JULY2024 *VOL-6, ISSUE-2*

PROPULSION

HALF-YEARLY NEWSLETTER DEPT OF EEE

OVERVIEW

St. JOHNS COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT VISION & MISSION

DEPARTMENT VISION

To become a front-runner, the department of Electrical and Electronics Engineering brings out competent engineers, innovators, researchers with human and ethical values, thereby contributing value to the knowledge-based economy and society.

DEPARTMENT MISSION

- To educate and train engineers who are highly skilled, innovative, and committed to ethical values.
- To encourage research and innovation, fostering a culture of curiosity and creativity among our students.
- To produce graduates who make a positive impact on the knowledge-based economy and society as a whole by using their knowledge and values to solve real-world problems.

PEO & PSO

PEO

- PEO1: To Excel in professional career and/or higher education by acquiring knowledge in mathematics and Basic Sciences, Basic Electrical Sciences, Power Systems, Power Electronics and Electrical Drives
- PEO2: To identify the problems in society and design electrical systems appropriate to its solutions using soft controllers that are technically sound, economically feasible and socially acceptable.
- PEO3: To Exhibit professionalism, ethical attitude, communication skills, team work in their profession and adapt to current trends in technology by engaging in continuous professional development.

PSO

PSO1: Able to utilize the knowledge of high voltage engineering in collaboration with power systems in innovative, dynamic and challenging environment, for the research based team work.

PSO2: Able to explore the scientific theories, ideas, methodologies and the new cutting edge technologies in renewable energy engineering, and use this erudition in their professional development and gain sufficient competence to solve the current and future energy problems universally.

PSO3: Able to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.

PRINCIPAL'S DESK

It is with profound sense of pride and pleasure that we present you this very special volume of PROPULSION. Every page unfolds a plethora of the abundant creative and literary talents of our ever enthusiastic students. You can feel the pulse of this great institution as the pages reveal our students capabilities. PROPULSION is truly the systematic product of a team of people. I am delighted to present you through these pages our students' thoughts, attitudes and aspirations. These young shining stars with their well embedded roots and spreading wings are the promise of a great tomorrow. This institution serves as a springboard from where they can unleash their true potential. I encourage everyone to go through this wonderful masterpiece of SJCET, whose quality ideas and contributions made this edition of PROPULSION colorful and readable.

PROF. Dr. V. VEERANNA

PRINCIPAL

HOD'S DESK

The department of Electrical and Electronics Engineering was established in the year 2001 with an objective to develop professionals through quality education with an intake of 60 students. The EEE Department at St. Johns College of Engineering & Technology prepares students in this field using new-age information and computer-intensive technologies. The B.Tech. and M.Tech programs are designed to achieve a balance between depth of knowledge acquired through specialization and breadth of knowledge gained through exploration. The courses offered by the department provide a comprehensive foundation in the core topics of EEE coupled with an area of specialization relevant to emerging engineering challenges. The faculty in the department is a rich blend of personnel with industrial and professional experience. The dedicated staff members have sound knowledge in emerging areas like Power systems, power electronics, micro-electronics, and control engineering, etc. The breadth and depth of the research interests of the academic staff ensures a high standard of lecture courses and provides excellent opportunities for challenging and stimulating final year projects. All faculty supplement their delivery using videos, animations overhead projectors. The faculty keeps up with the latest technologies by publishing in reputed journals and presenting at various national and international conferences. The students are not far behind. The students have made us proud by designing the best projects. The EEE Department also holds several guest lectures, seminars and workshops. These provide a platform for the staff and students to share their views and experience among industrialists, fellow researchers, and academicians in the emerging areas of electrical engineering. On employability, graduates of the institute consistently appear as the first choice of employers. Studying EEE will lead to potential careers in the areas of Research & Development (R&D), design, systems analysis, control and manufacturing, quality assurance and testing. The department boasts of having many Assistant Engineers and Assistant Executive Engineers working in the electricity department of both Telangana and Andhra Pradesh governments. Students pursuing master's abroad have made us proud by taking up niche positions in various companies.

Dr. K. Chithambaraiah Setty
HOD Dept. of EEE

STUDENTS SPEAK

The department is equipped with adequate infrastructure to support academic, research and extra-curricular activities for the all-rounddevelopment of our students with 17 well-qualified, skilled and experienced faculty members. The department frequently organizes workshops, talks and faculty development programs regularly for the benefitof the student and faculty community. The department has an impressive placement track record of the students placed in reputed organizations.

