

M
OF
ELECTRICAL & ELECTRONICS
ENGINEERING
FULGUR

Volume 8 Issue 1
AUGUST 2024
JAN-JULY 2024

NPSBCET

Editorial Team:

Editor Director

Dr.R.Venkatasubramanian,
Professor&Head

Editor-in-Chief

Ananthi S. AP,EEE

Managing Editor

Senior Editor



D. SURESH
IV EEE



S. ARUN
IV EEE

Associate Editor

Assistant Editor



A.ARUN
III EEE



K. RAVICHANDRAN
III EEE

IN THIS ISSUE

- > **Vision & Mission**
- > **Faculty Achievements**
- > **FDP Attended**
- > **Students Achievements**
- > **Events Organized**
- > **Glimpse of Faisca 2K24**
- > **Alumini Meet**
- > **Graduation Day**
- > **Festival and Celebration**
- > **Cross Word**
- > **Tech Facts**

VISION OF THE INSTITUTE

To be a globally recognized academic institution and thereby contribute to technological and socio-economic development of the society.

MISSION OF THE INSTITUTE

1. To develop the needed resources and infrastructure, and to establish a conducive ambience for the teaching -learning process.
2. To engage committed members of faculty who will infuse subject knowledge with latest teaching pedagogies.
3. To Ignite the desire for higher learning, research and entrepreneurship and equip them to face the global challenges.
4. To engage the alumni professionals as productive partners with the current students to help to enrich and enhance their student life.

VISION OF THE DEPARTMENT

To produce globally competent Electrical and Electronics Engineers who can cater to the contemporary needs of the Industry and Society.

MISSION OF THE DEPARTMENT

- M1: To provide a good infrastructure and serene environment to cater the curriculum requirements of Electrical and Electronics Engineering.
- M2: To motivate the students and faculty towards research activities in association with industries.
- M3: To provide a conducive environment for students to enhance their co curricular, soft skills and ethical values for their career development.
- M4: To stimulate continuing education for creating quality engineers towards sustainable improvement in the society.

PROGRAM EDUCATIONAL OBJECTIVES

- PEO 1: Procure optimum solution for Electrical Engineering problems in order to cater a successful professional career.
- PEO 2: Demonstrate creativity in the engineering practices including entrepreneurial and collaborative ventures with strategic thinking, planning and execution for lifelong learning.
- PEO 3: Exhibit to communicate effectively, recognize and incorporate societal needs and constraints in their professional endeavours and practice the profession with high regard to legal and ethical responsibilities.

PROGRAM SPECIFIC OUTCOMES:

- PSO 1: Shall have Potential to analyze, design, synthesize and provide technical solutions in the field of Power generation, distribution, renewable energy systems and Embedded Systems.
- PSO2: Shall exhibit leadership skills, pursue entrepreneurship and contribute in the field of Electrical and Electronics Engineering.

Faculty Achievements

Paper Publications:

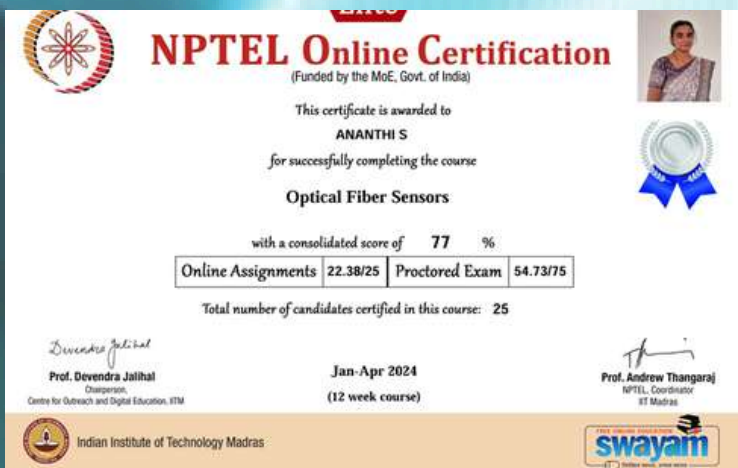
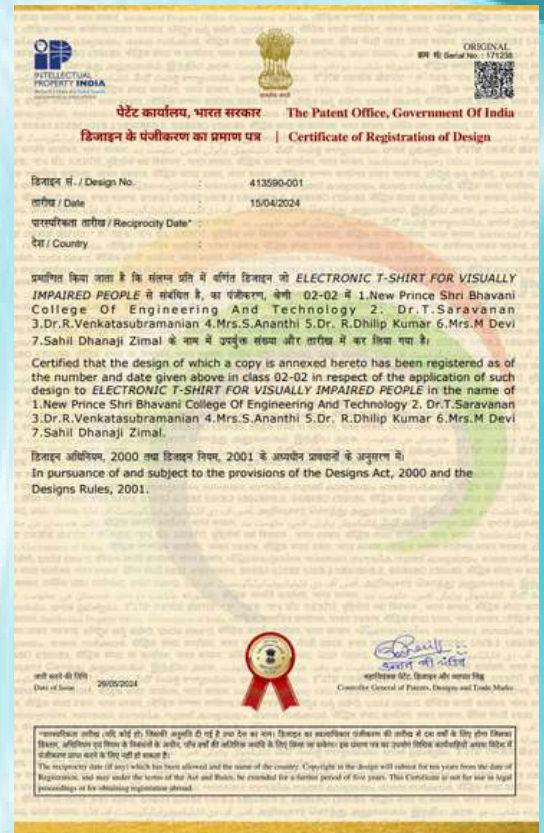
R Venkatasubramanian published a paper titled "Integrating Hydrogen Energy Storage into Urban Mobility Solutions " in E3S Web of Conferences, June 2024.

M.Devi Published a paper titled “ Optimizing Energy Efficiency in Electric Vehicles through Fuzzy Logic and Neural Network Algorithms” in 2024 International Conference on Distributed Computing and Optimization Techniques (ICDCOT), 2024, IEEE.

R.Venkatasubramanian published a paper titled "Smart Safety Helmet for Coal Miners " in 2024 10th International Conference on Communication and Signal Processing (ICCSP)", IEEE Explore" 12-14 ,April 2024.

The Project carried out by Dr.R.Venkatasubramanian, Ms.S.Ananthi , Ms.M.Devi and Final year student Mr. Sahil Dhanaji Zimal was applied for patent and the design titled "ELECTRONIC T-SHIRT FOR VISUALLY IMPAIRED PEOPLE" have been approved by, Patent Office, Government of India on 15.04.24

The department got approval from AICTE under “ATAL Faculty Development Programme 2023-24” for organizing 5 days FDP on “SEMICONDUCTOR TECHNOLOGIES FOR 5G/6G WIRELESS COMMUNICATION from 18/11/2024 to 22/11/2024



Ms.Ananthi S , AP/EEE have completed the 12 weeks NPTEL course on "Optical Fiber Sensors " with 77% aggregate and received Elite Certificate

FDP ATTENDED

Dr.C.F.Theresa Cenate, Mrs.R.Revathi & Mrs.B.Tamizhkani have attended 5 days FDP on “Electrical and Electronic Systems For Wind and Solar” from 8.1.24 - 12.1.24. Organized by NITTTR, Chennai.

Three faculty members from our department have attended 5 days FDP on “Research-The journey from Inception to publishing” from 5.2.2024 - 9-2-2024 Organized by Dhanraj Baid Jain college, Chennai.



Around 5 faculty members from our department have attended Two Week FDP on “Advancement in Quantum Computing and Sensor Technology for Viksit Bharat@2047 from 15.4.24 - 27.4.24 Organized by OXFORD College of Engineering. Bengaluru

