

community

VOLUME 5
ISSUE 2
MARCH - MAY '23

The official newsletter of NIT Tiruchirappalli



DIRECTOR'S MESSAGE

Greetings!

I am pleased to acknowledge the steps taken by NIT Tiruchirappalli in implementing the core principles of the National Education Policy (NEP) that emphasize the importance of a well-rounded education encompassing academic, vocational, and practical skills. Our Institute is working towards the implementation of NEP 2020 by adopting innovative teaching methodologies, integrating technology effectively, and providing opportunities for interdisciplinary studies, research, experiential learning, and skill development with an entrepreneurial spirit. The efforts to implement NEP 2020 at NIT Tiruchirappalli reflect a fresh culture of innovation and progress within the institution.



NIT Tiruchirappalli has achieved remarkable success, securing the 9th position in Engineering and an impressive 21st position overall in the prestigious NIRF rankings for 2023, declared by the Ministry of Education. For the eighth consecutive year, we hold the top position among all NITs in the India rankings. This recognition reflects our commitment to academic excellence, innovative research, and creating an enriching learning experience. I express my heartfelt gratitude to our dedicated faculty, staff, and students for their unwavering commitment and hard work.

Last semester, we celebrated our Institute Day with great fervour and enthusiasm, reflecting on our journey, achievements, and future aspirations. NITTFEST, our annual inter-departmental cultural extravaganza, provided a platform for students from different disciplinary backgrounds to showcase their talent in music, dance, drama, and art, fostering creative expression. The Sportsfete also witnessed spirited participation from our students in various sporting events, with the marathon attracting 1500 participants from different departments. Additionally, Pragyan, our national-level techno-management festival, fostered innovation and entrepreneurship among budding engineers.

Through a successful collaboration with IIT Patna as part of the Yuva Sangam initiative proposed by the Government of India, our institute facilitated an exposure tour to Bihar for 45 young representatives from Tamil Nadu. These students were selected from various disciplinary backgrounds, ensuring district-wise representation, with preference to applicants from rural backgrounds. In return, our institute hosted young delegates from Bihar, organizing visits to sites of historical and cultural significance, and facilitating interactions with eminent individuals such as Padma Shri S. Damodharan, founder of the NGO Gramalaya, and Olympian and Arjuna Awardee Shri. Devarajan. The delegates from Bihar also had an interaction session with the esteemed Governor of Tamil Nadu, Shri. R.N. Ravi, at Raj Bhavan, Chennai.

As we continue on our journey, let us embrace new challenges and leverage the abundant resources and opportunities available at NIT Tiruchirappalli to make a positive impact on society.

Wishing you all the best for the upcoming academic year.

DR. G. AGHILA

CONTENTS

INSTITUTE

NIT Tiruchirappalli in the NIRF Rankings 2023
Institute Day
NITT-Yuva Sangam
International Women's Day
MoU: CEDI-NITT with TIDITSSIA
Signing of MoU with CEDI
MoU Signed with the Department of Census Operations
Launch of NIT Tiruchirappalli Skill Hub Web Portal
IGNITTE-JEE 2023
VERSION 2023
Workshop on Outcome Based Education (OBE)
National Level Workshop on Algebra and Analysis: Dept. of Mathematics
Karyashala Workshop on High Performance Computing: Dept. of CSE
Workshop on Solar Cells by NITT OPTICA & SPIE Student Chapter

RESEARCH & CONSULTANCY

Consultancy Grants
Projects
Self-Support Revenue Generated
Memoranda of Understanding (MoU)
Lab charges

ALUMNI

STUDENT EVENTS

PRAGYAN '23
NITTFEST '23
Sportsfete '23
Quality 2023
Probe 2023
Optima 2023
Lakshya 2023

Club Activities

Aayam
Akshara
Amruthavarshini
Music Troupe
Toastmasters
Pixelbug

PUBLIC RELATIONS AND MEDIA TEAM

PRINT MEDIA

Dr. N. Sivakumaran (Prof./ICE)
Dr. V. Sateeshkumar (Asst.Prof./Prod.)
Dr. P. A. Karthick (Asst.Prof./ICE)

CONTENT CREATION & MEDIA MONITOR

Dr. V. Sathiyaraj (Prof./HSS)
Dr. Nisha. V (Asst.Prof./HSS.)
Dr. Venkata Suryanarayana
Mummidi (Asst.Prof./Phy)
Dr. Jyoti Sahu (Asst.Prof./Chem.Eng)
Dr. Padmaja. M (Asst.Prof./HSS)

SOCIAL MEDIA

Dr. M. Brindha (Asso. Prof./CSE)
Dr. Jaanarthanan B (Asst.Prof./DoMS.)
Dr. Saikrishna Mothku (Asst.Prof./CSE)
K. Bhagyasri (Asst.Prof./Arch.)
Dr. Anu Kuriakose (Asst.Prof./HSS)
Dr. C. Oswald (Asst.Prof./CSE)

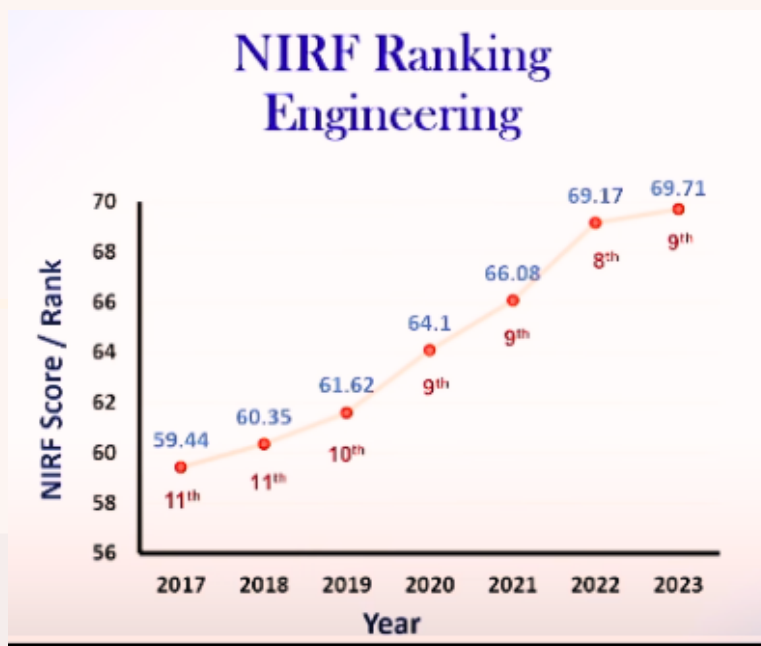
WEBSITE

Dr. P. Sridevi (Asso.Prof./DoMS)
Dr. Chandramani Chaudhary (Asst.Prof./CSE)
Dr. Malolan Sundaraman (Asst.Prof./DoMS)
Dr. Ghanshyam S. Bopche (Asst.Prof./CA)
Dr. Usha Kiruthika S (Asst.Prof./CSE)

NIT Tiruchirappalli retains No. 1 position among NITs in NIRF Rankings 2023

National Institute of Technology, Tiruchirappalli, has once again secured the prestigious No. 1 position among all NITs for the eighth consecutive year in the “India Rankings 2023” announced by the National Institutional Ranking Framework (NIRF), Government of India. NIT Tiruchirappalli continues to retain its position on the leader board in the company of established IITs in positions 1 to 8, demonstrating its commitment to excellence in education, research, and administration.

In the Engineering category, NIT Tiruchirappalli has secured an impressive overall score of 69.71 out of 100, earning it the 9th rank in the country. The institute has excelled in Teaching, Learning & Resources (TLR), Graduate Outcomes (GO), and Peer Perception. With a TLR score of 73.73, NIT Tiruchirappalli has shown its dedication to providing quality education and resources to its students. NIT Tiruchirappalli has also been recognized for its outstanding performance in the Overall category. With a total score of 60.43 out of 100, the institute has secured an impressive 21st rank, showcasing its all-round excellence in various aspects, including Research and Professional Practice (RP), Outreach and Inclusivity (OI), and Peer Perception. Furthermore, NIT Tiruchirappalli has substantiated its position as a premier research institution in the country by achieving an impressive 22nd rank in research.



In the Management category, NIT Tiruchirappalli has secured 35th rank, and an outstanding 4th rank in Architecture. These achievements highlight NIT Tiruchirappalli's commitment to providing quality education, fostering research excellence, and nurturing talent in various domains. The institute's consistent efforts to enhance teaching methodologies, promote research, and ensure inclusive education have been recognized and celebrated through these rankings.

The Director, Dr. G. Aghila, congratulates the entire NIT Tiruchirappalli community, including faculty, students, and staff, for their unwavering dedication and contributions. Their commitment to excellence has placed the institute among the top-ranking institutions in India, showcasing their collective efforts as the driving force behind this remarkable achievement. The Director also takes this opportunity to urge the stakeholders to persistently strive for excellence. She specially thanks the NIRF Data Intelligence Team for their sincere efforts in compiling the data for the ranking.

INSTITUTE DAY 2023

The 60th Institute Day of the National Institute of Technology Tiruchirappalli (NIT-T) was celebrated on April 28th 2023, in the gracious presence of Shri. Sudhanshu Mani, Retd. General Manager, Integral Coach Factory, Chennai, and the mastermind behind the Vande Bharat Express train. The celebrations were presided over by Dr. G. Aghila, Director of NITT, along with Shri Bhaskar Bhat, Chairman of the Board of Governors of NIT-T, who joined the event online.

