DEPARTMENT
of
ELECTRICAL AND ELECTRONICS ENGINEERING
Kakatiya Institute of Technology & Science :: Warangal
(An Autonomous Institute under Kakatiya University, Warangal)

Volume XI, Issue II | **Jan'25 – June'25** | **Released on: July 23rd2025**

CHIEF EDITORIAL MESSAGE

With great pleasure and honour I write this foreword. Indeed, this newsletter has a lot to look forward. I am happy that our department started in the year 1994 withB.Tech-EEE programme has completed 31 years and is now celebrating Silver Jubilee year. During these 31 years EEE department has crossed several milestones and contributed to society in the form of education to engineering students. Started with B.Tech-EEE in 1994 with an intake of 60 later enhanced to an intake of 120 in the year 2012 and the present intake is 60. PG programme of M.Tech-Power Electronics was started in the year 2013. B.Tech-EEE program has been accredited by NBA two times under Tier-II from 2011-14 and 2016-19. I am glad to inform that now B.Tech-EEE program has been accredited by NBA under Tier-I for three years from 1st July 2019. The Department has also witnessed the strong force of faculty. At present, the Department has a faculty strength of 29 with diversity of specialization, out of which 16 of them have Doctorates, 7 are pursuing PhD and 6 are with M.Tech. Alumni are the main pillarsof the department's growth. I would like to offer my sincere thanks to all the Alumni for their support in guiding the students through invited lectures, supporting for internships and industry visits. Suggestions from stakeholders have added value during the reforms taken time to time. This newsletter displays the contributions by faculty & students and activities conducted in the Department during Jan 2025 to June 2025 (Even semester of AY 2024-25).I am happy to share that this semester department has witnessed three of the faculty have been awarded with PhD.The experience of the faculty made it possible to conduct national and international FDPs with great support from industry experts and academic intellectuals from foreign Universities, IITs and NITs. I am also proud to inform that our students have made the EEEA activities more vibrant with hands-on sessions and training programmes. I would like to offer a word of thanks to our readers, our contributors, and our editorial board for their support of the journal and its mission: to improve the quality of technical education to the students. This newsletter will provide a glimpse of faculty and student achievements in the Evensemester of academic year 2024-25.

-Dr. G. Rajendar
HOD, EEED

VISION & MISSION OF THE DEPARTMENT

VISION: To fulfil the needs ofthe industry & society through excellence in education & research in electrical engineering.

MISSION:

- To produce globally competent engineers in Electrical & Electronics Engineering.
- To promote scientific inclination and cultivate professional ethics.
- To serve organization and society as adaptable engineers, entrepreneurs or leaders.

BTECH – ELECTRICAL & ELECTRONICS ENGINEERING

Program Educational Objectives (PEOs):

Within first few years after graduation, the ELECTRICAL AND ELECTRONICS ENGINEERING graduates will be able to:

PEO1	**Technical Expertise:** Apply the knowledge of electrical and electronics engineering to develop solutions for complex problems of electrical power industry and allied engineering areas.
PEO2	**Successful Career:** Demonstrate innovation & creativity in their professional practice, work effectively as an individual and in a team in multidisciplinary areas towards sustainable development.
PEO3	**Lifelong learning:** Adapt to a constantly changing field through higher education, professional development and self-study for contributing to well-being of society.

Program Outcomes (POs):

Engineering Graduates will be able to:

PO1	Engineering knowledge	Apply knowledge of mathematics, natural science, computing,engineering fundamentals and an engineering specialization 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 analyze 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 & interpretation of data to provide valid conclusions. (WK8).
PO5	Engineering Tool Usage	Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
PO6	The Engineer and The World	Analyze 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 & 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	Recognize 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.

Program Specific Outcomes (PSOs):

PSO1	Apply the fundamental knowledge of electrical and electronics engineering in providing solutions for modern power industry and multi-disciplinary areas.
PSO2	Analyse, design and simulate systems to generate, transmit, distribute, utilize and control electrical energy to meet societal and environmental needs using electrical and electronic systems.

