

Department of Electrical and Electronics Engineering
KPR Institute of Engineering and Technology



NEWSLETTER



ELECTROBLITZ

VOLUME 9, ISSUE 9

March 2024

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VISION AND MISSION OF THE DEPARTMENT

Vision:

To be the **centre of higher learning** in the field of Electrical and Electronics Engineering by educating the students to meet the **global challenges** with **professional ethics and social consciousness**.

Mission:

- Providing **technical, intellectual and ethical** environment to the students through **knowledge centric education and research**.
- Collaborating with industries in the vicinity, nationally and internationally for exposure and **innovation**.
- Enabling the students to **serve the society** through **prolific ideas**.

Programme Educational Objectives (PEOs)

The Graduates of Electrical and Electronics Engineering will

- **PEO1** Possess an adequate knowledge to meet the needs of the stakeholders and excel in their chosen profession with good communication and managerial skills.
- **PEO2** Adapt to emerging technologies and practice their profession confirming to ethical and human values.
- **PEO3** Continuously improve the habit of self-study through professional development activities.

Programme Outcomes (POs)

Graduates of Electrical and Electronics Engineering will be able to:

- **PO1 Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2 Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3 Design/development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.



- **PO4 Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5 Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6 The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7 Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9 Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11 Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12 Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

Programme Specific Outcomes (PSOs)

Graduates of Electrical and Electronics Engineering will be able to:

- **PSO1** Develop skills to the expectations of the dynamic industrial practices in Electrical Engineering and allied areas.
- **PSO2** Analyze, design, and integrate various renewable energy sources to meet the energy demand.



FACULTY DETAILS

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Dr.K.Mohana Sundaram	Professor & Head
2.	Dr.V.Kumar Chinnaiyan	Professor
3.	Dr.J.Karpagam	Professor
4.	Dr.V.S.Chandrika	Associate Professor
5.	Dr.P.Pandiyan	Associate Professor
6.	Dr.A.Karthick	Associate Professor
7.	Mr.S.Vivekanandan	Assistant Professor (Sl.G)
8.	Mr.G.Saravanan	Assistant Professor (Sl.G)
9.	Dr.R.Sampathkumar	Assistant Professor (Sl.G)
10.	Dr.C.Pazhanimuthu	Assistant Professor (Sl.G)
11.	Dr.D.Sathish Kumar	Assistant Professor (Sl.G)
12.	Dr.I.Baranilingesan	Assistant Professor (Sl.G)
13.	Dr.S.Ravindran	Assistant Professor (Sl.G)
14.	Dr.A.Matheswaran	Assistant Professor (Sl.G)
15.	Dr.V.Parimala	Assistant Professor (Sl.G)
16.	Dr.A.Rakesh Kumar	Assistant Professor (Sr.G)
17.	Dr.N.Prakash	Assistant Professor (Sr.G)
18.	Dr.Rangu Seshu Kumar	Assistant Professor (Sr.G)



19.	Ms.B.Lalitha	Assistant Professor (Sr.G)
20.	Ms.R.Revathi	Assistant Professor (Sr.G)
21.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
22.	Mr.P.Ravikumar	Assistant Professor (Sr.G)
23.	Mr.V.Kamalkumar	Assistant Professor (Sr.G)
24.	Mr.C.J.Vignesh	Assistant Professor (Sr.G)
25.	Mr.C.Dinesh	Assistant Professor (Sr.G)
26.	Mr.K.Balamurugan	Assistant Professor
27.	Mr.M.Mohana Sundaram	Assistant Professor
28.	Mr.G.Xavier Richards	Assistant Professor

SUPPORTING STAFF

S.NO	NAME OF THE STAFF	DESIGNATION
1.	Mr.M.Vinoth Kumar	Technical Officer
2.	Mr.R.Vinoth Kumar	Technical Officer
3.	Mr.C.Gobalakrishnan	Lab Technician
4.	Mr.M.Muthukumar	Lab Instructor
5.	Mr.M.Karuppusamy	Lab Technician
6.	Ms.R.Suvalakshmi	Lab Technician
7.	Mr.G.Siva Sankar	Technical Assistant
7.	Ms.P.Parameshwari	Office Assistant