In his Presidential address, Shri Bhaskar Bhat appreciated Shri. Sudhanshu Mani by emphasizing the Vande Bharat train as a great example of what India can do, and how engineers and managers as leaders can contribute to the nation. He mentioned in his speech the significant actions taken by NIT-T, especially the adoption of the New Education Policy (NEP), for a promising future. Appreciating the efforts of the Director Dr. Aghila, her team, and the diverse set of students from diverse parts of the country, he concluded his speech by thanking everyone who has contributed to the growth of the institute on behalf of the Board of Governors.

The Dean Academic, Dr. Ramakalyan Ayyagari, presented an exhaustive report of the academic achievements of NIT T in the academic year 2022-23, including the details of significant publications, sponsored projects, patents, consultancy, conferences, and guest lectures of faculty members from various academic departments. He highlighted the inauguration of the new lecture hall complex, 'Logos', and the inauguration of the Centre for Excellence as invaluable additions to the infrastructure of the institute. The celebration of International Women's Day and the Two-Day Workshop on Outcome Based Education for teachers, was also mentioned apart from the significant number of academic and non-academic events held on the campus.

Dr. G. Aghila, Director of NIT-T, in her address to the gathering, further stressed NIT-T's commitment to the NEP 2020 and congratulated the academic community for creating and fostering a culture of excellence. Remarking upon the achievements of the institution as a whole, she announced NIT-T's selection as a 'Skill Hub Centre' under the Pradhan Mantri Kaushal Vikas Yojana (PMKVY). The Director thanked the alumni for their contributions to the establishment of the Heritage Centre with an aim to create social impact. NIT-T also inducted 41 new faculty members last year, and created a record in the history of the institute with 1977 graduates receiving their degrees in the convocation held in August 2022.



The Institute Day address was delivered by the chief guest Shri. Sudhanshu Mani, who invoked the former President of India and the eminent scientist Dr. A. P. J. Abdul Kalam's motto, "A dream is not the thing that you see in sleep, but is the thing that doesn't let you sleep." Projecting the Train 18/Vande Bharat Express as the epitome of India's culture of innovation and excellence, he stressed that the progeny of every development has been a technological enhancement. He presented the audience with a history of the Train 18 project, and how the idea of a high-speed train has now provided the nation- Athmanirbhar - a sense of pride and ownership and has made it compatible enough with other developing countries across the world. He concluded by re-stating the example of Vande Bharat as an aspirational symbol of resurgent India, an India which can create products of its own, and also presented his book on the Vande Bharat journey, "My Train 18 Story," to the Director.

The event also saw the felicitation of the best outgoing students of the undergraduate and postgraduate programs with 40 Alumni Awards. Furthermore, the best performers among the faculty and staff of all cadres were felicitated. Awards for the best performing departments were announced in which the Department of Civil Engineering and the Department of Physics, respectively won the titles in engineering and non-engineering categories. The teams behind various co-curricular and extra-curricular activities, such as Festember, Pragyan, NITTFest, and the events organized by the Amrutavarshini Club, were also felicitated. The Student Council for 2023-24 was introduced by the incumbent President of the Student Council, Navati Trinesh.

YUVA SANGAM PHASE II



Yuva Sangam II encouraged the participation of youngsters from 23 States and UTs of India with exposure tours conducted in April and May 2023. Yuva Sangam II tours were organized in collaboration with the Ministries of Education, Home Affairs, Culture, Tourism, DONER, Youth Affairs & Sports and I&B, along with AICTE, IRCTC, and Railways.

Nearly 20 institutions were paired for the Yuva Sangam II exchange visit. National Institute of Technology Tiruchirappalli, was paired with the Indian Institute of Technology Patna, with a team of 45 youths visiting Bihar.

NITT received nearly 1500 applications for the Yuva Sangam II tour from all over Tamil Nadu, out of which 23 girls and 22 boys were selected by a high-level selection committee. The chosen team from Tamil Nadu comprised youths from various disciplinary backgrounds, such as education, pharmacy, science, law, business, literature, physiotherapy, economics, medicine, engineering, etc. The selection was motivated by district-wise representation and preference for applications from rural backgrounds. Nearly 18 of those selected are first-time travellers outside the state of domicile.

The contingent from Tamil Nadu started their journey on 8th May 2023 and returned on 18th May 2023. The flag-off event for the Tamil Nadu contingent was held on 8th May 2023 by the Director of Airports Authority of India, Tiruchirappalli, the Divisional Railway Manager, Indian Railways, Tiruchirappalli and by Dr. G. Aghila, Director, National Institute of Technology, Tiruchirappalli.

The Tamil Nadu delegates met the Hon'ble Governor of Bihar on the first day. Subsequently, they visited Bodh Gaya, Vaishali, Nalanda and other heritage sites of repute and gained an overview of the five objectives of Yuva Sangam: Paryatan (Tourism), Parampara (Traditions), Pragati (Development), Paraspar Sampark (People-to-people connect), and Prodyogiki (Technology).



The Yuva Sangam team selected by the Indian Institute of Technology Patna arrived in Tiruchirappalli on 7th May 2023 and returned to Patna on 14th May 2023. The Bihar delegates visited the Tanjore Brihadisvara Temple on 8th May 2023, also visiting a village en route to Kallanai. A welcome event for the delegates was organized by the Confederation of Indian Industries (CII) and CII- Young Indians. Representatives from the district administration, such as the District Collector, the Commissioner of Police, the Commissioner of the Corporation, other industrial members, and NGOs, interacted with the youths during the welcome programme by 'Citizens of Tiruchirappalli.' The exposure to the history of Tiruchirappalli garnered an enthusiastic response from the Bihar contingent upon their visit to Rock Fort.

The Bihar youths visited several historical sites, including Keezhadi, en route to Kanyakumari. They also visited India's largest onshore wind farm (1.5 GW) at Mupandal and the indigenous cryogenic engine facility at the ISRO Propulsion Complex (IPRC), Mahendragiri.

Padma Shri S. Damodharan, founder of the NGO Gramalaya, Shri. Devarajan, Olympian, Arjuna Awardee (Boxing), and NIT Tiruchirappalli Alumni met with the delegates from Bihar on 11th May 2023.

The contingent from Bihar interacted with the Hon'ble Governor of Tamil Nadu on 12th May 2023, which was followed by a visit to Mahabalipuram the next day. The tour concluded on 14th May 2023 on the premises of the Indian Institute of Technology Madras, Chennai.

International Women's Day Celebrations 2023

National Institute of Technology Tiruchirappalli (NIT Trichy) celebrated International Women's Day 2023 from the 6th to the 10th of March 2023. The institute's Women Cell, chaired by Dr. S. Velmathi, with members Dr. L. Saikala, Dr. S. Sangeetha, Dr. V. K. Karthika and Ms. N. Vijayalakshmi, organised the week-long celebrations.

The programme was inaugurated on 6th March by the renowned gynaecologist Dr. S. Chitra, the founder of Janani Fertility Centre and Lalitha Nursing Home Trichy, who addressed the NIT-T community on "Women: Health and Well-being." The director of NIT Trichy, Prof. G. Aghila, delivered her presidential address and emphasised the importance of women using technology and innovation to embrace equity. In the evening, there was a throwball match conducted for the NIT Trichy women community.

Following an alumni spotlight talk by Soundarya Balasubramani on the 5th March, organised by WIN-NITT in collaboration with Pragyan, a workshop was conducted on 6th March on Competitive Programming as part of the Women's Day celebrations.

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On the 7th of March, joining the nation in observing the year 2023 as the Millet Year, a “Food without Fire Using Millets” contest was conducted. This event witnessed the enthusiastic participation of faculty, staff and students. The participants made short presentations on the health benefits of millets based on the dishes they prepared. Later in the evening, staff and students actively participated in the various group and individual contests which included Rangoli Design, Mehendi Design, Face Painting, CD Painting and Pot Painting, making the Holi eve rich with colours. Online contests such as Lullaby singing, Photography contest, Elocution contest, and Dance competitions were announced and received overwhelming entries.

On the 8th of March, the celebrations were held in collaboration with the Ladies Club of NIT Trichy. The same day, a guest lecture on Women and Law was given by Ms. Sridevi B.A., B.L. On 9th March, on the fourth day of the celebrations, the Women Cell organized a guest lecture by Ms. B. Shridevi, Deputy Commissioner of Police (South), Tiruchirappalli City. She spoke on Women and Safety and stated that women themselves must take steps for their empowerment and should also help other women do so. Discussing the awareness one should have while using cyberspace, public transport, and public roads, she said that keeping one’s own safety as the focal point is very vital



Her Excellency Dr. Tamilisai Soundararajan, the Governor of Telangana and the Lt. Governor of Puducherry, was the guest of honour for the finale of the week-long International Women’s Day 2023 celebrations of NIT Tiruchirappalli. The grand valedictory function on the 10th of March was presided over by our director, Dr. G. Aghila. The entire programme was coordinated by the Women Cell of NIT Trichy, chaired by Dr. S. Velmathi, who welcomed the dignitaries and the gathering to the function. A brief report of all the guest lectures, technical events, arts, sports and cultural contests organised as part of the Women’s Day celebrations was presented. Dr. G. Aghila felicitated the honourable Governor with a customised wooden engraved plaque and a memento.

In her keynote address, Her Excellency Dr. Tamilisai Soundararajan discussed the value of men and women cooperating to advance the cause of gender equality. She remarked upon the value of women striking a balance between their personal and professional lives, and emphasized the importance of women being digitally literate. Dr. G. Aghila, in her presidential address, emphasised the importance of women empowering themselves by placing themselves first and being at the forefront of positive societal changes and by responding towards challenges with vigour and rigour. She iterated the need to use innovation and technology as enabling tools for women to embrace equity.



