



NEW HORIZON
COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CURRENTS - NEWSLETTER

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Message from Principal

At New Horizon College of Engineering, learning goes far beyond classroom instruction - it is a process that shapes individuals for the future. We are deeply committed to empowering our students with strong fundamentals, practical abilities, and a progressive outlook that enables them to succeed in an ever-evolving global landscape. With industries rapidly transforming, the disconnect between theoretical education and real-world application is often highlighted. At NHCE, we consciously bridge this divide by preparing students who combine academic excellence with professional competence and innovation. It is with great pride and enthusiasm that I present the 2025 edition of Currents, the official newsletter of the Department of Electrical and Electronics Engineering. This publication reflects the vibrant spirit of the department, showcasing significant milestones, accomplishments, and creative endeavours that underscore our pursuit of quality and growth. Each contribution-be it an article or a visual-captures the passion, teamwork, and perseverance of our students, faculty, and the editorial team. I extend my sincere appreciation to all those who played a role in bringing this edition to fruition. A special commendation goes to the editorial board for presenting our department's story in such an engaging and impactful manner. I trust that this edition of Currents will both enlighten and motivate its readers. Wishing you an enriching read!



Dr. MANJUNATHA
PRINCIPAL, NHCE

Message from HoD-EEE

It is a moment of great satisfaction to share the 2025 release of Currents, the biannual newsletter of the Department of Electrical and Electronics Engineering. This edition reflects the progress and accomplishments of the department over the last half-year, presenting a rich overview of significant developments, noteworthy occasions, and outstanding successes that highlight our collective pursuit of quality and growth. More than a record of events, this issue showcases the lively academic environment and diverse co-curricular engagements that characterise the EEE Department at NHCE. The publication is the outcome of dedicated and meticulous work by the editorial team, whose commitment and creativity are evident throughout its pages. Each section captures the enthusiasm, innovation, and collaborative spirit that drive our departmental community. Readers will discover features on key departmental activities, inspiring achievements, and meaningful contributions from students, faculty, and alumni who consistently elevate the department's stature. Currents represents not just progress on paper, but the shared vision and teamwork that propel us forward. I express my heartfelt gratitude to all contributors-faculty, students, alumni, and supporters-whose efforts have added depth and value to this edition. Your continued engagement strengthens our journey. We also thank our readers for their constant encouragement and trust. It is our hope that this issue both enlightens and motivates, offering insight into the dynamic and flourishing culture of the EEE Department.

Happy reading!



Dr.S.Sujitha
Prof. & HOD EEE, NHCE

NEW HORIZON COLLEGE OF ENGINEERING

VISION

To emerge as an institute of eminence in the fields of Engineering, Technology and Management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

MISSION

To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovation among faculty members and students.

To encourage long-term interaction between the academia and industry through their involvement in the design of curriculum and its hands-on implementation.

To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

QUALITY POLICY

To provide educational services of the highest quality both curricular and co-curricular to enable students integrate skills and serve the industry and society equally well at global level.

VALUES:

- Academic Freedom
- Inclusiveness
- Professionalism
- Integrity
- Innovation
- Social Responsibility

ABOUT THE DEPARTMENT

Welcome to the Department of Electrical & Electronics Engineering (EEE) at New Horizon College of Engineering (NHCE), Bangalore. EEE is one of the prestigious branches of Engineering and one among the oldest departments of NHCE-Bangalore started in 2001. The EEE Department has been playing a vital role in producing Engineers and Technologists of high caliber ever since it was established in the year 2001. The Department is accredited by NAAC with 'A' Grade and accredited by NBA. The vision of EEE Department is to create contemporary Engineers, Innovators and Entrepreneurs to make a better nation and in turn, a better world. A critical investigation and innovation into the modern state-of-art and cutting edge technology lead to the fact that an electrical graduate fits better in today's competitive world.

The strength of the department are highly qualified faculty members with expertise in various fields of Electrical Engineering, state - of - the - art laboratory facilities. The department is inclined towards bridging the gap between Industry and academia by collaborating with Multinational Companies in the field of Electrical Engineering.

