EEE DEPARTMENT
2023-24

SRI VENKATESA PERUM
COLLEGE OF ENGINEERING & TECHN
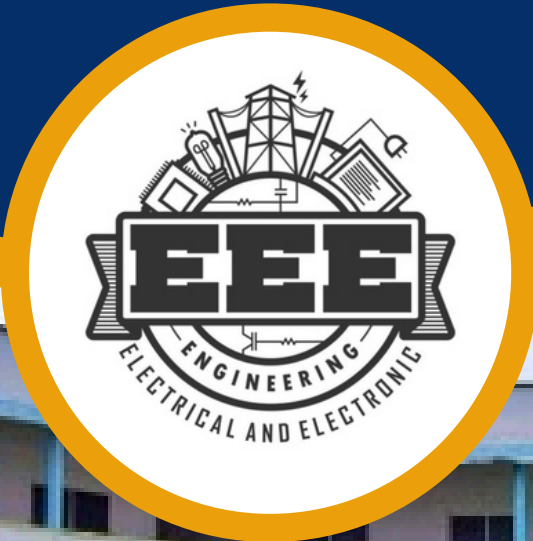AUTONOMOUS

EEE
ENGINEERING
ELECTRICAL AND ELECTRONIC

NEWSLETTER
01/07/2023-31/12/2023

OUR SOURCE OF INSPIRATION

Dr. Ravuri Venkataswamy Chairman

Ravuri Balaji Vice Chairman

Dr. T.SunilKumar Reddy Principal

ABOUT COLLEGE

Sri Venkatesa Perumal College of Engineering (SVPP), established in 2001 in Puttur, Tirupati, Andhra Pradesh, is promoted by the Tamilian Education Academy. Spread over 25 acres, SVPP features well-ventilated classrooms, state-of-the-art labs, and extensive sports facilities. It is affiliated with Jawaharlal Nehru Technological University Anantapur (JNTUA), ISO 9001-2000 certified, approved by AICTE, and accredited by NAAC with an 'A' grade. The CSE, ECE, and EEE departments are accredited by NBA. SVPP offers 5 undergraduate courses (540 seats) and 7 postgraduate engineering courses (18 seats each), along with MBA (120 seats) and MCA (60 seats). The campus has WiFi, a central library with digital resources, and a fleet of 20 buses for transportation. Seventy percent of the faculty are ratified by JNTUA, ensuring distinguished and experienced educators.

SVPP provides industry-standard labs and workshops, and research centers equipped with the latest software. Strong industry links through MOUs with companies like Infosys, Cyient, Wipro, Zenopsys, and ERDL enhance students' learning and employment prospects. The college's focus on employment includes active support for internships. Strategically located on the Chennai-Bangalore Highway, SVPP is 20 minutes from Tirupati Airport, offering a lush, green, and pollution-free campus environment.

VISION OF THE INSTITUTE

To emerge as a Center of Excellence for Learning and Research in the domains of Engineering, Technology, Computing and Management.

VISION OF THE DEPARTMENT

The vision of Electrical & Electronics Engineering Department is dedicated for curving the youth as dynamic, competent, valued and knowledgeable professionals who shall lead the nation to a better.

MISSION OF THE INSTITUTE

M1: To provide congenial academic ambience with state-of-art resources for learning and research.
M2: Ignite the students to acquire self-reliance in the latest technologies.
M3: Unleash and encourage the innate potential and creativity of students.
M4: Inculcate confidence to face and experience new challenges.
M5: Foster enterprising spirit among students work collaboratively with technical Institutes/ Universities/Industries of National and International repute.

MISSION OF THE DEPARTMENT

- Providing quality education, student centered teaching – learning process and state of art infrastructure for professional aspirants hailing from both rural and urban areas.
- Imparting technical education that encourages independent thinking, develops strong domain of knowledge, hones contemporary skills and positive attitudes towards holistic growth of young minds.
- Evolving the department into a centre of academic and research excellence.

MEET OUR ESTEEMED FACULTY

We are proud to introduce our distinguished faculty members, whose expertise and dedication drive our institution's excellence.