Dr. L. Saikala, a member of the Women Cell, proposed the vote of thanks. The best entries of all online competitions were streamed on the institute's YouTube channel on the 12th of March 2022.

Signing of MoU | CEDI NITT with TIDITSSIA

The Centre for Entrepreneurship Development and Incubation (CEDI) NIT Tiruchirappalli and Tiruchirappalli District Tiny and Small-Scale Industries Association (TIDITSSIA) announced their strategic collaboration to support innovation and growth in the MSME Sector in May 2023. The collaboration was formalized through a Memorandum of Understanding (MoU) signed on 23rd May 2023. This MoU set the foundation for a cooperative framework, enabling both organizations to work together in several key areas related to the Startups and MSME sector.



This partnership aims to promote the development and growth of technology startups and early-stage companies in the Districts of Tamil Nadu. By leveraging their combined expertise, resources, and networks, CEDI NITT and TIDITSSIA aim to create a thriving ecosystem that empowers entrepreneurs and drives economic growth in the MSME sector. Under the terms of the MoU, both organizations will engage in joint initiatives to Foster the growth of technology startups and MSME sector by providing them with access to resources, mentorship, and networking opportunities, and share knowledge, information, and the best practices on the latest trends, challenges, and opportunities in the MSME sector, thus enabling startups and early-stage companies to make informed decisions.

The aim is to facilitate connections between startups, MSME companies, potential investors, mentors, and industry experts, creating a supportive ecosystem that encourages collaboration and growth. They also aim to advocate for the development of policies and initiatives that promote innovation and create a favourable environment for startups and MSMEs, and organize joint events, workshops, and activities designed to support the development and success of early-stage enterprises, including skill development programs and co-creation opportunities.

We are delighted to enter into this strategic collaboration with TIDITSSIA," said Dr. M. Umapathy, Director of CEDI NITT. He further stated, "Together, we will work towards providing startups and early-stage companies with the necessary support, knowledge, and connections to accelerate their growth and success. This partnership reflects our shared commitment to driving innovation and fostering a vibrant entrepreneurial community in the MSME sector."

“Mr. P. Rajappa, President of TIDITSSIA, further remarked, “at TIDITSSIA, we are passionate about supporting the interests of companies in the MSME sector and driving their growth. This collaboration with the NITT Incubator, CEDI, will strengthen our efforts by providing startups and existing MSMEs with valuable resources, mentorship, and networking opportunities.”

The MoU was signed between Mr. S. Gopalakrishnan, Secretary, TIDITSSIA and Dr. M. Umapathy, Director CEDI NITT, Professor HAG, ICE Department, NITT, in the presence of the CEDI Ecosystem Partner Mr. G. Sahadevan, Regional Manager, TIIC Trichy, CEDI NITT, Board of Directors, Dr. G. Lakshminarayanan, Professor ECE Department, NITT, Dr. S. R. Balasundaram, Computer Application Department, NITT, Mr. G. Krishnan, CEO, CEDI-NITT and Mr. K. Susil Kumar, Advisor, CEDI and Dr. C. Roobala, Scientific Officer, Sophisticated Instrument Facility, NITT. In addition, representatives from TIIC, a financial investment institution and partner of CEDI, actively participated in the meeting. With TIIC's involvement, the partnership between TIDITSSIA and CEDI NITT is further strengthened, as they bring valuable financial expertise and support to the initiative. This collaboration represents a significant step towards nurturing innovation, fostering entrepreneurship, and contributing to the overall development of the Trichy regional entrepreneurial ecosystem.

MoU signed between the Directorate of Census Operations, Tamil Nadu, and NIT Tiruchirappalli for Research Workstation on Census Data

Under the aegis of the Ministry of Home Affairs, The Directorate of Census Operations (DCO) Tamil Nadu and the National Institute of Technology (NIT) Tiruchirappalli signed a Memorandum of Understanding (MoU) on 11th May 2023, to establish a Census Data Workstation to promote research on census microdata.



The MoU was signed by representatives of the DCO, Shri. Sajjansingh R. Chavan, IAS (Director) and Ms. V. K. Subha (Deputy Director) and Dr. G. Aghila, Director, NIT Tiruchirappalli, in the presence of Dr. V. Sankaranarayanan, Dean (Research and Consultancy), Dr. N. Sivakumaran, Head of the Department, Computer Support Group, Dr. R. Anand, Associate Dean (Research & Consultancy-Industry & Outreach) and Mr. Faizal Ahamed, Nodal Officer of the Census Data Workstation.

NIT Tiruchirappalli is the first among the 31 centrally funded NITs to facilitate collaborative research on census data, thus providing a consolidated platform for researchers and data-enthusiasts to analyse data generated during census operations in a secure manner. The Office of the Registrar General of India has set up workstations in different universities/institutes to make anonymized census microdata available to qualified researchers for in-depth study. Having access to authenticated demographic data can provide evidence-based insights into the social and economic characteristics of the population, which can aid policymakers in formulating effective policies and programmes.

The workstation at NIT Tiruchirappalli is also designed to support research that would identify the strengths and weaknesses of microdata and help improve the methodology of data collection during census-taking. The facility will be fully equipped with the latest software, including Windows Server OS, and statistical software such as SPSS and STATA. This will ensure that researchers have access to the tools they need to conduct rigorous analyses of the microdata from Census 2001, Census 2011, and beyond. The MoU signed between the Directorate of Census Operations and NIT Tiruchirappalli is a significant step towards encouraging research on Indian census data. The Census Data Workstation promises to be a valuable resource for researchers looking to gain insights into demographic trends and patterns, as well as for those interested in improving the methods used to collect and analyze microdata.

Launch of the NIT Tiruchirappalli Skill Hub Web Portal

The Ministry of Education and the Ministry of Skill Development & Entrepreneurship have recognized NIT Tiruchirappalli as a Skill Training Hub for offering vocational training for unemployed youths and school dropouts. The Skill Training Hub is being setup at NIT Tiruchirappalli as a part of Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 4.0 scheme implemented under National Skill Development Corporation (NSDC).



Shri. Bhaskar Bhat, Chairman, Board of Governors, NIT Tiruchirappalli, inaugurated the NIT Tiruchirappalli Skill Hub web portal on 22/05/2023 at 11.00 AM in the presence of Dr. G. Aghila, Director, NIT Tiruchirappalli. This marks an important milestone in NIT Tiruchirappalli's commitment to skill development and empowering individuals for a brighter future.

The Skill Hub at NIT Tiruchirappalli has been envisioned to train more than 2500 beneficiaries in the age group of 15 - 45 at free of cost. Each training will be conducted for a period of 250 – 300 hours in different sunrise sectors such as 3D printing, Solar PV design, IoT, Data Analytics, Robotics, Office Executives and many more. Trained participants will be awarded certificates authorized by NIT Tiruchirappalli and NSDC. During the inauguration of skill hub centre web portal, the Director, Dr. G. Aghila, said that “The Skill Hub Centre at NIT Tiruchirappalli perfectly aligns with the implementation of National Education Policy (NEP) 2020 which will be of benefit to the students, alumni and the public. NIT Tiruchirappalli will take this forward as a long-term activity in catering the employment needs of graduates & unemployed youths”. Speaking on the occasion Dr. V. Sankaranarayanan, Dean (R&C) said that depending on the demand of the targeted beneficiaries, customized courses will be launched to skill the trainees suitable to a market-driven job profile.

This centre will play a crucial role in the creation of a skilled workforce in the delta region of Tamilnadu, including Trichy, Tanjore, Karur, Perambalur, Pudukkottai districts, creating more job opportunities and economic growth. The NIT Tiruchirappalli Skill Hub Centre is not just about skill development; it's also about transforming lives and creating a brighter future. The courses are carefully designed to provide hands-on training, industry exposure, and practical knowledge that directly align with the current industry requirements as per National Skills Qualification Framework (NSQF).

Govt. School students Qualified for JEE Advanced 2023 trained by IGNITTE



IGNITTE, the teaching club of NIT Trichy, successfully trained another set of government school students for the JEE Mains and Advanced exams, free of cost. Ramalakshmi M from the Government Girls Higher Secondary School, Pattamadai, Tirunelveli, a club student since 2021, has scored 95.226 percentile in the JEE Mains, qualifying for JEE Advanced.

Concepts were taught through online classes on weekdays and offline classes on some weekends, supplemented with resources and mock tests. A crash course was conducted from December 26, 2022, to January 12, 2023, at the NIT Trichy campus to enhance preparations and exam strategies. Furthermore, 5 students scored above 80 percentile and 3 students scored above 75 percentile, making a total of 9 students trained by the club qualify the JEE Advanced examination. NIT Trichy congratulates the achievers and wishes them success for JEE Advanced. In the last 3 years, IGNITTE has assisted 2 students who got admission to NIT Trichy and a student each in IIT Madras and Stanley Medical College.

IGNITTE has a team of 50 members studying at NIT Trichy, who assist the students and are committed to providing equal opportunities to all students, irrespective of their financial constraints, to help them fulfil their aspirations. The members of IGNITTE express their thanks to Dr G. Aghila, Director, NIT Trichy, Dr. R. Karvembu, Dean (Students Welfare), Dr N. Kumaresan, Dean (Faculty Welfare), the District administration of Trichy and Tirunelveli, and the Faculty advisors of IGNITTE, Dr. R. Manjula and Dr. K. Selvakumar for their assistance throughout the year.

