC was awarded with a four-star rating

Institute Patent Rights (IPR) Cell in collaboration with various agencies (India Patent office, NIPAM, KSCSTE, etc.) conducted periodic workshops and training programmes to understand the significance of inventiveness in research and inform the mechanisms for obtaining IPRs. In addition, the cell is in the process of establishing an Intellectual Property Management System (IPMS) to improve the flow of potential patents by speed tracking patent decision processes, valuation of patent, and determination of

optimum set of conversion mechanisms for value extraction from patents. The cell also helps activities for transferring the industry ready technology developed. Around 7 patents were granted and 32 patents were filed during 2022-23.

Design Innovation Centre (DIC) has a micro fab lab consisting of NEXTENGINE 3D Scanner, CNC Milling machine, Laser cutting and Engraving machine, 3D Printer etc. DIC has conducted workshops for stakeholders on various topics like XLMILL machine programming, IPR etc. DIC filed three patents, two of which are in final stages of approval.

Start up Schemes for Faculty, Staff & Students (SSFS) of CIEI offered various regular elective courses for students in Design thinking, Business Models, IPR, Technology Entrepreneurship, Social Entrepreneurship and conducting short term training programmes for faculty/staff in Entrepreneurship development in their subject areas. As a result, 6 start-ups were well-established in collaboration with 3 faculty members while 5 start-ups are in the pipeline with 6 faculty members as mentors in the upcoming years.

Technology Business Incubator (TBI) has given incubation support to 102 startups so far, providing funding, mentoring, technical and managerial training as well as infrastructure support. More than 1400 people have been employed by all the incubated companies. During the last three years, 34 innovators are supported through the NIDHI-PRAYAS scheme giving each prototype grant up to 10 lakhs. TBI has also taken up consultancy services like cluster development for the coir societies in Balussery, Calicut under Coir Board. TBI at NITC also conducted entrepreneurship development programmes, including special programmes for women entrepreneurs and has given training to almost 800 people including 200 women, leading to a successful rate of 65%.



Centre for Industry – Institutional Relations: CIIR

NIT Calicut has been involved in many activities connected with industry and academia in terms of MoU, collaborative projects, workshops, etc. During the last one year, 24 MoUs were signed with Govt. and private institutions like Medical Colleges and allied Institutions such as Govt. Medical College Kozhikode, Sree Chitra Institute of Medical Sciences (SCTIMST) Thiruvananthapuram, KMC, Manipal, etc. The organizations which were connected with NIT Calicut through MoU are CIPET Chennai, IIT Madras, UVJ Technologies Pvt. Ltd (Calpine Group Enterprise), Kochi, ZEROEARTH Pvt Ltd., Thissur, IIT Palakkad, SCTIMST, Thiruvananthapuram, KILA, Govt. of Kerala, IIT Hyderabad, CWRDM, Govt. of Kerala, KMTC, Govt. of Kerala, INUP-i2i IISC Bengaluru, ARCI, Hyderabad, SCTIMST, Thiruvananthapuram, CPRI, Bengaluru, BIS, New Delhi, KMCT Dental College, Kozhikode, KMCT Medical College, Kozhikode, Bosch -BGSW, IIITDM Kurnool, Quazar Technologies, New Delhi, Umanage Hydrogen Pvt. Ltd, Ahmedabad, C-MET, Thrissur. A Major event of Workshop was conducted in NIT Calicut in partnership with KMTC to boost medical technology research. Over 130 delegates including heads of major hospitals, medical colleges, and about 50 doctors from Govt. Medical College Kozhikode took part in the event. 5 Eminent Professors from IIT/IISc agreed to work with NIT Calicut as Adjunct faculty (Professor) and 4 Industry experts to join NIT Calicut as Professor of Practice. More than two dozen experts from industry/academics/working professionals/clinicians are associated with NIT Calicut as Co-teachers in various departments.



Centre for Quality Assurance and Enhancement: CQAE

The Centre for Quality Assurance and Enhancement has taken up multifaceted activities to realize this vision during the academic year 2022-2023. The Centre has taken up the activities relating to the accreditation of the Undergraduate and Postgraduate programmes of the Institutes, by the National Board of Accreditation, during the academic year 2022-2023. Undergraduate programmes in Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Production Engineering and Chemical Engineering were awarded accreditation for a period of six years, which is the maximum period of accreditation awarded by the NBA for a programme. The Undergraduate programme in Biotechnology was awarded accreditation for a period of three years. Moreover, the Postgraduate programme in Telecommunication was awarded a six-year accreditation, while the postgraduate programme in Energy Engineering and Management was accorded three years accreditation. The Centre also took proactive measures to collect data for the NIRF Ranking framework. Moreover, a committee headed by Prof. Ravi Varma was constituted to take up a performance audit of high-value equipment in all the departments, schools and centers of the Institute. In order to sensitize the faculty of the Institute on various challenges in modern education methodologies, an expert talk by Dr. Elizabeth Elias, Professor (Retired), Department of Electronics and Communication Engineering, NIT Calicut was conducted on the topic "Outcome Based Education". Dr. C R Muthukrishnan, Professor (Retd.), IIT Madras, delivered an online talk on the topic "How to frame Good Course Outcomes".



Centre for Public Relations, Information and Media Exchange: C-PRIME

The Centre for Public Relations, Information and Media Exchange (C-PRIME) envisions to ensure proper assimilation and dissemination of information about NITC. The activities of the centre include liaison with the media world, publication of Institute Brochure and Newsletters, maintenance and management of information on the Institute website, fostering public relations etc. Media Cell is a subsidiary wing of C-PRIME, which aims to convey information about various events, achievements and activities of the Institute to the outside world through the print, electronic and social media platforms so as to enhance the visibility and improve the perception about the Institute. We are committed to establishing and maintaining a cordial, fruitful and mutually beneficial relationship with the media world.

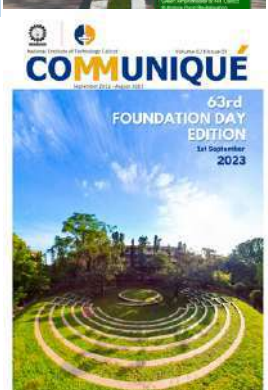
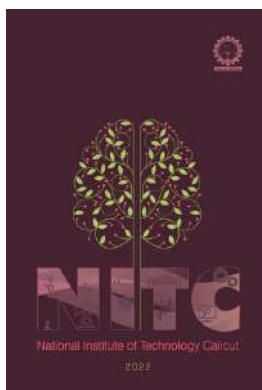
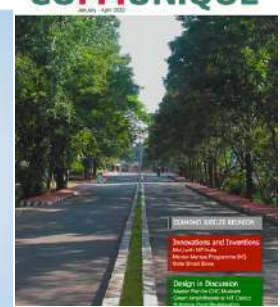
- Published the Institute Information Brochure and an enthralling First Year UG brochure “SWAGAT” for the year 2022-23.
- As part of its community outreach and public relations initiatives, C-PRIME organized
- DISHA-2023, a unique online guidance programme for the Engineering aspirants.
- Visits of students and teachers from various schools and colleges to NITC, which served to inspire the young generations.
- Published the First Year UG Brochure “SWAGATHAM” for the year 2023-’24.
- Published the 63rd Foundation Day Edition of the Institute Newsletter “COMMUNIQUE” in September 2023.

C-PRIME Activities During Sep. 2022 - August 2023

- The Media Cell of C-PRIME communicated information about the various events, activities and achievements of NITC to the outside world for publication in print, visual and social media platforms.
- Our Institute received unprecedented coverage in various media in the recent past as a result of unwavering efforts from C-PRIME
- Published the Institute Brochure, Newsletters and Flyers/Handouts of various events organized by the Institute.
- Played the lead role in redesigning and launching the new website of NITC
- Published an amalgamated report of the Institute’s 18th Convocation (CONVOCAION REPORT), which was held on September 3, 2022.
- Published the first issue of the Institute Newsletter “COMMUNIQUE” in September 2022, which showcased the dynamic research and consultancy activities, industrial collaborations, research accomplishments, and remarkable recognitions of NITC Fraternity.



CONVOCAION REPORT





Centre for International Relation and Foreign Languages: CIRFL

The Centre for International Relation and Foreign Languages (CIRFL) has made a huge contribution in collaborating with the foreign academic and industrial organizations. A Sponsored Project titled CapsNetwork - International Network for Capsule Imaging in Endoscopy was funded by Research Council of Norway (RCN), for a duration of 5 years. Dr. M. Sankaralingam had been invited by the Université Paris Cité, France, to work with Prof. Marc Robert, Department of Chemistry at Université Paris Cité. Dr. Vinay Joseph has a consultancy project with PhyTunes Inc USA related to developing advanced wireless/wireline connectivity solutions. An MoU between NIT Calicut and Royal Melbourne Institute of Technology (RMIT), Australia, was signed in Melbourne. A MoU between NIT Calicut and Mahatma Gandhi College of Mass Communication (MAGCOM) was also signed. An MoU between NIT Calicut and the Faculty of Information Technology and Electrical Engineering of the Norwegian University of Science and Technology (NTNU) was signed for 10 years. CIRFL launched a Japanese language Certificate program jointly with Japan Foundation (JF), New Delhi, which was designed as a 93 hours instruction-based contact program focusing on Katsudo and Rikai for registered participants. A batch of 14 students from NITC completed the Japanese Language Course.

CIRFL along with the Department of Architecture and Planning, NIT Calicut hosted Professor Rajib Shaw from Kieo University and India Japan Lab to share a vibrant exchange of ideas and experiences. The French Embassy in India personnels such as Mr. François-Xavier Mortreuil, Attaché for Scientific and Academic Cooperation, Ms. Lucille Guillet, Officer for Science and Academic Cooperation, Dr. Oindrila DE, Officer for Scientific Affairs, and Mr. Sabari Kishor, Manager of Campus France attended an interactive session on "Higher Studies and Research Opportunities in France" for students and faculty members. Dr Keith Simons, Head, Research and Development, Sustainable Fuels, SHV Energy, Netherlands and Mr Pravesh Kumar Chauhan, Sr. Executive Innovation, Supergas, India, visited the Department of Chemical Engineering, National Institute of Technology Calicut as a part of SHV Energy Sustainable Open Innovation Challenge Award won for the proposal of bioLPG (propane) from Paddy Straw by Dr Panneerselvam Ranganathan. A Talk on "Spacecraft Autonomy: Current Research (including Artificial Intelligence and Big Data Analytics) and Future Challenges". Consulate General of Japan, H.E TAGA MASAYUKI visited NIT Calicut (NITC) as part of the event organized by CIRFL to focus on promoting cultural and academic exchange between India and Japan.

A brainstorming session on the possibilities of starting a program on International media studies was given by Dr. T P Sreenivasan. A talk on 'Development of Chemical Microsorbent Devices for Detection of Diseases' was delivered by Dr Chiranjit Ghosh from the Division of Infectious Disease, Harvard Medical School, USA. Prof. Will Cantrell from Michigan Technological University (MTU), USA, visited NITC.