DEPARTMENT TECHNICAL QUIZ

The EEE department was organized technical quiz challenge on 28/03/2024, drawing in a total of 29 eager students for its initial round. With their minds primed and curiosity piqued, these participants engaged in a rigorous test of their technical knowledge and problem-solving skills. Following the first round, where intellects clashed and ideas sparked, the field narrowed down to 13 students who demonstrated exceptional aptitude and acumen. These finalists moved forward to the second round, where the stakes were higher, and the questions more challenging. After a spirited battle of wits, only 7 students emerged victorious, earning their place in the prestigious third and final round. Here, amidst a palpable atmosphere of anticipation, they showcased their mastery of electrical and electronics engineering concepts, leaving no doubt as to their dedication and expertise in the field. Ultimately, after a series of intense rounds, characterized by fierce competition and impressive displays of intellect, the top three students emerged triumphant. Their names echoed through the halls of the department, their achievements celebrated and lauded by peers and faculty alike. In recognition of their outstanding performance and unwavering dedication, the top three students were awarded certificates of excellence, serving as tangible symbols of their remarkable achievement in the EEE Department Technical Quiz Challenge. Furthermore, they were honored with prize money, a testament to their hard work and commitment to academic excellence. These rewards not only recognize their success but also serve as a source of inspiration for future participants, motivating them to strive for greatness in their academic pursuits.



WORKSHOP ON PUMP TECHNOLOGY

The department of Electrical and electronics engineering and EKKI-KPRIET International Water Technology Centre (EIWTC) jointly organized the workshop on “Pump Technology” for external participants on 28/03/2024. A heart-warming welcome was delivered by Prof.B.Lalitha, AP (Sr.G)/EEE and Dr.K.Mohanasundaram addressed the gathering and shared the glimpse of EIWTC. The session details are opportunities in pump sector, drive technologies in pumps, pump selection & application, cavitation, pump installation and trouble shooting and pump performance testing. The sessions was handled by Prof.V.Bhuvaneswari, AP (Sr.G)/Mech, Dr.S.Kanmani, AsP/Civil and Prof.C.J.Vignesh, AP (Sr.G)/EEE .This EKKI-KPRIET International Water Technology Centre facilitates the students to serve as interns in the college premises rather than reaching out to the industry. Dr.S.Ravindran, AP (Sl.G.)/EEE delivered the vote of thanks. The 22 external participants were benefited through this event. The external participants from Dr.Mahalingam college of engineering, Mahendra engineering college, KSR college of engineering, Paavai engineering college, RVS engineering and technology and EGS pillai engineering college were participated in this workshop. We thank our management for giving this opportunity to handle the session related to water technology for external participants.



PROJECT PRESENTATION

The EEE department was organized the project presentation on 28/03/2024. The students from various colleges participated in the event and presented their findings. Students from Vellalar college of engineering won the first prize in project presentations. Student from Sri Eshwar College of Engineering won the second prize. Dr A Karthick event coordinator and jury of the presentation. Each criteria assigned a point value or rating scale (e.g., Excellent, Good, Fair, Poor) to assess the presenter's performance objectively. Additionally, providing specific feedback for each criterion can help presenters understand their strengths and areas for improvement. The presentation receives both positive and negative feedback, indicating areas of strength as well as areas needing improvement. This feedback can be used constructively to refine the project or presentation skills for future endeavors.

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

FIESTAA '24
Let's unite together
NATIONAL LEVEL TECHNO CULTURAL FEST

MAR 27 & 28
Registration Fee: ₹500/- For 2 days

ELECTRICAL AND ELECTRONICS ENGINEERING

27 MAR	PAPER PRESENTATION	Venue: III - EEE A Time: 11:00 am
27 MAR	PROJECT PRESENTATION	Venue: Control & Instrumentation Lab Time: 11:00 am
28 MAR	WORKSHOP ON "PUMP TECHNOLOGY"	Venue: EKKI IWTC Time: 11:00am
28 MAR	TECHNICAL QUIZ	Venue: II - EEE A Time: 02:00 pm

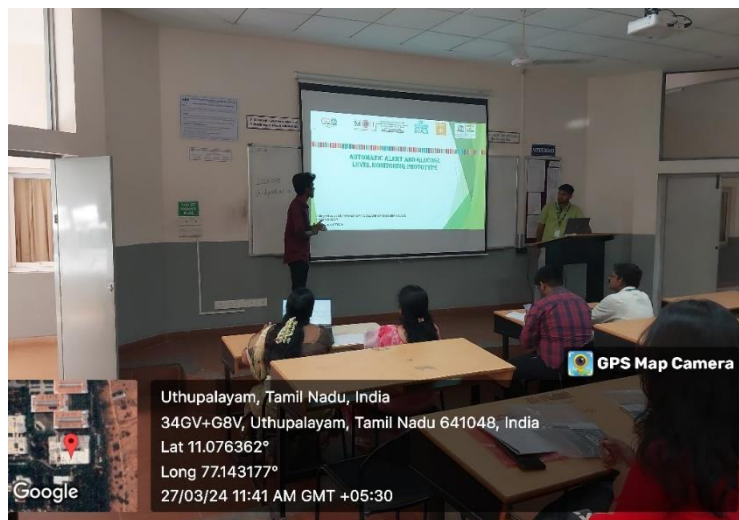
Organized by **SANGAMAM** & **IGNITRON**