VERSION 2023

Version is an all India MCA meet organized on an annual basis by the Department of Computer Applications of NIT Trichy. The 30th edition of VERSION, under the banner of the Association of Computer Applications, Science and Technology (ACAST), was conducted from 17th March 2023 to 19th March 2023 on the theme Extended Reality.



The event was inaugurated by our Director, Dr. G. Aghila. Mr. Vijay Karunakaran, CEO, and Founder of InGage Technologies and former Director at Intel, was the chief guest of the day. InGage Technologies is developing extended reality-based products for Industrial applications. He delivered a technical session on Virtual Reality (VR), Augmented Reality (AR) and Extended Reality (XR) and its various industrial applications. This edition of Version witnessed exciting technical talks, podcasts, technical and non-technical events, with the participation of students from various colleges of India.

Workshop on Outcome Based Education (OBE)

NIT Tiruchirappalli conducted a workshop for its faculty on outcome based education (OBE) between 24th-25th March 2023. A total of 97 faculty members from NIT Tiruchirappalli comprising mainly newly recruited faculty, along with faculty members from nearby institutions, participated in the workshop. The workshop centered on teaching and evaluation methods for the implementation of OBE. Dr. Samavedham Lakshminarayanan from NUS Singapore, Dr. Briju Thankachan from EdTech Society and Dr. Edamana Prasad from IIT Madras were the experts who conducted the workshop sessions. In addition, there were sessions by NIT Tiruchirappalli faculty, Dr. T. K. Radhakrishnana, Dr. Ramakalyan Ayyagari, and Dr. P. Raja. The topics covered ranged from Achieving Excellence in Teaching and Learning, how to write higher level application questions using Bloom's taxonomy, Dos and Don'ts in OBE and National Board of Accreditation's (NBA) criteria for OBE.

Outcome based education (OBE) involves a restructuring of curriculum, assessments and teaching practices so as to focus on the ways in which learners demonstrate the learning outcomes. OBE practices are interesting in achieving a higher order learning and gauging what students can actually do with the knowledge acquired in the class room. The OBE model equips teachers with the ability to envision the outcomes of a course or programme and design methodologies and assessments accordingly. OBE ensures equal participation of teachers and students in the teaching-learning process.



OBE is a central feature of NEP 2020 and is recognized by renowned boards accrediting higher education institutions in India, such as the NBA. The workshop was organized with a view to provide the necessary training for improving both teaching and learning outcomes, and also to familiarize the faculty members with the essentials of the accreditation process.



National Level Workshop on Algebra and Analysis Department of Mathematics

A Five-Day National Level Workshop on “Algebra and Analysis” (WAA 2023) was organized by the Department of Mathematics, National Institute of Technology Tiruchirappalli (NITT) from May 22nd to May 26th, 2023.

The workshop aimed at providing an in-depth exploration of the fundamental concepts and techniques of Algebra and Analysis which are indispensable for postgraduate students, research scholars and faculty members. Its objective extended beyond theoretical knowledge, as it sought to develop participants' problem-solving skills in these subjects. The workshop helped the M.Sc. students, research scholars and faculty members in preparing for various entrance exams such as NET, GATE, NBHM, and others.

A total number of 130 postgraduate students, research scholars and faculty members from various states participated and benefited from this hybrid workshop. In the inaugural session, Dr. I. Jeyaraman, Convener of the workshop welcomed the dignitaries and participants. The Director of NITT, Prof. G. Aghila inaugurated the workshop and delivered the presidential address. The chief guest of the event was Dr. Veeramani, former professor of IIT Madras. The inaugural function was felicitated by Prof. V. Kumaran, Professor and Head, Department of Mathematics, NITT. The function concluded with the vote of thanks by Dr. N. Prakash, coordinator of WAA 2023.

The first technical session was delivered by Dr. P. Veeramani, former professor of IIT Madras on Real Analysis. Dr. S.V. Bharanedhar, CUTN, Thiruvarur handled the afternoon session on Complex Analysis and trained the participants to solve problems on Complex Analysis.

On the second day of the workshop, Dr. A. Sairam Kaliraj, IIT Ropar, led an engaging session on problem-solving in Complex Analysis, specifically addressing singularities. The session commenced with an exploration of the uniqueness theorem, as Dr. Kaliraj skillfully applied it to tackle diverse problem scenarios. The morning session of the second day programme concluded with a tutorial session handled by department PhD scholar, Ms. Shalu Yadav in which hands-on training was offered on solving problems in Complex Analysis. Later, Dr. G. Arunkumar, IIT Madras, discussed Field Theory.

Real Analysis and Algebra were the topics of discussion for the third day. Dr. N. Prakash, NIT Tiruchirappalli discussed continuity, differentiability, and sequence and series, after which Mr. Vimal Kumar, Research scholar of our department handled the tutorial session on Real Analysis. The day ended with a lecture by Dr. G. Arunkumar, IIT Madras on Algebra.

The next day began with a discussion on Linear Algebra led by Dr. Rajesh Kannan, IIT Hyderabad followed by two tutorial sessions by Research Scholars, Mr. Daniel and Ms. Poornima on Algebra and Linear Algebra, respectively. Dr. Rajesh Kannan continued his lecture on Linear Algebra in the last session of the day.

The morning session of the last day began with a lecture on Algebra by Dr. G. Arun Kumar from IIT Madras. Then, Dr. I. Jeyaraman from NITT, discussed Linear Algebra and delved into the application of various methods in solving problems on Diagonalization and Quadratic forms.

The valedictory function was held on the fifth day afternoon. Dr. M. Sivanesan, Coordinator of WAA 2023, welcomed everyone. Dr. V. Kumaran, Professor and Head, Department of Mathematics, NITT, proposed the valedictory address and Dr. I. Jeyaraman, Convener of WAA 2023 delivered the concluding remarks. During the feedback session, the participants expressed that the workshop had been immensely helpful in preparing them for exams such as NET, GATE, NBHM, and other entrance exams. Dr. N. Prakash, the Coordinator of WAA 2023, proposed the vote of thanks.

Karyashala Workshop on High Performance Computing: Department of CSE

The Department of Computer Science & Engineering and the Department of Applications, National Institute of Technology Tiruchirappalli organized a one-week high-end workshop on “High Performance Computing: A Hand-on Approach” (Under Accelerate Vigyan Karyashala Scheme) sponsored by the SERB, Department of Science and Technology, Government of India. The event was conducted from May 22-28, 2023, organized and coordinated by Dr. Rajeswari Sridhar, Associate Professor, Department of Computer Science & Engineering, NIT Tiruchirappalli and Dr. G. R. Gangadharan, Associate Professor, Department of Computer Applications, NIT Tiruchirappalli.



The forenoon session of Day 1 was on “An Overview of High-Performance Computing” by Shri. Ashish P Kulvekar, Senior Director, CDAC, Pune. The afternoon session of Day 1 was titled “Hands-on in Linux”, offered by Shri. Nikil Patil. Day 2 consisted of forenoon and afternoon sessions on Open MP and MPI (with Hands-On) by Shri. Himanshu Sharma and Shri. Parikshit Ardhapurkar, C-DAC, Pune. Day 3 consisted of forenoon and afternoon sessions on HPC Profiling and Performance (Hands-On) by Shri. Himanshu Sharma and Shri. Parikshit Ardhapurkar, C-DAC, Pune.

The forenoon session of Day 4 was on Cloud & Edge Computing by Dr. G. R. Gangadharan, Associate Professor, NIT Tiruchirappalli. This was followed by a Visit to the PARAM PORUL Super Computing Center (under the National Super Computing Mission) of NIT Tiruchirappalli. The afternoon session of Day 4 was on Cloud Computing Tools (with Hands-On) by Dr. S. Krithica, Anna University, Chennai. Day 5 consisted of forenoon and afternoon sessions on the Theory and Hands-On in CUDA Programming by Shri. Bharatkumar Sharma, NVIDIA.

The forenoon session of Day 6 was on Quantum Computing by Dr. Naresh Raghava, C-DAC, Bangalore, followed by the afternoon session on Design Issues in High Performance Computing (with Demo) by Ms. Prachi Pandey, C-DAC, Bangalore. Day 7 consisted of a forenoon session on “High Performance Computing and Artificial Intelligence: Industry Perspectives” (with Demo) by Dr. Shriram Vasudevan, Intel Corporation, Bangalore.

Towards the end of the event, a final afternoon session on Day 7 was open for Q&A and feedback, followed by a Quiz session on the topics covered in High Performance Computing. The event concluded with a valedictory function. The participants were provided with Certificates of participation.

One-day Workshop on Solar Cells



On March 22, 2023, an engaging and informative one-day workshop on solar cells was conducted by the NITT OPTICA & SPIE Student Chapter. The event aimed to provide participants with a comprehensive understanding of solar cell basics and the latest trends in the field. Around one hundred enthusiastic participants, including students from NIT and nearby educational institutions, eagerly joined the workshop.

The workshop's highlight was the presence of esteemed speaker Prof. Sebastian Lourdudoss, hailing from the prestigious KTH, Royal Institute of Technology in Sweden. Prof. Lourdudoss, renowned for his expertise in solar cell research, delivered an insightful presentation on the fundamentals of solar cells and shed light on the recent advancements in the field. His expertise and passion for the subject resonated with the audience, and he encouraged active participation and interaction throughout his session. In addition to sharing knowledge about solar cells, Prof. Lourdudoss took the opportunity to acquaint the participants with the innovative practices followed at KTH, Sweden. He discussed ongoing research projects and highlighted the collaborative opportunities for young researchers in Sweden. This discussion opened doors for the participants to explore international research avenues and fostered their enthusiasm for pursuing advanced studies in the field.