Indo-French Center of Excellence in Electricity, Automation and Energy (IFCEEAE) is one such initiative evolved through "MoU" with French Ministry of National Education and Schneider Electric India Pvt. Ltd., The main objectives of IFCEEAE are

- To train the students of all streams of Engineering in Automation field.
- To facilitate interdisciplinary and applied research with a focus on innovative product development.
- To provide excellent career opportunities to students through exchange programs with French Universities, Industrial Training, Innovative Learning and R & D activities especially in the areas like Smart Grid, Internet of Things (IoT), Energy Management Systems, Embedded Systems, Supervisory Control and Data Acquisition (SCADA) and Industrial Automation.

The Department nurtures young minds beyond the curriculum by facilitating technical clubs that promote technical events, community development, societal impact, and programmes on universal values and ethics. In support of this initiative, the Department of Electrical and Electronics Engineering has established several IEEE Student Branch Chapters under the world's largest non-profit technical professional organisation dedicated to the advancement of technology. These include:

- IEEE Power Electronics Society (PELS) Student Branch Chapter (Geo-Code: SBC66131)
- IEEE Industrial Electronics Society (IES) Student Branch Chapter (Geo-Code: SBC66131B)
- IEEE Power and Energy Society (PES) Student Branch Chapter (Geo-Code: SBC66131D)
- IEEE Dielectrics and Electrical Insulation Society (DEIS) Student Branch Chapter (Geo-Code: SBC66131F)
- IEEE Transportation Electrification Council (TEC) Student Branch Chapter (Geo-Code: SBC66131G)

These chapters provide students with enhanced exposure, skill development, and increased opportunities for campus placements in core industries, IT sectors, and Public Sector Units (PSUs).

VISION

To evolve into a centre of excellence in Electrical and Electronics Engineering for bringing out contemporary Engineers, Innovators, Researchers and Entrepreneurs for serving nation and society.

MISSION

- To provide suitable forums to enhance the teaching-learning, research and development activities.
- Framing and continuously updating the curriculum to bridge the gap between industry and academia in the contemporary world and serve society.
- To inculcate awareness and responsibility towards the environment and ethical values.

PROGRAMME OUTCOMES (POS)

- **PO1:** Engineering Knowledge: Apply knowledge of Mathematics, Natural Science, Computing, Engineering Fundamentals and an Engineering specialisation as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.
- **PO2:** Problem Analysis: Identify, formulate, review research literature and analyse complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

- **PO3:** Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
- **PO4:** Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis and interpretation of data to provide valid conclusions. (WK8).
- **PO5:** Engineering Tool Usage: Create, select and apply appropriate techniques, resources and Modern Engineering and IT tools, including prediction and modelling recognising their limitations to solve complex engineering problems. (WK2 and WK6).
- **PO6:** The Engineer and The World: Analyse and evaluate societal and environmental aspects while solving complex Engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7)
- **PO7:** Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national and international laws. (WK9)
- **PO8:** Individual and Collaborative Team Work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
- **PO9:** Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.
- **PO10:** Project Management and Finance: Apply knowledge and understanding of Engineering Management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
- **PO11:** Life-Long Learning: Recognise the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

KNOWLEDGE AND ATTITUDE PROFILE (WK)

- **WK1:** A systematic, theory-based understanding of the Natural Sciences applicable to the discipline and awareness of relevant social sciences.
- **WK2:** Conceptually-based Mathematics, Numerical Analysis, Data Analysis, Statistics and formal aspects of Computer and Information Science to support detailed analysis and modelling applicable to the discipline.
- **WK3:** A systematic, theory-based formulation of Engineering fundamentals required in the Engineering discipline.
- **WK4:** Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the Engineering discipline; much is at the forefront of the discipline.
- **WK5:** Knowledge, including efficient resource use, environmental impacts, whole-life cost, reuse of resources, net zero carbon, and similar concepts, that supports Engineering design and operations in a practice area.
- **WK6:** Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.
- **WK7:** Knowledge of the role of engineering in society helps in identifying issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.
- **WK8:** Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.
- **WK9:** Ethics, inclusive behavior and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- **PEO1:** To provide good learning environment to develop entrepreneurship capabilities in various areas of Electrical and Electronics Engineering with enhanced efficiency, productivity, cost effectiveness and technological empowerment of human resource.
- **PEO2:** To inculcate research capabilities in the areas of Electrical and Electronics Engineering to identify, comprehend and solve problems and adopt themselves to rapidly evolving technology.
- **PEO3:** To create high standards of moral and ethical values among the graduates to transform them as responsible citizens of the nation.