Professors
Dr. K. Siva Kumar (HOD)
Dr. G. Sreenivasan
Dr. G. Sheshadri
Dr. G. Sabarinath

Associate Professors
Mr. M. Lokanadham
Mr. K. Venkatapathi
Mr. K. Kiran
Mr. S. Munisekhar

Assistant Professors
Mr. J. Nagaraju
Mr. K. Janardhan
Mr. G. Vijay Kumar
Mr. A. Naveen Kumar
Mr. M. Harish
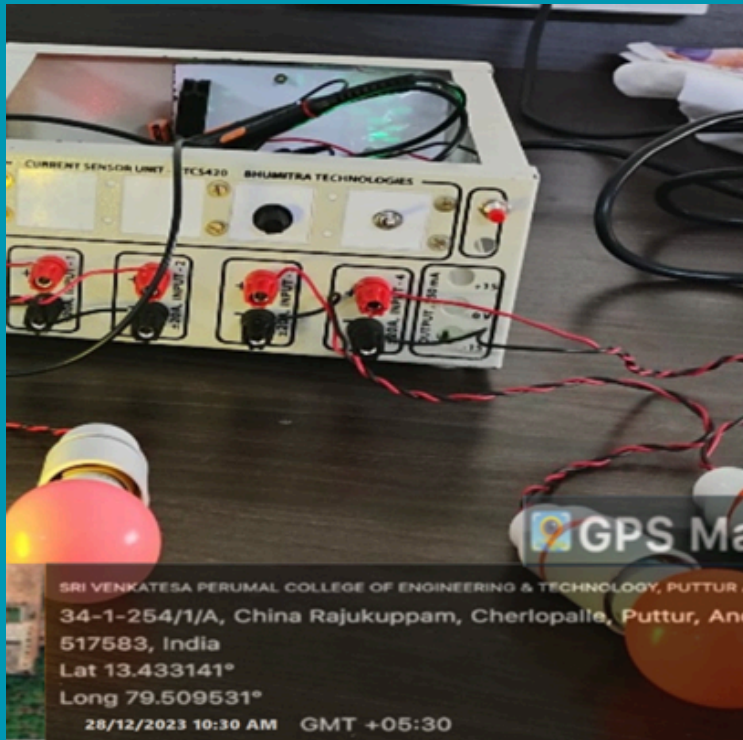Mr. A. Rajesh
Mr. D. Mohan
Mr. K. Rajesh
Mrs. N. Sushmitha
Ms. P. Geetha
Mr. T. Pavan Kumar

Each of these individuals brings a wealth of knowledge and a passion for teaching, ensuring that our students receive the best education and mentorship. We are honored to have such a dedicated and talented team.

PEACE BE AMPLIFIED, WORLD BE RECTIFIED

Successful Completion of IoT Based Home Automation System Project (Funding Project)

PROJECT OVERVIEW

We are delighted to share the successful completion of an innovative project titled **"IOT Based Home Automation System."** This cutting-edge project was spearheaded by Professor **A. Rajesh** during the 2023-24 academic year and focused on leveraging Internet of Things (IoT) technology to enhance home automation systems.

FUNDING AND SUPPORT

This project received generous funding from ASIAN ENGINEERING SERVICES, BALAJI COLONY, TIRUPATHI, with a grant of ₹38,000. The support from ASIAN ENGINEERING SERVICES was instrumental in enabling the research and development necessary to bring this project to fruition.

IMPACT AND FUTURE PROSPECTS

The completion of this project marks a significant achievement in our pursuit of advanced home automation solutions. By integrating IoT technology into home automation systems, this project paves the way for smarter, more efficient, and user-friendly home environments, setting the stage for future innovations in this rapidly evolving field.

Faculty Consultancy and Corporate Training Highlights

Mrs. N. Sushmitha:

Our esteemed faculty member, Mrs. N. Sushmitha, successfully concluded a consultancy project with Pragna Microdesigns, located at No. 287, 5th Main Road, 1st Stage, KHB Colony, Bangalore. This project spanned from 20th September 2023 to 27th December 2023, generating ₹44,000. During this period, she focused on enhancing their microdesign processes.

We commend our faculty for her dedication and expertise in contributing to industry advancements.

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Guest Lectures: Insights from Industry Experts

As part of our ongoing efforts to enrich our students' learning experiences, we organized a series of guest lectures during the academic year 2023-24. These lectures provided students with valuable insights from industry experts and academic professionals, bridging the gap between classroom learning and real-world applications.

