

SCIENTIA

2020-21 EVEN SEMESTER NEWS LETTER



ELECTRICAL AND ELECTRONICS ENGINEERING



**PAIN REACHES THE
HEART WITH
ELECTRICAL SPEED,
BUT TRUTH MOVES
TO THE HEART
AS SLOWLY
AS A GLACIER.**

Barbara Kingsolver

"Don't take rest after your first victory because if you fail in second, more lips are waiting to say that your first victory was just luck."

-Dr. APJ Abdul Kalam

Department of Electrical and Electronics Engineering

Vision of the department

To prepare the learners globally competent, dynamic and multi talented 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 from HOD

I welcome all the students of the department of Electrical and Electronics Engineering. The objective of department is to prepare students for successful career in industry, research and academics to meet the needs of growing technology.

We provide opportunity for students to work as members of a team on multidisciplinary projects. The department provides students with sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for higher studies as well as research. We are committed to providing not only the technical education to our students but also the leadership qualities through which they can create employment to others.

The department has a team of highly experienced and motivated faculty members who are in the process of turning the young minds to make them globally competitive. Innovation methods of teaching and learning process are adopted to achieve learning abilities through practice, exposure and motivation. Department has an excellent infrastructure and computing facilities and provides a conducive environment to promote academic and research excellence. Above all, the entire teaching fraternity of the Department of Electrical and Electronics Engineering look forward to the holistic growth of the department and they aim at doing something extraordinarily remarkable in the academic arena of Electrical.

Students of our department have bagged prizes in academics as well in co-curricular activities. Students showcase their talent in various sports and intercollegiate technical events. Our graduates are working in multinational companies.

I congratulate the team of faculty members and the students for their brilliant and original efforts.

Dr. K. Sudheer
HOD, EEE

Dear readers,

Schools have reopened, the working-class has adapted to work from home, MBA and Engineering colleges are contemplating ways of bringing students back to campus. It's officially the new normal.

Four years eight semesters of learning is normal college life for most engineering students across the world. However, the Electrical and Electronics department, SVCE Tirupati can't be summed up the same. Innovation and creativity with countless times of breakthroughs and sleepless nights are what make the graduates of SVCE, Tirupati. This comes purely from the research based learning in the campus.

To spread this knowledge that we gain, we the content and design team of EEE association proudly present to you Scientia, the intra-college news letter of Electrical and Electronics, SVCE Tirupati.

Happy reading.....

Editorial Board

JYOTHEESWAR REDDY (IV EEE)

BANDA SREEDEEPTHI (IV EEE)

Faculty advisor

P.VINOD KUMAR, Associate Professor, Dept. of EEE

Result Analysis

IV-I Results [2017-21 Batch]					
Number of Students Registered	210	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	173	1	17BF1A0211	BADVELI BHAVANA	87.88
Pass Percentage	86.02	2	17BF1A02C9	THOTAPALLI PAVITHRA	86.50
		3	18BF5A0237	RAYADURGAM USHA	82.75
		4	18BF5A0216	K RANGA SWAMY	82.63
		5	17BF1A0263	KUDALA SADVIKA	82.13

III-I Results [2018-22 Batch]					
Number of Students Registered	171	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	130	1	18BF1A0285	R BHAVYA CHOWDARY	90.24
Pass Percentage	76.02	2	18BF1A0273	NARREDDY SAINI	87.71
		3	19BF5A0214	DAMA PAVANI SAI	87.11
		4	18BF1A02A4	T SHAKTHI CHAITHANYA	85.78
		5	18BF1A0213	B TANMAI SOWKHYA	85.18

II-I Results [2019-23 Batch]					
Number of Students Registered	196	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	126	1	19BF1A0214	B RAJ KRISHNA	89.77
Pass Percentage	64.29	2	19BF1A0212	BADURU RAMYA	86.51
		3	19BF1A02E4	LAXMIPRIYA	86.51
		4	19BF1A02D2	SUPRAJA	85.58
		5	19BF1A0272	VIDYA	85.58