PROGRAMME SPECIFIC OUTCOME (PSOs)

- **PSO1:** Apply knowledge of electrical machines, circuit analysis, electronics, power systems, control, instrumentation, power electronics, signal processing, and embedded systems to analyse, design, and implement solutions for real-world applications using modern hardware and software tools.
- **PSO2:** Design and develop innovative solutions in renewable energy, electric vehicles, smart grids, and automation with focus on environmental sustainability and societal needs.

EDITORIAL TEAM



PROF. SATISHKUMAR D

Senior Assistant Professor EEE, NHCE

STUDENT COORDINATORS



SRINJOY DAS
1NH24EE100



NAYANA S
1NH24EE064



A SPOORTHY
1NH24EE001



SHILDON MAX MILLAN M
1NH24EE093



YASH KUMAR SINGH
1NH24EE122



MOHIT KUMAR
1NH24EE058



PRAMOD R
1NH24EE072



PRAKRUTHI C R
1NH24EE071



PRASHANTH E PILLAI
1NH24EE075



JESTA
1NH24EE044



SHREE CHAITANYA
1NH24EE094



TANUSHREE G
1NH24EE108

INDUSTRIAL VISITS

Karnataka Hybrid Micro Devices Limited (KHMDL), Bengaluru
04.11.2025 & 05.11.2025

The Department of Electrical and Electronics Engineering, NHCE, organised an industrial visit to Karnataka Hybrid Micro Devices Limited (KHMDL), Bengaluru, on 4th and 5th November 2025 for 7th Semester B.E. students of Sections A and B. The visit aimed to bridge the gap between theory and practical applications. Conducted under the IEEE NHCE Student Branch along with IES, PELS, and IAS.



Bangalore Chapter, the visit offered insights into hybrid microcircuit fabrication, sensor calibration, testing processes, and power electronics applications. Students gained exposure to industrial standards, safety practices, emerging technologies, and career opportunities in electronics manufacturing, effectively connecting academic learning with real-world industry practices.

INDUSTRIAL VISIT

Dynalektric Equipment

29.11.2025



The Department of Electrical and Electronics Engineering organised an industrial visit to Dynalektrik Equipment, Bengaluru, on 29 November 2025 for III Year B.E. students. The visit aimed to provide hands-on exposure to electrical equipment manufacturing, panel assembly, safety standards, and quality control processes. Students attended an introductory session followed by guided tours of panel assembly, insulation, testing, and inspection units. Experts explained wiring practices, protection devices, earthing methods, and standard operating procedures. The visit helped students relate theoretical concepts to real-time industrial applications, enhanced their practical understanding, and created awareness of career opportunities in the electrical manufacturing sector.

Vijay Electric, Bengaluru
01.12.2025



The Department of Electrical and Electronics Engineering organised an industrial visit to Vijay Electric, Bengaluru, on 01 December 2025, in association with the IEEE NHCE Student Branch and IEEE TEC Student Branch Chapter, for second-year EEE students. The visit aimed to provide practical exposure to power systems, transformers, and industrial electrical installations. Students attended an introductory session followed by a guided tour of transformer assembly, testing, and quality assurance units. Experts explained transformer construction, cooling, insulation, safety practices, and maintenance procedures. The visit helped students relate theoretical concepts to real-time applications, enhanced their technical understanding, and created awareness about career opportunities in the electrical power sector.

Dynalektric Equipment, Bengaluru
02.12.2025



The Department of Electrical and Electronics Engineering organised an industrial visit to Dynalektric Equipment, Bengaluru, on 02 December 2025 for third-year EEE students, with the objective of providing hands-on exposure to electrical equipment manufacturing and industrial practices. Students were introduced to the company's profile and product range, followed by a guided tour of electrical panel assembly, testing, and quality inspection units. Experts explained wiring practices, protection devices, safety standards, earthing methods, and insulation techniques. The visit helped students relate theoretical knowledge to real-time applications, enhanced their understanding of industrial safety and quality practices, and increased awareness of career opportunities in the electrical manufacturing sector.

