





NITTE
(Deemed to be University)

**NMAM INSTITUTE
OF TECHNOLOGY**

(Established under Section 3 of UGC Act 1956)

Nitte – 574 110, Karnataka, India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Volume 04 Issue 03 October 2024 News Letter

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An Event by the Gender Sensitization Cell

30 September 2024

Nitte (Deemed to be University) Gender Sensitization Cell (GSC) conducted an event titled “Gender Equity, Inclusiveness & Sensitization” on 26 September 2024 at NMAMIT, Nitte. The event focused on bringing awareness and acceptance to the diverse group. Dr Niranjana N Chiplunkar, Principal welcomed the gathering and mentioned the inclusivity in the campus. Dr. Vina Vaswani, Professor in the Department of Forensic Medicine and Director of the Centre for Ethics at Yenepoya (Deemed to be University), Deralakatte, Mangalore, delivered an address highlighting the challenges faced by young girls transitioning into womanhood. She emphasised the importance of establishing a robust support system to help them navigate and overcome these difficulties. Dr Suma Ballal, Deputy Registrar, Nitte (Deemed to be University) addressed the gathering on Gender equity and insight to the diverse group. The event was coordinated by Dr Anitha Marina Colaco, Department of Electrical and Electronics Engineering., NMAMIT, Nitte. GSC members Dr Ashalatha JKSHIM, Mr. Sukesh NUINS, Dr Juliet NUCSER were present for the event. 190 Students from NMAMIT, JKSHIM and NSAMFGC participated actively in the event.



Super Tackle

01 October 2024

The Department of Electrical and Electronics Engineering (EEE) at NMAM Institute of Technology, Nitte, organised “Super Tackle”, a sports event on 28 September 2024. The event commenced with a warm welcome by the Elites (Association of Electrical and Electronics Engineering students) sports president to the Head of the Department and the faculty members, setting a positive tone for the day. Dr Suryanarayana K, Professor and Head, Dept of EEE , addressed the players, expressing his best wishes and emphasising the importance of sportsmanship and teamwork. Five teams of second, third- and fourth-year students competed in the tournament, showcasing their skills and dedication. The HoD tossed a coin to decide the team that would start on offence and defence. A total of four matches were held with each game reflecting the competitive spirit among the team members. Before the finals, all players gathered for a group photo with the HoD and faculty members, creating a memorable moment for participants. The Head of the Department (HoD) delivered an inspiring address and personally interacted with each player, highlighting the department's dedication to supporting student activities. Following the final match, the HoD presented tokens of appreciation to the referees, recognizing their crucial contribution to ensuring the fairness and integrity of the games. The event was highly successful, marked by enthusiastic participation from all involved.



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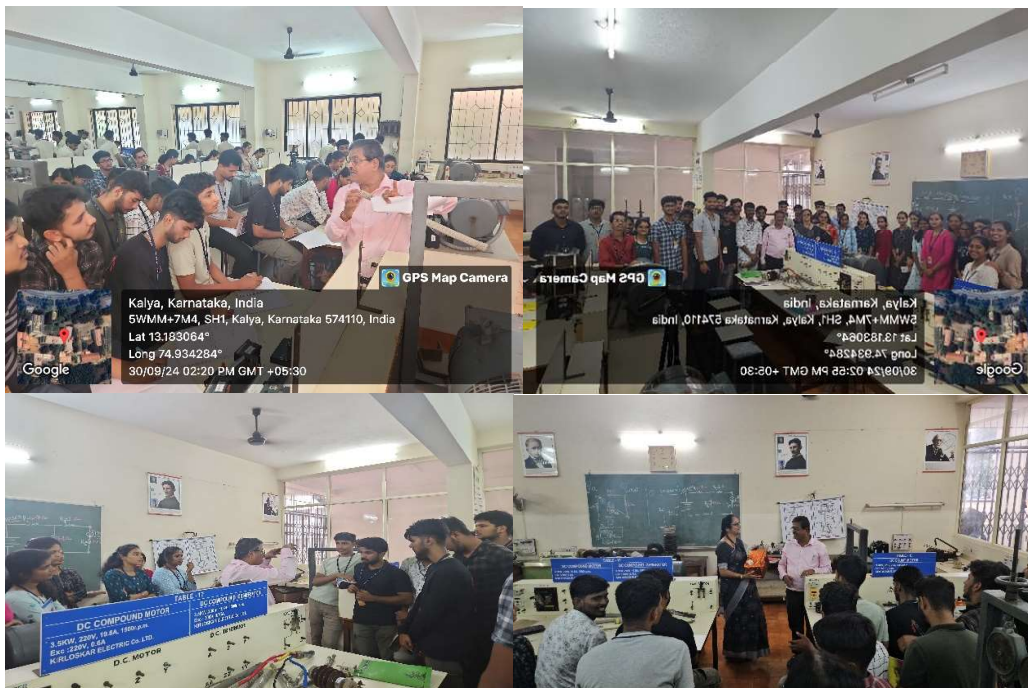
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Technical Talk on Switch Gear Components of Electrical Transmission and Distribution System