Following the enriching lectures, the participants were given the opportunity to visit the sophisticated instrumentation facility housed in the Department of Physics at NIT, Tiruchirappalli. This facility showcased cutting-edge equipment and technologies in solar cell research and development. The participants witnessed first-hand the intricate processes involved in fabricating and testing solar cells. The researchers and technicians at the facility warmly welcomed the participants and patiently answered their queries, further enhancing their understanding of the subject. To provide a holistic experience, the workshop also included visits to various research laboratories at NIT, Tiruchirappalli. This allowed the participants to explore the ongoing research projects related to solar cells and engage in discussions with the researchers. These interactions provided valuable insights into the practical aspects of solar cell research, deepening the participants' knowledge and fostering a collaborative spirit.

Overall, the one-day workshop on solar cells organized by NITT OPTICA & SPIE Student Chapter proved to be a resounding success. The participants not only gained a comprehensive understanding of solar cell basics and recent advancements but also had the opportunity to interact with an eminent expert in the field. Visiting the instrumentation facility and research laboratories further enriched their learning experience. The workshop undoubtedly served as a catalyst for the participants' interest in solar cell research, inspiring them to contribute to the field and explore future opportunities for collaboration and innovation.

Research and Consultancy Report: March-May 2023

Consultancy

- Dr. S. Muthukumaran, Professor, Department of Metallurgical and Materials Engineering, received Rs. 491,942 as charges towards consultancy services rendered to various establishments.
- Dr. D. Nagarajan, Assistant Professor, Department of Metallurgical and Materials Engineering, received Rs. 498,432 as charges towards consultancy services in the months of March and April.
- Dr. N. Siva Shanmugam, Associate Professor, Department of Mechanical Engineering, received Rs. 46,991 as charges towards consultancy services rendered to various establishments.
- Dr. R. Raghavan, Associate Professor, Department of Civil Engineering, received a sum of Rs. 59,000 as charges for his consultancy works.
- Dr. K. Muthukkumaran, Professor, Department of Civil Engineering, received Rs. 1,175,870, as charges for his consultancy services for various establishments.
- Dr. R. Senthil Kumar, Assistant Professor, Department of Civil engineering, received Rs. 696,200 as charges towards consultancy services for various establishments.
- Dr. Jeevan Joseph, Assistant Professor, Department of Civil Engineering, received Rs. 70,800 from Urban Habitat Development Board, Tiruchirappalli as consultancy charges.
- Dr. M Bhaskar, Professor, Department of Electronics and Communication Engineering, received Rs. 2360 as charges for his consultancy services.
- Dr. Mashudha Sulthana, Assistant Professor, Department of Civil Engineering, received Rs. 449,000 as consultancy charges from The Director, National Institute of Food Technology - Entrepreneurship and Management (NIFTEM -T), Thanjavur.
- M.P. Selvan, Associate Professor, Department of Electrical and Electronics Engineering, received Rs. 171,690 as charges towards his consultancy services rendered in the months of March and April.
- Dr. R. Gandhimathi, Professor, Department of Civil Engineering, received Rs. 4720 as charges for consultancy services.
- Dr. J. Karthikeyan, Associate Professor, Department of Civil Engineering, received a sum of Rs. 1,132,900 as charges towards consultancy services for various establishments.
- Dr. D. Deendayal, Associate Professor, Department of Civil Engineering, received a sum of Rs. 194,700 as charges towards consultancy services for various establishments.
- Dr. S.T. Ramesh, Professor, Department of Civil Engineering, received Rs. 46,020 from NIT Nagaland for his consultancy services.

Research and Consultancy Report: March-May 2023

- Dr. S.P. Kumaresh Babu, Professor, Department of Metallurgical and Materials Engineering, received Rs. 5310 as consultancy services charges.
- Dr. N. Ramesh Babu, Professor, Department of Metallurgical and Materials Engineering, received Rs. 126,365 as charges towards consultancy services rendered to various establishments.
- Dr. V. Sunitha, Associate Professor, Department of Civil Engineering, received 56,640 as consultancy service charges.

Projects

- Dr. RL. Josephine, Department of Electrical and Electronic Engineering, has been granted Rs.600000 by RANE for a period of 8 months for the project: Auxiliary inverter development for steering pump motor used in E-mobility.
- Dr. S.P. Kumaresh Babu, Department of Metallurgical and Materials Engineering, has been granted Rs.14677000 by CMPDI for a period of 24 months for the project: Prevention of premature failures and enhancing life of bottom rollers used in bucket wheel excavators.
- Dr. Vaira Vignesh, Mentor: Dr. P. Sathiya, Department of Production Engineering, has been granted Rs.1,005,000 by the SERB agency for a period of 36 Months for the works of SERB TARE.
- Dr. N. Samsudeen, Department of Chemical Engineering, has been granted Rs. 5349369 by DST for a period of 36 months for the project: Energy Conservative Approach towards sewage water treatment integrated with power generation and Desalination using exoelectrogen and Algal Biocathode.
- Dr. V. Satheeshkumar, Department of Production Engineering, has been granted Rs.660000 by SERB for a period of 36 months for the project: Development of a mathematical system for performance evaluation of biodegradable plastic products towards environmental protection and lightweight sandwich structured artificial foot for below knee amputees.
- Dr. Gobinath VK, Mentor: Dr. G. Uma, Department of Instrumentation and Control Engineering, has been granted Rs.1005000 by the SERB agency for a period of 36 months for the works of SERB TARE.
- Dr. Santhosh Kumar, Mentor: Dr. M. Premalatha, Diploma in Electrical Engineering, has been granted Rs.1005000 by the SERB agency for a period of 36 months for the works of SERB TARE.
- Dr. R. Anand, Department of Mechanical Engineering, has been granted Rs.3273540 by DST BRICS for a period of 36 months for the project: Life Cycle assessment of CO2 reduction by energy efficient hybrid biomass pyrolysis and gasification.
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- Dr. S. Kumaran, Department of Metallurgical and Materials Engineering, has been granted Rs.5412000 by SERB for a period of 36 months for the project: Tuning Figure of Merit of Nanocrystalline Bi-Sb-Te-Se-Sn Thermoelectric Alloys via High Entropy Phenomena and Band Engineering.

- Dr. Jothi Lakshmi Nallasivam, Department of Chemistry, has been granted Rs.5358300 by SERB for a period of 36 months for the project: Photoredox catalyzed radical cross coupling reaction: Strategic utility towards bioactive heterocycles.
- Dr. P. Parthiban, Department of Production Engineering, has been granted Rs.3093794 by SERB for a period of 36 months for the project: Digitization of solar Photovoltaic Supply chain through Artificial Intelligence and Blockchain Technology.
- Dr. Kandasamy S, Mentor: Dr. G. Swaminathan, Department of Civil Engineering, has been granted Rs.1005000 by the SERB agency for a period of 36 months for the works of SERB TARE
- Dr. Prakash Binnal, Mentor: Meera Sherifa Begum, Department of Chemical Engineering, has been granted Rs.1005000 by the SERB agency for a period of 36 months for the works of SERB TARE
- Dr. G. Manju Bhargavi, Mentor: Dr. R. Karvembu, Department of Chemistry, has been granted Rs. 2889000 by DST for a period of 36 months for the project: Development of low-cost high-performance 3D electrocatalyst for hydrogen production.
- Dr. M. Sridevi, Department of Computer Science Engineering has been granted Rs. 390500 by IIT Mandi iHub Foundation for a period of 36 months for the project: Interactive Virtual Surgery Training Agent.
- Dr. S. Prasanna Venkatesan, Department of Production Engineering, has been granted Rs. 544000 by Department of Higher Education EBSB Cell for a period of 36 months for the project: Refurbishment of EOL personal computers/laptops with a focus on higher education institutions.

Self-Support Revenue Generated

- Department of Metallurgical and Materials Engineering generated a revenue of Rs.2400
- Department of Humanities and Social Sciences generated a revenue of Rs.19,500
- Department of Electronics and Communication Engineering generated revenue of Rs.81,000
- SIF + I STEM lab generated a revenue of Rs.155,476
- Department of Instrumentation and Control Engineering generated a revenue of Rs.53,265

Memoranda of Understanding (MoU)s signed

- Memorandum of Understanding (MoU) signed on 31st March, 2023, between the Director, NIT Tiruchirappalli, and the Director, HR, Armoured Vehicles Nigam Limited (GoI-MoD), Chennai, for a duration of 5 years under the aegis of the Dean R&C, NIT Tiruchirappalli.
- Memorandum of Understanding (MoU) signed on 11th May, 2023, between the Director, NIT Tiruchirappalli, and the Directorate of Census Operations (DCO) Tamil Nadu, for setting up a workstation for research on census microdata under the aegis of the CSG department, NIT Tiruchirappalli.