A collaborative project on 'Federated Learning for Cancer Research' with MVRCCRI and Maastricht University/Maastro Clinic, Netherlands is ongoing headed by Clinical Data Scientist and Medical Physicist Dr Andre Dekker. The Honourable Union Minister for State for Electronics, Information Technology, Skill Development and Entrepreneurship, Shri. Rajeev Chandrasekhar visited NIT Calicut for a "Fireside" chat with NITC students. P A Muhammed Basheer, a distinguished Professor and Chair in Structural Engineering at the University of Leeds, United Kingdom, visited NITC and delivered a lecture titled 'Developing and delivering a vision to become internationally leading in academia'. Shri. V. Muraleedharan, Honorable Minister of State for External Affairs and Parliamentary Affairs visited NIT Calicut inaugurated the office complex for the newly established multidisciplinary centers, laid the foundation stone for an International Hall of Residence and officially launched an international seminar on the theme of 'Internationalisation of Higher Education in the light of NEP 2020' at the NITC campus. Dr Arantza Aldea and Dr Mahak M from Oxford Brookes University (OBU), facilitated by the British Council Exploratory Funds, visited NIT Calicut and delivered talks to identify possible teaching and learning collaboration and potential research collaboration opportunities with NIT Calicut.

As a result of the research collaborations of NITC researchers in CSED with MVRCCRI and Maastricht University, Clinical Data Scientist and Medical Physicist Dr. Andre Dekker and his colleague Dr. Leonard Wee of Maastricht University/Maastro Clinic, Netherlands, visited NITC along with researchers from MVR Cancer Centre. Dr. Olusola Akinrinola, INSA-JRD-TATA Fellow mentored by Prof. P. Predeep, Physics Department visited NITC for a short duration. Open-house with the visiting Professor Dr. Thomas Goetz from Koblenz University Germany for aspirants of NITC community was conducted to forge academic relations or higher studies. Mr. Jackson Ondiko mentored by Dr. Sujith Kumar C S, MED, visited NITC under a Indo-South Africa bilateral project. High-level delegation was led by Dy. Director to Israel to study academia-startup ecosystem interaction.



Centre of Excellence in Logistics and Supply Chain Management: CoELSCM

The Centre of Excellence in Logistics and Supply Chain Management (CoELSCM) has organized several programmes and outreach activities in NIT Calicut during 2022-23. During 'Amrit Kaal', NIT Calicut strived its best to meet the mandate of training 1000 students and working professionals in the domain of Logistics and Supply Chain Management. The Centre was actively involved in organizing short term courses, elective courses, internships and joint research collaborations in Logistics and Supply Chain Management. The Centre has been organizing various activities under various themes as mentioned below. Academic activities – 'KUSALA', Knowledge Upskilling in Supply chain management And Logistics for Atma Nirbharta for Skilling, Upskilling and Reskilling the youth and working professionals under PM Gati Shakti; Internship Programme – 'PRAGATI', Practical, Research-Driven, Advanced Gati Shakti Aligned Technology Internship to inculcate the research aptitude among students and insights about social logistics; Joint Collaboration - 'JAITRA', Joint Academic Initiative Towards Remarkable Achievements with CoELSCM to establish collaborations with academic institutions and industries for formulating innovative solutions in logistics and supply chain; Execution of activities - 'SAMARTHs', Student Ambassador for Multi-perspective Activities Related to logisTics and supply chAin for leadership development and community engagement. A student newsletter titled, 'PRAGYA', Publications Related to Activities in loGistics and supply chAin has also been published.

Prof. Prasad Krishna, Hon. Director, NITC and Members of the Centre attended an Online meeting on Capacity Building for PM GatiShakti Master Plan under the Chairmanship of Shri. K Sanjay Murthy, Secretary, Higher Education, Ministry of Education, Govt. of India. The Centre launched a Webinar series on "National Logistics Policy: Shaping Indian Logistics for improving Competitiveness" on various topics such as "Opportunities and Challenges of Rail Freight Operations in India" by Shri. Siva R., Deputy Chief Operations Manager Freight, Southern Railways; "National Logistics Policy: Opportunities in Maritime sector" and "Introduction to Gati Shakti" by Mr. Rajesh Menon, Maritime Expert, Technical Support Unit, PM Gati Shakti, Ministry of Port Shipping and Waterways, Govt. of India; "Port Management: Port Operations, Importance and role of the Port sector – Challenges faced by Port Management" and "Port Performance Evaluation and Benchmarking" by Dr. C. Unnikrishnan



Prof. Prasad Krishna, Director, NITC, at the session on Capacity Building in the Logistics Sector through PM Gati Shakti National Masterplan

Nair Head, Maritime Logistics - Logistics Sector Skill Council Former Chief Manager (Operations), JNPT, Mumbai; "Development of Ports & Shipping in India" and "Container Traffic & Logistics Cost" by Dr S V Madabhavi Director, Vadhavan Port Project Ltd; "Port Planning and Engineering" and "Environmental Process for Port Project" by Dr S V Madabhavi Director, Vadhavan Port Project Ltd; "Port Management" and "Green Shipping" and "Port Performance Evaluation and Benchmarking" by Mr. Rajesh Menon; "Economic Evaluation of Minor Port Development - A Case Study" by Dr. M. V. L. R. Anjaneyulu, Professor & Head, Centre for Transportation Research (CTR), NIT Calicut.

As part of KUSALA activities, three numbers of AICTE Training and Learning Academy (ATAL) Sponsored Faculty Development Programmes on PM Gati Shakti Thrust areas titled "Digital Supply Chain Management"; "Decision Modelling in Transportation and Logistics Industry"; "Strategic Management in Rail and Road Transportation System" coordinated by Prof. V. Madhusudanan Pillai, Dr.Hiran V Nath, Dr.Harikrishna M. and Dr. Vinay V. Panicker. Two 1. A Short Term Online Certification Course on "Port Development, Operations and Management" and "Warehouse Automation" were organized along with a six weeks online certification course on "Logistics and Supply Chain Management" in NITC coordinated by Dr.Yogeshwar Vijaykumar Navandar, Dr. Nishant Mukund Pawar, Dr. Pradeepmon T. G., Dr. Ratna Kumar K. and Dr. Vinay V. Panicker. A Five-day Online Skill Development Workshop on "Disaster Responsive Humanitarian Logistics (DREHL) 2023" and four numbers of One-week online Short Term Training Programme (STTP) titled "Applications of MCDM Methods in Logistics and Transportation Engineering (MMLT 2023)", "Digital Supply Chain Management", "Recent Advances in Freight Transportation", "Smart Mobility and Research Trends (SMART 2023)" were organized as part of this center by various faculty members. A number of UG and PG courses were offered by CoELSCM at NIT Calicut which are aligned with the objectives of PM Gati Shakti. The title of the courses are Port Management, Multimodal Transportation Systems, Warehouse Automation, HealthCare Supply Chain, Humanitarian Logistics, Transportation Systems and Network Design, Retail Supply Chain Management, Supply Chain Management, Supply Chain Operation Simulation, Transportation Planning, Inventory and Supply Chain Management, GIS and Spatial Analysis, Advanced GIS.

14 students completed the Student Internship Programme for a duration of two months as part of PRAGATI activities. The center appointed seven students as Student Ambassadors who are designated as SAMARTH (Student Ambassador for Multi-perspective Activities Related to logisTics and supply chAin).The first edition of the student newsletter titled, 'PRAGYA', Publications Related to Activities in loGistics and supply chAin was released. The center also conducted an Online Discussion with a Team @Adani Group for Academia Industry Research Collaboration titled JAITRA (Joint Academic Initiative Towards Remarkable Achievements).



Centre for Indian Knowledge Systems: CIKS



The Centre for Indian Knowledge Systems (CIKS) conducted various Conferences/Summer/Winter School/Short term Courses/ Workshops over the academic year 2022-23. Workshop on Linguistics was conducted by Prof. Vinayk Rajat Bhat, Chanakya University, Bangalore. Expert lectures on the topic "Relevance of Swami Vivekananda's Views for Self-Reliant Bharat" by Swami Narasimhananda, Secretary, Ramakrishna Sevashram, Calicut, lecture on "Building World-class "Valuable" Start-ups and Companies in India: Learning from our Amazing Heritage for our Amazing Future" by Sri. Sanjay Vidyarthi, CREC Alumnus and Founder, Bharat to India Connect (B2Ic) was organized by CIKS. The center celebrated Indian Philosopher's Day in presence of Swami Narasimhananda, Secretary, Ramakrishna Sevashram, Calicut. Three days workshop was conducted by Swadeshi Science Congress jointly with Swadeshi Science Movement Kerala with Focal Theme "Holistic Approach for a Sustainable Lifestyle – Perspectives from Indian Knowledge System" as well as Workshop series on the topic "Lessons from the Indian Epic Ramayana for Professional and Personal Excellence" along with a competitive Quiz on Ramayana in NIT Calicut. Dr. R. Sridharan delivered an expert lecture on SIKER: School on Indian Knowledge System and Engineering Research at

IIIT Kottayam. Research Scholar of NIT Calicut, Ms. Athira S. B. successfully completed the AICTE's IKS Internship on a project titled "Assessing the cultural dimensions in the sustainable built environment: development of a framework based on Indian Knowledge Systems with specific reference to residential architecture". Dr. Anjana Bhagyanathan, Dr. Ramesh Krishnamurthy, Dr. A.Srivatsan, Dr.Chithra K, Dr.Deepak Dhayanithy, Dr.Gauri Mahulikar, and Dr. M D Subashchandran bagged a project titled "Indian Knowledge Systems Approach to Deep Ecology: Integrating Sacred Geography and Sustainability" sponsored by IKS Division of Ministry of Education @ AICTE. MoUs were signed between NIT Calicut and Chanakya University, Bengaluru & Central Sanskrit University, New Delhi through CIKS. As a collaborative effort, NIT Calicut became a center for Non Formal Sanskrit Education of Central Sanskrit University, New Delhi to offer Certificate Program (Level 1) and Diploma Program (Level 2) in Sanskrit. Central Sanskrit University, New Delhi has deputed one faculty to offer the Certificate Program in Sanskrit at NIT Calicut in which 61 participants were benefitted. Few 3-credit open elective courses for Undergraduate Programmes such as Basic Sanskrit and Introduction to Indian Knowledge System were offered in Monsoon and Winter 2022-23.

National Youth Day
12th January 2023, Thursday
Time: 5.30 p.m. - 8.30 p.m.
Venue: Ayazulhas Hall
Organizer: National Institute of Technology Calicut
President's Address: Prof. Prasad Krishna, Director
Invited Expert Lecture: Sri. Swami Narasimhananda, Secretary, Ramakrishna Sevashram, Kalikkode on Relevance of Swami Vivekananda's Views for Self-Reliant Bharat.
Note of Thanks: Dr. Divyendra K Yadav, Assistant Professor, MED
All are cordially invited to participate in the celebration.

About National Youth Day
In 1984, the Government of India declared January 12th as the National Youth Day. This day marks the birthday of the great Indian philosopher, Swami Vivekananda whose teachings are the highest philosophical asset of the country. The Government of India opted that "It is job that the philosophy of Swami Vivekananda and the spirit for which he stood and worked could be a great source of inspiration for the Indian Youth."

About Sri. Swami Narasimhananda
English ministry interest of the bonamant and social science started by Swami Vivekananda in 1894. He has edited a book containing Swami Vivekananda's teachings titled "Vivekananda Reader".
Sri Swami Narasimhananda qualified in India Studies, Indian Philosophy, Sociology of Religion, Philosophy of Religion, and Religion Studies. He is a member of the International Interdisciplinary and Interreligious Research Group on "Contemporary Studies" under the UNESCO Chair in Bioethics and Human Rights, Panchajanya Ashram, Agni, Bangalore, India. He is an author and executive committee member of H.Nel-Humanism and Social Science Center.
Sri Swami Narasimhananda is a member of the Ramakrishna Math and Ramakrishna Mission founded by Swami Vivekananda in 1897. He is presently the Secretary of Ramakrishna Mission Sevashrama, Kalikkode, Kerala and runs higher secondary schools, undergraduate and post-graduate, English, Sanskrit, Malayalam, Bengali, and Tamil. He is a former editor of "Prabodhini Bhawan", an

Workshop on Linguistics
Organized by: Vinayk Rajat Bhat, Assistant Professor, Centre for Indian Knowledge Systems, Chanakya University, Bengaluru.
October 11, 2022, Saturday | 10.00 AM to 12.00 PM, NIT Calicut

Dr. Vinayk Rajat Bhat is a very strong foundation of other fields in the field of linguistics, especially in the areas of Phonetics, Phonology, Morphology, Semantics, Pragmatics, and Sociolinguistics. He has worked in various capacities in the field of linguistics, including as an Assistant Professor, Lecturer, and Research Fellow. He has also worked in the field of linguistics in various capacities, including as an Assistant Professor, Lecturer, and Research Fellow.