I-I Results [2020-24 Batch]					
Number of Students Registered	125	S.No.	Roll Number	Name of the Student	Percentage
Number of Students cleared all Subjects	93	1	20BF1A0225	GANTA POOJITHA	96.13
Pass Percentage	74.40	2	20BF1A0251	NAMBI LOHITHA	96.02
		3	20BF1A0234	K PAVITHRA	95.81
		4	20BF1A0240	KANNA AKHILA	95.05
		5	20BF1A02A4	SYED SANA FATHIMA	93.44

FACULTY RESEARCH CONTRIBUTION

S. No.	Author(s)	Paper Title	Journal/Conference
1	Kumar, K., Ramji Tiwari, P. VenkataVaraprasad, ChallaBabu, and K. Jyotheeswara Reddy.	Performance evaluation of fuel cell fed electric vehicle system with reconfigured quadratic boost converter	International Journal of Hydrogen Energy
2	R Sireesha	Islanding arrangement for grid on sensing bad voltage/ bad frequency	Second National Virtual Conference on Recent Advances in Technology & Engineering (CRATE-2021)
3	R. Sireesha, C. Srinivasa Rao, M. Vijaya Kumar	Graph theory based transformation of existing Distribution network into clusters of multiple micro-grids for reliability enhancement	Materialstoday Proceedings
4	Dr. V Lakshmi Devi	Design of Two Stage Solar Energy Conversion using ANFIS based Recurrent Neuro-control Algorithm	International Conference on Electrical Engineering and Control Technologies (ICEECT)

“Nothing is too wonderful to be true if it be consistent with the laws of nature.”

- Michael Faraday

FACULTY RESEARCH CONTRIBUTION

PATENTS PUBLISHED				
S.No.	Author(s)	Title	Publisher	ISSN/ISBN No.
1	Dr. Kumar K, Dr. V. Lakshmi Devi, Mrs. R. Sireesha, Mr. N.M. Girish Kumar, Mrs. B. Banusuriya, Mrs. P. Suneetha, Mr. Y V Krishna Reddy, Mr. Gowtham Chendra	Household Water Usage Auditing, Assessment Report and Scheduling	Indian 202141001828 A	22-01-2021
2	Dr. Raja Reddy. Duvvuru, R. Sireesha, Dr. Luke John Baktha Singh Imma- raju, Dr. Bolla Madhusudhana Reddy, Palleti Venkata Kusuma, M. Manikumar Reddy, Kameswara Vasishta Kumar Kavuturu, Dr. V. Lakshmi Devi, Dr. Varaprasad Janamala, Dr. Koritala Chandra Sekhar	Compact Washing Machine	Indian 339783-001	26-02-2021
3	K.Vishnu Vardhan Reddy, K.Hemanth Kumar, N.Puneeth Kumar, Dr. K. Sudheer, P.Suresh, Dr. D Srinivasulu Reddy, Dr.N.Sudhakar Reddy	Intelligent Range Estimator and Crash Detector for Electric Vehi- cles	Indian 202141002284 A	22-01-2021

BOOKS PUBLISHED				
S.No.	Author(s)	Title	Publisher	ISSN/ISBN No.
1	T Naveen, Kumar K	Performance Analysis of On-Grid Hy- brid Solar and Wind Energy System	LAP LAMBERT Academic Publish- ing	ISBN: 978-620-3- 41091-4 January, 2021
2	K Himabindhu, Kumar K	Analysis of Reduced Switch Seven Level Cascaded Inverter for PV Sys- tem	LAP LAMBERT Academic Publish- ing	ISBN: 978- 620-3- 46289-0 January, 2021

Thanks to all the teaching and non-teaching staff for supporting directly and indirectly for providing opportunities and guidance to get jobs. You have given a walk on red carpet for our future steps. We remember you teachers for spending your valuable time for teaching, training, motivating, inspiring and what not. It means a lot to us. We promise you that we continue the same will in our life. We make you proud. Thank you for everything that we had in the campus....