K. SHIVA SHANKAR

The Department of Electrical and Electronics Engineering has excellent classrooms and well equipped laboratories. State-of-the art technical equipment in laboratories, rich collection of books in department library and extensive learning opportunities provide students flexible and seamless learning experience. The department not only offers scope for research and study but also provides good opportunities for holistic development of our students. The department has high speed internet connectivity.

- D. ALLI RANI

FACULTY ACHIEVEMENTS

S.NO	NAME OF THE FACULTY	ACHIEVEMENTS	DATE
1	Dr. K. CHITHAMBARAIAH SETTY	Participated a 5-Day Faculty Devolopment Program on RECENT ADVANCES on Electrical, Electronics & Communication Engineering at Galgotias University	6-10 May 2024
2	Dr. MODE LAXMANA RAO		
3	P PEDDA REDDY		
4	M. SUNKANNA		
5	P RAVI KUMAR		
6	M S SHIVA KUMAR		
7	SAIFULLA D		
8	U AMEAR QURASHI		
9	M ASHOK KUMAR		
10	M K GIDDOJI RAO		
11	E RAVI TEJA		
12	SYED SAHEB		
13	P RIJWAN BASHA		
14	B RAMESH BABU		
15	S MAREPPA		
16	D. B. AMEER SOHAIL		
17	M. G. SUKANYA		
18	Dr. K. CHITHAMBARAIAH SETTY	Participated in National Level FDP ON Generative AI Models and Applications of Machine Learning.	21-25 May 2024
19	Dr. MODE LAXMANA RAO		
20	P PEDDA REDDY		
21	M. SUNKANNA		
22	P RAVI KUMAR		
23	M S SHIVA KUMAR		
24	SAIFULLA D		
25	U AMEAR QURASHI		
26	M ASHOK KUMAR		
27	M K GIDDOJI RAO		
28	E RAVI TEJA		
29	SYED SAHEB		
30	P RIJWAN BASHA		
31	B RAMESH BABU		
32	S MAREPPA		
33	D. B. AMEER SOHAIL		
34	M. G. SUKANYA		
35	Dr. K. CHITHAMBARAIAH SETTY	Published a Journal on CHARGING ELECTRIC VEHICLES APPLICATIONS FOR DESIGNING A SOLAR/WIND HYBRID POWER SYSTEM	Mar-24
36	Dr. K. CHITHAMBARAIAH SETTY	Published a Journal on G2V & V2G TECHNOLOGIES FOR THREE PHASE BI DIRECTIONAL ELECTRIC VEHICLE BATTERY CHARGER	Mar-24
37	P PEDDA REDDY	Published a Journal on G2V & V2G TECHNOLOGIES FOR THREE PHASE BI DIRECTIONAL ELECTRIC VEHICLE BATTERY CHARGER	Mar-24

38	M S SHIVA KUMAR	Published a Journal on A SYMMETRICAL H-BRIDGE MULTILEVEL CONVERTER WITH SENSOR LESS VOLTAGE BALANCE	Apr-24
39	U AMEAR QURASHI	Published a Journal on IOT BASED WIRELESS EV CHARGING STATION USING RFID	Apr-24
40	E RAVI TEJA	Published a Journal on Closed loop control of Bidirectional Buck-Boost Converter in a Smart Grid using Photovoltaic and Energy Storage Systems	Apr-24
41	SYED SAHEB	Published a Journal on SOLAR WATER PUMP CONTROL WITH DIFFERENT TIME SLOTS FOR POWER SAVING APPLICATIONS	Apr-24
42	B RAMESH BABU	Published a Journal on POWER QUALITY IMPROVEMENT BY USING ACTIVE POWER FILTERS IN ELECTRICAL VEHICLE CHARGING STATIONS	Apr-24
43	D. B. AMEER SOHAIL	Published a Journal on IOT BASED HOME AUTOMATION SYSTEM	Apr-24
44	M. G. SUKANYA	Published a Journal on POWER CONTROL SCHEME FOR PV INTEGRATED WITH HYBRID ENERGY STORAGE SYSTEM BASED ON MMC DC-DC CONVERTER	Apr-24
45	Dr. K. CHITHAMBARAIAH SETTY	Published a Journal on Control and Management of Railway System Connected to Microgrid Stations	Apr-24