MTECH-POWER ELECTRONICS

Program Educational Objectives (PEOs):

The Postgraduates of POWER ELECTRONICS will be able to:

PEO1	Engage in research, innovation and teaching in the fields related to power electronics & Drives.
PEO2	excel in professional practices relevant to industry and engage in enterpreneurship with latest technologies in the areas pf power converters, renewable energy, smart electric grid, industrial drives and electric vehicles.
PEO3	exhibit professional ethics, effective communication skills and spirit of teamwork by carrying out research for a sustainable development.

Program Outcomes (POs):

At the time of graduation, the postgraduates of POWER ELECTRONICS will be able to:

PO1	Independently carry out research/ investigation and development work to solve practical problems.
PO2	Write and present effective technical report/document.
PO3	Demonstrate competence in the area of Power Electronics.

Program Specific Outcomes (PSOs):

PSO1	Apply knowledge of power electronics for the development of effective innovation solutions to problems pertaining to the renewable energy sources, smart electric grids and electric vehicles.
PSO2	Analyse complex engineering problems related to power electronics industry related to power industry and develop solutions with the latest hardware and software tools.

FACULTY CONTRIBUTIONS

Details of the faculty deputed for higher studies during 2024-25:

Sl.No	Name of the Faculty	Details of Higher Studies	Institute/University
1.	Dr. A. Madhukar Rao	Post Doctoral Fellowship	University of Minnesota, USA

Details of NPTEL courses completion by the faculty during AY 2024-25:

Sl. No	Name of the Faculty	Name of the Course
1	Mr. T. Praveen Kumar	Advanced Linear Continuous Control Systems: Applications withMATLAB Programming and Simulink

List of Journals published by the Facultyduring AY 2024-25:

Sl.No.	Name of the Faculty	Title of the Paper	Name of the Journal with Details
1	Rakesh Chandra Dongari	Short-Term Load Forecasting in Distribution Substation Using Autoencoder and Radial Basis Function Neural Networks: A Case Study in India	Journal of Computation, MDPI, pp. 1–18, vol. 15, no. 75, March 2025
2	Dr.B.Jagadish Kumar	Zeta Converter-Based Switched Mode Power Supply with Enhanced Power Quality	The International journal of analytical and experimental modal analysis, pp. 398–402, vol. 17, no. 05, May 2025

List of Conference Papers published by the Faculty during A.Y. 2024-25:

Sl.No.	Name of the Faculty	Title of the Paper	Name of the Conference with Details
1	Santhosh Madasthu and Srinivas Kottakonda	Statistical Machine Learning-Based Electricity Demand Forecasting	Smart Grid Security and Protection, pp. pp 207–221, 03 May 2025

EEE ASSOCIATION DETAILS

PRESIDENT

G. Nikhil Reddy(IV/IV, B.Tech)

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T. Laxmi Nayana(IV/IV, B.Tech)

JOINT SECRETARIES

P. Loosi(III/IV, B.Tech)

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G. Sai Prasunna(III/IV, B.Tech)

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Sd Dastagir Ahmed(IV/IV, B.Tech)

REPORTER

Md. Saif(III/IV, B.Tech)

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G. Ugendar(IV/IV, B.Tech)

T. Nelson(III/IV, B.Tech)

Md. Absaar Yameen(III/IV, B.Tech)

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M. Sai Charan(III/IV, B.Tech)

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B. Sri Vasya(II/IV, B.Tech)

B. Bhargavi(II/IV, B.Tech)

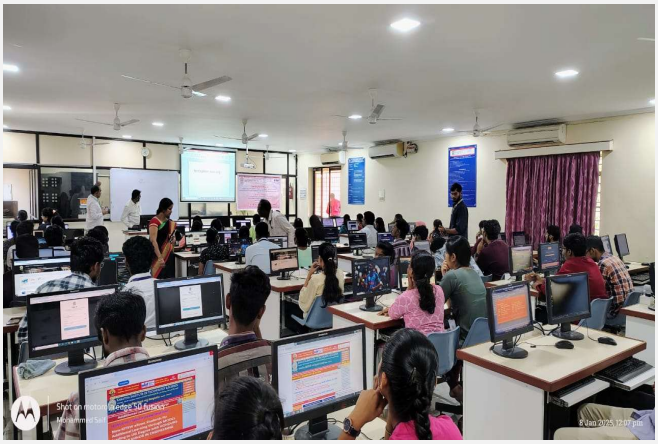
K. Sahaswi(II/IV, B.Tech)