Industrial Visit – Vijay Electric
03.12.2025



The Department of Electrical and Electronics Engineering organised an industrial visit to Dynalektric Equipment, Bengaluru, on 02 December 2025 for third-year EEE students, with the objective of providing hands-on exposure to electrical equipment manufacturing and industrial practices. Students were introduced to the company's profile and product range, followed by a guided tour of electrical panel assembly, testing, and quality inspection units. Experts explained wiring practices, protection devices, safety standards, earthing methods, and insulation techniques. The visit helped students relate theoretical knowledge to real-time applications, enhanced their understanding of industrial safety and quality practices, and increased awareness of career opportunities in the electrical manufacturing sector.

Industrial Visit – Vijay Electric
03.12.2025



The Department of Electrical and Electronics Engineering organised an industrial visit to Vijay Electric, Bengaluru, on 03 December 2025 for II Year B.E. Section A students. The visit aimed to provide practical exposure to power systems, transformers, switchgear, and industrial installations. Students attended an introductory session followed by a guided tour of transformer assembly, inspection, testing, and quality assurance units. Experts explained transformer construction, cooling and insulation methods, safety practices, and maintenance procedures. The visit enabled students to relate theoretical concepts to real-time applications, enhanced their technical understanding, and created awareness about career opportunities in the electrical power sector.

TEDx TALKS

Electric Mobility is the Future

14.10.2025



The Department of Electrical and Electronics Engineering, NHCE, organised a TEDx Talk titled “Electric Mobility is the Future!” on 14th October 2025 at Room B-202 for III semester EEE students. The session was delivered by Mr. Kartikey Hariyani, TEDxNUV speaker. He discussed the impact of electric vehicles, EV ecosystem, battery and charging technologies, government policies, and career opportunities in electric mobility. The interactive session inspired students to explore sustainable transportation, innovation, and EV-related projects, reinforcing the department’s focus on applied learning and future technologies.

How Are Microchips Made

15.10.2025

The Department of Electrical and Electronics Engineering, NHCE, organised a TEDx Talk titled “How Are Microchips Made?” on 15th October 2025 in Room B-203. The session aimed to provide students with practical insights into semiconductor manufacturing and emerging technologies. Science



communicators, George Zaidan and Sajjan Saini explained the evolution and fabrication of microchips, covering key processes such as wafer preparation, photolithography, doping, and packaging, along with their applications across various industries. The interactive session inspired students to explore careers in VLSI and Semiconductor Technology, reinforcing the department's focus on industry-relevant and holistic engineering education.

TEDx Talk -What If Engineers Are Copycats 15.10.2025



On 15th October 2025, the Department of Electrical and Electronics Engineering organised a TEDx Talk titled “What If Engineers Are Copycats?” as part of its academic enrichment initiatives. The session was delivered by Mr. Kiran Christopher from TEDxMACE. The talk highlighted the role of Reverse Engineering and creative adaptation in innovation, with examples from biomimicry such as velcro, bullet trains, and lotus-inspired surfaces. The interactive session encouraged interdisciplinary thinking and inspired students to adopt a fresh, curiosity-driven approach to engineering.

SEMINARS AND WORKSHOPS

AI & ML-Driven Power Electronics: Smart Embedded Systems and Next-Gen Batteries for the Future of E-Mobility and Defense Technologies **16.07.2025 to 17.07.2025**



The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, organised a two-day sponsored seminar on 16th and 17th July 2025 with the support of the Anusandhan National Research Foundation (ANRF), Department of Science and Technology (DST), Government of India. Titled “AI & ML-Driven Power Electronics: Smart Embedded Systems and Next-Gen Batteries for the Future of E-Mobility and Defense Technologies,” the seminar focused on emerging technological advancements in Power Electronics and Energy Systems. The first day featured sessions on Power Electronics and Smart Embedded Systems, while the second day emphasised next-generation battery technologies and defense-oriented applications.