Workshop Objectives:
- To provide an overview of the field of linguistics and its various branches.
- To discuss the role of linguistics in the development of language and communication.
- To explore the relationship between linguistics and other fields such as psychology, sociology, and anthropology.

Invited Expert Lecture / आमंत्रित विशेषज्ञ व्याख्यान
A closer look at the science behind fasting - ancient wisdom for modern living
(उपासके के पीछे के विज्ञान पर एक नज़दीकी नज़र - आधुनिक जीवन के लिए प्राचीन ज्ञान)
Resource Person / संसाधन व्यक्ति: Dr. Suresh P S / डॉ. सुरेश पी एस
Associate Professor / सह प्रभुषक
School of Biotechnology / जीवोपयोगी प्रौद्योगिकी विद्यालय
National Institute of Technology Calicut, India - 673041 /
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट, भारत - 673041
8th August 2023, Tuesday, 4:30 pm. / 8 अगस्त 2023, मंगलवार, दोपहर 3-4.30 बजे
Online Mode / ऑनलाइन मोड - <https://meet.google.com/prn-ppz-pw-mp>

Dr. Suresh P S is an Associate Professor at the School of Biotechnology, NIT Calicut. He received his Ph. D. from the Indian Institute of Science, Bangalore. His PhD was highly commended for being in vitro and in vivo experiments. His research interests include and several complementary data-driven approaches. His research focuses on addressing the science of animal biomass in various regions. He completed his post-doctoral training in cancer cell signaling and microRNA at the Medical College of Wisconsin, USA, and Warner Medical Center, USA. His research has received international recognition from ICMR, SERB, DBT, JSPS, ICMR, FICCI, AICTE, NIT Calicut, IITM in the past and present. He is the author or co-author of more than 50 publications in international refereed journals. He serves as an editorial board member and reviewer for various research groups and molecular biology journal member for the stem cell research in cancer research. He has given scientific talks at various national and international conferences and has been awarded with numerous awards.
<https://www.linkedin.com/company/biotechnology-nit-calicut/>
nitcalicut@nitcalicut.ac.in/6465-4255-9999-44666666777



CIKS - NITC proudly presents
LESSONS FROM THE INDIAN EPIC RAMAYANA FOR PROFESSIONAL AND PERSONAL EXCELLENCE
MB 110, Main Building, NITC.
Participation certificate for all session attendees.
7-11 Aug. 2023
6:30 pm - 7:30 pm
Facilitated by Dr. R. Sridharan
16 Aug. 2023



Centre for Cultural and Art Relations: CCAR

The Centre for Cultural and Art Relations (CCAR) of NIT Calicut conducted An evening of Indian Carnatic music - Veena concert by Smt. Anuradha Mahesh, Swaraa Classical Music programme by Indian Cultural Association, Nadayoga -A musical experience towards wellness by Smt Anuradha Mahesh, Rudra Veena Concert by UStad Mohi Bahauddeen Din Dagar in association with Spic Macay NIT Calicut, Violin Duo by Edappally Ajith Kumar and Krishnaa Ajith on the Institute Foundation Day, Lecture deminstration-Carnatic vocal by Sreevalsan J Menon in association with Spic Macay NIT Calicut, organised a lecture series on Cinematography and Film appreciation by Dr.Rajesh James, Award winning documentary filmmaker in association with SOMS Research Forum, Tholpavakoothu by Harisree Kannan Tholpavakoothu Kalakendram in association with I ink. In addition to that, CCAR initiated the Fresher's Day Event Aaravam 2022 to identify the extracurricular talents of first year students. A musical event named 'Symphony Night' was also organized by CCAR in which renowned musician 'Joy Alleppey' presented different compositions in Saxophone and flute.



Centre for Holistic Teaching and Learning: (CHTL)

The Centre for Holistic Teaching and Learning (CHTL) conducted a few breathtaking programs/sessions. One of them was on Outcome Based Education (OBE), a one-day workshop for newly recruited faculties. Prof. R V Ranganath and Prof. D Seshachalam, from BMS Engineering College conducted sessions for newly recruited faculty members of NIT Calicut to familiarize them with OBE concepts, writing course outcomes, evaluation etc. Another exemplary session was conducted as Motivational Lecture Series by Prof. K B M Nambudiripad, Retired Professor, Mechanical Engineering, NIT Calicut for Research Scholars of NIT Calicut.



Centre for Women Welfare and Social Empowerment: CWSE

Dr. Rajalakshmi Menon, Director, Centre for Airborne Systems, Defence Research and Development Organization formally inaugurated the Centre for Women's Welfare and Social Empowerment at NIT Calicut. Lt. Cdr. Kulbir Kaur also launched the website of Centre for Women Welfare and Social Empowerment at the event. Women employees who have been in service for more than 25 years at NIT Calicut were honored at the event. The celebrations for International Women's Day at the NIT Calicut were organized by the Centre for Women Welfare and Social Empowerment (CWSE) during the second week of March 2023. The research festival Constellate '23, with the topic "Women in STEAM," was co-organised by CWSE in conjunction with the Research Forum NIT Calicut. A digital poster design competition with the theme "Women in STEAM" and an elocution contest with the topic "My Social Responsibility" were held among the pupils. Students also held a brief discussion on the subject of "Embracing Equity: Challenges and Experiences". Awards were given out to the winners of various events arranged as part of Women's Day. The Centre for Women Welfare and Social Empowerment at National Institute of Technology Calicut organized a 'National Women Coding Competition for Entrepreneurship with SDGs' based on the theme as India's G20 Presidency and United Nations Sustainable Developments Goals (SDGs).





Centre for Yoga and Holistic Wellness: CYHW

The Center for Yoga and Holistic Wellness continued its mission to promote overall well-being through a range of activities aimed at nurturing physical, mental, and emotional health during the academic year 2022-2023. It started with the celebration of International Day of Yoga on June 21, 2022 by conducting demonstration and practice of Ayush (SOP) yoga under the guidance of Acharya Unni Raman, Patanjali Yoga Research Centre followed by a competition Yoga'22 for Yoga performance with uniformity. A Yoga Training Week was conducted by the center as 21 Day Yoga Challenge which included Introduction of Ayush syllabus, Significance of Yoga, Yoga as a lifestyle, Practice of asanas, Practice of 13 Surya Namaskars training for Students and campus community and ended up with Yoga competition. The center also organized a Workshop on Music Meditation -by Acharya Unniraman master & Team. Aerobic classes tutored by Sri. Prajin Pratap, P School of Dance was organized by the center for the Winter semester 2022-23 and Monsoon Semester 2023-24. Further, Yoga Classes led by Acharya Unniraman Master were also coordinated by the center for the Winter semester 2022-23 and Monsoon Semester 2023-24. It also conducted a 5-day Faculty Development Program on Holistic Living from June 5-9, 2023 which included activities such as yoga, meditation, lectures on holistic living, and a 1-day camp at Wild Planet Resort. International Yoga Day was celebrated on June 21, 2023 by conducting activities including yoga class and meditation sessions by Acharya Unniraman master followed by a forest bathing session guided by Mr.Prakash Gopal.

The Center for Yoga and Holistic Wellness contributed to the NIT Calicut academics by conducting two 3-credit open elective courses such as “Yoga and Mindfulness” and “Architecture of Wellness” by the guest faculties such as Shri. Unniraman Master and Dr. Devadas Menon, Professor, IIT Madras. The center also organized a number of expert lectures by eminent personalities which includes Pancha Kosha meditation Session as well as a session on Architecture of Happiness and Wellbeing by Ar. Renu Khanna, Meditation for Wellness by Prof. Prasad Krishna, Healthy Lifestyle for Stress Free Living by Dr. Madhu K Parameswaran, Stress Management in Academic Environment by Dr. Dayal Narayan and session on Mindfulness – Mastering mind by Dr. Devadas Menon.





Activities of Administrative Sections 2022-23

Stores and Purchase section

1. In the last year GeM Procurement to the tune of INR 16.7155 Crores with the GEM contracts numbered to 573.
2. High value procurement involving Thousand numbers of Steel tables and Metal cots of best quality were procured for NITC Hostels.
3. One hundred and twenty five numbers of Steel cabinet shelves, Steel table and Chairs of best quality for the newly joined Faculty were procured.
4. Eighty numbers of new laptops were procured for the newly joined Faculties.
5. High value procurement involving 10 numbers of Layer 3 Core switches were procured in connection with increase of bandwidth.
6. Appointment of Independent External Monitors as per CVC guidelines to monitor all procurements above 1 crore.
7. Agreement with Metal Scrap Trade Corporation (Ministry of Steel) for disposal of obsolete items through e-auction.
8. Total value of orders for the last year comes to around 25 Crores under PLAN Fund and 6 Crores under DOC.
9. Procurement of ANSYS Software with support for a period of FIVE years for a total value of 1.55 Crores.
10. Two lots of scrap/Obsolete/Unserviceable items were auctioned out as a part of Swatch Bharat campaign during 2022.
11. 95% of the procurement involving tender were online thereby ensuring transparency and contributing to Digital India.

Finance & Accounts Section

1. Utilisation of the Funds released by the Ministry of Education
The Ministry has allocated an amount of Rs 165.06 Cr. towards the capital and revenue expenditure of the Institute for the FY 2022-23. This Institute has utilized 100% of the allocated fund except the funds allocated for the construction of the New Academic Block under the EWS scheme.
2. Conducted Audit Committee Meeting and settled long pending audit paras.
NITC had 79 audit paras that were pending for a long time. An Audit Committee Meeting was held in the month of March, 2023, and through the coordinated effort of the Finance & Accounts Section, 58 paras have been dropped.
3. Promoting Digital Transactions in the Institute
With a view to promote transparency in the system, Government has been promoting digital transactions in Educational Institutions. This Institute has implemented the below initiatives towards achieving 100% digital transactions.

- Implemented a 100% digital payment system for all outward payments including Projects through SBI Fast Plus platform using maker/checker roles.
- QR code-based payments are rolled out for FDP Courses/workshops etc.
- Services of online aggregators such as Paytm & SBI e-pay are integrated with the Institute Management System to facilitate online payment through multiple modes.

4. E-Invoicing is implemented for all GST Business-to-Business (B2B) Invoices

E-Invoicing under Goods and Services Tax (GST) is mandatory for businesses with an annual turnover above Rs. 5 Cr from August 1, 2023. E-invoices are digitally prepared business-to-business (B2B) invoices that follow an e-invoicing format authenticated by the Goods and Services Tax Network (GSTN) to ensure that a common format is being followed before uploading the invoiced on the GST portal

5. Roll out of Tally for Accounting Purpose

The Institute has rolled out Tally ERP w.e.f 01 Dec 2022 for booking all its expenditure and receipts. The system is expected to replace the existing Decision Support System (DSS) by FY 2023-24.

