

## SRXR ENGINEERING COLJEGE

(AUTONOMOUS)

# EEE CHRONICLE



VOLUME-1 ISSUE-1

**JAN- JUNE 2022** 



### **Vision & Mission**

#### **Vision:**

To become a centre of excellence in electrical engineering that fosters learning, research and innovation with social relevance.

### **Mission:**

- 1. To build an environment that cultivates employability skills with human values and ethics.
- 2. To establish a collaborative interaction with industry for laboratory development, research and innovation.
- To create an ambience that encouragex active participation of students and staff in the pursuits towards excellence.

PROGRAM EDUCATIONAL OBJECTIVES PEO: PEO1:Graduates will have domain knowledge and analytical skills for employability and entrepreneurship.

PEO 2: Graduates will have life skills to face the real world challenges with a sense of human values and ethics.

PEO 3: Graduates become responsible citizens and contribute towards the cultural and technological growth of the nation.

### Principal message to department



Dr.M.Jagapathia Raju

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Principal of SRKR Engineering College

"To the esteemed EEE department .I wanted to take a moment to acknowledge the hard work and dedication you all consistently demonstrate. Your commitment to excellence is truly commendable, and I am proud to be a part of this department. keep up the great work and continue to inspire others with your passion for electrical engineering.Best wishes for continued success!"

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# Building software career:

# From code to consumer - connecting the dots

The Department of Electrical and Electronic Engineering held a guest lecturer on buliding a software career from code to consumer. The seminar mainly focused on young student developers to help them get a better idea on how the software industry works. The students were advised to achieve some skills which involves mastering coding skills, understanding the development life cycle, and expanding expersite in backend and frontend development. They were told that it's important to have adaptability, effective communication, and user feedback play crucial role. Embracing continuous learning and leadership are essential for success in the dynamic software industry. Connecting the dots between technical powess, consumer needs and collaborative teamwork enables professional to create impactful products and solutions the resonate with users



# A day with teen girls:









A day with teen girls is a dynamic and spirited experience. They exude creativity and curiosity, exploring diverse interests from arts to technology. Engaging in heartfelt conversations, they forge strong bonds with friends. Expressing themselves through fashion and personal style, they embrace their individuality. Navigating challenges with resilience, they seek empowerment and inspire others with their determination. Social media and technology are integral parts of their day, connecting them to a broader world. Witnessing their growth and transformation, one realizes the immense potential and influence teen girls possess, making a day with them an inspiring and memorable adventure.

## Farewell meet 2018-22





The Department of EEE farewell meet for the 2018-2022 batch was a bittersweet occasion filled with emotions and memories. Graduating students bid adieu to their department, cherishing the moments they shared over the past four years. Laughter and tears intertwined as they recounted their academic journey and forged friendships. The Department's faculty expressed pride in witnessing their growth and wished them success in their future endeavors. Nostalgia lingered in the air as they embarked on new paths, leaving behind a legacy of accomplishments and camaraderie. The farewell meet served as a heartfelt reminder of the bonds formed and the exciting possibilities that lie ahead.



## Project Expo-2022



The Project Expo 2022 of the Electrical and Electronics Engineering (EEE) department was a captivating showcase of innovation and brilliance.

Students presented their innovative projects, reflecting their dedication and expertise. The event provided a platform for them to demonstrate solutions to real-world challenges, incorporating the latest technologies and engineering principles. Faculty and peers appreciated the ingenuity displayed by the EEE students. The Project Expo fostered a spirit of collaboration, encouraging meaningful discussions and knowledge sharing. It served as a testament to the students' potential and the department's commitment to nurturing talent in the field of Electrical and Electronics Engineering.







# SANKALP 2022



## SANKALP 2022





SANKALP 2022, the annual fest organized by the Department of Electrical and Electronics, was a success that left an indelible mark on all participants. The fest spanned over two days and offered a multiple range of events and activities. Technical competitions showcased the students' technical prowess, with challenging quizzes and project presentations. Non - technical events showcased the creative talents of the students. SANKALP 2022 also hosted workshop by industry experts, offering students an opportunity to gain knowledge beyond the curriculum. Workshop provided valuable insights to the attendees. This allowed students to realise about numerous promising career prospects. The fest fostered a sense of camaraderie among students, faculty, and participants from other institutions. SANKALP 2022 truly encapsulated the essence of EEE's passion for excellence and provided a platform for students to showcase their skills, learn from each other, and celebrate their achievements.