S. Tejasri(II/IV, B.Tech)

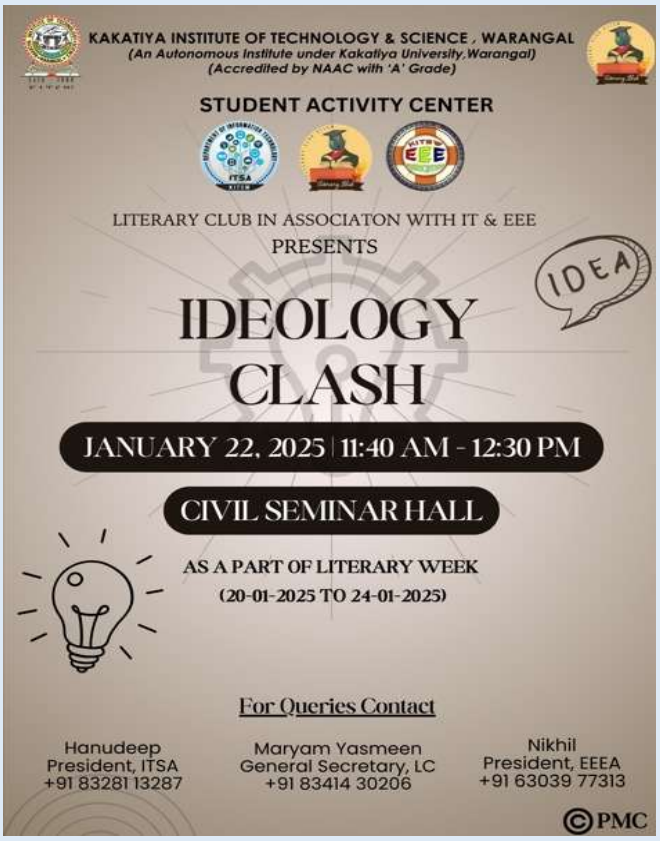
STUDENT ACTIVITIES

S. no.	Activity	Date
1	Workshop on seamless Research with IEEE Xplore" by Srinivasa, as part of library week	08.01.2025
2	IDEOLOGY CLASH Event	22.01.2025
3	Session on "Study abroad" by Santosh gupta from Tcollagedayz company	12.02.2025
4	"Internship Awareness" by Dr. G. Sunil Kumar, Assistant Professor, EEED, KITS Warangal	05.03.2025
5	Session on "Overseas Study Abroad" by Nandhini Garu from Matrix Consultancy	26.03.2025

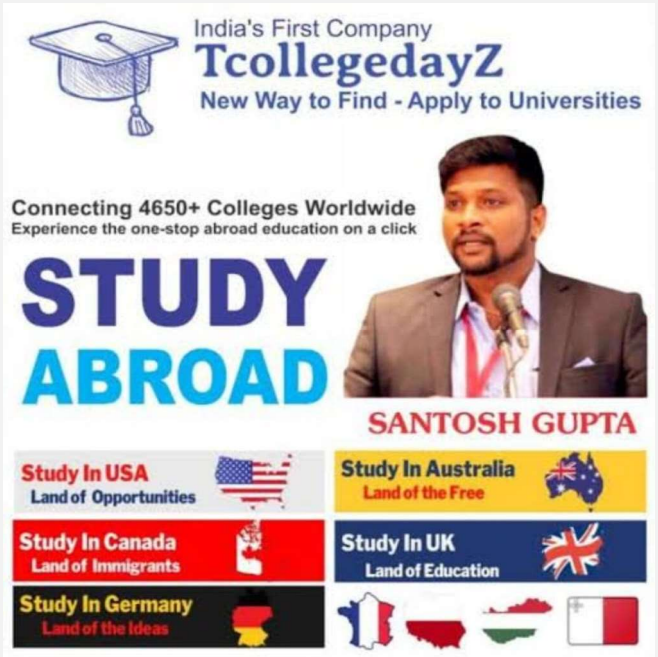
Workshop on seamless Research with IEEE Xplore" by Srinivasa, as part of library weekon 08.01.2025:



IDEOLOGY CLASH Event on 22.01.2025:



Session on "Study abroad" by Santosh gupta from Tcollagedayz company on 12.02.2025:



"Internship Awareness" by Dr. G. Sunil Kumar, Assistant Professor, EEED, KITS Warangal on 05.03.2025:

Session on "Overseas Study Abroad" by Nandhini Garu from Matrix Consultancy on 26.03.2025:

A National Level Technical Symposium (SUMSHODHINI'24 - 18th & 19th October 2024) during AY: 2024-2025 for the students:

Sumshodhini'24, A National Level Technical Symposium revival is back with booming events from the department of ***Electrical and Electronics Engineering (EEE)*** in association with ***ISTE student chapter &Technical Club*** is conducting a one-day hands-on practical Workshop on "**ARDUINO APPLICATIONS FOR ENGINEERING**" and other technical events which is going to be held on 18th - 19th October, 2024.

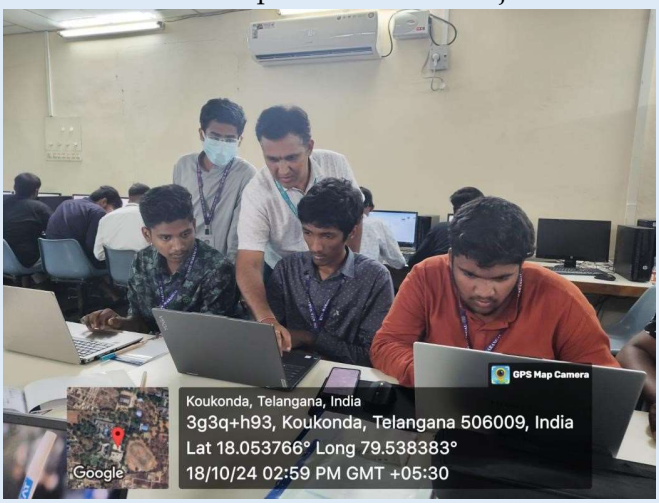
The events which are conducted during these two days are as follows:

Sl. No.	Event Name
1.	Workshop on "ARDUINO APPLICATIONS FOR ENGINEERING"
2.	Workshop on "PYTHON FOR EVERYONE"
3.	Paper presentations
4.	Poster presentations
5.	Spark Zone
6.	Fun House
7.	Tech Fusion 2.0

Workshop on "ARDUINO APPLICATIONS FOR ENGINEERING":

The Arduino is an open-source electronics platform based on easy-to-use hardware and software. It is widely used in engineering for prototyping, education, and developing innovative projects. The Arduino platform consists of a microcontroller, a development environment, and a variety of shields and sensors, making it an accessible tool for engineers and hobbyists alike.

The Workshop resource person was Sri. K. Ajith and Sri. M. Srinivas faculty from EEE department and also coordinators of Sumshodhini'23. The theme of the Workshop is to implement the participants on the knowledge about Arduino applications for engineering. The Morning session was handled by Sri. M. Srinivas, which dealt with the Software design and the afternoon session is handled by Sri. K. Ajith which dealt with the practical session of Arduino and also implementation of Projects.



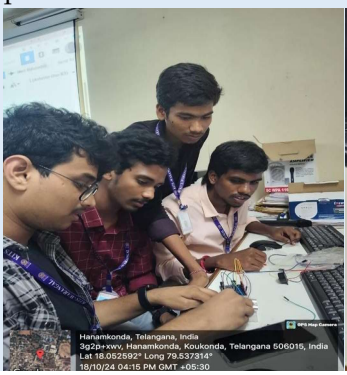
Hardware Session:

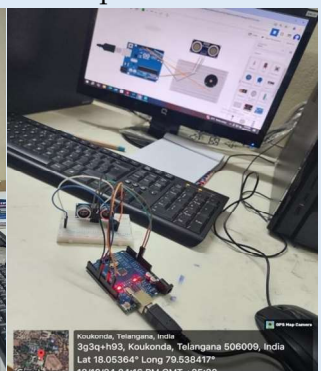
Led by Sri. K. Ajith and Sri. M. Srinivas faculty of EEE department. This session is delivered in practical aspects, offering participants a chance to apply their knowledge in a hands-on environment. In this session, participants are divided into a group of 4 students, where each group obtained the components of 3 Projects, such that every student in that group can perform one project.

