

SRI VENKATESWARA COLLEGE OF ENGINEERING

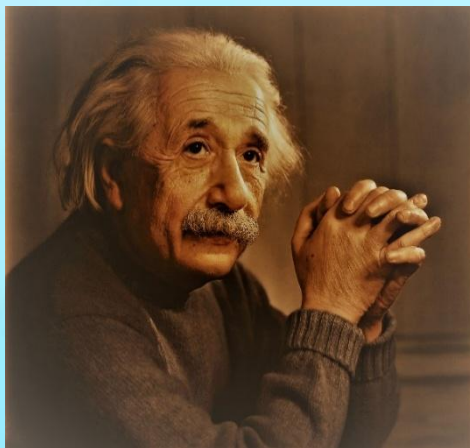
ISSUE: 01

SCIENTIA

2022-23 ODD SEMESTER NEWSLETTER



ELECTRICAL AND ELECTRONICS ENGINEERING



Imagination is more important than knowledge.
For knowledge is limited, whereas imagination
embraces the entire world

Thank you for your Inspiration sir.

He was a thinker who dared to question the obvious, A mind unbound by convention, A heart driven by curiosity, not fame. He saw beauty in simplicity, and found truth in imagination. Most importantly, He remained humble in the face of the universe.

-Albert Einstein

Department of Electrical and Electronics Engineering

Vision of the department

To prepare the learners globally competent, dynamic and multitalented young leaders with skill set & knowledge in Electrical and Electronics Engineering field with a focus on higher education, professional practice, research and technical consultancy competence ethical concern.

Mission of the department

- ◆ To prepare the learners professionally deft and intellectually adept in the field of Electrical and Electronics Engineering with an excellent infrastructure, core values and qualified & experienced teaching faculty.
- ◆ To inculcate skill, knowledge and behavior to cater the dynamic requirements in the field of Electrical and Electronics Engineering.
- ◆ To motivate and prepare the learners for career guidance, placements and higher education with a focus on MoUs with premier institutes and industries.

Program Educational Objectives (PEOs)

- ◆ PEO1: Solve challenging technological issues in the field of Electrical and Electronics Engineering for the betterment of the living standards of the society as valuable and productive engineers.
- ◆ PEO2: Improve the efficiency and effectiveness of the existing methodologies by adapting out-of-the-box rationalized thinking.
- ◆ PEO3: Function ethically and communicate professionally as a team member within multidisciplinary teams.
- ◆ PEO4: Continue the process of lifelong learning to cater the dynamically changing requirements in the field of Electrical and Electronics Engineering.

Program Specific Outcomes (PSOs)

- ◆ PSO1: Design and develop innovative projects using the domain knowledge of Control Systems, Power electronics, Electrical Machines, Microprocessors and Microcontrollers.
- ◆ PSO2: Learn the constantly varying technological developments in their problem solving process.

Message

We, SV College of Engineering provide you the platform to go with.

We give wings; let us fly together for the bright future of yours.

Welcome to world of dreams. Let us help you to achieve your dreams.

Have a good stay in the campus.

Dept. of EEE

Message from HOD

It is with great pride and joy that I extend my greetings through this edition of our Department of Electrical and Electronics Engineering newsletter. This publication serves as a mirror, reflecting the vibrant academic culture, innovative spirit, and collective accomplishments of our department.

The Department of EEE has always been committed to imparting quality education, fostering research, and nurturing innovation. With the rapid technological advancements in areas such as renewable energy systems, electric vehicles, automation, artificial intelligence in power systems, and smart grids, our responsibility as educators and learners is greater than ever. We aim to prepare our students not only to excel in academics but also to become future-ready engineers capable of solving real-world challenges with creativity, responsibility, and integrity.

The newsletter stands as a testimony to these efforts, capturing milestones, innovations, and achievements that motivate us all. I deeply appreciate the hard work of the editorial board and contributors for making this publication a success.