6. MOU with ICWAI

The Institute has entered in to an MOU with The Institute of Cost Accountants of India (ICAI), a statutory body setup under an Act of the Parliament to engage CMA Students for imparting practical training designated as ICAI Trainees in NIT Calicut. As part of this training program 5 CMA students are offered the opportunity to work at NIT Calicut.

Academic Section

- Integration of IMS (Institute Management System) to Academics

Institute Management System was integrated to Academics, the procedures of Course registration, semester wise fee payment, publication of results, issue of semester wise grade cards, consolidated grade cards and provisional certificates were successfully incorporated to IMS system, bringing all Academic procedures in an all-inclusive environment.

The integration of semester wise fee payment of students has very efficiently facilitated collection of fee from students and also accounting. The database in IMS can be now accessed for getting relevant data about Academics whenever required. The roadmap ahead is to integrate fellowships of Phd Scholars and M Tech students through IMS.

- Timely Processing of All scholarships under various Ministries under Govt Of India, Various other state Governments and Private scholarships:
Academic section was successful in processing institute level verification and processing of Scholarships (More than 1500 in no.) without any delay.



Activities of Administrative Sections 2022-23

- Effective Liaisoning with various agencies like NSP (National Scholarship Portal), AICTE, CSIR, UGC etc. for successful implementation of various schemes, disbursement of fellowships and disposal of Grievances of students related to these fellowships if any.
- Timely processing of Degree Certificate, Consolidated Grade cards and Provisional Certificates for 18th Convocation (1687 Nos).

Estate Section

1. Estate section has been newly established and the system is being set up.
2. The Licence for Main and Mini Canteen has been tendered and contract has been offered to M/s Ruchi Outdoor Services, Tirur. The canteen is in operation and caters to the NITC community.
3. Canara Bank started its operations in NITC premises. A permanent location has been earmarked for construction of the Canara bank near to Mega Boys Hostel. At present the bank is operating in the temporary premises. The necessary sanctions has been issued through Estate and Engg. Unit.
4. The necessary sanction has been issued to M/s Amul to operate its parlor within NITC premises and expected to open shortly.
5. The Vehicle section has been completely digitized and reduced significant paperwork. All the payments and documentation is done at Parivahan Sewa "<https://parivahan.gov.in>" through Estate Section.
6. The Guest House renovation is in progress and taken up on a staggered basis. The work is expected to be completed by Dec 2023. This will give a complete makeover to the Guesthouse and improves the ambience & experience of the guests.
7. Liaised with the Local bodies for the timely payment of Building and Land Tax.
8. Expression of Interest has been finalized for the Balance works at Mega Hostel 1 for an estimated amount of RS 15.32 crores and expected to be live shortly.

Establishment Section

1. Recruitment of non-teaching staff was initiated in July 2022 and its progress is as details below:

Progress: Group A positions

- Selection of Group A officers for 15 positions completed in two phases in December 2022 and July 2023 respectively
- 3 ARs and 1 DR joined in December 2022/January 2023
- 1 Technical officer joined in July 2023, and other Technical officers, Deputy Librarian, Assistant Librarian etc. are expected to join by Aug-Oct 2023

Progress: Group B & C positions

- As there was delay in progress of recruitment through other agencies like the NTA, the screening test for nearly 5000 candidates was conducted at NIT Calicut during the period of 10 July 2023 to 13th July 2023.
- Document verification and skill tests for around 60 positions (Ministerial and Administrative posts) have been completed and, for the rest of positions, it is scheduled in September 2023.

1. Recruitment of non-teaching staff (Phase 2) through NTA was initiated in July 2023 for 150 posts and the online application portal has been activated.
2. Based on the Ministry's instructions the mission-recruitment drive has been planned by the Institute for both Faculty and non-teaching staff positions
 - a. Two rounds of Faculty recruitments, one in October-December 2022 and the other in May-July 2023 have been completed.
 - b. The offers of appointment were issued to 83 & 84 candidates respectively post approval of the selection committee minutes by the BoG. The offers were issued within one day of the receipt of BoG approval in order to induct the faculty at the earliest.
 - c. One Non-faculty recruitment (2nd Phase) for 150 posts has also been taken up by taking approval from BoG
3. Measures were taken for approval of amendment of statutes (Amendment Statutes 2023) to be placed in BoG and then publishing the same in Gazette of India.
4. Joining formalities and pay fixation for newly joining faculties (internal and external)
 - a. 155 Faculties in September 2022
 - b. 83 faculties in December 2022
 - c. 84 faculties in July 2023
5. Pay fixation for all the non-teaching staff who were granted promotion/up-gradation through DPC 2017-2021.
6. Revision of pension for the pensioners whose pay was revised or upgraded based upon grant of DPC/Upgradation and their arrears disbursement.
7. Delinking of pension (delinking of 33 years of service for pre-2006 pensioners) from 01.01.2006 onwards and arrear calculations thereon undertaken.
8. Recruitment to several contract positions was undertaken during the period of September 2022 to August 2023. Some of the positions that were filled during the period include Security officer, Public Relations Officer, Legal Executive, Translating Assistant (Hindi), Staff for Campus networking centre, Website developer, Sports coaches etc.

Activities of Administrative Sections 2022-23

Board office/Directorate

1. Board of Governors

Four (4) meetings of Board of Governors were held during the period from September 2022 to August 2023 on the following dates:

02.09.2022 - 62nd meeting of BOG.
05.12.2022 - 63rd meeting of BOG
27.02.2023 - 64th meeting of BOG
03.07.2023- 65th meeting of BOG

2. Finance Committee

Four (4) meetings of Finance Committee were held during the period from September 2022 to August 2023 on the following dates:

02.09.2022 - 54th meeting of FC
05.12.2022 - 55th meeting of FC
27.02.2023 - 56th meeting of FC
03.07.2023- 57th meeting of FC

3. Building and Works Committee

Three (3) meetings of Building and works committee were held during the period from September 2022 to August 2023.

01.12.2022 - BWC 2022:02
24.01.2023 - BWC 2023:01
27.06.2023 - BWC 2023:02

4. Senate Meeting

Six (6) meetings of Senate were held during the period from September 2022 to August 2023.

01.11.2022 - 89th Senate meeting
23.01.2023 - 90th Senate meeting
29.03.2023 - 91st Senate Meeting
15.05.2023 - 92nd Senate Meeting
17.07.2023- 93rd senate meeting
22.08.2023 - 94th Senate meeting (to be held)

II. Directorate

An Office structure is being created in the Director's Office

New staffs are being recruited for the smooth and effective functioning of the Directorate.

Public Relations Officer has been moved to Directorate in order to have a timely updation to Director regarding various news feeds released about the Institute.



Activities of Administrative Sections 2022-23

Engineering Unit:

Organize all constructions, maintenance, electrification, and water supply of the Institute. The details of Infrastructure projects at NIT Calicut Campus is furnished separately.

Electrical Maintenance Unit:

The up keeping of institute electrical power system as per the standards recommended by the electricity regulatory commissions of the Govt. of India/ Kerala state, ensure safe operational practices of electricity utilization in campus.

Energy management:

Periodic energy auditing conducted at institute main campus and reallocated the power system for better optimization.

Power system Maintenance and power quality:

Routine periodic inspection and maintenance service ensured for reliable electricity The institute is getting consecutive incentive for maintaining the power factor above 0.98.

Energy Efficiency:

Periodical conversion to energy efficient fixtures. All the lighting inside the campus converted to LED, ceiling fan covering to energy efficient BLDC fan. Equipment's under procurement are with 5-star rating.

Power Reliability:

Additional feeder drawn from KSEBL for back support if dedicated 11kV is down. Considering the increasing demand for the electricity an 33kV substation is planned and contracted with KSEBL inside the campus.

Digitalization:

The material procurement has made completely through GeM portal. The electrical complaint intimation also converted digitally for fast complaint management.

STATUS	Project status	No:s	Project cost
MAJOR	Ongoing	10	150.16 Crore
	Sanctioned	4	55.71 Crore
	Future	7	500 Crore
MINOR	Completed	24	2.09 Crore
	Ongoing	33	7.02 Crore
REPAIR	Completed	31	2.87 Crore
	Ongoing	31	14.31 Crore

Infrastructure projects at NIT Calicut Campus



Work executing agencies under Engineering Unit at NIT Calicut

Agencies - CPWD, Kerala PWD, KWA, KSEB
 Society - ULCCS
 Private - More than 20 Gov. registered contractors

Major Ongoing Projects

Number of Projects : 10
 Total Amount : ₹150.16 CR



Major Sanctioned Projects

Number of Projects : 4
 Total Amount : ₹124.77 Cr.



Students' activity and sports center



Connecting building between administrative block



Football Stadium and Athletic Track



New Academic block



Continuing education & Outreach Activities 2022-23

Department of Civil Engineering

- The Second International Conference on Construction Materials and Structures (ICCMS-2022) was organised by Dr. J. Sudhakumar and Dr. Blessen Skariah Thomas during 13-19 December 2022.
- Dr. Yogeshwar Vijayakumar Navandar organised a webinar on 'Road Safety: Challenges and Perspective' in the 34th Observance Road Safety Week in India on 17.01.2023. The speaker was Dr P Papaantonio, University of West Attica, Greece.
- One-week FDP on 'Decision Modelling in Logistics and Transportation Industry' was organised by Dr. Vinay V Panicker (Coordinator) and Dr. Harikrishna M (Co-Coordinator) during 27 February-03 March 2023.
- Online FDP on 'Port Development, Operations and Management' was organised by Dr. Yogeshwar V Navandar, Dr. Vinay Panicker, and Dr. Nishant Mukund Pawar from 5th March to 22nd April 2023.
- A five day FDP on 'Strategic Management in Rail and Road Transportation System' was organised by Dr. Harikrishna M (Coordinator) and Dr. Vinay V Panicker (Co-Coordinator) from 6-10 March 2023.
- A six day online FDP on 'Recent Developments and Advancements in Transportation Engineering (RDATE2023)' was organised by Dr. Nishant Mukund Pawar, Dr. Munavar Fairouz C., Dr. Hillol Chakravarty and Dr. Yogeshwar V Navandar during 13-18 March 2023.
- One Week High-End Workshop under KARYASHALA-SERB scheme was conducted on 'Application of Unmanned Aerial Vehicles (UAVs) for Advanced Data Interpretation in Transportation Engineering (AUDIT 2023)', by the Centre for Transportation Research, Department of Civil Engineering, NIT Calicut, from 31 July to 6 August 2023.