The Projects covered in this session are:

- Traffic light control
- Street light control
- Obstacle detection

The speakers of the session first explained the circuit diagram and components to be used. After the explanation, they made the participants to perform the connections and helped them in it.





Feedback by the participants during the valedictory

PARTICIPANTS LIST:

Sl.No	Roll Number	Name of the Student	Name of theCollege with address
1.	B24EE034	V. Paramesh	ITSW
2.	B24CS082	Anusree	KITSW
3.	B24EE020	V. Tejaswini	KITSW
4.	B24CS116	V.Chaithanya	KITSW
5.	B24CS113	Chepuri Merrlien	KITSW
6.	B24EE024	Md. Kaleemuddin	KITSW
7.	B24EE009	J. Prasanna Laxmi	KITSW
8.	B24EE017	B. Yashaswitha	KITSW
9.	B24EE071L	A. Shravani	KITSW
10.	B24IN035	R. Srishanth	KITSW
11.	B24EE004	Daneya Khanam	KITSW
12.	B24EE051	Puramdas Naik	KITSW
13.	B24EE057	Chirra Dinesh	KITSW
14.	B24EE028	Vishnu	KITSW
15.	B24EE038	P. Samuel Abishai	KITSW
16.	B24EE007	Chirra Harshitha	KITSW
17.	B24IN056	G. Vamshi Krishna	KITSW
18.	B24EE030	K. Nirup Kumar	KITSW
19.	B24EE019	Y. Chandra Kumar	KITSW
20.	B24EE029	M. Manoj Kumar	KITSW
21.	B24EE039	Charan Teja	KITSW
22.	B24EE016	A.Akash	KITSW
23.	B24EE012	M Vardahn	KITSW
24.	B24EE014	Teegala Anusha	KITSW
25.	B24EE015	Arsham Shahini	KITSW
26.	B24EE044	P. Sathwik B V S	KITSW
27.	B24EE011	S. Abhinavi	KITSW

28.	B24EE021	P. Bhanu Prakash	KITSW
29.	B24EE043	Chavan Srinivas	KITSW
30.	B24EE006	P. Nithya	KITSW
31.	B23EE048	B. Nishchita	KITSW
32.	B24EE054	J. Nakshatra	KITSW
33.	B24EE027	D. Alekhya	KITSW
34.	B24EE058	G. Bhargavi	KITSW
35.	B23EE006	Syed Saif	KITSW
36.	B24EE013	Akhil	KITSW
37.	B24EE040	Thirmal Chand	KITSW

Workshop on "PYTHON FOR EVERYONE":

The workshop on **Python for Everyone** offers a comprehensive overview of Python programming, designed to equip participants with fundamental and practical skills. **Dr. M. Santhosh, Asst. Professor, Dept. of EEE** is the esteemed resource person for this event, bringing his extensive knowledge and engaging teaching methods to the table.

In the morning session, Dr. M. Santhosh dives into the essentials of Python programming. Participants will explore topics such as:

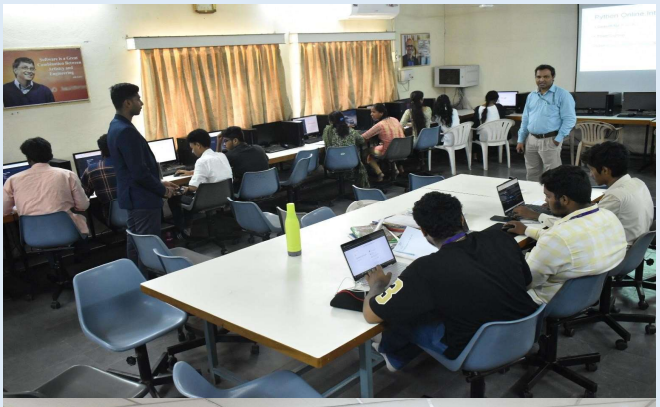
- **Python Syntax**: Understanding the structure and rules of writing Python code.
- **Data Types**: Learning about the different types of data in Python, including strings, integers, lists, and dictionaries.
- **Control Structures**: Mastering conditional statements, loops, and other control structures to write more efficient and effective code.

Throughout the session, **Dr. M. Santhosh** provides real-world examples and interactive coding exercises, ensuring participants can apply the concepts learned in practical scenarios. This hands-on approach will help participants solidify their understanding of Python and prepare them for more advanced topics.