To our students, I wish to emphasize the importance of perseverance, continuous learning, and ethical responsibility. In an era where technology is evolving at an unprecedented pace, success will belong to those who adapt, innovate, and uphold values of humanity and sustainability. Let us all strive together to transform challenges into opportunities and build a brighter future.

I extend my heartfelt wishes to the faculty, students, alumni, and well-wishers of the Department of Electrical and Electronics Engineering. May this newsletter continue to inspire and connect us all in the shared journey of excellence.

Dr. V. Lakshmi Devi
HOD, EEE

Dear Readers,

The newsletter serves as a platform to show case the achievements, innovations, and activities of our department, while also highlighting the academic and extracurricular talents of our students and faculty. Through this publication, we aim to keep our readers informed about the latest developments in the field of Electrical and Electronics Engineering, departmental initiatives, research contributions, and industry trends.

Editorial Board
B. Ramya (IV EEE)
T. Vikram (IV EEE)

Faculty Advisor

Dr. J.A. Baskar, Professor, Dept. of EEE

Result Analysis

IV-II Results [2018-22 Batch]

Number of Students Registered	171	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	152	1	19BF5A0201	Arimbakam Silpa	96
Pass Percentage	88.89	2	19BF5A0214	Dama Pavani Sai	96
		3	18BF1A0273	Narreddy Saini	94
		4	18BF1A0271	Nara Roopa Sri	93.80
		5	18BF1A0285	Rallapalli Bhavya Chowdary	93.40

III-II Results [2019-23 Batch]

Number of Students Registered	196	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	135	1	19BF1A02D2	Sarla Supraja	86.53
Pass Percentage	68.87	2	19BF1A0214	Bandi Raj Krishna Reddy	86.33
		3	19BF1A0256	K Mahesh Choudhary	85.41
		4	19BF1A0283	M Yashaswi	85.41
		5	19BF1A0226	C Sriya	85

II-II Results [2020-24 Batch]

Number of Students Registered	139	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	117	1	20BF1A0234	K Pavithra	95.85
Pass Percentage	84.17	2	20BF1A0240	Kanna Akhila	95.74
		3	20BF1A0225	Ganta Poojitha	95.43
		4	20BF1A0236	Kadapana Kalyani	95.11
		5	20BF1A0251	Nambi Lohitha	94.79



Faculty Learning

JOURNAL PUBLICATIONS

S. No	Name of the faculty	Title of the paper	Name of the Journal / Publisher	Month & Year	Indexing
1	Dr. V Lakshmi Devi	An Enhanced Z-Source Switched MLI Capacitor for Integrated Micro-Grid with Advanced Switching Pattern Scheme	Engineering, Technology & Applied Science Research	Aug 2022	SCI
2	G. Gowthami, NM Girish Kumar, Dr. SudheerKasa, Dr. V. Lakshmi Devi	Mitigation of Power Quality Issues in a Distribution System using PSO tuned Shunt Active Power Filter	International Journal of All Research Education and Scientific Methods	Dec-22	UGC
3	K. Pavan Kumar, K.Yamuna, P. Vinod Kumar, SudheerKasa	Power Quality Improvement in a Wind Energy integrated Three Phase AC System using NN-UPQC Control Strategy	International Journal of All Research Education and Scientific Methods	Dec-22	UGC
4	R. Sai Kiran, Y.V. Krishna Reddy, K. Sudheer	Power Loss Reduction in Distribution System by Network Reconfiguration Using MPSO Algorithm	International Journal of All Research Education and Scientific Methods	Dec-22	UGC