Lab Charges

- Dr. R. Karvembu, Department of Chemistry, received a sum of Rs.4,680 as lab charges for the Organometallics and Catalysis lab.
- Dr. S. Velmathi, Department of Chemistry, received a sum of Rs.58,270 as lab charges for NMR Spectrometer analysis.
- Dr. V. M. Biju, Department of Chemistry, received a sum of Rs.1100 as lab charges for Fluoromax-4CP Luminescence Spectrometer analysis.
- Dr. M. Premalatha, CEESAT, received a sum of Rs. 14,160 as lab charges for Analytical service.
- Dr. N. Ramesh Babu, Department of Metallurgical and Materials Engineering, received a sum of Rs. 2500 as lab charges for BIO Materials.
- Dr. L. Cinderella, Department of Chemistry, received a sum of Rs. 7,664 as lab charges for SHIMADZU TGA-51.
- Dr. P. Sivashanmugam, Department of Chemical Engineering, received a sum of Rs. 5000 as lab charges for GCMS Agilent.
- Dr. R. Anand, Department of Mechanical Engineering, received a sum of Rs. 38,763 as lab charges for Fuel Analysis
- Dr. Ganesh Chandra Nandi, Department of Chemistry, received a sum of Rs. 30,320 as lab charges for HRMS Analysis
- Dr. M. Umopathy, received a sum of Rs. 1,55,476 as lab charges for SIF + ISTEM lab.

ALUMNI



As part of their consistent efforts to support National Institute of Technology, Trichy, RECAL – the alumni association of REC/NIT Trichy – awarded scholarships worth Rs. 47 Lakhs to deserving students. The scholarship was distributed to 157 students in a function organized by the Office of Dean (ID&AR) and the RECAL Office on 31st March, 2023. Dr. G. Subbaiyan, Dean (ID&AR), Mr. Mahalingam (RECAL President), Mr. Krishna Sai (RECAL ex-President), Dr. Josephine R. L. (Associate Dean, Alumni Relations), Dr. Jerome (RECAL Treasurer) distributed the scholarship to the students.



The following events were held on 3rd March, 2023:

- The alumni batch of 1997 distributed fees for the children of the NMR mess staff.
- The golden jubilee reunion of the RECT 1973 batch was celebrated, and nearly a hundred alumni participated in the reunion function, organized by the Office of Dean (ID&AR) and the RECAL Office.



Pragyan '23 forays into the Cyberscape

Pragyan, the techno-managerial fest of NIT Trichy, proudly hosted its 19th edition from 23rd to 26th March 2023. With an ISO 9001:20121 certification, Pragyan remains one of India's largest student-run fests. Pragyan '23 was no exception and had set out to reach even greater heights. It most certainly achieved this goal with the support and dedication of all its student members and the Pragyan fraternity.

Established in 2005, Pragyan, the international techno-managerial organization of NIT Trichy, has become a powerhouse for students to showcase their technical prowess. It proudly shares the limelight with the London Olympics and Manchester United as one of the three organizations to achieve the ISO 20121:2012 Certification for Sustainable Event Management. Notably, Pragyan is the only student-run organization among the three. With ISO 9001:2015 Certification for Quality Management Systems and registration as a case study in The Case Centre, London, Pragyan is a shining beacon of excellence.



In an exhilarating move, Pragyan '23 embraced the Cyberscape – a realm of futuristic technological advancements. Aiming to be the platform for tomorrow's leaders, the fest was powered by High Energy Batteries, with TVS Apache as the title sponsor, RECAL as the legacy partner, and Abhi Bus as the travel partner, all united to make this extravaganza possible. On all four days, students experienced varied elements: informative guest lectures, interesting and engaging workshops, enthralling infotainment shows, and interactive exhibits.

Staying true to its tagline, “Let's Celebrate Technology”, Pragyan '23 brought the student community under one roof to learn, grow, and contribute to the comprehensive progress of society.

Youth Summit: Creating the Leaders of Tomorrow

Pragyan conducted the latest edition of the Youth Summit, an outreach event dedicated to facilitating interactions and conversations among the youth of today, at the Comfort Inn Hotel, Bangalore on 26th February, with enthusiastic participation from students pursuing a future in STEM fields.

The Youth Summit hosted guest lectures with renowned speakers such as Aanand Srinivas, Nirali Bhatia, Prateek Sethi, Rajeev Palanki, Dr Prakash Selvakumar, Poorvi Sachar, Narendra Raj, and Suthas Motwani. The panel discussions on topics such as psychology, entrepreneurship, data analytics, and much more gave an insight into various industries. The summit aimed at encouraging students to explore innovative ideas, interact with the industry's best, and network with their peers.



Events and Workshops

Pragyan '23, with its tagline "Let's Celebrate Technology," showcased 27 remarkable events across eight clusters: Bytehoc, Conception, Concreate, Manigma, EWitts, Phronesis, Roborex, and Pandora's Box. These events covered a wide range of topics such as coding, product design, construction, management, marketing, quizzing, and robotics.

The fest kicked off with the exciting car designing and racing event, Old Town Road, held at the CEESAT ground at NIT Trichy, which saw adrenaline-fueled racing matches. Quadcombat demonstrated the ingenuity of students through their aeromodelling skills. The Pragyan Main Quiz tested participants' knowledge in general and their prowess in business and management. Another popular event, Friendly, brought the fun with a trivia contest inspired by the famous game show "Family Feud."

Robowars, a grand robot-combat event, took place in a sturdy, self-built 16ft x 16ft arena. Marketing Hub was designed for future entrepreneurs and tested participants' acumen in marketing concepts, logical reasoning, and critical thinking.

Pragyan '23 also excelled in its lineup of workshops, covering various subjects from artificial intelligence to financial planning. On the first day, Latent View Analytics, IBM, and NITT's CoE conducted workshops on conversational data analytics, enterprise design thinking (EDT), and industrial automation, respectively.

The second day featured a seminar by Intel on FPGAs for various computing applications, an enlightening hands-on discourse by Zoho on building cloud solutions, valuable insights from Ubisoft on game development, and discussions on personal finances and investing by Daulat. Skill Lync provided a beginners course on mechanical automotive design using Catia V5.

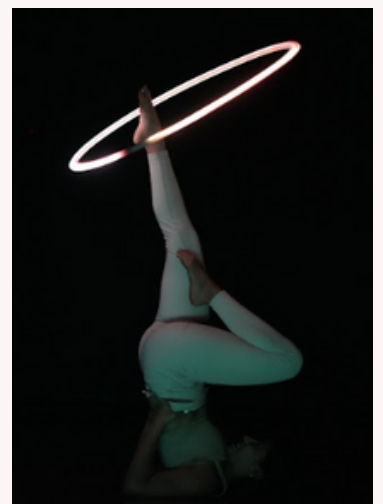
The final day added more knowledge with workshops on Six Sigma by Grant Thornton Bharat and Digital Twinning by Brillio. These workshops were a grand success and provided students with valuable new insights.

Guest Lectures: An Overview

Pragyan '23 featured seven enlightening guest lectures, covering diverse topics like theoretical physics, geopolitics, history, and IoT. Silicon Labs' Tech Talk on IoT privacy and security opened the event, followed by a stimulating session on spirituality and technology by Advait Danke. The second day highlighted Atul Gurtu's brilliant talk on particle physics, motivating students towards research careers. The final day showcased three impactful guest lectures. Abhijit Chavda discussed Indian history and politics, while J. Sai Deepak provided insights into societal issues, urging students to be model citizens. Ashneer Grover shared valuable insights on building businesses.

Technology combined with Fun

Pragyan '23 offered a vibrant mix of entertaining events and shows alongside its technical lineup. The Dance of Light and Fire by Indieflow captivated the audience with elegant light stick performances. The OULALA show by Sylvian Oulala amazed with theatrical tricks that pushed human capabilities. Karan Singh Magic wowed the crowd with mind-boggling illusions. The Skeleton Dance Crew delivered flawless choreography and engineering in their four-act performance. Tejaswini DS and Manav Agarwal mesmerized with their solo dance acts, manipulating lights into captivating patterns.





The fest concluded with high-energy live performances from Pineapple Express, blending Carnatic and Western styles, and Lost Stories, whose energetic songs set the mood for the finale

To unwind from the intense events, Pragyan '23 offered a casual Gaming lounge for participants to relax and enjoy games, as well as informal activities like Laser Tag. These engaging shows and recreational options added a memorable and fun dimension to Pragyan '23.

Exhibitions, Sangam, and Ingenium: A Look into the Future

Pragyan hosted Sangam, an intra-collegiate technical competition, where students showcased their talents in solving problem statements in healthcare, energy, and space technology.

Ingenium, another flagship event, welcomed participants from colleges across India to showcase their innovative creations. Students were encouraged to think creatively and economically, providing the best solutions.

The second day featured the Open House Exhibition at the Golden Jubilee Convention Hall, where technical clubs and finalists displayed their unique projects. The exhibition attracted hundreds of visitors, including school students from Trichy. Various models in robotics, 3D modeling, and humanitarian causes were showcased, including the Indro Robot, Mitra Robot, Go1 robot, and Gesture Drone.

Outreach Events: Social Responsibility, Young Techie and More

Pragyan maintained momentum through periodic articles on Medium and podcasts on Spotify, discussing topics like science, technology, social welfare, and entertainment.

Young Techie 3.0 ignited the imagination of young students in grades 6 to 10, providing them with an opportunity to showcase their talents and propose solutions to real-life problems. The most ingenious submissions received mentorship from NIT Trichy's technical clubs.

In association with SCIEnt, Pragyan held an Open House Exhibition to showcase inventions and projects. The exhibits inspired students from Santhanam Vidyalaya.

The social responsibility event, Raksha, took place at Seva Sangham Girls' School, focusing on self-defense and awareness. The interactive session covered topics such as menstruation hygiene, cyber safety, good touch-bad touch, and mental health.

Concluding the Chapter on Pragyan '23

Pragyan '23 created a space for students to connect, discover, and engage in the progress of humankind. Pragyan's drive to establish itself as platform for innovation, inspiration, and opportunities, will always propel it further and ignite the spark of ingenuity and commitment to its cause.