Theoretical and Software Session: Conducted by [illegible] insightful concepts and hands-on experience using Python programming tools.

The following points were covered during the session:

- **History of Python**
- **Types of Python Applications** including Web Development, Data Analysis, and Automation
- **Common Coding Styles and Practices**
- **Core Python Components** such as Variables, Data Types, and Control Structures
- **Module and Package Management**
- **Steps for Writing and Running Python Programs**
- **Python Libraries and Tools** such as NumPy, pandas, and Flask
- **Applications of Python** in various industries including healthcare, finance, and Telecommunications

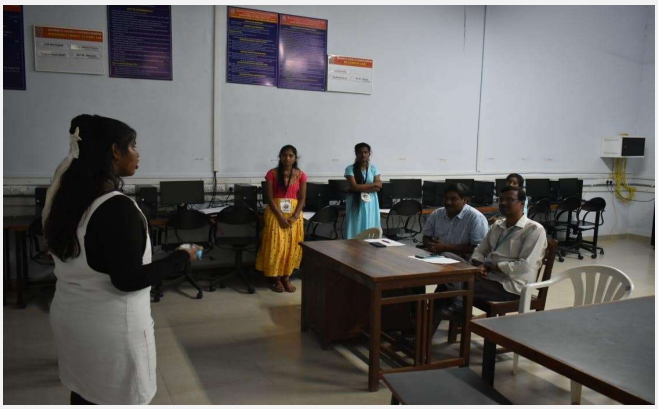


PAPER & POSTER PRESENTATION:

The Poster Presentation event is a platform for participants to express their ideas creatively throughPowerPoint presentations, posters, or

other artistic means. It encourages technical creativity by allowingparticipants to succinctly summarize their concepts in poster form. This event evaluates participants basedonthecreativitytheyemploy tocommunicate theirideaseffectively.

ThePosterPresentaonevent,asignificantcomponentofSumshodini'24organizedbytheDepartmentofElectricalandElectronicsEngineering(EEE), stoodoutasasuccessfulandengagingplatformfor participantsto showcasetheir creativityandinnovative ideas.



STUDENT ACHIEVEMENTS

Details of the Journal Paper Publications of the Students Published during July'2024– December'2024:

S. no.	Name of the Students (s)	Title	Journal
1	P. Sai Vaibhav Likith Chandra, D. Nipun Nishnath, M. Preetham and K. Sai Vishwas	Certain Investigations on Modified Fuzzy-based Adaptive Controller for Mitigating the Deviations in Wind System	Grenze International Journal of Engineering and Technology

Students' placement details:

SNo	Roll No.	Name of the student	Selected Company
1	B21EE002	Votarikari	Delpht Tvs
2	B21EE005	Palnati Pranavi	Ibasis
3	B21EE007	Akoju Srija	Ge Vernova (Power)
4	B21EE009	Bandi Goutham (T&P Unregistred)	Teleperformance Global Pvt Ltd
5	B21EE012	Thotakuri Ruthvik Goud	Keto Motors Private Limited
6	B21EE019	Thungapindi Vamshikrishna	Emmvee
7	B21EE021	Gaddam Nikhil Reddy	Delphi Tvs Technologies
8	B21EE022	Shetti Kavya Sri (T&P Unregistered)	Keto Motors Private Limited
9	B21EE027	Vaitla Siddartha	Yathva Energy Solutions Pvt. Ltd.
10	B21EE029	Kokkisa Vivek Vardhan	Delphi Tvs Technologies
11	B21EE031	Thummala Laxmi Nayana	Yathva Energy Solutions Pvt. Ltd.
12	B21EE034	Sangi Shivamani	Delphi Tvs Technologies
13	B21EE054	Bashaboina Sai Manohar (T&P Un Registered)	Delphi Tvs Technologies
14	B21EE069	Sunkoju Srinath	Delphi Tvs Technologies
15	B21EE072	Perala Krupa Pranay Teja	Delphi Tvs Technologies
16	B21EE074	Akinapally Varshitha	Delphi Tvs Technologies
17	B21EE075	Bandu Harshitha	Delphi Tvs Technologies
18	B21EE077	Sheelam Rajasimha	Delphi Tvs Technologies
19	B21EE079	Shanigaram Krishna Chaitanya	Delphi Tvs Technologies
20	B21EE081	Kommuka Shiva Ram	Delphi Tvs Technologies
21	B21EE083	Bhattu Sumanth	Delphi Tvs Technologies
22	B21EE084	Sadiram Krishnaveni	Emmvee
23	B21EE085	Budidi Pradeep	Delphi Tvs Technologies
24	B21EE088	Pitta Sowmya	Delphi Tvs Technologies
25	B21EE091	Bhanu Teja Vaskula (T&P Un Registered)	Delphi Tvs Technologies