01 October 2024

The Department of Electrical and Electronics Engineering (EEE), NMAMIT, Nitte in Association with “The Institution of Engineers (India) (IEI), Institute of Electrical and Electronics Engineers (IEEE), Indian Society for Technical Education (ISTE), ELITES, Institution’s Innovation Council” organised the Technical Talk by Mr. Raghupathy Bhat, Professor, Department of Electrical and Electronics Engineering, NRAMP, Nitte on the topic “Switch Gear Components of Electrical Transmission and Distribution System” on 30 September 2024 at Machines Lab, Department of EEE. Dr. Suryanarayana K, Professor and Head, Dept of EEE welcomed the resource person and the participants. The resource person delivered an insightful session on the various components utilized in electrical generation, transmission, and distribution systems. He demonstrated and explained different switchgear components obtained from the Kavoor substation, enhancing the student's understanding. Additionally, he shared relevant reading materials to further support their learning. Dr. Rajalakshmi Samaga B L, Professor in the Department of Electrical and Electronics Engineering (EEE) and the department's professional society coordinator, expressed gratitude to the resource person and presented an appreciation letter. The session proved particularly beneficial for final-year students preparing for campus placements with switchgear companies.



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Industrial Visit to Kemar KPTCL Substation

05 October 2024

The Department of Electrical and Electronics Engineering (EEE) in association with “The Institution of Engineers (India) (IEI), Institute of Electrical and Electronics Engineers (IEEE), Indian Society for Technical Education (ISTE), EEE Students’ association ELITES, Institution’s Innovation Council” organised an industrial visit to the substation at Kemar, Parpale, Karkala Doopadakatte, Udupi District on 03 October 2024. About 35 final-year students of the department of EEE were accompanied by Dr. Krishna Rao, Assistant Professor, department of EEE during the visit. Mr. Uday Kumar, Assistant Executive Engineer (Maintenance), KPTCL who is an alumnus of NRAMP, Nitte welcomed the team and later briefed them on the operation and maintenance of the substation. The substation receives electrical power at 220 kV from Varahi hydroelectric plant and UPCL thermal plant. This is stepped down to 110 kV for sub-transmission and further to 11 kV for local distribution. The switchgear for 220 kV and 110 kV systems are located outdoors, whereas the same for 11 kV systems are located indoors. The outdoor switchyard includes surge arrestors, isolators, earthing switches, circuit breakers, current transformers and potential transformers. The procedure for availing a shutdown, including manual tripping of the circuit breaker followed by opening of the isolators and closing of the earth switches, was also demonstrated to the students. Students were also shown the two 220/110 kV power transformers and their components such as the oil surge relay, Buchholz relay, breather, cooling system, neutral current transformer and other associated accessories. Further, Mr. Uday Kumar arranged to open an indoor 11 kV circuit breaker and demonstrated its operation to the students. He also elaborated on the role of the SCADA (Supervisory Control and Data Acquisition) system and station battery bank. Before concluding the visit, the faculty members and the students thanked Mr. Uday Kumar for his keen interest during the industrial visit.



