



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 06 January 2025 News Letter

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Kaushalya Conducted on January 09-10, 2025

12 January 2025

The department of E&E Engg (EEE), NMAMIT, Nitte organised a student development programme “Kaushalya, Right tool -Accurate measurement- Better information” for the fourth semester students on 9 and 10 January 2025 at Shambavi Seminar Hall. The workshop was intended to equip the students to blend the theoretical knowledge with the practical exercises that is essential for achieving precise measurements and interpreting the data effectively for future engineering projects and studies. The workshop focused on understanding key concepts in linear control systems, instrumentation and measurements, electromagnetic fields, electrical machines-I and soldering practice.

The Skill Development Program (SDP) commenced with the inauguration ceremony, graced by Dr. Srinivasa Rao BR, Vice-Principal and Controller of Examinations, as the guest of honour. Mrs. Nutana Shetty, the SDP Coordinator, compered the programme, while Mrs. Swathi Hatwar, another SDP Coordinator, briefed the audience about the objectives and structure of the programme. Dr. Suryanarayana K, Professor and Head, Department of EEE, emphasised the significance of organising such SDPs for students and highlighted how practical implementation fosters a deeper understanding of various topics. Dr. Srinivasa Rao commended the department for successfully conducting the ninth edition of the event and underscored the importance of analysing and performing experiments to gain meaningful insights.

Day1: Session 1: The session commenced with a lecture on **Linear Control Systems** delivered by Dr. Suryanarayana K. The discussion began with an explanation of the advantages of analysing systems in the **complex frequency domain (s-domain)** over the time domain, particularly for simplifying complex system behaviours. Following this, the placement of roots in the complex plane and their effect on system oscillations were explored, focusing on both first-order and second-order systems.

Additionally, the realization of P, PI and PID controllers using operational amplifiers was demonstrated through a hardware prototype. The frequency response of the system was observed in real time, with data logged into an Excel sheet for analysis.

Day1: Session 2: Dr. Anitha Marina Colaco, Associate Professor and Mr. Gururaj K, Assistant Professor – Grade - II conducted a session on Instrumentation and Measurement. The discussion primarily focused on the importance of measuring devices, various types of sensors, their roles in different applications and the role of controllers in data acquisition and analysis. Additionally, a demonstration of the behaviour of a thermistor was presented to illustrate its practical application.

Day1: Session 3: The afternoon session commenced with a talk by Mr. Pradeep Kumar, Assistant Professor – Grade III on the importance of project-based learning in the engineering curriculum. He emphasized the significance of the Electromagnetic Fields course for the students of EEE and discussed approaches to designing projects that apply electromagnetic laws. He highlighted how prototype or model-based teaching can enhance students' understanding of core concepts. The key criteria for project selection were emphasized, ensuring feasibility within the semester while maintaining adherence to deadlines. Students were encouraged to collaborate in groups, and multiple project ideas were discussed and shared to facilitate the initiation of their work.

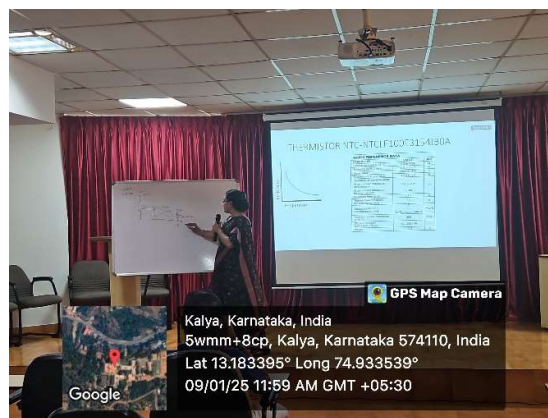
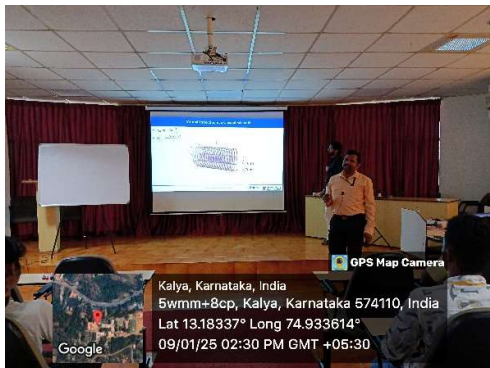
Day2: Session 1: Day 2 began with a session on Electrical Machines-I by Dr. Girisha Joshi, Associate Professor. The session focused on two key machines: the Transformer and the Induction Motor, covering their construction, working principles, and types. As part of the laboratory component, Dr. Joshi explained how to evaluate the performance of a given machine, the fundamental tests to be conducted on transformers and the methods to validate their performance. Additionally, a demonstration of an induction motor was conducted to illustrate the concept of relative speed, enhancing students' understanding of its operation.

Day2: Session 2: This was followed by a session on Electromagnetic Fields by Mr. Anand Bhat, Assistant Professor – Grade II, who discussed different coordinate systems—Cartesian, Cylindrical, and Spherical—and explained their necessity based on specific applications. The concepts were demonstrated using MATLAB for better understanding. Additionally, a few experiments on fundamental electromagnetic laws, such as Lenz's Law and the lifting power of an electromagnet, were demonstrated using models to provide practical insights into these principles.