26	B21EE092	Kotha Vagdevi	Delphi Tvs Technologies
27	B21EE093	Sangineni Rajkumar	Delphi Tvs Technologies
28	B21EE094	Mohammad Sufiyaan	Delphi Tvs Technologies
29	B21EE097	Boda Raju	Delphi Tvs Technologies
30	B21EE098	Paka Madhavan	Yathva Energy Solutions Pvt. Ltd.
31	B21EE100	KONDAPALKALA VENKATESH (T&P Unregistered)	DELPHI TVS TECHNOLOGIES
32	B21EE103	Badavath Ganesh	Yathva Energy Solutions Pvt. Ltd.
33	B21EE104	Boora Hruthika	Delphi Tvs Technologies
34	B21EE108	Godishala Pranay	Delphi Tvs Technologies
35	B21EE110	Thumma Sunny	Delphi Tvs Technologies
36	B21EE111	Borugadda Reethu	Delphi Tvs Technologies
37	B22EE121L	Duddukuri Ajay	Delphi Tvs Technologies
38	B22EE125L	Bonala Shriniketh	Emmvee
39	B22EE126L	Gurrala Lokesh	Delphi Tvs Technologies
40	B22EE127L	Bollampally Keerthi	Ge Vernova (Power)
41	B22EE129L	Ramarapu Poojitha	Delphi Tvs Technologies
42	B22EE130L	Kodurupaka Sathviksai	Yathva Energy Solutions Pvt. Ltd.
43	B22EE131L	Poloju Srijaswini	Infosys
44	B22EE134L	Duvvala Rakesh	Ge Vernova (Power)
45	B22EE136L	Venukanti Shruthik	Delphi Tvs Technologies
46	B22EE137L	Kanne Dinesh	Delphi Tvs Technologies
47	B22EE138L	Voddepally Srinivas	Delphi Tvs Technologies
48	B22EE140L	Adla Maniteja	Yathva Energy Solutions Pvt. Ltd.
49	B22EE141L	Neela Sukrutha	Delphi Tvs Technologies
50	B22EE142L	Devulapally Ram Kumar	Ge Vernova (Power)
51	B22EE143L	Gajjela Nagaraju	Vem Technologies
52	B22EE145L	Nallagonda Lokesh	Lti Mindtree
53	B22EE146L	Thooti Ramnandan	Ge Vernova (Power)
54	B22EE147L	Dudam Rajesh	Delphi Tvs Technologies
55	B22EE148L	Moutam Saithilak	Delphi Tvs Technologies
56	B22EE150L	Chintala Sathwik	Ge Vernova (Power)
57	B22EE151L	Venukanti Mahesh	Delphi Tvs Technologies
58	B22EE152L	Nerella Venkatasai	Delphi Tvs Technologies
59	B22EE153L	Challuri Ranesh	Delphi Tvs Technologies

List of the students who got GATE Score from Final and Third year students:

Sl. No.	Year	Roll No.	Name of The Student	GATE
1	2021-2025	B21EE073	P.Harshavardhan	322 & 10262 Rank
2	2021-2025	B21EE080	B.Rahul	291 & 13477 Rank
3	2021-2025	B21EE096	Savera Nandamy Devi	275 & 15500 Rank
4	2021-2025	B22EE144L	T.Venkat Rao	370 & 7026 Rank
5	2021-2025	B21EE008	Syed Dastagir Ahmed	& 4700 Rank
6	2021-2025	B20EE019	B. Sudheendra Reddy	370 & 7026 Rank
7	2022-2026	B23EE76L	R. Prem Vardhan	346 & 8472 Rank
8	2020-2024	B20EE009	N.Tharun	291 & 13477 Rank