Contact: +91 96554 45823
www.kpriet.edu.in/fiestaa



FIESTAA '24 - PAPER PRESENTATION

The department of Electrical and Electronics Engineering organized an event ‘Paper Presentation’ in Fiestaa 24 on 27/03/2024 & 28/03/2024 exclusively for the engineering students from other institutions. A heart-warming welcome was delivered by Dr. K. Mohana Sundaram, Professor and Head, Dept. of EEE. Each paper presentation was given a maximum of 12 minutes in length and followed by a brief question and answer period of approximately 3 minutes. Totally 32 students presented their completed projects for which results are reported as part of the presentation and defended the queries of the audience. The session was organized by Dr.V.S.Chandrika, Professor/EEE and Dr.I.Baranilingesan, AP(SI.G)/EEE. The student coordinator was Mr.Sarvesh of II year/EEE. The jury members were Dr.V.Parimala, AP(SI.G)/EEE and Mr.V.Kamalkumar, AP(Sr.G)/EEE. The judges selected three presentation as the best on the basis of innovation, way of presentation, outputs and results, communication skills and response to queries. The first prize was awarded to Mr.D.Sarathy from Dr.Mahalingam College of Engineering and Technology with a cash prize of Rs.3000, the second prize was awarded to the team from KSR College of Engineering with a cash prize of Rs.2000 and the third prize was awarded to the team from Coimbatore Institute of Technology with a cash prize of Rs.1000.



GUEST LECTURE ON PROTECTION AND SWITCHGEAR

The department of Electrical and Electronics Engineering organized a guest lecture on “Protection and Switchgear” on 25/03/2024 exclusively for second and third year students of EEE. A heart-warming welcome was delivered by Dr. K. Mohana Sundaram, Professor & Head, Dept. of EEE. Er. Narendran Krishnan, Lead Electrical Engineer Projects, Alghanim International General Trading & Contracting Co. WLL, Kuwait Oil Company, Ahmadi, Kuwait delivered a valuable presentation on Switchgear and protocols for the development of protection circuits. He had presented the discussions on • Practical switchgear • Fuses • Switches • Relays • Protective relaying • Symmetrical and unsymmetrical faults • Current transformers • Busbar protection • Transformer protection • Generator protection • Transmission lines protection • Numerical protection • Circuit breakers. The speaker covered everything that the electrical engineering students and practicing engineers need to know to effectively understand the concept of Protection and Switchgear. He also cleared all the queries of the participants in a detailed way. The participants gave a very good feedback on the presentation of the speaker. The vote of thanks was delivered by Dr. V. S. Chandrika, Professor, Dept. of EEE. There were about 200 students and 15 faculty members attended the programme and got benefited. The department of EEE thanks the management for providing this opportunity to conduct the guest lecture successfully.



Department of Electrical and Electronics Engineering

organizes a Guest Lecture on

Protection and Switchgear

25.03.2024
02.00 PM - 04.00 PM

Venue
Thanam Hall

[f](#) [@](#) [v](#) [in](#) /KPRIETonline

GUEST LECTURE



Guest Speaker

Mr. Narendran Krishnan

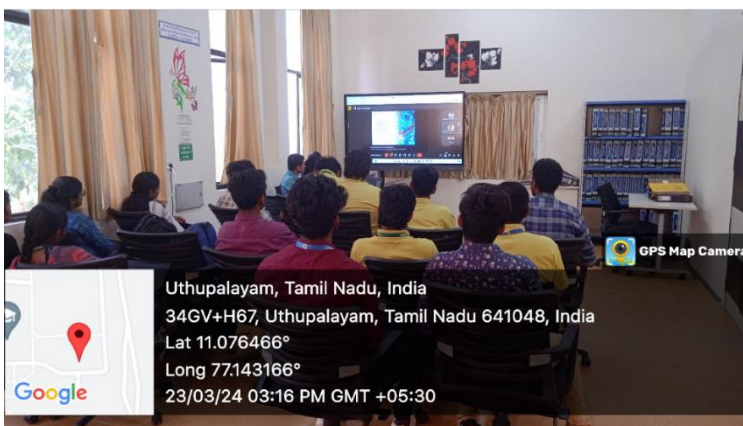
Lead Electrical Engineer Projects,
Alghanim International General
Trading & Contracting Co. WLL
Kuwait Oil Company,
Ahmadi, Kuwait.