The 30th edition of NITTFEST, the annual inter-departmental cultural extravaganza of the National Institute of Technology, Tiruchirappalli, was held from 6th to 9th April 2023. This year's festival theme is "Anarchy: The Zenith of Street Style." Padma Shri. S. Damodharan, founder of the NGO Gramalaya inaugurated NITTFEST 23 on 6th April 2023 in the presence of our Director, Dean (SW) and faculty advisors. The NITTFEST 23 presented additional attractions, such as a talent show by faculties that exposed the dance and singing skills of the professors on 7th April and an IPL match between Mumbai Indians vs. Chennai Super Kings that coincided with the NITTFEST 23 and streamed live in a giant LED screen open-air on 8th April. Another important attraction is the first-time performance in Tiruchirappalli by the Bollywood singer Darshan Ravel on 9th April, added to the variety of events.



This edition enthralled the student audience as they could intermingle with numerous celebrities. The interaction session by Actor Ashok Selvan was informative, with the actor sharing his personal and professional experience in the movie industry. The humorous panel discussion by Directors - Sudha Kongara, P S Mithran and Gowtham advised the audience to stay focused on their career path and indulge in entertainment only for stress relief. The students had fun with the street food and artwork in resonance with the festival's theme. The Electronics and Communication Engineering department secured the overall prize in NITTFEST 23.

In commemoration of the 30th edition of NITTFEST, the cast of Ponniyin Selvan visited NIT Trichy on 26th April 2023. Renowned director Padma Shri. Mani Ratnam, his wife and actress Suhasini, Kalaimaamani Trisha Krisnan, Kalaimaamani Vikram, and actress Aishwarya Lekshmi mesmerized the spectators at GJCH.

SPORTSFETE 2023

The Physical Education and Sports section hosted a massive intra-departmental sports competition known as Sports Fete 2023 from April 20 – 23rd April 2023. Students from various Academic Departments competed in various sports and games during this event. More than 3500 students signed up to participate in various athletic events and games. The event aims to promote students' overall development and physical fitness.

In the presence of the Director, Dr. G Aghila, and the Dean (Students' Welfare), Dr. R Karvembu, Mr. Gurusai Dutt, an international badminton player, Gold medallist at the Youth Commonwealth Games 2008, and bronze medal winner at the 2014 Commonwealth Games Glasgow, officially opened the event. Gurusai Dutt inspired our students and highlighted the value of fitness during the ceremony. Subsequently, the Director of the institute and the Dean (Students' Welfare) apprised the audience of the importance of sports in helping students reach their full potential.



After 3 days of massive participation of students in various sports and games, Sportsfete 2023 ended on April 23, 2023. The Chief guest for the closing ceremony was Ms. Maana Patel, the 1st Indian Woman Swimmer who represented India in the 100 m Backstroke at the Tokyo Olympics. The Chief guest congratulated the winners during the event and encouraged them. Subsequently, the Director, Dr. G. Aghila, addressed the students, faculty and staff and applauded their participation at Sportsfete 2023. The Department of Production Engineering won the overall Championship with 311 points and the second position was bagged by the Researchers' Team with 295 points. The Department of ECE had the third Position with 270 points.

QUALITY 2023

QUALITY is a national level tech event conducted by MTech Non-Destructive Testing (NDT) students of the Department of Physics, held every year to entice young minds to explore the non-destructive way of testing. The Department is conducting this in collaboration with the renowned experts from industries and academia. The symposium is aimed for Students of Engineering (UG and PG)/M.Sc. (Physics), Inspection personnel, Operation and maintenance personnel, managers of engineering establishments and industries: Manufacturing, Power generation, Aeronautics, Petrochemical, Civil Engineering, Boiler and Pressure vessel manufacturers, fabrication, and R&D organizations.

Non-Destructive Testing is a branch of engineering, primarily concerned with detecting and evaluating the flaws of a specimen. It contains myriad of analysis techniques, both conventional and advanced, which itself produces no vicious effects on the specimen under test. NDT thus makes no compromise on the structural integrity of a component and ensures its functional reliability.

QUALITY 2023 was held on 6th of March 2023. Dr. T. Gurunathan (GM, Quality, BHEL Trichy) was invited as the Chief Guest. Dr. R. Karvembu, Dean (Students' Welfare) has presided over the symposium. In the morning session, two eminent lecturers, Dr. Arul Prabhu (SDGM, NDTL, BHEL Trichy) and Mr. S. Gunasekar (SM, WRI, BHEL Trichy) have delivered lectures on the most modern advances in the field of Non-Destructive Testing. The afternoon session was filled by myriad of interesting events like Google Quiz, colloquium, debate competition and a hand's on demonstration of NDT Techniques by Mr. Peter Rodrigues (Deputy Engineer, NDTL, BHEL, Trichy). The demonstration was held on the following techniques: Fluorescent Liquid Penetrant Testing, Magnetic Particle Testing and Ultrasonic Testing. Finally, an entertainment programme called "Buzzer Game" was performed.

Faculty Coordinator: Dr. Somnath Mukhopadhyay, Assistant Professor, Department of Physics
Student Coordinator: Suggu Hemant, 1st year M.Tech. NDT, Department of Physics.

PROBE '23

Probe had its modest beginnings in 2005 as a way for the electronics buffs all over the country to exchange ideas. Probe's hospitality, known for making participants who visit the college at this occasion feel at home, has also matured into providing a much more multi-pronged approach where the focus has been to provide a wholesome learning experience.

The 31st edition of Probe, the international annual technical symposium of the Electronics and Communication Engineering Association of NIT Trichy, was conducted from March 10 to March 12, 2023. This edition of Probe was sponsored by Qualcomm, a pioneer company in semiconductor technologies. Through our symposium, young innovators were able to learn and create in a collaborative environment. Qualcomm, Texas, and our workshop team conducted workshops on cutting-edge concepts, providing hands-on modelling opportunities for students to enhance their learning. The symposium also hosted competitions that tested students' knowledge in important areas, such as aptitude, algorithms and VLSI. Additionally, we conducted a Makeathon in association with Qualcomm. Furthermore, guest lectures were conducted by prominent individuals from various industries, covering crucial topics relevant to those industries. The symposium also had food stalls that featured a variety of food options from various restaurants in Tiruchirappalli. The stalls had around 300+ people visiting them per day.

Probe recorded the presence of 732 students out of a total of 1200 participants, including those attending online. Throughout the event, there were 5 workshops, 4 events, one Makeathon and 3 Guest lectures. Additionally, more than 450 students were accommodated in 9 different hostels, each providing basic amenities.



OPTIMA 2023

Optima 2023, the departmental Tech Fest organized by the enthusiastic students of MSc Computer Science & MTech Data Analytics at NIT Trichy, was a resounding success, leaving participants and attendees with a memorable experience. The event took place on 28th March, starting at 9 am, and was graced by the presence of esteemed dignitaries.

The ceremony commenced with a grand inauguration presided over by the honorable HoD, Dr. Michael Arock, along with Faculty advisor, Dr. (Mrs.) B. Janet, the guest lecturer Dr. Dharbaneshwer, and the treasurer Mr. Sudhanshu Saurav. Their inspiring speeches set the tone for the day's activities.

The highlight of the event was a captivating seminar by the guest lecturer, delving into the fascinating realm of "Usage of ML and AI on consumer-driven applications." The insights shared provided valuable knowledge to the participants, igniting their curiosity and interest in the field. Alongside the seminar, participants also engaged in various fun events, tech quizzes, and technical challenges such as debugger, perceptron, and snow den, adding an element of excitement and competition to the festivity.

As the event drew to a close, the participants and audience members were recognized and rewarded for their remarkable contributions and achievements throughout the day. An award distribution ceremony celebrated the talents and efforts displayed by the participants in different events. The participants and attendees were also treated to delicious food, fostering camaraderie and furthering the sense of community among tech enthusiasts.

Optima 2023 left an indelible mark on everyone involved, fostering a spirit of collaboration, learning, and innovation within the students at NIT Trichy. The event's success speaks volumes about the dedication and passion of the organizing students and the support from the esteemed guests and faculty advisors.

Lakshya '23, a series of events conducted by the Cadets of A-Flight NCC, NIT Trichy, was inaugurated on 31st March, 2023. The inauguration was graced by the presence of our Director, Dr. G. Aghila, the chief guest, Wing Commander Abhishek Mittal, Mr Arivazagan, DSP Trichy, the faculty advisor, Dr. M. Sivanesan, and the Dean (Students Welfare), Dr. Karvembu. Our respected guests shared their valuable words of wisdom. They were presented with a memento each as a token of gratitude. The events and activities were conducted from March to May 2023.



The valediction ceremony was graced by Ex-Raw agent, Mr. T. S. Tanwar, faculty advisor, Dr. M. Sivanesan, Student Activity and Sports Officer, Dr. Solomon Raja and Professor (HAG) and Head, Training and Placement Cell, Dr. A. K. Bakthavalsalam. The event concluded with the awarding of the winners of the events conducted, followed by the delivery of the marketing report and vote of thanks by the treasurer of Lakshya'23.

The event took place from 31st March to 2nd April 2023 at NIT Tiruchirappalli. This report highlights the pre-fest events, main fest events, guest lectures, informals, and workshops that were conducted during Lakshya '23.