Research Potential in Power Electronics Converters for Renewable Energy **17.09.2025 to 18.09.2025**

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, organised a two-day ANRF-sponsored National Seminar titled “Research Potential in Power Electronics Converters for Renewable Energy” on 17th and 18th September 2025, with support from the



Anusandhan National Research Foundation (ANRF), Department of Science and Technology (DST), Government of India. The seminar provided a collaborative platform for researchers, academicians, industry professionals, and students to deliberate on recent advancements in power electronics for renewable energy systems. The sessions focused on emerging research trends, converter topologies for solar, wind, and hybrid applications, integration challenges, and future research directions. The event emphasised interdisciplinary research and academic-industry collaboration, facilitating meaningful knowledge exchange and networking opportunities. Young researchers were encouraged to pursue innovative projects in sustainable energy systems, making the seminar a significant academic initiative that promoted research excellence in renewable energy.

Expert Lecture on Understanding Cloud Practices 25.09.2025



The Department of Electrical and Electronics Engineering, in collaboration with IEEE NHCE Student Branch and its societies, organised an expert lecture titled “Understanding Cloud Practices” on 25th September 2025 at Tejas Seminar Hall. The session was delivered by Mr. Duvvuri Naga Dayakara Reddy, Solution Architect at DXC Technologies, Bengaluru. He discussed key cloud computing concepts, cloud adoption strategies, deployment models, Microsoft Azure services, security best practices, and enterprise applications. The session,

attended by 100 students and 5 faculty members, received positive feedback for its practical relevance and industry insights.

Guest Talk on Innovation and Design Thinking **10.10.2025**



The Department of Electrical and Electronics Engineering, in collaboration with the New Horizon Council for Innovation Incubation and Entrepreneurship (NHCIIE), organised a guest talk on “Innovation and Design Thinking” on 10th October 2025 at Tejas Seminar Hall. The speaker explained the design thinking process and showcased real-world innovations, encouraging creative, user-centered problem solving. The interactive session inspired students to adopt a systematic and entrepreneurial approach to innovation in engineering.

Expert Talk on Fundamentals of VLSI Design **14.10.2025**



The Department of Electrical and Electronics Engineering, in collaboration with the IEEE NHCE Student Branch and its chapters, organised an expert talk on “Fundamentals of VLSI Design” at Tejas Seminar Hall for 5th semester students. The session was delivered by Mr. Rameez Khan, Post Silicon Validation Engineer at Synopsys, Bengaluru. He explained the silicon development life cycle, covering pre-silicon design and verification, post-silicon validation, and testing processes. The interactive session helped students understand VLSI industry practices and career opportunities, and was well received for its practical insights.

Smart Sensors and IoT for Electric Vehicles: A Hands-On Workshop 30.10.2025



The Department of Electrical and Electronics Engineering, supported by IEEE Sensors Council and WiSe, organised a one-day hands-on workshop on “Smart Sensors and IoT for Electric Vehicles” on 30th October 2025. II and III-year EEE students gained practical experience with sensor technologies and IoT integration in EV Systems through expert sessions and live demonstrations, enhancing technical skills and fostering innovation in smart mobility.

Workshop on Intellectual Property Rights (IPR) and Significance of Technology Transfer 22.11.2025



The Department of Electrical and Electronics Engineering, in collaboration with IIC, NIPAM, and IEEE DEIS, organised a one-day workshop on “Intellectual Property Rights and Technology Transfer” on 22nd November 2025. Mr. J. E. Moshe Dayan delivered an interactive session covering patents, copyrights, trademarks, industrial designs, and technology commercialisation. The workshop, attended by 60 participants, enhanced IPR awareness and encouraged innovation among students and faculty.

ACHIEVEMENTS

SRUJANA 2025 – National Innovation Showcase 13.09.2025 to 15.09.2025



Nishanth M (1NH24EE406) and Veeresh Wadawadagi (1NH24EE411), 5th semester EEE students, won 3rd place at the national-level SRUJANA 2025 innovation and project exhibition held at Chanakya University, Bengaluru (13–15 September 2025). Their project “Logic Loop” demonstrated technical skill and creativity, reflecting the department’s focus on experiential learning and innovation.

State Level Ideathon 2025 21.11.2025



Dwiraj S, a 3rd-semester EEE student, secured 2nd place at the State-Level Ideathon 2025 organised by AICTE IDEA Lab, NHCE, as part of the team “Potato Rangers”. The achievement highlights his creativity, innovation, and problem-solving skills.