- K. Ravi Teja (2017-21 batch)

Placements

Our motto: Education for better society

S.No	ROLL.NO	STUDENT NAME	MNC
1	17BF1A0206	A.VAMSI KRISHNA	TCS
2	17BF1A0239	G.BANDHAVYA	TCS
3	17BF1A0240	G.VENKATA RAKESH	TCS
4	17BF1A0253	K HEMANTHKUMAR	TCS
5	17BF1A0262	K.LAVANYA	TCS
6	17BF1A0272	P.V.MALAVIKA	TCS
7	17BF1A0282	M.CHAKRADHAR REDDY	TCS
8	17BF1A0288	N NARASIMHA SAI	TCS
9	18BF5A0212	G.SANDHYA	TCS
10	18BF5A0222	K.MANJULA	TCS
11	17BF1A0211	B.BHAVANA	Capgemini
12	17BF1A0220	C.PRANAY	Capgemini
13	17BF1A0258	KESSAMRDDY YASESWINI	Capgemini
14	17BF1A0266	M.REDDY SHEKAR	Capgemini
15	18BF5A0220	KONETISETTY SAITEJA	Capgemini
16	18BF5A0237	R.USHA	Capgemini
17	17BF1A0201	A. ARUN KUMAR	WIPRO
18	17BF1A0202	A.DIVYA SAI	WIPRO
19	17BF1A0209	A.V.JYOTHSNA	WIPRO
20	17BF1A0212	B.MAHAMMAD IMTIYAZ	WIPRO
21	17BF1A0213	B.FARHEEN TAJ	WIPRO
22	17BF1A0216	B.DHEERAJ KUMAR	WIPRO
23	17BF1A0217	B.POOJITHA	WIPRO
24	17BF1A0227	D.SINDHU	WIPRO
25	17BF1A0231	E.VEKATA SAI DINESH	WIPRO
26	17BF1A0242	G PRAVEEN KUMAR	WIPRO
27	17BF1A0243	I.VINUTHNA	WIPRO
28	17BF1A0245	J KUMAR REDDY	WIPRO
29	17BF1A0246	J BALA MURALI	WIPRO
30	17BF1A0259	KONDREDDY DIVYA	WIPRO

Placements

Our motto: Education for better society

S.No	ROLL.NO	STUDENT NAME	MNC
31	17BF1A0261	KOTAKONDA VENKATESH	WIPRO
32	17BF1A0270	MARRI.LEELA SAI	WIPRO
33	17BF1A0271	MOSURU DIVITHA	WIPRO
34	17BF1A0280	M.CHANDRA SEKHAR	WIPRO
35	17BF1A0281	M.SHANMUKHA REDDY	WIPRO
36	17BF1A0283	M.YASWANTH YADAV	WIPRO
37	17BF1A0299	P AARATHI SARANYA	WIPRO
38	17BF1A02A0	PANNEM SHASHANK	WIPRO
39	17BF1A02C6	SURA SAIVENKAT	WIPRO
40	17BF1A02D2	V.VENKATA GNANESWAR	WIPRO
41	17BF1A02D8	Y.MURALIDHAR REDDY	WIPRO
42	17BF1A02E1	V. SRAVANI	WIPRO
43	17BF1A02E9	MANTHU VEMA REDDY	WIPRO
44	17BF1A02F0	NAGGARI THIRUMALESH	WIPRO
45	18BF5A0205	DARA PALLAVI	WIPRO
46	18BF5A0218	K.GEETHANJALI	WIPRO
47	18BF5A0226	M. PRASAD	WIPRO
48	18BF5A0229	NAKKALA KUMAR REDDY	WIPRO
49	18BF5A0230	N NAVEEN KUMAR	WIPRO
50	18BF5A0231	N.KUSUMA	WIPRO
51	18BF5A0239	SEERAM VAMSIKRISHNA	WIPRO
52	18BF5A0240	SHAIK REHMAN	WIPRO
53	18BF5A0241	SINGILESU ANAND	WIPRO
54	18BF5A0242	SUCHARITHA PALACHURI	WIPRO
55	18BF5A0244	T MAHENDRA	WIPRO
56	18BF5A0245	V PAVANKUMARREDDY	WIPRO
57	18BF5A0246	V.RAM PRASAD	WIPRO
58	18BF5A0247	V.VENKATA SREEKANTH	WIPRO
59	17BF1A0210	B.SWATHI	INFOSYS
60	17BF1A0235	G.MAHESH	INFOSYS
61	17BF1A0244	JAMALLA SUJANA	INFOSYS
62	17BF1A0254	KASARU PAVANI	INFOSYS
63	17BF1A0256	K GARI KAVYANJANI	INFOSYS
64	17BF1A0269	MAHENDRAN POOJA	INFOSYS
65	17BF1A0274	Y.SUJITHA	INFOSYS
66	17BF1A0286	NAGINENI.GAYATHRI	INFOSYS
67	17BF1A0292	P.HEMANTH	INFOSYS
68	17BF1A02A2	PASUPULETI SA	INFOSYS