Pre-fest Events:

- Cloth Donation Drive:** On 16th March 2023, Lakshya initiated a Cloth Collection Drive at NIT Trichy, where clothes were collected from the students and research scholars of each hostel. The drive received an overwhelming response, and the collected clothes were donated to slums and orphanages.
- Movie Screening:** A movie screening, along with a 1917-themed photo booth, was organized on 18th March 2023 at the EEE Auditorium. The event attracted around 200 participants.

Main Fest Events:

- All About Trust:** Held on 31st March 2023 at GJCH, the 'All About Trust' event tested the trust among friends. Out of 33 participating teams, three winning teams were selected and awarded cash prizes during the valediction ceremony.
- A Chivalric Charge:** On 1st April 2023, Lakshya provided 55 teams with the opportunity to participate in a treasure hunt at Orion. Three winning teams were awarded cash prizes during the valediction ceremony.
- Maza Run:** On 2nd April 2023, a "Maza Run" promoting a healthy lifestyle was organized at the Jade ground. The event saw over 130+ online registrations and more than 20 on-the-spot registrations, receiving positive feedback from the participants. Cash prizes were awarded to the winners.
- Question Mark:** A murder mystery event was held on 2nd April, attracting registrations from approximately 50 teams. Participants played the role of detectives, interrogating suspects, and solving the case.



Guest Lectures:



a) Nandakumar, Commissioner of Income Tax, IRS: A motivational lecture was delivered by Mr. Nandakumar, an IRS officer, on 1st April. The lecture inspired the audience, encouraging them to work towards their goals with determination and discipline.

b) T. S. Tanwar, Ex RAW Agent, on 2nd April, delivered a captivating guest lecture, giving participants insights into the life of a RAW agent. The lecture had an impressive attendance of over 100 individuals.

Informals:

a) Archery: An informal Archery event was organized on 1st April, attracting over 133 online registrations and 12 on-the-spot registrations.

b) Rifle Shooting: On 2nd April, the informal Rifle Shooting event attracted around 200 participants.

c) Control Air Line Show: Another informal event, the Control Line Air Show, took place on 2nd April, featuring pilots displaying their skills and pushing the boundaries of aerobatics.

Workshops:

a) Tent Pitching: On 1st April 2023, a tent-pitching workshop was conducted, attracting ten teams of enthusiastic individuals eager to acquire new skills.

b) Self Defence for Women: A self-defence workshop aimed at empowering women with resilience and increasing awareness was held on 1st April, with the participation of 50 female students.

Lakshya '23, organized by the Defence and Civil Services Club, was a successful fest with a wide array of events, workshops, and guest lectures. It achieved its objective of promoting various aspects of defence and civil services, leaving participants with valuable experiences and knowledge. The overwhelming response from the students and the enthusiastic participation in the events made the fest a grand success.

Literary Clubs of NIT Tiruchirappalli

Aayaam

Aayaam, The Hindi Cell of National Institute of Technology (NIT) Trichy, organized a grand celebration of the festival of colours, Holi, on 8th March 2023 at the CEESAT ground. The festival of Holi is celebrated with immense joy and enthusiasm throughout India and is a time for people to come together, forget their differences, and spread love and happiness. The celebration was attended by over 3000 students, faculty, and staff members.



The day began with the distribution of colours, which included bright and vibrant powders that were smeared on each other's faces and clothes. Music was played, and everyone danced to the beats, setting the mood for the rest of the day. The students enjoyed playing water games with each other, throwing water balloons and drenching each other in colourful water. The atmosphere was lively and enthusiastic, with everyone enjoying the festivities to the fullest.

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The Chief Guest of the event was Dr. Jitraj Saha, Associate Dean (Students Welfare), of NIT Trichy graced the occasion with his presence. The members of Ayaam Club welcomed him with a traditional Tilak on his forehead, and he spoke to the students, greeted them, and wished them a happy Holi. It was an honour for the club to have him at the event. Refreshments were provided at the event, including sweets and snacks, to keep everyone energized and refreshed throughout.

The Holi celebration was a massive success. The event brought together people from different cultures and backgrounds, promoting cultural harmony and camaraderie. It was a great initiative by the club to celebrate one of the most colourful festivals of India, and ensure that everyone had a great time. Overall, the event was a huge success, and the Ayaam Club is looking forward to organizing similar events in the future.

Akshara

Akshara, the Telugu cell of NIT Tiruchirappalli, actively participated in two major events - NITTFEST and AAVEG. For NITTFEST, Akshara organized five engaging Telugu literary events:

1. Just-A-Minute (JAM): In this event, solo participants had to speak on a given topic exclusively in Telugu, without using any English words.
2. Stand-up Comedy: Participants had a limited time to showcase their comedic talent and make the audience laugh.
3. Meme Competition: This event tested participants' creativity as they designed and created humorous memes based on on-the-spot prompts.
4. Crosswords and Quiz: Winners were determined based on their quick problem-solving skills in crossword puzzles and quiz questions.

For AAVEG, Akshara planned three exciting events:

1. Name the Tune (NTT): Participants had to guess the song name and answer related questions based on a given tune.
2. Dumb Charades: This event required participants to guess movie names and artists based on provided prompts.
3. Meme Competition: Similar to the previous event, participants were tasked with creating funny memes on the spot.



Telugu students from various batches and departments enthusiastically participated, delivering fantastic performances in each event. These events not only promoted Telugu culture and language, but also provided a platform for students to showcase their talents and have a fun-filled time.

Music Clubs of NIT Trichy

Amruthavarshini organizes Manoranjani '23

From 31st March to 2nd April 2023, the students of the Amruthavarshini club organized Manoranjani '23, their flagship event. Here is a summary of the activities conducted as part of the event:

On the evening of 31st March, an Online quiz was held in collaboration with Balls By Picasso, the English and Literary club of NIT Trichy.

On the morning of 1st April, a workshop titled “Gems from the Musiri Bani” was conducted by Smt. Brindha Manickavasakan at A 11 hall, NIT Trichy. The workshop covered the unique singing style of students of Musiri Subramaniya Iyer, when compared to their peers. Smt. Brindha Manickavasakan also taught a couple of compositions of St. Tyagaraja in the Musiri Bani, where Bani refers to the sayings of the guru and Musiri, a place, is used as a nickname for the guru.

On the evening of 1st April, a mesmerizing 2-hour concert was presented at the Civil Seminar Hall, NIT Trichy, featuring Smt. Brindha Manickavasakan as the Vocalist, Smt. Deepika V. as the Violinist, and Kumbakonam Shri. K. Swaminathan as the Mridangist.

On the morning of 2nd April, students from NIT Trichy, along with students from Gaanavarshini, the Carnatic Music club of SASTRA, and renowned artists from Trichy, including Ghatam Shri. Krishnaswamy and Salem K. Srinivasan, came together to render the Pancharathana Kritis and perform the Tyagaraja Aaradhanai at the Civil Seminar hall, NIT Trichy. Following this, the students of SASTRA delivered a captivating 2-hour performance. The event concluded with the Amruthavarshini members presenting an Akhandam, where each person delivered a short individual performance without any breaks in between.

The Music Troupe at NIT Surathkal (Mar 16-19)

13 members of the Music Troupe travelled to NIT Surathkal, near Mangaluru, to participate in the various band and solo music events conducted during the annual fest of NITK. The NIT Trichy Music Troupe bagged the third place in the eastern band competition, and first and second places in the solo singing competitions.



NITTFEST – Ponniyin Selvan II: The Chola Tour



The Music Troupe of NIT Trichy was filled with immense pride and excitement as they were given the incredible opportunity to showcase their talents at the highly anticipated 'Chola tour' event organized by NITTFEST. It was a dream come true for the troupe members to perform in front of the legendary director, Mani Ratnam and the renowned actor, Suhasini, along with the incredibly talented Vikram and Trisha, and the enchanting Aishwarya Lekshmi. The honour of performing for a diverse and appreciative audience, combined with the privilege of sharing their talent with the Ponniyin Selvan Team, filled the troupe members with an overwhelming sense of pride and accomplishment.

CCD NIGHT

The Music Troupe of NIT Trichy was very excited to revive an iconic tradition this semester, after a brief hiatus. On 6th May, CCD Night was held in the cozy ambience of our very own Cafe Coffee Day. The evening unfurled with a pleasant mix of English numbers, Tamil melodies, Hindi hits and also some Carnatic music pieces. Crowds thronged the premises and beyond to witness the event blossom into a gala of music and merry making. Being the troupe's last event this academic year, it concluded with a special number by the graduating seniors by way of a final sign-off performance. Overall, the event was both one to remember and one to look forward to in the coming semesters.



Toastmasters

The Area Level International Speech Contest (ISC) and Table Topics (TT) Contest was held on the 18th of March, 2023. TM Aishwarya and TM Nitheesh bagged the first and second places respectively for the ISC contest and TM Aanandha, TM Aishwarya, and TM Mercia bagged the top three positions for the TT contest.

The Division level ISC and TT Contests were held on the 9th of April, 2023, at Paypal IDC, Chennai. TM Aishwarya, TM Nitheesh, and TM Aanandha represented the NIT Trichy Chapter of the clubs at the conference and TM Aishwarya bagged second place in the Table Topics Contest, participating against 7 other participants from across the state of Tamil Nadu.



Media Clubs of NIT Tiruchirappalli



Pixelbug covered all the Sportsfete '23 events, the Institute Day '23 celebrations and the Ethnic Night for the Institute's social media handles. For each Sportsfete event, reels and photos were posted on the Instagram handle in collaboration with the Sports Council.



VOLUME 5

ISSUE 2

MARCH - MAY '23

PUBLISHED BY

PUBLIC RELATIONS AND MEDIA COMMITTEE

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