IISc x Qiskit Fall Fest 2025 – Superpose'24 Hackathon 25.11.2025



Dwiraj S (1NH24EE036), a 3rd-semester EEE student, secured 1st place at the IISc x Qiskit Fall Fest 2025 – Superpose'24 Hackathon. Representing the NHCE team “Potato Rangers”, he excelled in the IBM BB84 Quantum Key Distribution Challenge, showcasing expertise in quantum technologies, analytical skills, and innovative problem-solving.

Proud Moment for NHCE: 2nd Prize at Milagro 2K25 Robo Race 27.11.2025



Apeksh Singh (1NH23EE007) and Shashank S (1NH23EE095) from the Department of Electrical and Electronics Engineering, NHCE participated in Milagro 2K25 (Robo Race), a National Level Tech Symposium held at Sai Ram College of Engineering. We are proud to announce that they have secured the 2nd Prize in the Robo Race competition!

NHCE EEE Student Achievement – 1st Prize at IDEATHON-2025 05.12.2025



Ms. Nayana S (1NH24EE064), from the EEE Department, NHCE won 1st prize at IDEATHON-2025 organised by ISTE at Chennabasaveshwara Institute of Technology, Tumkur, bringing pride to the department.

PLACEMENT DETAILS - AY: 2025-2026

Sl No	USN	Name	Company Placed
1	1NH22EE088	Raj Singh	Gilbarco
2	1NH22EE125	Yashaswini BS	Nokia
3	1NH22EE119	Thavanya Maria Singh	Merck
4	1NH22EE063	Lalith Narayan	Temenos
5	1NH22EE099	Shatakshi Pattanaik	Temenos
6	1NH22EE091	Renuka R Ramakrishnan	Plivo
7	1NH22EE015	Ashitha Subbaiah	Plivo
8	1NH22EE070	Muhammed Sinan K V	Netradyne
9	1NH22EE122	Veeresh Doddamani	Infosys
10	1NH22EE028	Chaudhary Manas Ray	Infosys
11	1NH22EE005	Achutha E B	Infosys
12	1NH22EE045	G R Yashwanth	Infosys
13	1NH22EE108	Sudeep Kumar Dutta	Infosys
14	1NH22EE002	Abhishek A Gowda	Capgemini-VLSI
15	1NH22EE003	Abhishek J	Capgemini-VLSI
16	1NH22EE009	Aishwarya C S	Capgemini-VLSI
17	1NH22EE072	Nishant Gupta	Capgemini-VLSI
18	1NH22EE090	Rani Gupta	Capgemini-VLSI
19	1NH22EE094	S Bindushree	Capgemini-VLSI
20	1NH22EE095	Sahana Pattar	Capgemini-VLSI
21	1NH22EE115	SYED ROSHAN A	Capgemini
22	1NH22EE040	Dhanya Shree S	Siemens Global Service
23	1NH23EE408	Kiran Kumar R	Siemens Global Service
24	1NH22EE097	Sakshi S M	Manjushree Technopack
25	1NH22EE101	Shreya N	Manjushree Technopack
26	1NH22EE025	Chandini N	Manjushree Technopack
27	1NH22EE112	Supritha.K	LTI Mindtree
28	1NH22EE105	Subhashree M M	TCS (VLSI)
29	1NH22EE092	Reshma Raj K R	Amazon
30	1NH22EE082	Preety Gupta	Amazon
31	1NH22EE112	Supritha K	Ericsson
32	1NH22EE120	Tirotaman K	Amazon
33	1NH22EE001	Aashish Thomas Oommen	Amazon
34	1NH22EE107	Sudeep J	Amazon
35	1NH22EE034	Deepu T	Amazon
36	1NH22EE077	Prajwal M R	Amazon
37	1NH22EE093	Roshan P	Solar Square Energy
38	1NH22EE081	Preethamraj	Solar Square Energy
39	1NH22EE077	Prajwal B	Solar Square Energy
40	1NH22EE058	Kavin N	Solar Square Energy