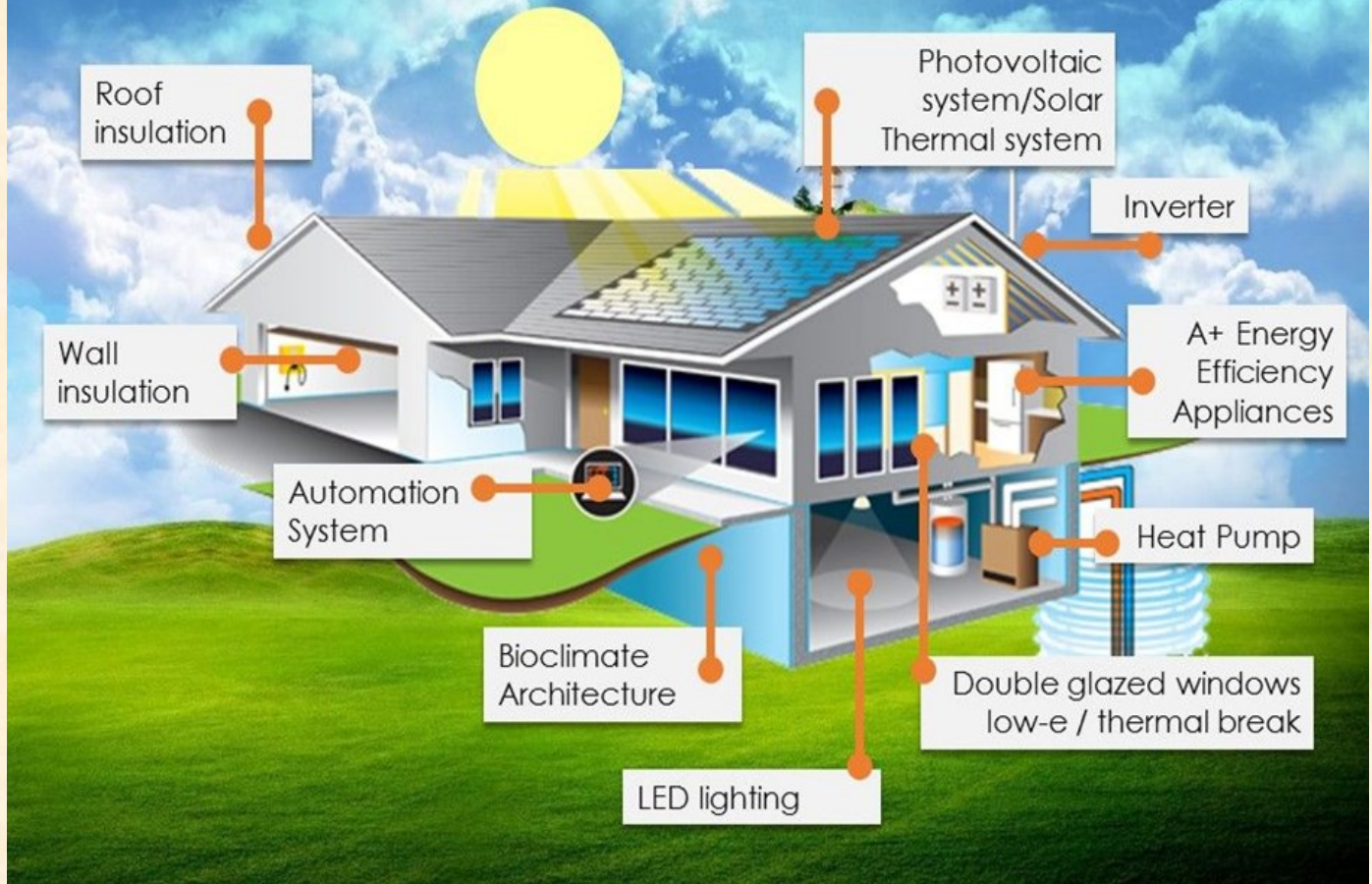
Student Achievements

Sl. No.	Roll number	Name of the Student	Event	Organized By	Date	Prizes (I/II/III)/ Awards
1	20BF5A0208	K Sunil Kumar	Avishkar-2021	Srirama Engineering College, Tirupati	09-03-2021	I Prize Quiz
2	19BF1A0236	D.K. Varshini	Avishkar-2021	Srirama Engineering College, Tirupati	09-03-2021	I Prize Quiz
3	19BF1A0279	S.Thanuja	Avishkar-2021	Srirama Engineering College, Tirupati	09-03-2021	I Prize Quiz
4	18BF1A0212	B. Jyotheeswar Reddy	National Level Quiz	Sreenidhi Institute of Science and Technology, Hyderabad	07-07-2020	Secured 3rd Prize
5	18BF1A0254	M. Kesava Datta	National Level Quiz	Sreenidhi Institute of Science and Technology, Hyderabad	07-07-2020	Secured 3rd Prize
6	18BF1A0271	M. Roopa Sri	National Level Quiz	Sreenidhi Institute of Science and Technology, Hyderabad	07-07-2020	Secured 3rd Prize

Student Participations

S.No.	Roll Number	Name of the Student	Event	Organized By	Date	Participants
1	17BF1A0218	C. Chethan Kumar	TECH-PRO (National Level Online Project Competition)	Maharashtra Institute of Technology, Aurangabad	15-06-2020	Participated
2	18BF1A02A4	T.Shakthi Chaithanya	National Level Coding Competition	Ramrao Adik Institute of Technology, Maharashtra	08-06-2020 to 16-06-2020	Completed
3	19BF1A0202	A. Raju	Student Project Programme	Karnataka State Council For Science and Technology	21-09-2020	Participated Certificate
4	20BF5A0201	A. Ravitheja	Student Project Programme	Karnataka State Council For Science and Technology	21-09-2020	Participated Certificate
5	19BF1A0241	E. Sumanth	Quiz	The Oxford College Of Engineering, Bangalore	02-06-2020	Participated in Quiz Competition
6	20BF5A0208	K Sunil Kumar	Quiz	The Oxford College Of Engineering, Bangalore	02-06-2020	Participated in Quiz Competition
7	19BF1A0236	D.K. Varshini	Quiz	The Oxford College Of Engineering, Bangalore	02-06-2020	Participated in Quiz Competition