CONFERENCE PUBLICATIONS

S. No	Name of the faculty	Title of the paper	Name of the conference publisher	Month & Year
1	Arava Sudhakar	Reducing Grid Dependency and Operating Cost of Micro Grids with Effective Coordination of RES and EV Storage	International Virtual Conference on Power Engineering Computing and Control (PECCON)	16-Aug-22
2	Dr. P. Suresh	Design and Analysis of Hybrid PV-Battery System with ANFIS Control Strategy for Stand-Alone DC Applications	3 rd National Level Conference on Recent Advances in Technology & Engineering (CRATE-2022)	Oct-22
3	Dr. V Lakshmi Devi, Dr. Kumar K	A renewable energy-based EV charging station model using MATLAB Simulink	3 rd National Level Conference on Recent Advances in Technology & Engineering (CRATE-2022)	Oct-22
4	Dr. P. Suresh	ANN-based Optimal Energy Management Strategy for a Multi-Source System	3 rd National Level Conference on Recent Advances in Technology & Engineering (CRATE-2022)	Oct-22
5	K Raju, Y Hari Krishna	Modeling And Simulation of a Solid-State Transformer in Power Distribution	3 rd National Level Conference on Recent Advances in Technology & Engineering (CRATE-2022)	Oct-22
6	Dr. K Sudheer	IOT Based Smart Energy Optimizer for Electric Vehicles	3 rd National Level Conference on Recent Advances in Technology & Engineering (CRATE-2022)	Oct-22

BOOK PUBLICATIONS

S. No.	Author	Title of the Book	Publisher	Year of Publication
1	Dr. Kumar K, Dr. V Lakshmi Devi, Ramji Tiwari, Avagaddi Prasad and Hanumantha Reddy Gali	Chapter Name: Analysis of Fuel Cell Fed BLDC Motor Drive with Double Boost Converter for Electric Vehicle Application Book title: Smart Grids with Renewable Energy Systems, Electric Vehicles and Energy Storage Systems	CRC Press, Taylor & Francis Group, U.K.,	October, 2022. DOI https://doi.org/10.1201/9781003311195

FACULTY R&D PROPOSALS

S. No	Name of the faculty	Project Title	Project Type	Funding Agency	Amount (Rs.)	Duration	Date
1	Dr.Y.V.Krishna Reddy	Energy Monitoring and Load Controlling by IOT	Research	Council for Social Development	Rs. 1,00,000/-	1 Year	27-07-2022
2	Dr.K.Sudheer	IOT - Based mobile application for monitoring hydroponic vertical farming	Research	Council for Social Development	Rs. 1,00,000/-	1 Year	27-07-2022
3	Dr. V Lakshmi Devi Dr. Kumar K	A Novel Design of Multi-Input Converter with Advanced Controller for Hybridization of Solar and Wind Energy Systems	Research	SERB- POWER	Rs. 29,96,125/-	3 Years	29-09-2022
4	Dr. Kumar K Dr.V Lakshmi Devi	A Novel High Gain Power Converter Design for Fuel Cell Fed Hybrid Electric Vehicles	Research	SERB-SURE	Rs. 29,07,714/-	3 Years	16-09-2022
6	Dr K Sudheer	Fostering Agro-Health Innovation amp up skilling center for youth and rural under privileged villagers	Research	DST-SEED	Rs. 38,65,000/-	3 Years	31-10-2022

PLACEMENTS

S.No	Name of The Student Placed	Enrollment No.	Name of the Employer	Appointment Letter Reference Number With Date
1	Banda Sreedeepti	18BF1A0210	Capgemini	SVCE/EEE/2022/Capg-61
2	Bolloji Srinivas	18BF1A0215	Capgemini	SVCE/EEE/2022/Capg-62
3	Lankipalli Sudhakar Pradeep	18BF1A0262	Capgemini	SVCE/EEE/2022/Capg-63
4	Pula Yaswanth	18BF1A0282	Capgemini	SVCE/EEE/2022/Capg-64
5	Rallapalli Bhavya Chowdary	18BF1A0285	Capgemini	SVCE/EEE/2022/Capg-65
6	Sirigiri Jaswanth	18BF1A0295	Capgemini	SVCE/EEE/2022/Capg-66
7	Bheemisetty Raghu Ram	19BF5A0208	Capgemini	SVCE/EEE/2022/Capg-67
8	Challa Manoj Kumar Reddy	19BF5A0211	Capgemini	SVCE/EEE/2022/Capg-68
9	Ikutti Vishnuvandana	19BF5A0223	Capgemini	SVCE/EEE/2022/Capg-69
10	M V Sunil Kumar	19BF5A0233	Capgemini	SVCE/EEE/2022/Capg-70
11	Sangireddy Nageswari	19BF5A0246	Capgemini	SVCE/EEE/2022/Capg-71