RESEARCH PUBLICATIONS FOR THE ACADEMIC YEAR 2025-26

Sl No	Faculty Name	Paper Title	Month Year	Journal / Conference Title	Source (Scopus / WoS)	Publication Type (Mention Journal / Conference)	DOI
1	D. Satish Kumar	Deep learning enabled real time parking monitoring using YOLOv7 for intelligent and secure critical infrastructure	December, 2025	Discover Computing	Scopus	Journal	https://doi.org/10.1007/s10791-025-09789-7
2	Surat Pyari Atti	Signal detection in optical orthogonal time space modulation for efficient VLC application	October, 2025	Journal of Optical Communications	Scopus	Journal	https://doi.org/10.1515/joc-2025-0381
3	Arangarajan Vinayagam	State of Health Aware Adaptive Scheduling of Battery Energy Storage System Charging and Discharging in Rural Microgrids Using Long Short-Term Memory and Convolutional Neural Networks	October, 2025	Energies	Scopus	Journal	https://doi.org/10.3390/en18215641
4	Dr. Mohan Das R	Modelling and optimization of hybrid renewable energy system using SBLa-MAT algorithm	September, 2025	International Journal of Power Electronics and Drive System (IJPEDS)	Scopus	Journal	10.11591/ijpeds.v16.i3.pp1897-1913
5	Dr. B. Gunapriya	Cost-efficient energy management between electric vehicle charging stations and distribution systems using intelligent scheduling	September, 2025	Energy	Scopus	Journal	https://doi.org/10.1016/j.energy.2025.138687
6	Arangarajan Vinayagam	Drilling performance, open-hole tensile properties, and ANN-based prediction of PALF/banana hybrid composites	August, 2025	Journal of Reinforced Plastics and Composites	Scopus	Journal	https://doi.org/10.1177/0731684425136845

PATENT PUBLICATION DETAILS FOR THE AY 2025-26

Sl. No.	Name of the Inventor	Application No.	Date of Application Submitted	Title of Patent	Published/Granted	Publication Volume No	Publication Date
1	Dr. Vinoth Kumar K	202541104790A	30/10/2025	DESIGN OF BLUETOOTH BASED REMOTE VOLTAGE MONITORING FOR OFF-GRID BATTERY	Published	48/2025	28/11/2025
2	Dr. M Karthika	202541088542 A	17/9/2025	A NOVEL CONTROL SYSTEM FOR ADAPTIVE MPPT CONTROLLER	Published	42/2025	17/10/2025
3	Anitha.A	202541088545 A	17/9/2025	DESIGN OF PORTABLE FIXTURE FOR SOLAR POWERED SYSTEM	Published	42/2025	17/10/2025
4	Ch.kavitha	202541088498 A	17/9/2025	ATOMIZER BASED TOOTHBRUSH STERILIZATION STAND	Published	42/2025	17/10/2025
5	Dr. Vinoth Kumar K	202541088341 A	17/9/2025	DESIGN OF STABLE BATTERY SYSTEM	Published	42/2025	17/10/2025
6	Dr Agalya V	462636-001	17/10/2025	TOP-LOCKING CARABINER HOOK	Published	42/2025	17/10/2025

FACULTY PARTICIPANTS IN FACULTY DEVELOPMENT/ TRAINING/STTPS FOR THE ACADEMIC YEAR 2025-2026

Sl No	Name of the Faculty	STTP/FDP/Workshop/Training Activities	No. of days/weeks	Dates	Organization
1	Dr. Vinoth Kumar K	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
2	Dr. Sujoy Das	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
3	Dr. B. Gunapriya	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
4	Mr. Satish Kumar D	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
5	Ms. Veena Hunagund	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
6	Ms. Anitha Nair	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru

7	Mr. Satish Kumar D	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
8	Mr. Megha Sandesh B P	Digital Twin Technology and its role in Industrial Automation	6 days	18/08/2025 to 23/08/2025	New Horizon College of Engineering, Bengaluru
9	Dr. Sujoy Das	Sustainable Development through Renewable Energy Integration	6 days	24/11/25 to 29/11/2025	Engineering College Bikanar
10	Mrs. Sangeetha CN	Next Generation Semiconductor Technologies: Design, Materials and Applications	6 days	27/10/2025 to 01/11/2025	Vimal Jyothi Engineering College Chemperi Kannur Kerala
11	Mrs. Soumya K V	Sustainable Semiconductor Technologies: Designing Energy-Efficient Devices for Green Electronics	6 days	24/11/2025 to 29/11/2025	Anil Neerukonda Institute of Technology & Sciences
12	Mrs. Soumya K V	Next Generation Semiconductor Technologies: Design, Materials and Applications	6 days	27/10/2025 to 01/11/2025	Vimal Jyothi Engineering College Chemperi Kannur Kerala
13	Mrs. Pooja Jose	AI In Action	6 days	15/09/2025 to 20/09/2025	AWH Engineering College