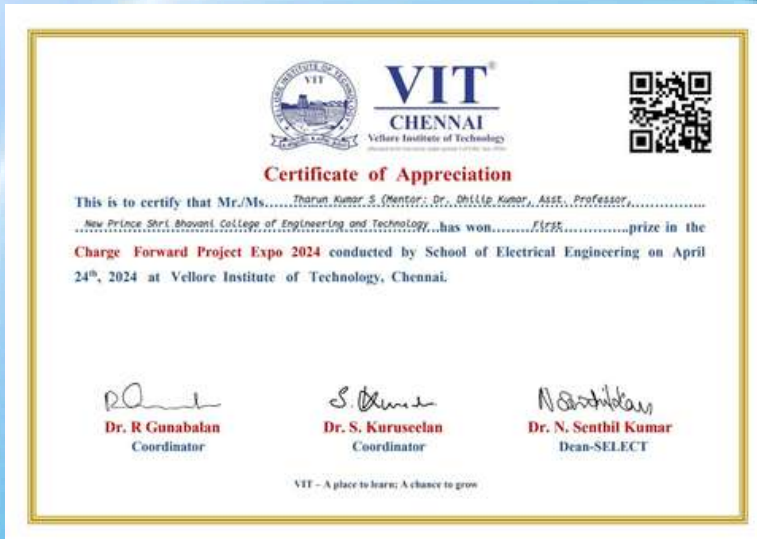


Dr.S.Senthilkumar & Mrs.B.Thamizhkani have attended 6 days FDP on “Pathways to Discovery and Innovation: Nurturing Researchers for Tomorrow (PDINR-2024)” from 25.4.2024 - 30.4.2024. Organized by Centre for Research Development and Promotion [PARISHODHANA] of Pithapur Rajah's Government College(A) Kakinada.

Five, Department faculty members have attended 5 days FDP on “Application of Power Electronics in Renewable Energy System” from 13.5.2024 - 17.5.2024. Organized by Dr.M.R Educational and Research Institute.

Students Achievements

Lakshmi Narayanan M & Tharun Kumar S - won First Prize and receive Rs.3000 cash award at Vellore institute of Technology, Chennai. This program is conducted by School of Electrical Engineering on April 24, 2024 at VIT



Sahil Dhanaji Zimal has presented a paper titled “ Street Light Automation and Fault Detection” in the International Conference on computer, communication and informatics(ICCCI'24) on 25.4.2024.



Students Achievements



Priyanka V ,Sai Balaji D, Lakshmi Narayanan M, Akash Jeba Kumar A , Madhan Kumar K participated in the Innovation Challenge - 2024 on February 27th, 2024 at Aarupadai Veedu Institute of technology with their innovative ideas and the college receives Best Participation award in this event.



Lakshmi Narayanan M & Priyanka V participated in Paper Presentation & Mind Maze events Conducted in two days Technical symposium organized by Department of ECE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai during 28.2 2024 - 29.2.2024.

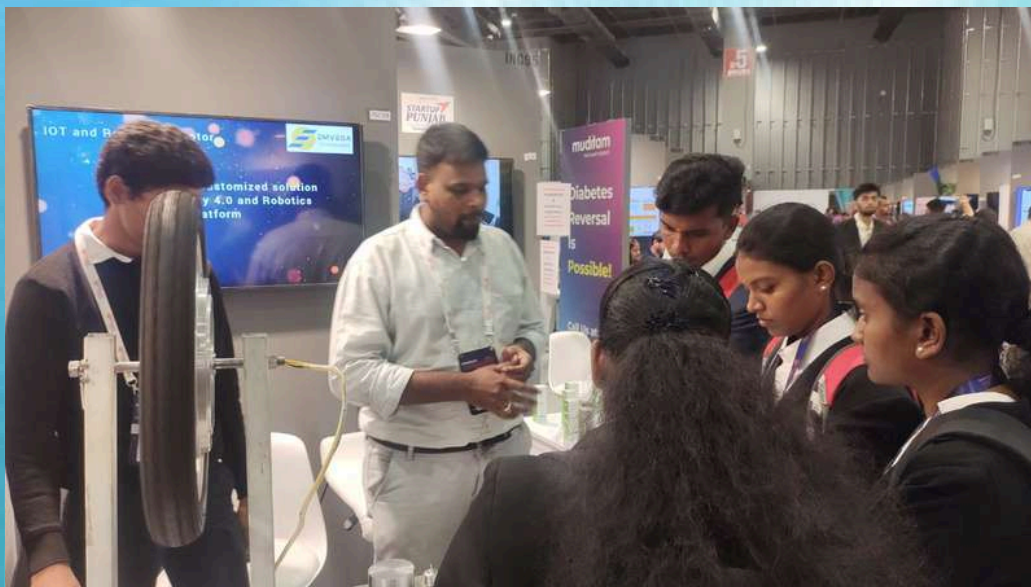


Students Achievements



Lakshmi Narayanan M, Suha Kauser S A, Priyanka.V, are participated in the Business Model Canvas and pitching Workshop of the RUSA 2.0 Startup Cafe, Startify 2.0 Ecosystem Conclave conducted by the Centre for Entrepreneurship and Development Cell, (CED), Anna University on 26.04.2024.