8	18BF1A0263	M.Balaji	Project Exhibition-2020	GSSS Institute of Engineering and Technology of Women	12-08-2020	Participated in Project Expo
9	18BF1A0203	A.Vaishnavi	Project Exhibition-2020	GSSS Institute of Engineering and Technology of Women	12-08-2020	Participated in Project Expo
10	18BF1A0271	M. Roopa sri	Project Exhibition-2020	GSSS Institute of Engineering and Technology of Women	12-08-2020	Participated in Project Expo
11	19BF1A0222	B.Jaya Keerthana	National Level Quiz Contest - 2021	Bharat Institute Of Engineering & Technology	14-06-2021	Participated certificate

Zero Energy Building



Renewable energy is energy derived from natural resources that replenish themselves in less than a human lifetime without depleting the planet's resources. These resources – such as sunlight, wind, rain, tides, waves, biomass and thermal energy stored in the earth's crust – are available in one form or another nearly everywhere. They are virtually inexhaustible. And, what is even more important, they cause little climate or environmental damage.

Fossil fuels such as oil, coal, and natural gas on the contrary are available in finite quantities only. As we keep extracting them, they will run out sooner or later. Although produced in natural processes, fossil fuels do not replenish as quickly as we humans use them.

Key benefits of renewable energy for people and the planet

Renewable energy emits no or low greenhouse gases. That's good for the climate.

Renewable energy emits no or low air pollutants. That's better for our health.

Renewable energy comes with low costs. That's good for keeping energy prices at affordable levels.

Renewable energy makes the energy system resilient. That's important to prevent power shortages.

Renewable energy is accessible to all. That's good for development.

Renewable energy is secure. That's good for stability.

Save Fuel : Save Energy

~ Editorial Board