Department of Chemistry

- Dr. A. Sujith organised Entrepreneurship development programme on 'Biocomposites from Rubber and Plastic' Sponsored by MSME, Govt. of India (6-11 Feb 2023), Prof. Sitaraman Science Quiz programme (31 Jan 2023), Workshop for PSMO College, Malappuram, Kerala (3 Jan 2023), Workshop for school students (27 Dec 2022), and Swatch Sagar, Surakshith Sagar, sponsored by Govt of India (15 September 2022). In addition to these, Dr. Sujith organised the International Conference on 'Magic and Mystery of Physics', 27th April 2023 in connection with the retirement of Prof. Predeep P, inaugurated the Royal Society of Chemistry School Teacher Training Programme (8th -10th June 2023), conducted Sustainable lifestyle workshop for teachers, Environmental Education programme for school teachers (22nd February 2023) and organised Vagbhadananda edu Project Summer camp for school students (2nd - 3rd May 2023) Dr. Raju Dey conducted a one day research facility training on 15 Dec 2022.
- Dr. Janardhan Banothu organised a Research Facility Training Programme on 28 Feb 2023.
- Dr. A. Sujith delivered expert lectures at National Science day celebration at St. Joseph's College, Devagiri, Kozhikode (28 Feb 2023), for Edumission Innovation club inauguration at GHSS Naduvannur (19 Feb 2023), MBIFL 23 speech on 100 years of Mathrubhumi (20 Jan 2023), and Gifted Children's programme, Kerala Education department at Munderi GHSS, Kannur (24 Dec 2022).
- Dr. Lisa Sreejith delivered an expert lecture during the 5th International Conference on Material Science, London, UK (4-7 Oct 2022).
- Dr. Muniyandi Sankaralingam delivered expert lectures during The seminar on Recent Trends in Chemical Research at Farook College, Kozhikode (9 Feb 2023), International Conference on Recent Trends in Materials and Magnetism (RTMM - 22), Chennai (15-16 Dec 2022), UGC-HRDG Kannur University Refresher Course Winter School in Physics and Chemistry, Kannur, (9 Dec 2022), Invited Lecture at the CEA-CNRS-University Grenoble Alpes at CEA-CNRS-University Grenoble Alpes, Grenoble, France (September 16, 2022).
- Dr. Anuj A Vargese delivered an expert lecture for DST-STUTI at NIT Calicut (14-20 November 2022).

- Dr. Janardhan Banothu delivered an expert lecture during the 9th Research Meet And Awards at Vinus International Foundation (Jan 7, 2023).
- Dr. Chinna Ayya Swamy P delivered an expert lecture during the National Level Virtual FDP on Recent Advances in Chemical Sciences at Thiagarajar College, Madurai, Tamilnadu (September 26, 2022).
- is mentorship provided by Dr. G. Unnikrishnan for the development of car polish. This service is being offered through M/s RaHS Innovations. The organization is currently in an incubation phase, and they anticipate launching the product by the end of August 2023.

Department of Architecture & Planning

- A five-day training program on Architectural Design Enhancement and Modelling (ADEM 2022) was conducted in May 2022
- A one-day seminar titled "UNDP Urban October Seminar 2022" was conducted at the Department of Architecture and Planning in October 2022
- A Two-day Workshop on Social Innovation & Entrepreneurship for Sustainable Development was organized jointly by the National Institute of Technology Calicut and the National Innovation Foundation from 28th February to 1st March 2023. The workshop was coordinated by Dr. Chithra K.
- A one-week workshop titled "Hybrid Workshop on Introduction to BIM - Architecture, Engineering, Construction: Digital Innovation in Construction" was conducted in the department from 22nd to 27th July 2023. The workshop was coordinated by Ar. Ritesh Ranjan, Dr. Deepthi Bendi, and Dr. Mohammed Firoz C
- A Workshop on Brick Masonry was organized for the B.Arch. Students. The workshop was coordinated by Ar. Samiksha S, Dr. Susanta Banerjee and Ar. Ritesh Ranjan
- Online Short-Term Training Program on Research Basics: Explore Assess Test (BEAT 2023) was organized by the Department in collaboration with ECED from 19 to 23 June 2023. The training program was coordinated by Ar. Ritesh Ranjan, Dr. Amritha PK and Dr. Chandan Yadav
- From 29th June to 3rd July 2023, an Online Skill development workshop - Disaster Responsive Humanitarian Logistics was organized jointly by the Centre of Excellence in Logistics and Supply Chain Management (CoELSCM) and the Department of Architecture and Planning. The workshop was coordinated by Dr. Bimal P, Dr. Sanil K, Dr. Vinay Panicker, Dr. Devendra K Yadav

Department of Electrical Engineering

- Dr. Jeevama Jacob serves as an Associate Editor - IEEE TRANSACTIONS ON INDUSTRIAL. ELECTRONICS.
- Dr. Subha D P conducted a program for Calicut girls vocational & Higher secondary school on "Awareness on cognitive skills testing and exercising for improvements" on 19th July 2023 under the banner of IEEE EMBS and IEEE Kerala chapter.

Department of Mathematics

- The Department of Mathematics of NT Calicut successfully conducted a one week offline workshop on "Mathematics for Artificial Intelligence (MAI2023)" during 16-20 January, 2023.

Department of Physics

- Dr. Maneesh Chandran, and Dr. Muhammad Shafi P M organised a Hands-on Training Workshop on Sophisticated Instruments for Materials & Device Fabrication and Characterization (November 14-20, 2022), in Association with Banasthali Vidyapith, Rajasthan

School of Biotechnology

- Dr. Rajanikant GK participated as a guest speaker in an Invited Talk titled "A Roadmap for Research in Translational Neuroscience" during the Continuing Medical Education Program known as "Homeopathic Evidence based Advanced Research and Training (HEART)," conducted as part of the World Hahnemannian Day Celebrations, commemorating the 267th Birth Anniversary of Dr. Samuel Hahnemann. This event took place on April 12, 2022, under the auspices of The Directorate of Homoeopathy, Department of AYUSH, Government of Kerala.



- Dr. Ravindra Kumar made significant contributions through his lectures, covering subjects such as "Protein-Protein Interactions Network," "Machine Learning Applications in Biology," and the role of "Biological Databases." His extensive expertise was also shared in practical workshops, offering insights into data mining from biological databases for drug discovery.
- Dr. Suresh PS showcased his commitment to knowledge dissemination by conducting a manuscript writing webinar, participating in a Refresher program, and delivering an expert lecture on the scientific nuances of fasting.

School of Management Studies

- Under the title "FDP on Qualitative and Mixed Methods Research," Dr. Althaf S and Dr. Sreejith S S acted as coordinators for a comprehensive program held from 21-26 March
- "Advanced ESDP (MSME Funded-5.6 Lakhs) on Hotel & Hospitality Management for Young Entrepreneurs" was expertly overseen by Dr. Muhammad Shafi, spanning from February 27th to March 4th, 2023.
- The "Faculty Research Development Programme - Advanced Technologies and Management Aspects (ATMA) 2023" was skillfully coordinated by Dr. Manju Mahipalan and Dr. Sreekanth V K, taking place from Jul 31st- August 5th, 2023.
- "Short Term Training Programme - Smart Mobility and Research Trends (SMART) 2023" was effectively managed by Dr. Munavar Fairouz C and Dr. Sreekanth V K, held from July 24th to July 29th, 2023.

Department of Chemical Engineering

- Dr.V.Sivasubramanian and Dr.S.Bhuvanawari coordinated ATAL FDP - Sustainable And Robust Electrochemical Technologies For Industrial Applications (SRETIA 2022), December 2022.
- Dr Panneerselvam Ranganathan coordinated MSME Sponsored Advanced Entrepreneurship Skill Development Program in Process Design and Development for Industrial Applications, March 2023.
- Dr. Noel Jacob Kaleekkal coordinated GIAN course "191020B02: Tailored polymeric membranes for bio-separations and biomedical applications " September 2022.
- Dr.S.Bhuvanawari & Dr. Noel Jacob Kaleekkal coordinated one day G-20 workshop on Accelerating Progress on Sustainable Development Goals for Clean Water and Energy, August 2023.

Department of Mechanical Engineering

- Dr. Vinod Kumar Sharma and Dr. Vijayaraj K organized a Five-Day Workshop on "Energy Systems and Modelling" during 26th - 30th June 2023 at NIT Calicut.
- Dr. Basil Kuriachen organized SERB Sponsored One Week High-End Workshop on Advances In Metal Additive Manufacturing: Fundamentals, Modeling, And Materials With Future Research Potential During July 2-8, 2023, at NIT Calicut. (A curtain raiser event for COPEN-13: 2024)
- Dr. Vinay V. Panicker and Dr. Harikrishna M conducted AICTE Training and Learning (ATAL) Academy Sponsored Online Faculty Development Programme on PM's Gati Shakti Thrust Areas "Decision Modelling In Transportation And Logistics Industry, One week, Feb 27 - March 03, 2023.
- Dr. Harikrishna M. and Dr. Vinay V. Panicker conducted AICTE Training and Learning (ATAL) Academy Sponsored Faculty Development Programme on PM's Gati Shakti Thrust Areas "Strategic Management In Rail And Road Transportation System" March 6-10, 2023.
- Dr. V. Madhusudanan Pillai and Dr. Hiran V. Nath organized ATAL FDP on Digital supply chain management, 19th -30th September 2022.
- Dr. Basil Kuriachen organized Advanced Entrepreneurship and Skill Development Program on Introduction to Industrial 3D Printing, 20-25th March 2023.
- Dr. A Shaija, Senate Member, Indian Institute of Information Technology Design And Manufacturing Kurnool (IIITDM), Andhra Pradesh
- Dr. A Shaija, Chairman, Doctoral Committee, of two Ph.D research scholars, Government Engineering College THRISSUR, KTU

- Dr. Sanjeev Kumar Manjhi, Talk on Effects of Heat transfer in cylindrical Lithium-ion battery and application of thermal sensors, in Five-Day Workshop on "Energy Systems and Modelling", July 26 - 30, 2023, NIT Calicut
- Dr. Sharu B K, Expert Talk on Building Architected Structures Using Stimuli Responsive Slurries, DTE Sponsored FDP on Energy- Fundamentals to Research, 2nd March 2023, Government Engineering College Kozhikode, Kerala,
- Dr. Sharu B K, Invited talk, Turning CO2 into 3D-printed Concrete: Stimuli Responsive Slurries to Build Architected Structures, CSIR Sponsored "National Conference on Materials Science and Green Technology", 9-10 March 2023, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari,
- Dr. Sharu B K, Keynote address, Minimizing Construction Energy Demands Using Concrete 3D Printing, International Conference on Advances in Mechanical Engineering: Transcending Boundaries, 8-9 June 2023, Mangalam College of Engineering, Kottayam,
- Dr. Sharu B K, Expert Talk on Minimizing Construction Energy Demands Using Concrete 3D Printing, in Five-Day Workshop on "Energy Systems and Modelling", July 26 - 30, 2023, NIT Calicut
- Dr. Sumer Dirbude, Talk on "Finite Volume Methods" at the DST-STUTI ICT training program, organized by you at NITC during July 24-30, 2023
- Dr. Mohammed Rashad K, Invited talk on "Microstructural evolution and properties of metal AM components", in the workshop on "Advances in Metal Additive Manufacturing: Fundamentals, Modeling, and Materials with Future Research Potential" July 2-8, 2023, NIT Calicut.
- Dr. R. Sridharan, Invited Lecture on "Introduction to Engineering Research" in the Workshop "SIKER: School on Indian Knowledge System and Engineering Research", sponsored by ICSSR and conducted by Department of Computer Science and Engineering, Indian Institute of Information Technology Kottayam, Kerala, during 17-21, July 2023.
- Dr. R. Sridharan, Invited Lecture on "Introduction to Indian Knowledge System" in the International Education Summit 2K23: Transforming Education with NEP 2020, Calicut, Kerala, during 11-12, July 2023.
- Dr. R. Sridharan, Invited Lecture on "Introduction to Indian Knowledge System" in the ATAL FDP on Strategic Management in Rail and Road Transportation System, NIT Calicut during March 06 - 10, 2023.
- Dr. R. Sridharan, Invited Lecture on "Introduction to Indian Knowledge System" in the ATAL FDP on Decision Modelling in Transportation and Logistics Industry, NIT Calicut during February 27 - March 03, 2023.
- Dr. R. Sridharan, Invited Lecture on "Introduction to Indian Knowledge System" in the ATAL FDP on Sustainable and Robust Electrochemical Technologies for Industrial Applications, NIT Calicut during November 21 to December 2, 2022.
- Dr. R. Sridharan, Invited Lecture on "Introduction to Indian Knowledge System" in the ATAL FDP on Foundations of Modern Cryptography and Blockchain, NIT Calicut during December 19 - 30, 2022.
- Dr. R. Sridharan, Invited Lectures on "An Overview of Research Methodology" and "NEP 2020" in the ATAL FDP on Digital Supply Chain Management, NIT Calicut during September 19 - 30, 2022.