Business Plan Competition was conducted on 8.3.2024, Scrutiny team selected the best 9 Business Plans from our institution to participate in “Startup Mahakumbh Yatra” at Mahakumbh, Bharat Mandapam, Pragati Maidan, New Delhi on 19.03.24 and 20.03.24



Two Business plans titled "Ultrasonic Sensory Assistance for visually impaired People by Mr.Sahil Dhanji Zimal, IV Year and “Security System for Neonatal units” by Ms.PRIYANKA V, III Year & Mr.Lakshmi Narayanan.M III Year were two of the short listed teams from the department of EEE.

Students Achievements



S. Tharun kumar , D. Suresh has presented their paper in QUASAR24 , A National Level Technical Symposium organized by Arunai Engineering College, Thiruvannamalai. They have secured second prize in the Quiz Competition held on the same event. D.Sai Balaji and Madhan Kumar K also participated in the paper presentation and Technical Quiz competition.

Events Organized

International Conference:



Seminar:



Department of EEE organized a seminar on “Innovative Design of Power electronics Converters for E- Vehicles”. Dr.T.V.Narmadha, Professor/EEE from St. Joseph College of Engineering, Chennai gave valuable insight into the topic .

From basics of convertor to the designs used in day to day applications (like EV) Were widely explained.

Students were highly benefitted from this event.

Industrial Training

All the final year EEE students attended the TVS Training program on “Electric Vehicle(EV) Architecture and automobile from 05th of Aug to 09th of Aug. The training was more knowledgeable with hands-on session and smart class facilities. They gained knowledge on the the emerging technologies developed and implemented in EV applications.

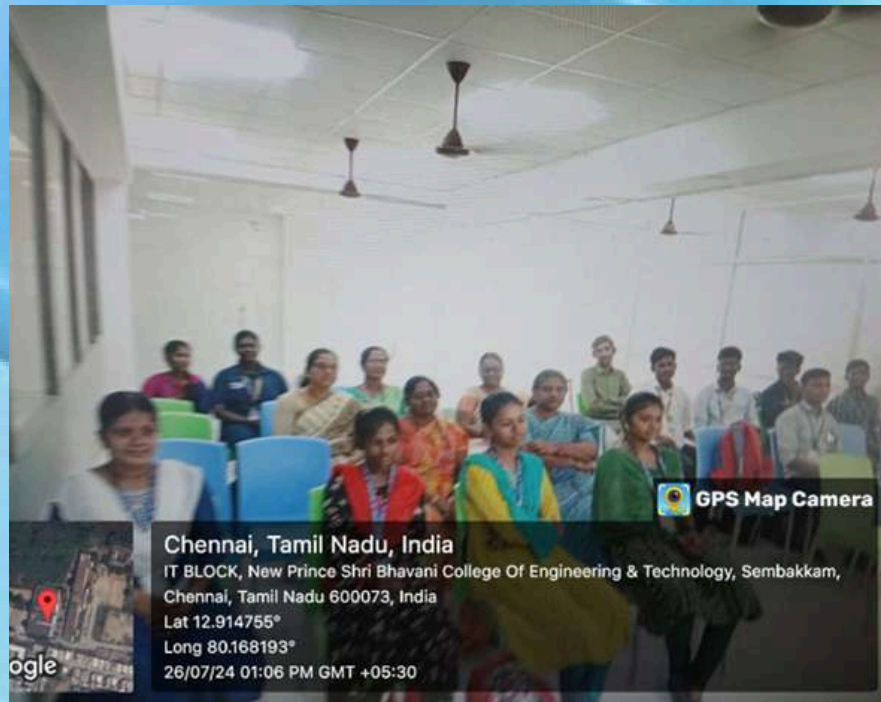


All the 2nd year Students have attended the Industrial training at Mini reactor (KAMINI) IGCAR, Kalpakkam on 3rd August 2024 . They gained knowledge on operations and maintenance process of nuclear power plant visually.