# Faculty publications

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- 3. K Raja, M. K. Patan, Md Ahmed, P. Ganeshan, "Water Evaporation Algorithm Optimized Cascade Controller for Frequency Regulation of Integrated Microgrid" Journal of Intelligent & Fuzzy Systems (IOS Press), 2022. https://doi.org/10.3233/JIFS-212434
- 4. R Satish, P Kantarao, K Vaisakh, "A New Algorithm for Harmonic Impacts with Renewable DG and Non-linear Loads in Smart Distribution Networks", Technology and Economics of Smart Grids and Sustainable Energy, vol.7, no.1, (2022): pp 1-19. (Springer) https://doi.org/10.1007/s40866-022-00134-1
- 5. K. Kiran Kumar, G. Balaji, P. Kanta Rao, and C.D. Prasad, "Frequency Control of Isolated Power System Integrated with Renewables using Biogeography based Krill Herd Migration Optimized Controllers", International Journal of Renewable Energy Research 12, no. 1 (2022): 529-535. https://doi.org/10.20508/ijrer.v12i1.12650.g8426
- 6. M. Siva Rama Krishna. "A monitoring system for online fault detection in multiple photovoltaic arrays." Renewable Energy Focus 41 (2022): 160-178. https://doi.org/10.1016/j.ref.2022.03.001
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- 8. B.S.S.Santosh, M. Mohamed Thameem Ansari, P. Kantarao, and G. Kusuma. "Power loss analysis of Traditional PV array Configurations under different shading conditions." International Journal of Renewable Energy Research (IJRER) 12, no. 2 (2022): 1176-1203. https://doi.org/10.20508/ijrer.v12i2.13028.g8504
- 9. P.Jagadeesh, B.Sudha Rani, C.D. Prasad, "Water Evaporation Optimized PID Controller for Frequency Control of Isolated Renewable Microgrid," In: Bhaumik S., Chattopadhyay S., Chattopadhyay T., Bhattacharya S. (eds) Proceedings of International Conference on Industrial Instrumentation and Control. Lecture Notes in Electrical Engineering, vol 815. Springer, Singapore, 2022. https://doi.org/10.1007/978-981-16-7011-4\_38
- 10. Sri Lalitha E, A.M.S.V. Sushma, G.Pavan Kumar, C.D.Prasad, "Biogeography-Based Centralized PID controller for ALFC in Presence of Wind Farms," In: Natarajan S.K., Prakash R., Sankaranarayanasamy K. (eds) Recent Advances in Manufacturing, Automation, Design and Energy Technologies. Lecture Notes in Mechanical Engineering. Springer, Singapore 2022. https://doi.org/10.1007/978-981-16-4222-7\_93
- 11. Peddakapu, K., Mohamed, M. R., Srinivasarao, P., Kishore, D. J. K., Koteswararao, D. A., Swamy, P. S. P. R, "Performance of 2-DOF PID Controller in AGC of Two Area Interconnected Power System Using PSO Algorithm," In Proceedings of the 6th International Conference on Electrical, Control and Computer Engineering (pp. 119-133). Springer, Singapore, 2022. https://doi.org/10.1007/978-981-16-8690-0\_12 12. G.H.K. Varma, Venugopal Reddy Barry, and Rohit Kumar Jain. "Improved Performance of PV Water Pumping System Using Dynamic Reconfiguration Algorithm Under Partial Shading Conditions." CPSS Transactions on Power Electronics and Applications 7, no. 2 (2022): 206-215. https://doi.org/10.24295/CPSSTPEA.2022.00019
- 13. Vemulapalli, Harika, Madhavi Gudavalli, and Md. Azaharahmed. "Prototype for Automatic Fire Detection and Extinguishing Robot." ECS Transactions 107, no. 1 (2022): 11673. https://doi.org/10.1149/10701.11673ecst

# About the Department

The department of Electrical & Electronics was established in the year 1994 with an annual student intake of 60 in B.E. (EEE) course. Presently, the department offers a 4- year undergraduate program leading to B.Tech degree in Electrical and Electronics Engineering of JNTU Kakinada with an annual intake of 120 students. A P.G. program M.Tech. (Power Systems and Automation) was started in the year 2010 and currently the annual intake is 6. The department has experienced faculty and excellent infrastructural facilities in terms of laboratories, space and computer systems. The Department of Electrical & Electronics Engineering has been accredited TWICE by National Board of Accreditation (NBA), New Delhi. The Department is recognized as Centre for Research by Andhra University, Visakhapatnam and JNTU, Kakinada and 'ONE' of our faculty member recognized Research Co-Supervisor, he is guiding "2" research scholars registered in our research centre. The department promotes research and development in thrust areas like Power System Optimization, Power System Protection, Micro Grid, Load frequency control, Renewable energy, etc..

The department has many laboratories viz. Electrical Machines lab, Networks & Measurements lab, Power Electronics lab, Control systems lab, Logic design and Microprocessors lab, Power System lab, Power System Simulation lab etc., with state-of-art facilities for student practical training and research work. An exclusive computer center with a network of 60 terminals and access to internet caters to the computational needs of this department staff and students. A separate department library with around 1000 volumes is also established for quick reference and information. The student chapters of ISTE and the AEE (Association of Electrical Engineers, a student body of EEE), conducts various programs like seminars, expert lectures, model GATE examinations etc., for excellence in academics and other co-curricular activities. An alumni cell looks after the interaction with the old students of this department.

Students and staff of this department achieve several distinctions every year in terms of results and placements. Many graduating students get admissions in IISc, IITs and other premier institutions around the world for their post graduate studies. The Department has MOU'S with US University Viz Purdue University, Michigin State University, University of Wisconsin Milwaukee, University of Marilane, Marist College, Stevence Institute of Technology, Monmouth University, University of Central Oklahoma. MOU With EVHUB.



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