School of Material Sciences & Engineering

- Dr N. Sandhyarani, and Dr Shyam Kumar C N organised a MSME Sponsored High End Workshop on Advanced materials for Affordable Healthcare during 25-26 February 2023.
- Dr. Vinod E. Madhavan acted as a co-convenor in Hands-on Training Workshop on Sophisticated Instruments for Materials & Device Fabrication and Characterization 14-20 November 2022, Venue: Ramanujan Hall, 3rd floor, Department of Mathematics, NIT Calicut, Kerala, India.
- Dr C B Sobhan is the Joint Secretary of Indian Society of Heat and Mass Transfer



Continuing Education & Outreach Activities 2022-23

- Dr. Shijo Thomas was a member of the evaluation panel for the Kerala State Level Inspire Projects (SLEPC) held at Ernakulam on 28th January 2023.
- Dr Sajith V was a member of judging panel for the Grand Finale -WE 4 U Award for Best Out Going Female Engineer, GCEK held on 29th March 2023
- Dr.Sajith V coordinated the activities of NITC in the Higher Studies Expo - DISHA 2023 organized by Career Guidance and Adolescent Counseling Cell of Higher Secondary Wing under the Directorate of General Education, Govt, of Kerala, from January 3 to 7, 2023 at Kozhikode Beach.
- Dr. Shyam Kumar was External Evaluator for Comprehensive viva at School of Energy Materials, MG university Kerala-01-04-2023
- Dr. Vinod E. Madhavan was awarded Dr. D.C. Pavate Memorial Visiting Fellowship In Cambridge (May-August 2023)
- Dr Soney Varghese delivered an Expert talk on FDP-MED-Advances in Metal Additive Manufacturing: Fundamentals, Modeling, and Materials with Future Research Potential" during 2-8 July 2023
- Dr Shijo Thomas delivered an expert lecture on Nanomaterials for Solar Thermal Applications during the FDPs on Energy-Fundamentals to Research and Nanotechnology-Fundamentals to Application at Govt Engineering College Kozhikode
- Dr Shijo Thomas delivered an expert lecture on Nanomaterials for Solar Thermal Applications during the FDP on Nano Materials: Developments, applications and future outlook at St Joseph's College of Engineering and Technology, Pala
- Dr Shijo Thomas delivered an expert lecture on Nanomaterials for Solar Thermal Applications during the FDP on Application of Nanotechnology in Mechanical Engineering at KMEA Engineering College, Ernakulam
- Dr Aparna Zagabathuni delivered an Expert Lecture on "Triboelectric nanogenerator for healthcare applications", at International conference on Biomaterials, Regenerative Medicine, and Devices, during 14-18 Dec, 2022, at IIT Guwahati
- Dr. Aparna Zagabthuni delivered an expert lecture on "MXene based electrode system for battery applications", at SERB funded High-end Workshop on Next-Generation Energy Storage Materials, during 3-10 July 2023, at IIT Indore.
- Dr. Vinod E. Madhavan delivered an expert lecture in Perovskite Society of India Meet (PSIM)-2023; March 01-03, 2023, Venue: IIT Roorkee Title of talk: "Inorganic Hole Transport Material with 3D/2D Perovskite Solar Cells for higher stability".
- Dr. Vinod E. Madhavan delivered an expert lecture in HOGAR TEXPO 2023 Technology Exhibition, 01 January 2023, Markaz Knowledge City, Kozhikkode, India. Title: "Emerging Solar Cell Technologies".

Department of Electronics & Communication Engineering

- Dr. G. Abhilash, course faculty and coordinator for a lecture series on "Continuous Wavelets and Wavelet Transforms: Principles and Applications" as a part of Mastery Program for Youths 2023 organized by IEEE Signal Processing Society (SB) Chapter NIT Calicut and ECE Association (Department of ECE) NIT Calicut during 20-24 January 2023.

Department of Computer Science & Engineering

- Expert lecture by Dr. Murali Krishnan at National Seminar on Number Theory and Lie Groups.
- Talk on - Number Theory and Cryptography organized by Govt. Arts and Science College Kondotty
- Expert lecture by Dr. Gopakumar on Applied statistics for Bioinformatics-II conducted by Department of Computational Biology & Bioinformatics, University of Kerala
- Expert lecture by Dr. Gopakumar on The Integration of AI into Curriculum Design and Future of AI in the classroom Calicut Girls Vocational and HS school
- Expert lecture by Dr. Madhu kumar on An ML Model for Mental Health Monitoring Using Facial Emotion Detection and Analyzing Social Media Posts 38th ACM/SIGAPP Symposium on Applied Computing, Tallinn, Estonia
- Expert lecture by Dr. Priya Chandran On the Measurement of Performance Metrics for Virtualization Enhanced Architectures 38th ACM/SIGAPP Symposium on Applied Computing Tallinn, Estonia
- Expert lecture by Dr. Jimmy Jose on Exploring Lightweight S-boxes using Cellular Automata and Reinforcement Learning 15th International Conference On Cellular Automata for Research and Industry, ACRI 2022, University of Geneva, Geneva, Switzerland
- An expert online lecture on "Data Replication and Processing Methods for Trusted Information Infrastructures" by Prof. Ravindran Kaliappa, Professor, City University of New York (CUNY) on 6th April 2023 - P. Arun Raj Kumar and Vasudevan A. R.
- Dr. Gopakumar was a keynote speaker at the second International Conference on Computational, Systems, and Communication (ICCS 2023) held at LBS Institute of Technology for Women, Trivandrum, and the International Conference on Recent Advancement in Science and Engineering (RAISE23) at KMCT College of Engineering for women.
- Dr. Madhu Kumar and Dr. Anu Mary Chacko participated in the meeting on the R&D Project for developing Technologies for the police force organized by MHA.
- Dr. Pranesh Das has a research collaboration with the Department of Earth Science, Sapienza University of Rome, Italy.
- Dr. Murali Krishnan is a Board of Studies for Computer Science & Engineering member at APJ Abdul Kalam Technological University and NIT Goa.
- Dr. Vineeth Paleri has been nominated as an Academic Representative to the executive committee of NIELIT Calicut.
- Dr. R Subashini is a Member of the Board of Studies (Information Technology) meeting at Kongu Engineering College.
- Dr. Madhu Kumar S D is a Member of the Board of Studies for the Department of Computer Science and Engineering and Allied Branches/Programs at Sahyadri College of Engineering & Management, Adyar, Mangaluru.
- Dr Abdul Nazeer K A is a Member, Board of Governors, KMCT Institute of Emerging Technologies and Management, Kozhikode & ILAHIA College of Engineering, Muvattupuzha.
- Dr Abdul Nazeer K A is a Member, Board of Studies, TKM College of Engineering, Kollam & Saint Gits College of Engineering, Kottayam. He is also a Member, Department Advisory Board, CSED, Govt. College of Engineering, Kannur and Member, Dayapuram Educational and Cultural Centre, Kozhikode.

Tathva 2022

Tathva'22, one of South India's biggest techno-management fests organized by NIT Calicut, commenced today, witnessing many students nationwide. Techno-Odyssey, this year's theme, showcases the transition from retro to futuristic technology. The international IT Tech-giant Cisco is the title sponsor of Tathva'22. The event was officially inaugurated on 20/10/2022 Thursday at 6 PM in the presence of an august audience. Mr James Thomas, the vice president of SAP SuccessFactors India, a NITC alumnus, was the inaugural ceremony's chief guest. He encouraged the youth to act towards a positive change through their ingenious ideas. Dr Prasad Krishna, Director, NIT Calicut, delivered the presidential address. The opening day, marked the introduction to Tathva lectures and workshops. Dr C S Shaijumon, Associate Professor at IIST, gave an insightful lecture on the structure and growth of the Indian Space Economy to young inspiring minds. Priyanka Kasture, the founder of 'Age of Geeks', gave an engaging talk about the 'Confluence of Education and Social Media'. Various workshops featuring Game Development, Python Programming, Cyber Security, and Robotics were the centre of attraction of Tathva'22. The onset of Tathva'22 also witnessed 'Wheels', an auto expo displaying the finest automobiles featuring exotic sports cars and bikes like Lamborghini, Ferrari, and Ducati. The act of stunt artists impressed the auto-enthusiasts. 'Robowars'- South India's largest robot combat competition was another striking event where robots clashed for triumph. 'GSM Labyrinth'- the bot racing competition, attracted huge crowds.

The second day of Tathva'22, the annual techno-management fest of NIT Calicut, showcased many intriguing events that captured the attention of the students and the public. This year the Tathva is based on the concept of Techno Odyssey, which stands for technological growth.

The day commenced with robowars, a rigorous battle between robots which enthralled the crowds & all the robo-enthusiasts. Teams from all across the world participated in this robotics event. An eye-opening lecture by Richard Stallman, founder of GNU and Free Software foundation, brought awareness among the students by highlighting the injustices in the computing world. Proficient speakers gave further insightful lectures on the confluence of education and social media, problem-solving in the real world, sustainable blockchain technology and future, and analyzing marketing in the age of data-driven technology and journey entrepreneurship. These speeches stood out from the typical conduct, concept and compilation convention. Students from various colleges across the country participated in various events like competitions on aircraft making called Albatross, wiring/non-wiring bot making called Accelerobotx and hovercraft creation called Hover Drive and this eventful day ended with a much-awaited pro show with top singers such Nakash Aziz; who stole Indian hearts with his songs and India's youngest edm pop duo Zephyrtone. The day finally ended with an unforgettable performance by the heartthrob band Thaikkudam Bridge.



The closing day of Tathva '22, South India's largest technical fest, continued with vigour and intense passion as it approached its homestretch, with thousands of spectators thronging the campus to attend the various lectures, events, competitions and the much-acclaimed proshows.

The workshops on topics such as Cryptocurrency, Digital marketing etc., were the much-acclaimed technical events that witnessed the participation of student teams from various colleges. The lecture series organized as part of Tathva concluded with a highly informative talk on interview preparations by Mr Sandeep Jain, founder and CEO of Greekforgreek. On the third day, they also witnessed the final rounds of the robowar event, 'Accelerobotx', the coding contest 'Shell Siege' and 'Debugger'. Expositions by the Indian Army, Navy and Airforce showcased various weapons for public display. Multiple exhibitions on virtual reality and robotics were also showcased. The finals of 'E-Racer' and 'Circuit race', organized by the circuit branches, also generated large interest and were well attended. Quizzes by one of India's best quiz master, Major Chandrakant Nair, pulled a good crowd. The crowd-favourite event of the day was the treasure hunt, which had students bring out their inner explorers to try and find the 'treasure'.

The event concluded with the much-awaited proshow by the performance of the famous Bollywood singer, Shreya Ghoshal, marking her 20th year in the industry. The performance of DJ Shaan that followed mesmerized the audience, which marked the end of Tathva 2022.



National Unity Day Celebration

In connection with the observance of Vigilance Awareness Week 2022, the Integrity Pledge was taken by the Faculty and Non-Faculty members and students of NIT Calicut from October 31st 2022, to November 6th 2022. The pledge, issued by the Central Vigilance Commission, was administered by Prof. Prasad Krishna, Director of NITC. As Sardar Vallabhbhai Patel's birth anniversary on October 31st is commemorated as 'Unity Day' (Rashtriya Ekta Diwas), an exhibition was hosted at NITC auditorium under the aegis of "Azadi Ka Amrit Mahotsav," commemorating Patel's holistic contributions. Prof. Rajanikant, Dean Student Welfare, delivered the welcome address.