KPRIET supports the Sustainable Development Goals

EXPERT TALK ON EMBEDDED SYSTEMS FOR ELECTRICAL ENGINEERING APPLICATIONS

The department of EEE organized the expert talk on embedded systems for electrical engineering applications on 23.03.2024. The event commenced with a warm welcome from Mr. Sarvesh, setting the platform for an insightful session ahead. Introducing the esteemed guest speaker. Dr V R Balaji specialist in automotive applications delivered the session and He elucidated on the different layers constituting these systems, providing attendees with a comprehensive understanding of their architecture. One of the highlights of the session was Dr.V.R. Balaji's discussion on the selection of processors tailored for high-speed applications. His expertise illuminated the audience on the critical considerations involved in choosing the right processors to optimize performance in diverse electrical engineering settings. This demonstration not only enriched the audience's knowledge but also provided practical insights into the real-world implementation of embedded systems. Throughout the talk, Dr. V.R. Balaji addressed integration challenges commonly encountered in the deployment of embedded systems. His expertise and practical examples enabled attendees to grasp the complexities associated with seamless integration and provided them with valuable strategies to overcome such hurdles. The session concluded on a high note with Dr V.R Balaji providing a glimpse into the myriad career opportunities within the embedded systems sector. His insights inspired aspiring engineers to explore and pursue rewarding career paths in this dynamic and ever-evolving field.



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Electrical and Electronics Engineering

Organises an Expert Talk on

Embedded Systems for Electrical Engineering Applications

Joins us on Google Meet
<https://meet.google.com/boj-mxdz-gye>



Resource Person

Dr.V.R Balaji
Specialist in Automotive Applications
Bosch Global Software Technologies Pvt. Ltd.
Coimbatore

23.03.2024 | 03.00 PM to 04.00 PM

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KPRIET supports the Sustainable Development Goals



ALUMNI SERIES - III ON BUILDING BRIDGES - NURTURING ALUMNI CONNECTIONS FOR JUNIOR SUCCESS

The Department of Electrical and Electronics Engineering (EEE) organized an Alumni lecture series featuring Er. E. Mohan Kumar, a distinguished alumnus and Grid Interconnection Electrical Engineer at Vestas Wind Technology India Private Limited. The event aimed to shed light on renewable energy grid connections, aligning with the department's focus on energy conservation and management. Er. Mohan Kumar shared valuable insights and experiences in the field, emphasizing industry expectations and career opportunities in renewable energy grid connections, a rapidly growing sector in India. The Key topics discussed included kickstarting a career as a power system engineer, job trends in the renewable energy sector from 2012 to 2022, challenges in inertia and fault current management, and various job roles in the power sector such as testing, commissioning, engineering, procurement, construction, operation and maintenance, power system consulting, utilities, OEM, grid operation and electricity market regulation. The alumni lecture series provided students with a comprehensive understanding of the industry landscape and equipped them with valuable knowledge to succeed in the dynamic field of renewable energy grid connections



Department of
Electrical and Electronics Engineering
Organises Alumni Lecture Series - V on

Building Bridges

Nurturing Alumni Connections for Junior Success

11.00 AM TO 12.30 PM

15, Mar, 2024

Thanam Hall



Guest Speaker

Er. Mohan Kumar E

Alumnus (2016 - 2020) - EEE

Electrical Engineer - Grid Interconnection

Vestas Wind Technology India Private

Limited, Chennai

kpriet.edu.in | KPRIETOnline

NON IRONED CLOTHES CHALLENGE

The Department of Electrical and Electronics Engineering, in association with the Energy Swaraj Foundation, organized the 'WAH! - Wrinkles Achhe Hain' movement. Dr.K.Mohanasundaram, Professor and Head / EEE welcomed the gathering. Also he shared 'Climate Correction Day (CCD) Challenge' is a proactive effort aimed at combating climate change by encouraging individuals to minimize their environmental footprint through changes in behaviour. The consumption of energy and materials contributes to emissions and environmental harm but conserving them equates to preserving the environment and endorsing climate-friendly solutions. Despite all the developments in renewable energy technologies, about 75% of electricity that we use in India comes from Coal. Due to this, every unit of electricity that we use results in approximately 800 gm to 1 kg of CO₂ emission. The CO₂ has a very long lifetime in atmosphere of about 300 years. CO₂ is a greenhouse gas, which causes global warming of planet. Therefore, each unit of electricity used, will release CO₂ in the atmosphere, which is going to add to global warming for 300 years. In our daily, personal and professional life we end up mis-using, over-using and inefficiently using electricity. A little alertness about the use of electricity can help us to save easily about 10 to 30% electricity, to save energy and money. A photo session was arranged and the vote of thanks was delivered by Ms.R.Revathi, AP (Sr.G) / EEE.

