*JULY2023* *VOL-5, 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 20 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.

**- KODIGANTI THARUN**

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 in 1-Week Faculty Devolopment Program on RECENT ADVANCES on Power Electronics Apllications in Smart Grid & Electrical Vehicles | 22-27 AUGUST 2022 |
| 2 | Dr. SATHEESH VOGGU | | |
| 3 | Dr. MODE LAXMANA RAO | | |
| 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 | | |
| 21 | Dr. K. CHITHAMBARAIAH SETTY | Participated in 1-Week Faculty Devolopment Program on RECENT TRENDS in Communication & Wireless Networks | 19-24 SEPTEMBER 2022 |
| 22 | Dr. SATHEESH VOGGU | | |
| 23 | Dr. MODE LAXMANA RAO | | |
| 24 | P PEDDA REDDY | | |
| 25 | M. SUNKANNA | | |
| 26 | P RAVI KUMAR | | |
| 27 | D R ARUN KUMAR | | |
| 28 | M S SHIVA KUMAR | | |
| 29 | JONI HAVILA S | | |
| 30 | SAIFULLA D | | |
| 31 | U AMEAR QURASHI | | |
| 32 | M ASHOK KUMAR | | |
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| 51 | SYED SAHEB | | |
| 52 | P RIJWAN BASHA | | |
| 53 | B RAMESH BABU | | |
| 54 | S MAREPPA | | |
| 55 | D. B. AMEER SOHAIL | | |
| 56 | M. G. SUKANYA | | |
| 57 | Dr. K. CHITHAMBARAIAH SETTY | Published a Journal on OPTIMIZING DG FOR DISRUPTIONS IN UNBALANCED SYSTEMS THROUGH GRID CONNECTED CONVERSION | Jan-23 |
| 58 | Dr. K. CHITHAMBARAIAH SETTY | Published a Journal on Grid-Based Variable Speed Wind Energy Conversion System Power Quality Improvement | Jan-23 |
| 59 | P PEDDA REDDY | Published a Journal on Grid-Based Variable Speed Wind Energy Conversion System Power Quality Improvement | Jan-23 |

# Student Achievements

| S.NO | REGD.NO | NAME OF THE STUDENT | achievements | Date |
|---|---|---|---|---|
| 1 | 19G31A0210 | J MONIKA | Published a journal on Blootooth communication system for control of a mobile robot to detect living beings | Apr-23 |
| 2 | 20G35A0205 | EDIGA DASARATH GOWD | | |
| 3 | 19G31A0221 | POTLAPADU SURYAM | | |
| 4 | 20G35A0214 | KURUVA VENU | | |
| 5 | 20G35A0216 | UPPARA RAVIKUMAR | | |
| 6 | 19G31A0215 | MALLEPOGU SALOMI | | |
| 7 | 19G31A0206 | G SANDYA RANI | Published a journal on Smart Solar Tree | Apr-23 |
| 8 | 19G31A0209 | GOWRISETTY BHANU PRAKASH | | |
| 9 | 19G31A0225 | TERNEKAL KATIKE SHABBIR | | |
| 10 | 20G35A0213 | KODIGANTI THARUN | | |
| 11 | 20G35A0217 | VADDE VEERESH | | |
| 12 | 19G31A0224 | SUDIGUNDU KAVITHA | Published a journal on Vehicle advanced safety & security system using 8051 based Micro controller | Apr-23 |
| 13 | 19G31A0204 | CHAKALI RAVITEJA | | |
| 14 | 20G35A0208 | GUDLA HUSSENI | | |
| 15 | 19G31A0202 | BALA KRISHNA KURUVA | | |
| 16 | 20G35A0203 | BOYA RAVITEJA | | |
| 17 | 19G31A0212 | KANDKOORI ANANDA RAMANI | Published a journal on A grid connected dual voltage source inverter with PQ improvement features | Apr-23 |
| 18 | 20G35A0218 | VAJRAGIRI VINOD KUMAR | | |
| 19 | 19G31A0216 | MANIKINDI JAGADEESH | | |
| 20 | 19G31A0211 | KAMARTHI RAKESH | | |
| 21 | 20G35A0204 | BOYA SHANKAR | | |
| 22 | 19G31A0207 | GADIGE DATTA SAINATH | Published a journal on Enhanced home security for home or ATM with the help of sensors and controllers | Apr-23 |
| 23 | 19G31A0222 | SAPPOGU SWETHA | | |
| 24 | 20G35A0207 | GANGUNDI BHANUPRASAD | | |
| 25 | 20G35A0215 | UPPARA RAMESH | | |
| 26 | 19G31A0220 | NASARI HARIKA | | |
| 27 | 19G31A0201 | B CHANDRA SHEKAR | Published a journal on Smart grid control using wireless communication | Apr-23 |
| 28 | 20G35A0206 | G SUDHAKAR | | |
| 29 | 20G35A0209 | JANGAM DIVAKAR | | |
| 30 | 20G35A0211 | KADUBAI ABILASH | | |
| 31 | 20G35A0210 | KACHAPURAM SOMA SEKHAR | | |

# POTENZIA'23

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.