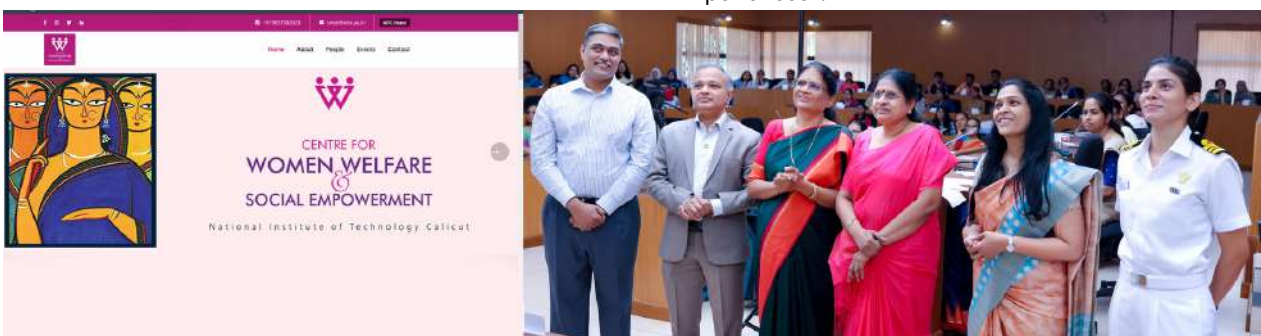
The exhibition was inaugurated by Colonel Ramanan, Chief Guest, and the gathering was enlightened about the unwavering will and efforts of Sardar Patel in unifying the princely states into the Indian Nation. A short video on the life of Sardar Vallabhbhai Patel, prepared by Naval NCC, NITC, was presented. Participants took the Unity Day Oath. The 'Unity Run,' organized as part of the program in the morning, which demonstrated solidarity and unity, saw participation from the Naval NCC, NSS, Sports Team, and Nehru Yuva Kendra, Kunnamangalam. The "Best Poster" certificate was awarded to Mr. Talib Raza, a second-year B.Tech. (Production Engg) student, NITC



International Women's Day Celebration

International Women's Day celebrations at NIT Calicut were organised by the Centre for Women Welfare and Social Empowerment (CWSE) during the second week of March 2023. The festivities began on March 7th evening with a Campus Walkathon that was officially kicked off by the Director, Prof. Dr. Prasad Krishna. On March 8, International Women's Day, the research festival Constellate '23, with the topic "Women in STEAM," was co-organised by CWSE in conjunction with the Research Forum NIT Calicut. A digital poster design competition with the theme "Women in STEAM" and an elocution contest with the topic "My Social Responsibility" were held among the students. On March 10th, Dr. Rajalakshmi Menon, Director, Centre for Airborne Systems, Defence Research and Development Organization formally inaugurated CWSE. In her lecture, Dr. Rajalakshmi Menon emphasised the necessity of female leadership and urged the women community to step forward and accept the challenge.

The guest of honour Lt. Cdr. Kulbir Kaur, made special mention of a number of accomplished women scientists who were instrumental in developing the country's science and technology foundation. Lt. Cdr. Kulbir Kaur also launched the website of Centre for Women Welfare and Social Empowerment at the event. Prof. Sathidevi P. S., Deputy Director of NIT Calicut, highlighted the importance of societal support for increasing the participation of women in positions of leadership. Registrar Com. (Dr.) Shamasundara M. S., emphasized the need for women's empowerment to begin at home and Prof. A. Shaija, Chairperson of the Internal Complaints Committee, urged the women's community to speak out against offensive gestures and to maintain high levels of self-respect at all times. Women employees who completed more than 25 years at NIT Calicut were honoured at the event. Students also held a brief discussion on the subject of "Embracing Equity: Challenges and Experiences".



NIT Calicut celebrated Republic day with patriotic fervour

National Institute of Technology Calicut celebrated the 74th Republic Day of our country with patriotic fervour and enthusiasm. The students took pride in glorifying and celebrating the spirit of unity. The programme began at 8.50 am on 26th January 2023. The chief guest Lt. Col. K K Manu hoisted the National Flag. He was accompanied by Dr. P. S. Sathidevi (Deputy Director), Cdr. (Dr.) Shamasundara M S (Registrar), Dr. Sameer S M Dean (Academic), Dr. Nikhil Sasidharan (Associate Dean (Students Welfare)), Dr. Chandra Shekar Bestha (NCC Officer) and Mr Dhanesh Rambeth (SAS Officer). All the attendees saluted the National Flag and pledged to uphold the honour and integrity of our country. Mr. Prasad M V coordinated the event.

The chief guest addressed the students and urged them to do their best and feel proud to be Indian. The Deputy Director and registrar also addressed the students. Later NCC cadets were awarded with medals and certificate for their outstanding performance. The students of our Music Club brought the stage alive with patriotic songs. The venue reverberated with patriotic fervour and enthusiasm. The celebration came to an end with the National Anthem. The attendees dispersed with the image of the fluttering tricolor in their mind and heart.





Ragam '23

The four-day Ragam '23 was held at NIT Calicut from March 9 to 12. One of the most significant cultural fests in South India conducted annually by the National Institute of Technology Calicut had a colourful start. Shri. Prakash Shetty, President of the NIT Calicut Alumni Association (NITCAA) and technical director of RS Group. Dr Prasad Krishna, the Director of NIT Calicut, presided over the function. Prof. Sathidevi P.S, Deputy Director; Cdr. (Dr.) Shyamasundara M. S, Registrar; Dr. Rajanikant G.K, Dean Students Welfare, Dr. Gopikrishna S, Faculty convenor; Muhsin Jifri, Ragam student convener and Akhil George Philip, Cultural Affairs Secretary (Student Affairs Council) were present.

The theme of Ragam was "The Book of eternal folklores". Kalolsavam, the much-awaited cultural fest, the Rajan Memorial Light music competition, Duffmuttu, Oppana, Bharatnatyam enthralled the audience.

The Rajesh Kumar K K Award, presented in memory of Rajesh Kumar, a former alumnus of NIT Calicut for all-round abilities, was awarded to the fourth-year BTech student Ms Deepa Dileep Menon.

Day 1 of Ragam witnessed a series of programmes. One of the highlights of day one was the musical event 'Swararaaga', which featured Indian classical music with various Western instruments, creating a vibrant atmosphere. Babu Ramachandran, the anchor of Vallathoru Katha, narrated the legacy of Rajan. An exclusive interview with film director and scriptwriter Shyam Pushkaran was conducted, where he shared his valuable insights on the film industry.

The puppetry show by Harisree Kannan from the Tholpavakoothu Kalakendram captivated the audience with their stunning visuals and creative storytelling. Another crowd-puller was the "Rajan Memorial Light Music Solo", a tribute to Rajan, in whose honour Ragam is held. The crowd

was mesmerized by the energetic performance of DABZEE, who rose to fame through his famous Malayalam song "Manavalan Thug".

A pro-show by the renowned trio of the Mohan sisters - Shakti Mohan, Neeti Mohan and Mukti Mohan captivated the audience. This was followed by DJ Swattrex, who took the stage for an action-packed ride. The eventful day concluded with 'Couture Boulevard', a fashion show which showcased unique designs and a diverse range of trendsetters.

Day 2 of the event witnessed Mr. & Ms Ragam featuring young and budding fashionistas walking the ramp. Other programmes, such as Crime Scene Investigation, Duffmuttu, Maapilapattu and Kolkali, and sports events, such as Fury (basketball competition) and Ragnarok were hosted on the day. A folk-dance spectacle called the Garudan Parva is mainly practised in central Kerala, and interactive sessions with director duo Krishand and Jeo Baby (Purusha Pretham), YouTubers conclave with the GENZ YouTubers Aswin Ram and Ashwin Bhasker, Pro show featuring singing sensation Jubin Nautiyal, Kill The Clowns DJ, Choreonite were also held on the day.

The third day witnessed dance competitions like 'Taal Se Taal Mila', face to face (a face painting contest), mehendi, and salt and pepper (a cooking competition). The hijabi freestyle footballer Hadiya and the renowned Sufi band, Swasti, Musical programmes like Alfaz, western solo, rap battles and string solos mesmerized the audience. Various tournaments like Rubik's cube challenge, dart challenge and retro gaming stations, and adventurous games such as VR gaming, paintball, glow football and foam football were also conducted. The violin show by passionate violin enthusiast Mr Dhananjay was another major attraction of the day. Ragam '23 ended with an electrifying performance by Amit Trivedi, music composer, and the grooving beats from one of Kerala's most sensational bands, Avial.





Ragam '23



NIT Calicut celebrates 77th Independence Day with enthusiasm

The 77th Independence Day was celebrated with fervour at NIT Calicut. The ceremonies commenced when Prof. Prasad Krishna, Director, NITC, hoisted the National Flag at 9 am at the Open Air Theatre. Prof. Prasad Krishna also received the guard of honour from NCC cadets of NITC.

Col. (Retd.) Karunakaran was the Chief Guest on the occasion. Cdr. (Dr.) Shamasundara M S, Registrar; Prof. Rajanikant G K, Dean (Student Welfare) and Sub Lt. (Dr.) Chandrashekar Besta, Commanding Officer, NCC, NITC were also present.

During his Independence Day address Prof. Prasad Krishna described the unique cultural heritage of India and the progress made by the nation post-independence. He also highlighted some of the recent contributions of NIT Calicut in this march towards scientific and technological advancement of the country and urged the NITC community to come forward to work towards the betterment of the country, society and the world at large.

The Chief Guest, Col. (Retd.) Karunakaran, an army veteran who had served in Assam and Jammu and Kashmir, exhorted the students to utilize their talents to develop hardware and software solutions for the armed forces. Registrar Cdr. (Dr.) Shamasundara M S described various recent developments in military technology to throw light on areas where the NITC scientific community can potentially contribute. All the dignitaries emphasized the need for the citizens to stay united despite the diversity of their backgrounds.

Various student clubs and meritorious NCC cadets were presented with certificates of appreciation during the ceremony. A march past and an Independence Day procession were also organized. The function came to an end on a bright note with the cultural events by the students.



CONSTELLATE '23 Research Fest conducted at NITC

The research community of NIT Calicut organized its first-ever Research Fest, Constellate '23, on March 8, in association with Women Welfare and Social Empowerment (CWSE) NITC, IEEE PES Kerala Chapter, IEEE WIE, IEEE Malabar SubSection, and the working group on gender equality and disability(GED) of Civil 20, an official engagement of G20. The fest allowed research scholars from various universities to showcase their work, exchange ideas and collaborate on future projects. Three hundred fifty research scholars, including 41 external participants, registered for the day-long festival themed 'Women in STEAM'.