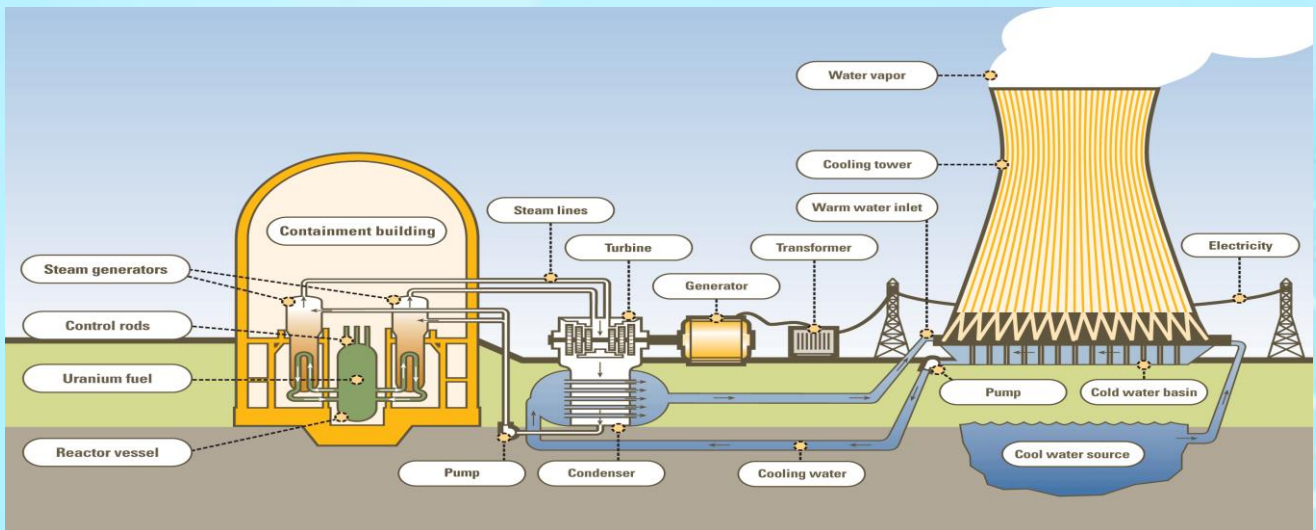
12	Vemuru Jayaprakash	19BF5A0257	Capgemini	SVCE/EEE/2022/Capg-72
13	Bandi Jyotheeswar Reddy	18BF1A0212	Cognizant	SVCE/EEE/2022/CTS-69
14	C Vitesh	18BF1A0218	Cognizant	SVCE/EEE/2022/CTS-70
15	Korivi Prathyush Kumar	18BF1A0248	Cognizant	SVCE/EEE/2022/CTS-71
16	Gada Ganesh	18BF1A0264	Cognizant	SVCE/EEE/2022/CTS-72
17	Matam Mahesh Swamy	18BF1A0265	Cognizant	SVCE/EEE/2022/CTS-73
18	Grandhi Naveen Kumar	18BF1A0266	Cognizant	SVCE/EEE/2022/CTS-74
19	Nara Roopa Sri	18BF1A0271	Cognizant	SVCE/EEE/2022/CTS-75
20	Narreddy Saini	18BF1A0273	Cognizant	SVCE/EEE/2022/CTS-76
21	Nuleti Bhargav	18BF1A0275	Cognizant	SVCE/EEE/2022/CTS-77
22	Pandeeti Manoj Kumar	18BF1A0278	Cognizant	SVCE/EEE/2022/CTS-78
23	Pullagura Lalu Prasad Yadav	18BF1A0283	Cognizant	SVCE/EEE/2022/CTS-79
24	Thokanchi Balachandu	18BF1A02A2	Cognizant	SVCE/EEE/2022/CTS-80
25	Yaddalapuri Vishnu Vardhan	18BF1A02A7	Cognizant	SVCE/EEE/2022/CTS-81
26	Gavireddy Vamsidhar Reddy	19BF5A0219	Cognizant	SVCE/EEE/2022/CTS-82
27	Salavedi Mohan	19BF5A0235	Cognizant	SVCE/EEE/2022/CTS-83
28	Muthukuru Ganesh	19BF5A0236	Cognizant	SVCE/EEE/2022/CTS-84
29	Tokala Kiran	19BF5A0237	Cognizant	SVCE/EEE/2022/CTS-85
30	Narma Muni Kumar Reddy	19BF5A0238	Cognizant	SVCE/EEE/2022/CTS-86
31	Oruganti Jyothirmai	19BF5A0240	Cognizant	SVCE/EEE/2022/CTS-87
32	Salavadi Mohan Vamsi	19BF5A0245	Cognizant	SVCE/EEE/2022/CTS-88
33	C Dheeraj Krishna Yadav	18BF1A0221	Focus Edumatics	SVCE/EEE/2022/Focus-46
34	Kummara Sowmya	18BF1A0249	Focus Edumatics	SVCE/EEE/2022/Focus-47
35	Mukkolla Rahulnath	18BF1A0269	Focus Edumatics	SVCE/EEE/2022/Focus-50
36	Thimmasamudram Nirupama	18BF1A02A0	Focus Edumatics	SVCE/EEE/2022/Focus-51
37	Chelluru Uttej Kumar	19BF5A0212	Focus Edumatics	SVCE/EEE/2022/Focus-52
38	S J Nandini	19BF5A0244	Focus Edumatics	SVCE/EEE/2022/Focus-54
39	Shaik Abdul Aazad	19BF5A0247	Focus Edumatics	SVCE/EEE/2022/Focus-55
40	Shale Pavan Kumar	19BF5A0250	Focus Edumatics	SVCE/EEE/2022/Focus-56
41	Sora Revanth Kumar	19BF5A0251	Focus Edumatics	SVCE/EEE/2022/Focus-57
42	Yeruva Rajakumar	19BF5A0258	Focus Edumatics	SVCE/EEE/2022/Focus-58
43	Gaddam Bhagyalakshmi	19BF5A0217	Focus Edumatics	SVCE/EEE/2022/Focus-59
44	Gollapalem Pavankalyan	19BF5A0221	Focus Edumatics	SVCE/EEE/2022/Focus-60
45	Govindolla Nandeesh	19BF5A0222	Focus Edumatics	SVCE/EEE/2022/Focus-61

