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# **PROPULSION**

***HALF-YEARLY NEWSLETTER DEPT OF EEE***

## **OVERVIEW**

- **DEPARTMENT VISION & MISSION**
- **PRINCIPAL'S DESK**
- **HOD'S DESK**
- **STUDENT SPEAK**
- **FACULTY ACHIEVEMENTS**
- **STUDENT ACHIEVEMENTS**
- **POTENZIA'21**

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**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 comprehensive infrastructure to support academic, research, and extracurricular activities, ensuring the holistic development of students. Led by a team of 20 well-qualified, skilled, and experienced faculty members, the department actively organizes workshops, talks, and faculty development programs to enrich the learning experience for both students and faculty alike. This commitment to educational enhancement is reflected in the department's impressive placement track record, with students consistently achieving placements in prestigious organizations, underscoring the quality education and preparation provided by the department.

**-PETA GOUDA SHYAM KUMAR**

The Department of EEE offers top-tier classrooms and fully equipped laboratories that include state-of-the-art technical equipment. Students benefit from a diverse range of resources, including a comprehensive collection of books in the departmental library and abundant learning opportunities that promote a flexible and seamless educational experience. Beyond academics, the department places a strong emphasis on holistic development, providing extensive opportunities for research, study, and personal growth. High-speed internet connectivity enhances the learning environment by enabling easy access to resources, contributing to a dynamic and enriching educational journey for all students.

**- CHEDDE BALAKRISHNA**

# FACULTY ACHIEVEMENTS

S.NO	NAME OF THE FACULTY	ACHIEVEMENTS	DATE
1	Dr. K. CHITHAMBARAIAH SETTY	Participated in 1-week International Faculty Development Program on Innovative Approaches in Management Teaching at PIET.	16-22 JULY 2020
2	Dr. K. NAGARAJU		
3	Dr. SATHEESH VOGGU		
4	P PEDDA REDDY		
5	M. SUNKANNA		
6	P RAVI KUMAR		
7	D R ARUN KUMAR		
8	M S SHIVA KUMAR		
9	JONI HAVILA S		
10	SAIFULLA D		
11	U AMEAR QURASHI		
12	M ASHOK KUMAR		
13	M K GIDDOJI RAO		
14	E RAVI TEJA		
15	SYED SAHEB		
16	P RIJWAN BASHA		
17	B RAMESH BABU		
18	S MAREPPA		
19	D. B. AMEER SOHAIL		
20	M. G. SUKANYA		
1	Dr. K. CHITHAMBARAIAH SETTY	Participated in 1 week International Faculty Development Program on Technologies for Societal Needs-Real Time Applications of AI, ML and Research Initiatives at PIET.	03-07 AUGUST 2020
2	Dr. K. NAGARAJU		
4	P PEDDA REDDY		
5	M. SUNKANNA		
6	P RAVI KUMAR		
7	D R ARUN KUMAR		
8	M S SHIVA KUMAR		
9	JONI HAVILA S		
10	SAIFULLA D		
11	U AMEAR QURASHI		
13	M K GIDDOJI RAO		
14	E RAVI TEJA		
15	SYED SAHEB		
16	P RIJWAN BASHA		
17	B RAMESH BABU		
18	S MAREPPA		
19	D. B. AMEER SOHAIL		
20	M. G. SUKANYA		
21	Dr. K. CHITHAMBARAIAH SETTY	Blended Multi-Level and Section Interleaved LLC Converter with More Advantageous Strength Processing Capabilities and Herbal Modern-Day Sharing	Dec-20
22	U AMEAR QURASHI	Blended Multi-Level and Section Interleaved LLC Converter with More Advantageous Strength Processing Capabilities and Herbal Modern-Day Sharing	Dec-20

23	P PEDDA REDDY	Based on Load Maximum Capacity of Distributed Generation unit in Radial Power System	Oct-20
24	Dr. K. CHITHAMBARAIAH SETTY	Based on Load Maximum Capacity of Distributed Generation unit in Radial Power System	Oct-20
25	E RAVI TEJA	A Buck and Boost Based Grid Connected PV Inverter Maximizing Power Yield from Two PV Arrays in Mismatched Environmental Conditions	Sep-20
26	Dr. K. CHITHAMBARAIAH SETTY	A Buck and Boost Based Grid Connected PV Inverter Maximizing Power Yield from Two PV Arrays in Mismatched Environmental Conditions	Sep-20
27	E RAVI TEJA	TIE INTERGRATION FOR EFFICIENT POWER MANAGEMENT BASED ON SOLAR.	Feb-21
28	U AMEAR QURASHI	TIE INTERGRATION FOR EFFICIENT POWER MANAGEMENT BASED ON SOLAR.	Feb-21



# Student Achievements

## IV-I EEE

S.No.	Branch	Hall Ticket No.	Name of the Student	Percentage	Total Marks Obtained
1	EEE	18G35A0202	GORANTLA VISWANATH	76.38	611/800
2	EEE	18G35A0204	PETA GOUDA SHYAM KUMAR	75.63	605/800
3	EEE	17G31A0202	BANDA RAJESWARI	73.38	587/800
4	EEE	17G31A0212	TAPAL IBRAHIM	73.25	586/800
5	EEE	18G35A0205	SATABOINA MADHU	70.00	560/800

## III-I EEE

S.No.	Branch	Hall Ticket No.	Name of the Student	Percentage	Total Marks Obtained /800
1	EEE	19G35A0201	CHEDDE BALAKRISHNA	79.75	638
2	EEE	18G31A0203	DUPATHI RAJESWARI	79.00	632
3	EEE	18G31A0213	MADUGUNDU HEMAVATHI	76.38	611
4	EEE	18G31A0210	KURUVA SANDHYA RANI	74.63	597
4	EEE	18G31A0214	MALA NAVEEN KUMAR	72.88	583

## II-I EEE

S.No.	Branch	Hall Ticket No.	Name of the Student	CGPA Grade	Equivalent Pass% (CGPA X 9.1)
1	ECE	19G31A0218	NADUGENIGERI RAJESWARI	8.42	76.61
2	ECE	19G31A0210	J MONIKA	8.37	76.19
3	ECE	20G35A0202	BESTHA MADHUSUDHAN	8.19	74.49
4	ECE	20G35A0206	G SUDHAKAR	7.91	71.95
5	ECE	20G35A0207	GANGUNDI BHANUPRASAD	7.91	71.95
6	ECE	19G31A0206	G SANDYA RANI	7.77	70.68