Challenges and Future Trends in Information Technology

Held from November 5 to November 6, 2023, this event targeted fourth-year students. A total of 37 participants engaged in discussions and activities focused on the latest challenges and emerging trends in the field of information technology. The event provided a platform for students to explore new advancements and consider their future careers in this rapidly evolving industry.

Design and Optimization of Power Electronics Converters for Industrial Applications

This lecture, conducted from July 23 to July 24, 2023, was aimed at third-year students. It attracted 46 participants who were keen to learn about the design and optimization of power electronics converters. The industry expert shared practical insights and experiences, bridging the gap between theoretical knowledge and its application in industrial settings. Students gained a deeper understanding of how these converters play a crucial role in modern industrial processes.

These guest lectures are part of our ongoing efforts to enrich our students' educational experience by connecting them with industry leaders. We are committed to providing more opportunities for our students to learn from experts and stay updated on the latest industry trends.

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Internship Participation Announcement

We are thrilled to announce that a group of our dedicated students have successfully participated in various enriching internship programs organized by esteemed institutions.

Electric Vehicle Design Internship

From August 1st, 2023, to August 31st, 2023, the following students attended an intensive internship focused on Electric Vehicle Design, organized by the Andhra Pradesh State Skill Development Corporation (APSSDC):

- C. Jyothi Prakash
- E. Chandu
- B. Ramanjineyulu
- B. Shashi Kumar
- B. Mahesh
- B. Naveen Kumar
- C. Venkatesh
- C. Anil
- B. Girish
- J. Ramesh
- J. Yuvaraj
- T. Mallikarjuna
- K. Suresh
- D. Omkar
- R. Puneeth

This program provided these students with hands-on experience and in-depth knowledge in the cutting-edge field of Electric Vehicle Design, equipping them with valuable skills for their future careers.

Python & Machine Learning Internship

From November 10th, 2023, to December 10th, 2023, the following students participated in a comprehensive internship on Python & Machine Learning, organized by KaaShiv InfoTech:

- Gali Manikanta Reddy
- Godari Lakshmi Kanth
- Govinda Hemanth
- Jokannagari Golla Jaya Chandra
- Kadinti Praveen Kumar
- Siddu Chandra Sekhar
- Subban Muthu Kanmani
- Tamilisetti Geethu Anjali Krishna
- Kuppani Tharun
- Pydala Sri Venkata Sai
- Racheti Prudviraj
- Rayampalli Sampath Kumar
- Setty Ramanjaneyulu
- Vadde Raj Kumar
- Yeddula Jagadeesh Reddy

This internship provided participants with a robust understanding of Python programming and machine learning algorithms, equipping them with critical skills for the evolving tech industry.

Electrical Design Internship

From December 1st, 2023, to December 31st, 2023, another group of students attended a specialized internship on Electrical Design, organized by JEF Group:

- Boya Vikranth
- Chale Drakshayani
- Chellaiah Ranjani
- Dammayi Nikhitha
- G. Sowmya
- Gali Devendrateja
- Katam Bhavitha
- Koneti Yuvaraju
- M. Vamsidhar
- M.P. Nitheesh Kumar
- Madduluri Dora Babu
- Malchi Pavan Kumar
- Mangappagari Madhu
- Mudduluru Lakshmi Prasad
- Pulla Bhavya

This program provided the students with practical skills and in-depth knowledge in the field of Electrical Design, preparing them for future challenges and opportunities in the industry.

Sample Certificates Attached:

We commend the dedication and hard work of all these students and look forward to seeing the innovative contributions they will make in their respective fields.

Enhancing Technical Skills(Workshops): Bridging the Gap Between Academia and Industry