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Ayudha Pooja

11 October 2024

The Department of Electrical and Electronics Engineering (EEE) at NMAM Institute of Technology, Nitte, organised “Ayudha Pooja” on 10 October 2024. The event began with numerous bhajans sung melodiously by the members of the bhakta-mandala, accompanied by the mesmerising sound of tabla, creating a spiritual atmosphere and immersing all the devotees in devotion. As the Aarti was performed, the sound of the conch (shankha) and drum (chande) filled the air with positive vibes. After a collective prayer, the ceremony concluded with the distribution of Maha-Prasada. Overall, Ayudha pooja was a meaningful celebration, highlighting the importance of tools and traditions of Indian culture.



Elixir-2024

24 October 2024

The Department of Electrical and Electronics Engineering (EEE) at NMAM Institute of Technology, Nitte, hosted the thirteenth edition of its Mega Student Hobby Project Exhibition, “ELIXIR - Transforming Ideas into Reality”, on 21 and 22 October 2024, at the Sadananda Auditorium. The event was inaugurated by Sri Vishal Hegde, Pro-Chancellor (Administration), Nitte (Deemed to be University). A total of 126 projects were showcased over the two-day exhibition. Dr. Suryanarayana K, Professor and Head, Department of EEE welcomed the gathering and presented an overview of the journey of ELIXIR. Sri Vishal Hegde emphasised the importance of bridging the gap between academia and industry and praised the department for its efforts in connecting students, alumni and industry through innovative projects with

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practical applications. He highlighted that such initiatives turn student ideas into practical solutions and can lead to even greater innovation. Dr. Niranjana N. Chiplunkar, Principal, NMAMIT commended the department for consistently organizing ELIXIR for the past thirteen editions and also appreciated its active participation in MoUs. Dr. I. Ramesh Mithanthaya, Vice Principal & Dean of Academics, praised the efforts of the department faculty members for organising the exhibition annually and setting a benchmark. During the event, three in-house developed products— a general-purpose half-bridge test kit, a DC electronic load unit and an automatic phase selector—were launched for institutional use, designed and developed by the students and the faculty members. The projects demonstrated core concepts in electrical engineering, analog and digital circuits and applications of microcontrollers. The exhibition welcomed industry professionals, students from neighbouring schools and PU colleges, first-year students, students from other departments and alumni from the department of EEE. The event was financially sponsored by the alumni of the department of EEE. Mr. Anup Shetty, Asst. Professor, Grade-I, Dept of EEE rendered the vote of thanks and Miss. Sakshi, a final year student compered the event.



**Details of the Workshop / STTP/ Faculty Development Program
attended by the faculty of E&E Engg in the month of October
2024**

Sl. No.	Name	Dept	Title of the Programme	Place	Date

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Sl. No.	Name	Dept	Title of the Programme	Place	Date
1.	Nandini K K	EEE	Sustainable energy technologies and green mobility	NIT, Silchar, Assam, Online	September 12-16, 2024
2.	Mahabaleshwara Sharma K	EEE	Indexed Journals, CiteScore and Impact Factor / Identifying Predatory Journals	Staff Development Centre, Nitte (DU) in collaboration with the Department of Research and Development, Nitte (DU)	October 07, 2024
3.	Mahabaleshwara Sharma K	EEE	Programming Essentials in Python	ICT Academy	October 21-25, 2024
4.	Nandini K K	EEE	Advance trends in Microgrids, Smart grids and Electric vehicles	Stanley College of Engineering and Technology, Hyderabad (Online)	October 21-24, 2024



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