RESEARCH PUBLICATIONS FOR THE ACADEMIC YEAR 2025-26 (CONFERENCE)

Sl No	Faculty Name	Paper Title	Month Year	Journal / Conference Title	Source (Scopus / WoS)	Publication Type (Mention Journal / Conference)	DOI
1	Dr. Sujitha S	HYPER RAIL: Partial Vacuum-Powered Railway with Dynamic Demand Response Solar Energy Management	October, 2025	Proceedings of the 2nd International Conference on Electronic Circuits and Signaling Technologies (ICECST-2025)	Scopus	Conference	
2	Dr. Sujitha S	HYPER RAIL: Partial Vacuum-Powered Railway w	October, 2025	Proceesdings of the 9th International Conference on I-SMAC-2025	Scopus	Conference	
3	Surat Pyari Atti	Energy-Efficient Beamforming for 6G mmWave Networks Using Deep Swarm Intelligence	October, 2025	4th International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)	Scopus	Conference	10.1109/ICIMIA67127.2025.11200559
4	Satish Kumar D	Grid connected Single Stage PV system by UsingSuper Twisting Sliding Mode Controllers	September, 2025	2025 International Conference on Computing Technologies & Data Communication (ICCTDC)	Scopus	Conference	10.1109/ICCTDC64446.2025.11158998
5	Dr. Sujoy Das	Application of Crayfish Optimization Algorithm for Addressing Combined Heat and Power Dispatch Problem	September, 2025	7th International Conference on Energy, Power and Environment (ICEPE)	Scopus	Conference	10.1109/ICEPE65965.2025.11139726
6	Anitha Nair	Smart Fuse - A GSM and Bluetooth Enabled Safety System	August, 2025	2025 11th International Conference on Electrical Energy Systems (ICEES)	Scopus	Conference	10.1109/ICEES67011.2025.11213158
7	Anitha Nair	Solar Cell-Based Energy Management System For Real-time Control and Optimization Of Electricity	August, 2025	2025 11th International Conference on Electrical Energy Systems (ICEES)	Scopus	Conference	10.1109/ICEES67011.2025.11212959
8	Anitha Nair	Speed Regulation using MRAC based FOPID Controller In Current-Controlled DC Motor based on Integral Time Absolute Error Reduction	August, 2025	2025 11th International Conference on Electrical Energy Systems (ICEES)	Scopus	Conference	10.1109/ICEES67011.2025.11213207

FACULTY COMPETENCIES IN CORRELATION TO THE MOOC COURSES

Sl. No	Name of the Faculty	Title of the Course	No. of days/weeks	Dates	Platform
1	Soumya K V	Teaching and Learning in General Programs: TALG	4 week	Jul to August , 2025	NPTEL
2	Sangeetha C N	Teaching and Learning in General Programs: TALG	4 week	Jul to August , 2025	NPTEL
3	Kavitha Chenna Reddy	Fundamentals of Artificial Intelligence	12 week	Jul to October , 2025	NPTEL

Industry Skill Lab



INTERNATIONAL COLLABORATIONS



INDUSTRY COLLABORATIONS



Student Clubs

CO-CURRICULAR CLUBS



Aerobots Club



Business & Information Technology Club



Cybersecurity & Ethical Hacking Club



Data Analytics Club



ED & Start Up Club



Emsys Club



Evolve.AI



Foss Club



Green Energy Club



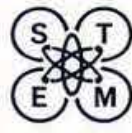
Healthxcel Club



Innovation Club



Robohorizon Club



STEM Club



Tech Forge Club



Mobile App Development Club

EXTRA CURRICULAR CLUBS



Rotaract NHCE



Dance Club



Music Club



Art Club



Literary Club



TEDx Club



NSS Club



Socio-Political Club



Fitness Club



Media Club



Fashion Club



Leo Club



Green Warriors



Drama Club



Alumni Club

SPORTS CLUBS



Volley Ball Club



Basket Ball Club



Badminton Club



Kabaddi Club



Football Club



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