Guest lecture:

Guest lecture was conducted by Dr.A.Ganesan, professor, EEE department, RRASE college of Engineering on the topic 3D image technique and applications. Event was good and they were interested to actively participate in such contest. Programme Coordinator Ms.R.Revathi delivered the vote of Thanks at the Valedictory function. The Participants were encouraged with Appreciation Certificate and Participation Certificate. Outcome: Participants were encouraged towards developing their innovation ideas and to build start ups



Glimpse of Faisca 2K24- Technical Symposium

Start Up Challenge:



Start up challenge was organized as a part of Faisca'24 - National Level Technical Symposium on 05.04.24. 25 ideas were submitted for the challenge from 15 Engineering colleges across the country. Out of that 15 ideas were shortlisted for the challenge competition. Dr.Saravanan was the Jury member for the event and the prize winners are appreciated with cash awards.

Paper Presentation:

Paper Presentation was held on 05.04.24, Around 50 papers were presented by students from various institutions during the event. Dr.A.Kavitha, Professor, Department of EEE, College of Engineering, Guindy, Anna University was the Chair Person of the event. Balaji Arumugam from Sairam Engineering College, Chennai won the first prize and received cash award worth of 1000rs



Technical Quiz:



Technical Quiz has been conducted on the same day. Around 60 Participants were actively participated in the event. The first round of the Quiz program was testing the technical knowledge of the participants through multiple choice questions from basic engineering subjects. 15 teams were participated in the second round "Technical connections". Circuit debugging was the final round and the students from Sri Venkateshwara College of Engineering and Sri Sairam College of Engineering are the prize winners of the event.

ALUMINI MEET



Alumni Meet: was organized on 31-03-2024 in college premises. Around 25 Alumni from 2008 - 2012 batch to 2019 - 2023 batch participates and shared their memories and views regarding Department and Institutional growth. They showed their interest in participating in career guidance programs for students. Later they enjoyed with the games organized by the team.

Graduation Day:

The 12th Graduation Ceremony was held on 31.03.24 in college premises. Twelve graduates from 2018- 2022 batch received their degree on that day. The graduates interacted with the department faculty members and shared their memories and they have given some valuable suggestions during interaction.



V A I B

Farewell



In a heartfelt tribute, the 2nd and 3rd year students organized a farewell celebration for the final year students of New Prince Shri Bhavani Collage Of Engineering Department of Electrical and Electronics on 6.04.2024. A variety of entertaining events dedicated to celebrating the seniors as they prepare to begin their next adventures. Whether it's for a graduate, a retiree, or a friend moving away, these gatherings are all about gratitude and joy as everyone looks ahead to new beginnings.



Students recounted their personal journeys, celebrating both challenges and triumphs, while faculty members offered inspiring words of wisdom. A slideshow of memorable photos evoked nostalgia and laughter, reinforcing the bonds created over the years. The graduating class left with a sense of gratitude for the shared experiences that would forever hold a special place in their hearts.

Youth Pulse:



**Ms.V. PRIYANKA , III EEE
PRESIDENT / YOUTH PULSE
'24**



Ms.Thangalakshmi R of III year EEE has received trophy for securing first prize in Special Talent - "Silambattam " from the guest of the day Vijay TV celebrity KPY Bala on 06.04.2024. during Youth Pulse - Extravanganza festive Week 2024.