In our continuous effort to align academic knowledge with industry requirements, a series of workshops, courses, and visits were organized to enhance the technical skills of our students. These initiatives aim to provide hands-on experience and knowledge on modern tools and technologies.
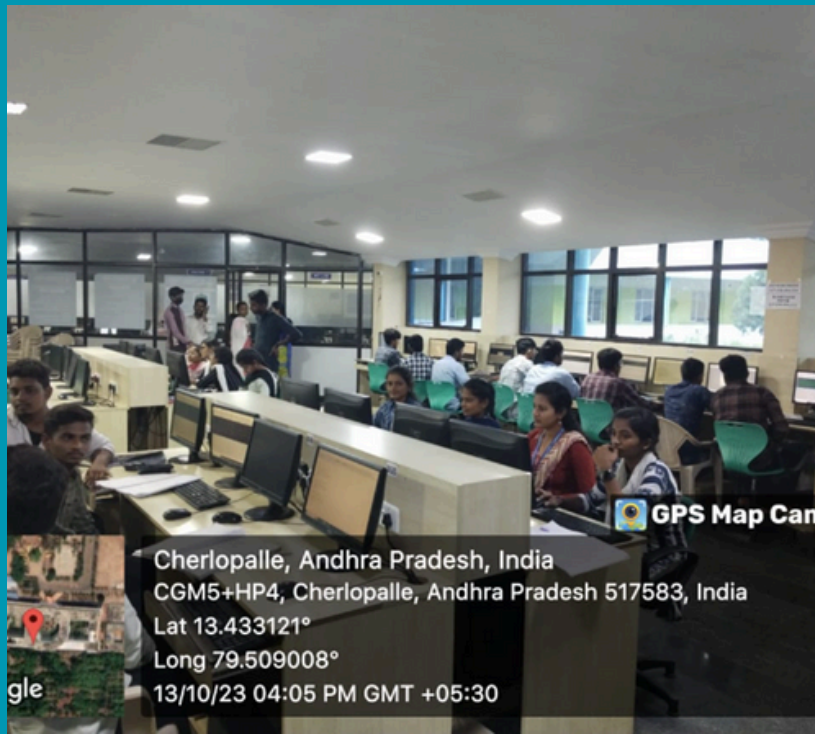
Workshop on Application of IoT in Electrical Engineering

To address the technical skills required by the industry, we organized a 5-day workshop on the application of IoT in Electrical Engineering from November 17 to November 21, 2023. This workshop, led by Dr. Jakeer Hussain and Mr. S. Kedharnath, attracted 46 students. It provided them with hands-on experience in applying IoT technologies within the field of Electrical Engineering, aligning their skills with current industry requirements. The workshop was highly relevant to various Program Outcomes (PO1, PO2, PO3, PO5, PO9, PO11, PO12) and Program Specific Outcomes (PSO1, PSO2).

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Workshop on Electrical Circuit Simulation using LT Spice

In another initiative to enhance technical skills in line with industry readiness and the usage of modern tools and technologies, we conducted a 3-day workshop on Electrical Circuit Simulation using LT Spice from October 12 to October 14, 2023. Mr. S. Kedharnath led this workshop, which was attended by 57 students. The sessions focused on simulating electrical circuits using LT Spice, providing students with practical knowledge and tools used in the industry. This workshop also addressed important Program Outcomes (PO1, PO2, PO3, PO5, PO9, PO11, PO12) and Program Specific Outcome (PSO1).

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Seminar on Artificial Intelligence Techniques in Electrical Power Systems

To provide real-time feedback and offer diverse educational resources, we held a one-day seminar on Artificial Intelligence Techniques in Electrical Power Systems on August 2, 2023. Dr. Y. Ravi Kumar conducted the seminar, which saw the participation of 33 students. The seminar introduced students to the application of AI techniques in electrical power systems, highlighting the integration of advanced technologies in modern engineering practices. This seminar was relevant to several Program Outcomes (PO1, PO2, PO3, PO5, PO9, PO11, PO12) and Program Specific Outcomes (PSO1, PSO2).
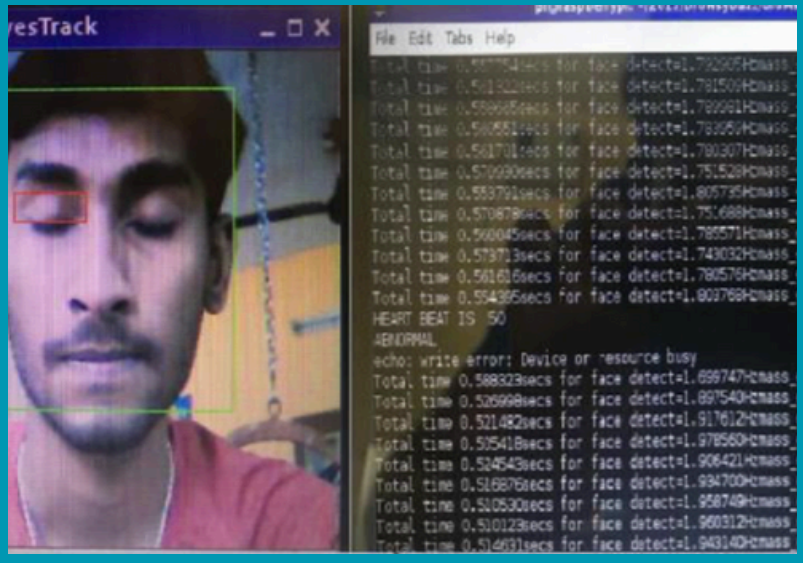
These workshops are part of our department's strategic initiatives to ensure our students are equipped with the necessary skills and knowledge to excel in their future careers. We remain committed to providing high-quality education and training that align with industry standards and expectations.