STUDENTS ACHIEVEMENTS

S.No	Name of the student	Event	Organized by	Date	Prize (I/II/III)/ Awards
1	M.Sravan	Smart India Heckathon- 2022	Ministry of Education Government of India	25-08-2022 to 26-08-2022	1 ST Prize in Web Coding
2	K.Bhavana	Smart India Heckathon- 2022	Ministry of Education Government of India	25-08-2022 to 26-08-2022	1 ST Prize in Web Coding
3	D.Swetha	Smart India Heckathon- 2022	Ministry of Education Government of India	25-08-2022 to 26-08-2022	1 ST Prize in Web Coding
4	M.Kavya	Smart India Heckathon- 2022	Ministry of Education Government of India	25-08-2022 to 26-08-2022	1 ST Prize in Web Coding
5	C.Deekshitha	Smart India Heckathon- 2022	Ministry of Education Government of India	25-08-2022 to 26-08-2022	1 ST Prize in Web Coding



What is power plant?



A **power plant** (or **power station**) is a facility used to generate and distribute **electricity** for residential, commercial, and industrial use. There are different types of power plants based on the **energy source** they use. Here is an overview:

Types of Power Plants

1. Thermal Power Plant
2. Hydroelectric Power Plant
3. Nuclear Power Plant
4. Solar Power Plant
5. Wind Power Plant
6. Geothermal Power Plant