**MR. M. LAKSHMI NARAYANAN
III YEAR EEE,
EVENT COORDINATOR
YOUTH PULSE'24**

Women's Day:

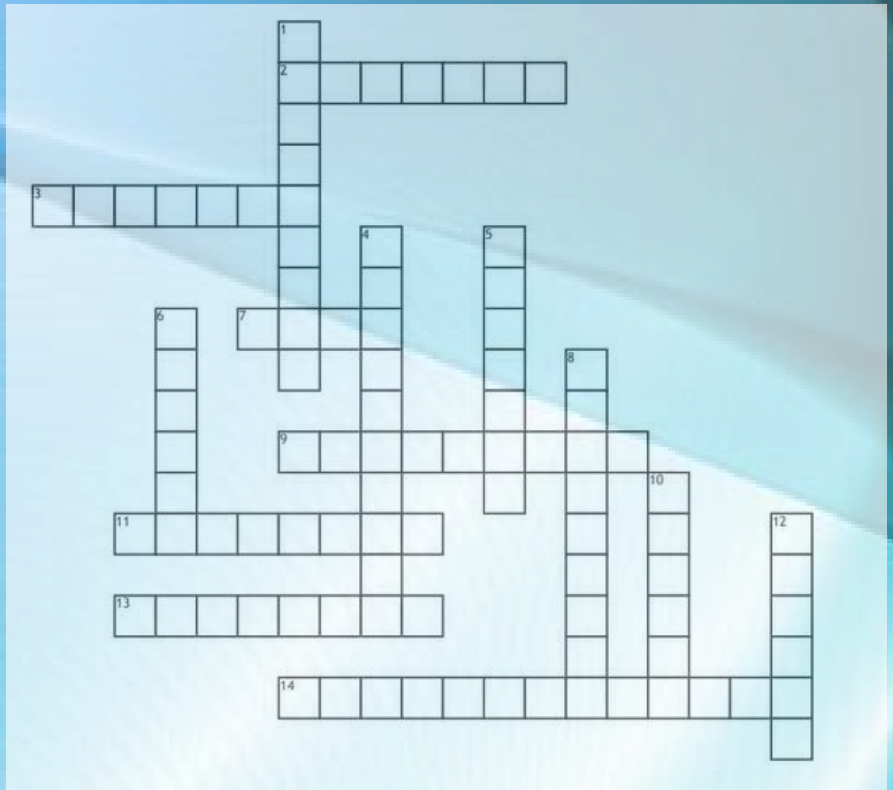


Women's day Celebration was held on 08.03.24. The stalls has been arranged on that day in which the girl students are motivated to participate and to develop their entrepreneurial skills. The fun games were arranged for the female faculty members and the girls were actively participated in the cultural events.

Cross word

ACROSS:

- 2. units of an electrical current
- 3. measurement of energy gained by a unit of charge in a circuit
- 7. the joining of 2 or more circuit elements in an electrical circuit
- 9. subdivision of electrical engineering to describe readers for DVD discs
- 11. term used to describe the speed of electrons
- 13. term used to describe the speed of electrons
- 14. an example of a communication system in electrical engineering



Down:

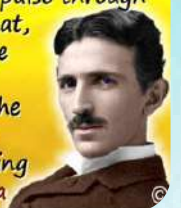
- 1. device used to produce microwave energy in an oven .
- 4. a control circuit to regulate temperature
- 5. the time rate of flow of electrical charge
- 6. type of waveform of an alternating current
- 8. an electronic circuit that senses heart beats
- 10. the control mechanism for currents in a circuit
- 12. an excellent electrical conductor used in electrical wiring

Answer of crossword published in January 2024



**F
a
c
t
?**

Ere long intelligence—transmitted without wires—will throb through the earth like a pulse through a living organism. The wonder is that, with the present state of knowledge and the experiences gained, no attempt is being made to disturb the electrostatic or magnetic condition of the earth, and transmit, if nothing else, intelligence. *Nikola Tesla*



TECH FACTS



The world's biggest light bulb is located in Edison, New Jersey. It's 14 feet tall, weighs eight tons, and sits on top of the Thomas Edison Memorial Tower.

Electricity is present in our bodies – our nerve cells use it to pass signals to our muscle



Before electricity was a way of life, ancient Egyptians were aware that lightning and shocks from electric fish were very powerful. They used to refer to these fish as the "Thunder of the Nile."

When lightning strikes, it flows from the cloud to the ground, but the part we see is actually the charge going from the ground back up into the cloud.