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Day2: Session 3: The final session was on Soldering Practice, conducted by Dr. Suryanarayana K. He introduced various soldering tools, explained their uses and highlighted common errors made in selecting tools, along with the consequences of using inappropriate tools for specific applications. He demonstrated the processes of soldering and desoldering through practical examples, showcasing the correct usage of each tool to ensure effective and precise soldering techniques.

The valedictory program was held on January 10, 2025, at 3:30 PM. Mrs. Swathi Hatwar H. presented a summary of the two-day SDP, followed by reflections from both students and resource persons. Dr. Suryanarayana K. delivered the concluding remarks, bringing the event to a formal close."





e-Ruchi

13 January 2025

The department of Electrical and Electronics Engineering (EEE) in association with the Association of Electrical and Electronics Engineering students, Elites, hosted “e-Ruchi, cooking without fire” event on 11 January 2025. The event began with a welcome speech by the Vice President, Elites. Following this, Dr Suryanarayana K, Professor and Head, Department of EEE addressed the gathering with the encouraging words. The event commenced, featuring two segments "Cooking Without Fire" for students as a competition and "Cooking with Fire" for the faculty members to showcase their culinary skills. The atmosphere was lively, with everyone showcasing their creativity and cooking skills. The judges evaluated all the dishes closely, taking note of the presentation, innovation, taste and cleanliness. After careful evaluation, the judges shared their feedback, praising the effort and creativity. The HoD, then addressed the gathering once more, appreciating everyone's enthusiasm and participation. The winners were announced, bringing joy and a sense of achievement to the top performers. The event concluded with a token of gratitude presented to the judges for their time and valuable input. Overall, it was a memorable event.



Cache IT

20 January 2025

The Department of Electrical and Electronics Engineering (EEE), in collaboration with the Association of Electrical and Electronics Engineering Students, *Elites*, organized the 'Cache IT' event on January 18, 2025. The event commenced with a welcome address by Dr. Suryanarayana K., Professor and Head of the Department of EEE, who extended his greetings to all attendees. In the first round, participants were asked to list the items they had seen on a table within a certain time limit. While the evaluations were being carried out, some fun games were organized to keep everyone engaged. The second round involved eight selected groups, with two groups facing off against each other in each pair. Each team took turns to orally naming one item at a time, alternating between the teams. In the final round, games were conducted to distract the participants

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and then the memory game was continued. The winners were awarded certificates in recognition of their achievements. Overall, the event was both engaging and successful.



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**Details of the Workshop / STTP/ Faculty Development Program
attended by the faculty of E&E Engg in the month of December
2024 / January 2025**

Sl. No.	Name	Dept	Title of the Programme	Place	Date
1.	Mrs. Swathi Hatwar H	EEE	Microchip India Masters 2024	Microchip Technology, Bangalore	10-13 December 2024
2.	Mr. Anup Shetty	EEE	Microchip India Masters 2024	Microchip Technology, Bangalore	10-13 December 2024
3.	Mr. Naveen J	EEE	AR & VR In Engineering Education	Department of Robotics and Artificial Intelligence, NMAMIT, Nitte	16 – 18 December 2025
4.	Mr. Naveen J	EEE	Understanding Research Methods	Coursera	17 December 2024
5.	Dr. Dinesh Shetty	EEE	Essentials of Outcome Based Education in Curriculum Delivery	Staff Development Centre, Nitte DU	01 -03 January 2025
6.	Dr. Pramod Bhat Nempu	EEE	Essentials of Outcome Based Education in Curriculum Delivery	Staff Development Centre, Nitte DU	01 -03 January 2025
7.	Dr. Nandini K K	EEE	Essentials of Outcome Based Education in	Staff Development Centre, Nitte DU	01 -03 January 2025

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Sl. No.	Name	Dept	Title of the Programme	Place	Date
			Curriculum Delivery		
8.	Mrs. Swathi K	EEE	Essentials of Outcome Based Education in Curriculum Delivery	Staff Development Centre, Nitte DU	01 -03 January 2025
9.	Mrs. Akshatha N M	EEE	Essentials of Outcome Based Education in Curriculum Delivery	Staff Development Centre, Nitte DU	01 -03 January 2025
10.	Mrs. Akshatha N M	EEE	Indexed Journals, cite Score and Impact factor / Identifying Predatory Journal	Staff Development Centre, Nitte DU	04 January 2025
11.	Mr. Gururaj K	EEE	Indexed Journals, cite Score and Impact factor/ Identifying Predatory Journal	Staff Development Centre, Nitte DU	04 January 2025
12.	Dr. Nandini K K	EEE	Engineering the future of energy: AI, Data Science and Efficient Power Systems for Climate Resilience	Sushila Devi Bansal College of Engineering	06 -11 January 2025



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Sl. No.	Name	Dept	Title of the Programme	Place	Date
13.	Mr. Naveen J	EEE	Publishing Academic papers	JKSHIM, Nitte	08 January 2025
14.	Mr. Gururaj K	EEE	Publishing Academic papers	JKSHIM, Nitte	08 January 2025
15.	Mrs. Swathi Hatwar H	EEE	Performance Assessment in Virtual Classroom	Coursera	12 January 2025
16.	Dr. K Latha Shenoy	EEE	Climate Change Mitigation in Developing Countries	Coursera	17 January 2025