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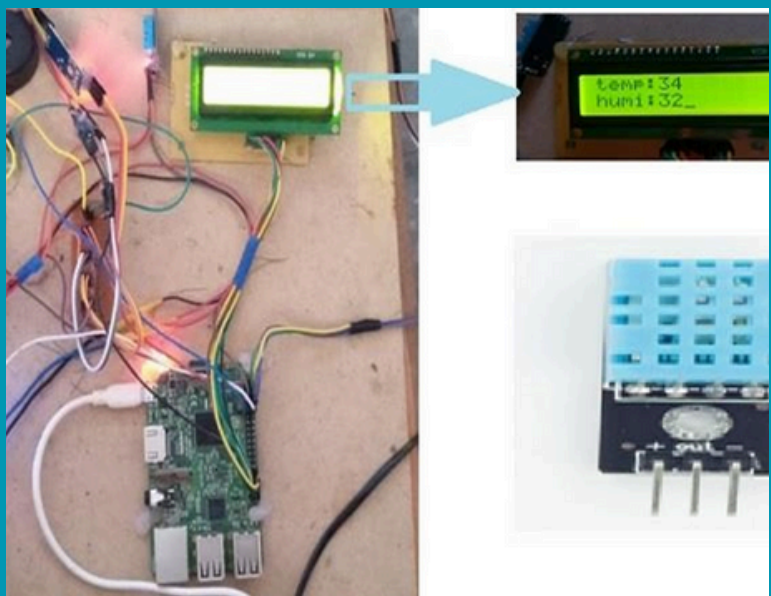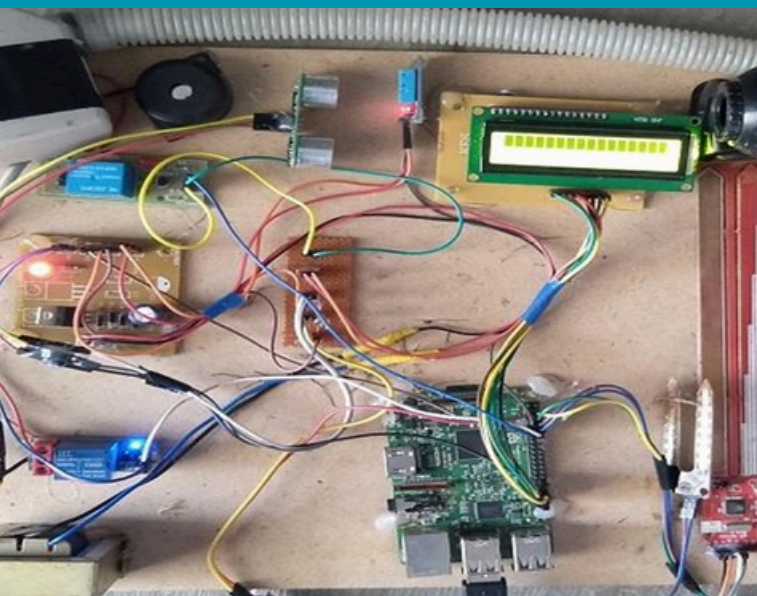# Innovative Projects Developed by Faculty Members

IoT-Based Driver Drowsiness Detection System for Accident Prevention:

This project proposes an IoT-based system to detect driver drowsiness and alert the driver before a mishap occurs. By monitoring facial activities and heart rate, the system accurately determines the driver's drowsiness level. If symptoms are detected, the system alerts the driver, reduces the vehicle's speed, and sends an alert message with the vehicle's location to a designated contact.