Student Achievements

S.NO	REGD.NO	NAME OF THE STUDENT	ACHIEVEMENTS
1	20G31A0207	BUGUDI MOHAN KUMAR	Published a Journal on Control and Management of Railway System Connected to Microgrid Stations
2	20G31A0215	MALIREDDY LAKSHMAN	
3	20G31A0221	SEELAM RAJASEKHAR	
4	20G31A0205	BOYA JOLANNA GARI RAMAKRISHNA	
5	21G35A0215	M FAREED AKRAM	
6	20G31A0210	KALLUKUNTA PAVAN KUMAR	Published a Journal on G2V & V2G TECHNOLOGIES FOR THREE PHASE BI DIRECTIONAL ELECTRIC VEHICLE BATTERY CHARGER
7	21G35A0211	KUMMARI SITHA RAMANJINEYULU	
8	21G35A0216	P AKBAR SAB	
9	20G31A0202	A TARUN KUMAR	
10	21G35A0210	KAKE UDAY KANTH	
11	21G35A0202	BICHALI SAINATH	Published a Journal on A SYMMETRICAL H-BRIDGE MULTILEVEL CONVERTER WITH SENSOR LESS VOLTAGE BALANCE
12	21G35A0204	C KARTHIK REDDY	
13	20G31A0203	B VINAY	
14	20G31A0223	ULIDRA NAVEEN KUMAR	
15	21G35A0209	K MAHESH	
16	21G35A0203	BOGGURU VIJAY BHASKAR REDDY	Published a Journal on IOT BASED WIRELESS EV CHARGING STATION USING RFID
17	20G31A0211	KANAKA BOYA LAVAKUMAR	
18	20G31A0224	UPPARAMUNDARINTI SAI GURU RAJ	
19	21G35A0201	BESTHA VENKATESH	
20	20G31A0219	NAYAKANTI RAMUDU	
21	20G31A0213	KANIKE PRATAP	Published a Journal on Closed loop control of Bidirectional Buck-Boost Converter in a Smart Grid using Photovoltaicand Energy Storage Systems
22	20G31A0222	SUGURAPPAGARI NARASIMHULU	
23	21G35A0218	SAPARE NANDA KISHORE	
24	20G31A0206	BOYA RAVI	
25	20G31A0212	KANIKE JYOTHI	Published a Journal on SOLAR WATER PUMP CONTROL WITH DIFFERENT TIME SLOTS FOR POWER SAVING APPLICATIONS
26	21G35A0207	JANA LATHA	
27	20G31A0209	GURRAM MOUNIKA	
28	20G31A0201	A PUSHPALATHA	
29	20G31A0208	DAYYALA ALLI RANI	
30	21G35A0213	KURUVA GOURI	
31	20G31A0225	VADLA BABUDIN	Published a Journal on POWER QUALITY IMPROVEMENT BY USING ACTIVE POWER FILTERS IN ELECTRICAL VEHICLE CHARGING STATIONS
32	21G35A0212	KUNDANAM DHANUSH KUMAR	
33	21G35A0217	PATAN SHABAZ KHAN	

34	20G31A0226	YERRABATI VIJAY KUMAR	
35	20G31A0214	KANNARI RAJESH	Published a Journal on IOT BASED HOME AUTOMATION SYSTEM
36	21G35A0214	KURUVA YUGANDAR	
37	21G35A0205	GOLLA VINOD KUMAR	
38	20G31A0204	BANDA BHASKAR	
39	21G35A0206	YAPAMANU PRIYANKA	Published a Journal on POWER CONTROL SCHEME FOR PV INTEGRATED WITH HYBRID ENERGY STORAGE SYSTEM BASED ON MMC DC-DC CONVERTER
40	20G31A0220	SADDALA BHARATHI	
41	20G31A0218	NASARI KOUSALYA	
42	21G35A0208	K AISHWARYA	
43	20G31A0217	NAGANNAGERI LAKSHMI	

POTENZIA'24

Potenzia is a platform for students to realize their team coordinating skills, organizing skills and brings in all at one place to showcase their technical abilities to excel in their careers.