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC 'A')

Energy Swaraj Foundation
Energy by Locals for Locals

Department of Electrical and Electronics Engineering
in association with
Energy Swaraj Foundation
Organize

Wah!

Wrinkles Achhe Hain!

SAVE ENERGY - SAVE ELECTRICITY - SAVE ENVIRONMENT

#NoCO₂
#WrinklesAchheHain

Join the
NON-IRONED
clothes challenge

Register Now

2024
MARCH
02

SUSTAINABLE DEVELOPMENT GOALS

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Faculty Participation in FDP/Seminar/Workshop/Orientation Program

S. No	Faculty Name	Event Name	Name of the Organization	Duration of the Event
1.	Saravanan G	NBA- Criterion -4 Awareness Training	R V S College of Engineering and Technology	20-03-2024
2.	Revathi R	7 Days National Level FDP on Python	Star International Foundation for Research and Education	19-03-2024
3.	Mohamed Ibrahim A	Short Circuit Studies Using ETAP	Power Projects	24-03-2024
4.	Mohamed Ibrahim A	Engine Management System for Diesel and Gasoline	Bosch Technical Training Academy	04-03-2024
5.	Pazhanimuthu C	NEP 2020 Orientation and Sensitization Programme	Coimbatore Institute of Technology	18-03-2024

Students Participation in FDP/Seminar/Workshop/Orientation Program

S. NO	STUDENT NAME	YEAR	EVENT NAME	VENUE
1.	ABISHEK K	III	DESIGN OF BLDC USING SOLVE SOFTWARE	KPRIET
2.	ABISHEK K	III	IDEATHON 2024	SRM INSTITUTE SCIENCE AND TECHNOLOGY
3.	BANUPUTRA B V K	III	YUKTA:'24 - PCB DESIGNING WITH KICAD 7.0	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH
4.	BANUPUTRA B V K	III	DESIGN OF BLDC MOTOR USING MOTOR SOLVE SOFTWARE	KPRIET
5.	CHITRIKA H P	III	PYTHON	GUVI
6.	CHITRIKA H P	III	GREAT LEARNING	KPRIET
7.	DHARANI M	III	EMBEDDED SYSTEM (PROGRAMMING WITH MSP432)	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH
8.	DHIVYA K S	III	IEEE - CERTIFICATE OF IEEE MEMBERSHIP	KPRIET

9.	DHIVYA K S	III	IEEE - CERTIFICATE IF MEMBERSHIP - WOMEN IN ENGINEERING	KPRIET
10.	DHIVYA K S	III	IEEE - EMBS CERTIFICATE OF MEMBERSHIP	KPRIET
11.	DHIVYA K S	III	MATLAB ONRAMP	KPRIET
12.	DHIVYA K S	III	SIMPLILEARN - SKILLUP - INTRODUCTION TO CYBER SECURITY	KPRIET
13.	DHIVYA K S	III	SIMPLILEARN - SKILLUP - JAVA PROGRAMMING FOR BEGINNERS	KPRIET
14.	GOWTHAM M	III	TECHNO CULTURAL MANAGEMENT AND SPORTS FEST	RATHINAM GROUP OF INSTITUTIONS
15.	GOWTHAM M	III	OPEN STATE LEVEL BENCH PRESS DEADLIFT COMPETITION	ALL SPORTS ASSOCIATION & SPORTS TRUST
16.	GOWTHAM S	III	YUKTA 2K24	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH
17.	HARINI J	III	MATLAB ONRAMP	KPRIET
18.	HARINI J	III	IEEE	KPRIET
19.	HARISH P S	III	IDEATHON	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
20.	JEVAA KHARTHIK N	III	YUKTHI CTF	SELMMADE NINJA ACADEMY
21.	JEVAA KHARTHIK N	III	INNOVSENSE	KPRIET
22.	KAVIYA R	III	YUKTA NATIONAL LEVEL TECHNICAL SYMPOSIUM	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH
23.	KOUSHIK M	III	YUKTA:'24 PCB DESIGN USING KICAD 7.0	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH
24.	RAGURAM S	III	AVANTAA 24	SRI KRISHNA COLLEGE OF TECHNOLOGY
25.	RAGURAM S	III	CIRCUIT HUNT IN AVANTAA'24	SRI KRISHNA COLLEGE OF TECHNOLOGY