IoT-Based Maintenance and Monitoring of Agricultural Facilities:

This project uses IoT technologies to address challenges faced by Indian farmers, such as unpredictable weather and soil condition knowledge. Sensors monitor soil moisture, humidity, temperature, and pH levels, automating the irrigation system. The system also alerts farmers to animal movements via live footage, aiming to reduce agricultural losses and improve crop yield and quality.

Faculty Development Programs (FDP) Schedule for 2023

Research Methodology and Technical Paper Writing

On October 1, 2023, several faculty members attended a one-day FDP on "Research Methodology and Technical Paper Writing." The attendees were:

- Mr. M. Lokanadham
- Mr. K. Venkatapathi
- Mr. K. Kiran
- Mr. A. Naveen Kumar

This program will provide essential skills for conducting research and writing technical papers.

Battery Management Systems

From November 25 to November 29, 2023, a five-day FDP titled "Hybrid Electric Vehicles' Battery Management System – Research Challenges & Opportunities" was attended by:

- Dr. G. Sabarinath
- Mr. M. Lokanadham
- Mr. K. Venkatapathi

The program covered the latest research challenges and opportunities in battery management systems for hybrid electric vehicles.

Renewable Energy Systems

From February 5 to February 9, 2024, Mr. J. Nagaraju attended a five-day program on "Emerging Trends and Challenges in Renewable Energy Systems." This program explored current trends and addressed challenges in the field of renewable energy.

These programs have significantly contributed to enhancing the knowledge and skills of our faculty members, ensuring they remain at the forefront of their respective fields.

Highlights from Our Recent Seminars

We are pleased to share highlights from our recent seminars, which have provided invaluable learning opportunities for our students.

Seminar on Operation and Maintenance of Hydel Power Plant

- **Date:** 18/11/23
- **Topic:** One Day Seminar on Operation and Maintenance of Hydel Power Plant
- **Expert:** Mr. S. Naresh, Assistant Engineer, TBHE Scheme, Karnataka
- **Student Participation:** 38 students (22 + 16)

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Mr. S. Naresh shared his expertise on the operation and maintenance of hydel power plants, offering students practical insights and real-world applications in this critical area of power engineering. His extensive experience as an Assistant Engineer in the TBHE Scheme provided a solid foundation for understanding the complexities and challenges associated with maintaining hydropower facilities.

This seminar has significantly enhanced our students' understanding of the operational aspects of hydropower plants, preparing them for future roles in the energy sector. We look forward to organizing more such informative events in the future.

TRAINING AND PLACEMENT ACTIVITIES

S.No	Date	Name of the Training/Event	Name of the organization/Resource Person
1	30.06.2023	How to Build a Professional Resume	Mr. Merupula Mahesh
2	04.07-2023 to 09.07.2023	REVAMP- C & Data Structures	Mr. K. Satish Babu Mr. V Vishnu Vardhan
3	14.07.2023 to 20.07.2023	REVAMP- Python Programming & DBMS	Mr. K. Satish Babu Mr. V Vishnu Vardhan
4	25.07.2023 to 30.07.2023	Student Training Enrichment Program (STEP)- To meet Corporate Needs	Mr. Merupula Mahesh
5	01.08.2023 to 06.08.2023	TCS Company Specific Training	Seventh Sense Talent Solutions, Bangalore
6	13.08.2023	Trends of IT Hiring	Mr. Nagarjuna Malladi, Tech Mahindra
7	18.08.20223	How to Win GATE	ACE Academy, Hyderabad
8	30.08.2023 to 03.09.2023	Aptitude Training (Quantitative Ability)	Mr. M. Sambaraju Mr. A. Sukumar Ms. N. Alekhya
9	08.10.2023	From Student to Engineer: A Roadmap to Success	Mr. Ramachandra, Motivational Speaker
10	17.10.2023 to 22.10.2023	Technical Training on C & Data Structures	Mr. K. Satish Babu Mr. V Vishnu Vardhan

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DEPARTMENT

Presented By
Dr.K Sivakumar

Peace be amplified, world be rectified.