The fest was inaugurated by Harikumar K. P, from KSEB Malappuram and Secretary of IEEE Power and Energy Society Kerala Chapter. The institute administration led by Dr Prasad Krishna, the director of NITC, was also part of the inaugural function. 'Imagination Factory: Design to Product', a session by Dr Suresh Nair, co-founder and CEO of Design Alpha and former CTO of Nest, enlightened the audience on various product design techniques to satisfy customer requirements. The Poster Presentation event at the Bhaskara hall lobby was an opportunity for researchers to share and review research works from various fields. 'Choosing the right postdoc for you: Panel Discussion' (Event sponsored by IEEE PES Kerala Chapter), moderated by Dr Mervin Joe Thomas, had a panel of Dr Arun K Raj and Dr Samada Muraleedharan discussing the scope and aspects of postdoctoral programmes in India and abroad. 'Unravel: Researchers and their stories' was an opportunity for the alumni of the NITC PhD programme to inspire research scholars with stories of their PhD journey. Mr Govind Suresh, the CEO of ConsultEd, shared the tips and tricks for finding a PhD abroad in the afternoon. Dr Arun K Raj's session on writing for grants outlined the strategies of research correspondence. Dr Rahul Satheesh emphasized the effectiveness of LinkedIn in his engaging session titled 'Art of Networking and personal branding on LinkedIn.' Dr Arun Ramachandran's session, 'Plug your research in Startup', explained the road from research to innovative business.

Other programs for the fest included a treasure hunt, an elocution competition, an Interactive experience with augmented reality, research demonstrations and lab tours. The events were followed by a cultural evening in which the research community showcased their talents and a performance by Mathan, a renowned music director in Malayalam Cinema. The participants were grateful for the opportunity to interact and discuss research. The fest received favourable feedback from external participants as well.



Onam celebrated at NITC with traditional gaiety



Annual Sports 2022-23



The Center for Student Activities and Sports conducted the Institute's annual sports 2022-23 with different sports and games events and finally concluded with an annual sports day. For the student interdepartmental competitions, the centre organised a total of 15 games for both men's and women's categories. Moreover, there were interdepartmental competitions for faculties and staff. For the first time ever, it was conducted in the above 30 and below 30 age categories.

The Annual Sports Day 2022-23, held on Saturday, March 18, 2023, is the final sporting event for the institute. In the presence of CDR(Dr) MS Shamasundara, the event was formally inaugurated by the honourable director, Prof. Prasad Krishna. A welcome address was given by Prof. Rajanikant G.K., Dean Students' Welfare, and a vote of thanks was proposed by Mr. Dhanesh Rambeth, SAS officer, for the inaugural function.

More than 400 participants, including students, faculty, and staff, participated in various events organized for the athletic meet. A great deal of enthusiasm was seen in the students, faculty, and staff members. The sports day began with a colorful marchpast by all the participants, followed by athletic events. The event was concluded at 7 p.m. by the lowering of the institute flag.



For the first time in the institute, a Victory Day was organised to honour the winners of various Inter NIT competitions and Inter- departmental competitions for the year 2022-23. The Honorable Director Prof. Prasad Krishna presented prizes to the winners and honoured the various Inter-NIT medalists. More than 1100 medals were awarded on that day. For each interdepartmental competition in the student and faculty/staff categories, the best performer trophy was given out. The department of civil engineering finished as the overall runner-up, while the department of computer science and engineering won the trophy for the overall winners in the students category. In the Faculty/ Staff category, the Mechanical Engineering Department bagged the overall champions trophy, and the Civil Engineering Department secured the over-all runners trophy.





Annual Sports 2022-23





New Members of NITC Family

FACULTY LIST

Department of Architecture & Planning

Assistant Professor Grade II

1. SANIL KUMAR
2. SAMIKSHA SRICHANDAN
3. KIRITI SAHOO
4. JAYASREE T K
5. KIRUTHIGA K
6. SUSANTA BANERJEE
7. A. MANOJ
8. ABHISHEK KUMAR
9. KULADEEP KUMAR SADEVI

Department of Chemical Engineering

Assistant Professor Grade II

1. SUBHASIS MANDAL
2. ANIRUDDHA SANYAL
3. AHAMMED SHERIEF K Y
4. RANJITH PUNATHIL MEETHAL
5. SHIVANANDKUMAR VEESAM
6. DIVIJ KISHAL
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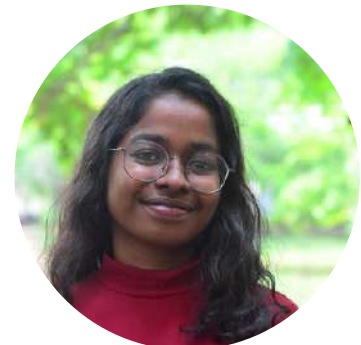
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NITC in Media

NIT Calicut inks MoU with Ulster University

Agreement aims at research collaborations and student and faculty exchanges

Monday, 11, 2023 09:00 pm | Updated Monday, 11, 2023 09:00 pm | Kozhikode

THE HINDU BUREAU

COMMENTS SHARE



NIT Calicut officials and Ulster University officials ink MoU for research collaborations, student and faculty exchanges. (Photo: NIT Calicut)

INDIAN EXPRESS
NATION WORLD STATES CITIES OPINIONS BUSINESS SPORT GOOD NEWS MOVIES PHOTOS VIDEOS

Hardwork pays off for Kerala education institutions in NIRF ranking

The list sees many new additions and those which had secured high on ranking in 2022

Published: 09:00 AM, 11th July 2023 | Updated: 09:00 AM, 11th July 2023 | Kozhikode

SPECIAL CORRESPONDENT

COMMENTS SHARE READ LATER

The National Institute of Technology Calicut (NIT-C) has set an all-time record in campus placements this season with 1,138 graduate and postgraduate students getting offers from over 200 firms.

The placement drive conducted in virtual mode saw four students from the computer science and engineering branch receiving the highest offer at ₹67.6 lakh per annum (LPA) from Tata Consultancy Services (TCS) on Tuesday.

THE NEW INDIAN EXPRESS
NATION WORLD STATES CITIES OPINIONS BUSINESS SPORT GOOD NEWS MOVIES PHOTOS VIDEOS

Home > States > Kerala

NITC looking to tap industry for faculty

NITC authorities are planning to engage eminent persons from industry or R&D organisations as professors of practice on a full-time basis.

Published: 16th July 2023 06:57 AM | Last Updated: 16th July 2023 06:59 AM

COMMENTS SHARE

National Institute of Technology Calicut. (Photo | Express)

By Express News Service

ONmanorama
CAMPUS CAREER CAMPUS ADMISSIONS EXAMS JOBS STUDY ABR

NIT, Calicut, charts out ambitious plans; new curriculum this year

V Mithran
Published: July 31, 2023 11:27 AM IST

India World Opinion Sports e-Paper

NIT-Calicut excels in NIRF ranking, jumps from 31st to 23rd position

The institute also retains its second position in Architecture for the third

Monday, 05, 2023 09:06 pm | Updated 09:47 pm IST - Kozhikode

THE HINDU BUREAU

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THE HINDU India World Opinion Sports e-Paper

FREE TRIAL

NITC organises G-20 workshop on clean water and energy

August 11, 2023 08:10 pm | Updated 08:10 pm IST - Kozhikode

THE HINDU BUREAU

COMMENTS SHARE READ LATER

The National Institute of Technology-Calicut (NITC) conducted a G20 workshop on 'Accelerating Progress on Sustainable Development Goals for Clean Water and Energy,' on Friday.

NITC in Media

NIT Calicut remains the most preferred engineering college for students in Kerala

Faculty and mentoring programmes are key components for the institute retaining the top slot

November 08, 2022 07:59 pm | Updated 07:59 pm | 102606026

THE HINDU BUREAU



First batch of students completes Japanese language course at NIT-C

February 03, 2022 07:59 pm | Updated 07:59 pm | 102606026

THE HINDU BUREAU



BIS Signs MoU with IIT Gandhinagar, IIT Guwahati & NIT Calicut to Set Up 'Standardization Chair Professor'

With an emphasis on eminent institutes, the standards authority launched an initiative to institutionalise its collaboration with the country's such institutes.

Shivan Dattak | Updated 23 February 2022 9:12 AM IST

f t in

Google News

NIT Calicut organises awareness rally on road safety

November 11, 2022 07:59 pm | Updated 07:59 pm | 102606026

THE HINDU BUREAU



Ragam' 23 cultural fest kicks off at NITC

March 05, 2022 07:59 pm | Updated 07:59 pm | 102606026

THE HINDU BUREAU



Ragam' 23, one of South India's biggest annual cultural festivals, organised by the National Institute of Technology - Calicut (NITC) was officially inaugurated on the campus on Thursday. Prabash Shetty, president of the NIT Calicut Alumni Association (NITCAA) and technical director of IS Group, was the chief guest.

NITC Director Prasad Krishna presided over the function. This year's festival revolves around the theme 'The Book of Daniel Jidibhavi' and will be held from March 10 to 12. It

NIT Calicut team wins accolades at e-Yantra Robotics competition

Students developed 'Smasher' for efficient maintenance of roads

November 08, 2022 07:59 pm | Updated 07:59 pm | 102606026

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A team from the National Institute of Technology Calicut (NIT C) bagged the top position at the national level e-Yantra Robotics competition conducted by IIT Bombay on Sept 3. The team comprising Eklite Roshan, Abhinav and Chaitanya along with Engineering and Tech Park, Calicut, Kerala and Government Tech Park, Mysore, Karnataka and

NIT Calicut sets up science tinkering laboratory at Govt. L.P. School

Facility to make learning concrete and experiential

September 08, 2022 07:59 pm | Updated 07:59 pm | 102606026

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Crowds throng NIT Calicut stall at DISHA expo

November 08, 2022 07:59 pm | Updated 07:59 pm | 102606026

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Union Minister launches new projects at NIT-Calicut

February 26, 2022 07:59 pm | Updated 07:59 pm | 102606026

THE HINDU BUREAU



KMTC joins hands with NIT Calicut to boost medical technology research

39 delegates including heads of major hospitals, medical colleges, and about 100 doctors from Govt. Medical College Kozhikode took part in the event

November 08, 2022 07:59 pm | Updated 07:59 pm | 102606026

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NIT Calicut ties-up with Japan Foundation

November 16, 2022 07:59 pm | Updated 07:59 pm | 102606026

THE HINDU BUREAU



NIT Calicut inks MoU with Bosch to launch M.Tech programme in Electric Vehicle Engineering

November 16, 2022 06:57 pm | Updated 08:07 pm | 102606026

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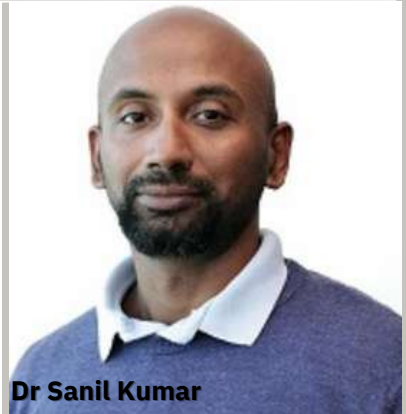


Prasad Krishna, NIT-C Director, and R.R. Chery, member of the executive leadership team and senior vice president of Andriy Engineering, Bangalore

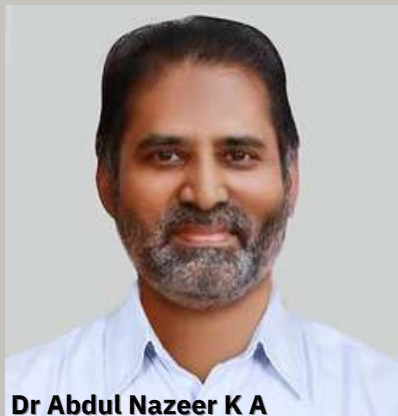


Dr Chithra K

THE TEAM



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Dr Amritha P K



Dr Nujoom Sageer Karat



Ms Sree K M



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2023 website, scan here



*Speech has
power.
Words do
not fade.
What starts
out as a
sound, ends
in a deed...*

Abraham Joshua Herschel



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