

# SCIENTIA

2021-22 ODD SEMESTER NEWS LETTER



## ELECTRICAL AND ELECTRONICS ENGINEERING



It is not about caste or religion  
It is not about state or language  
It is not about the color or position  
It is all about the dedication and passion  
It is all about for the motherland  
**Thank you for your inspiration sir.**

Jai hind

Let me define a leader

He must have vision and passion and not be afraid of any problem. Instead he should know how to defeat it. Most importantly, he must work with integrity.

-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**

BANDI JYOTHEESWAR REDDY (IV EEE)

AMURI VAISHNAVI (IV EEE)

**Faculty advisor**

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

# Result Analysis

## IV-II Results [2017-21 Batch]

Number of Students Registered	209
Number of Students cleared all Subjects	186
Pass Percentage	89.00

S.No.	Roll Number	Name of the Student	Percentage
1	17BF1A0211	BADVELI BHAVANA	95.20
2	17BF1A0262	KOTILINGALU LAVANYA	91.80
3	18BF5A0232	P VENKATESH	90.40
4	18BF5A0227	M SURESH KUMAR REDDY	90.20
5	17BF1A0239	GUNDURU BANDHAVYA	90.00

## III-II Results [2018-22 Batch]

Number of Students Registered	171
Number of Students cleared all Subjects	111
Pass Percentage	64.91

S.No.	Roll Number	Name of the Student	Percentage
1	18BF1A0285	R BHAVYA CHOWDARY	89.58
2	18BF1A02A4	T SHAKTHI CHAITHANYA	86.28
3	18BF1A0210	BANDA SREEDEEPTHI	86.25
4	18BF1A0273	NARREDDY SAINI	85.34
5	18BF1A0207	AUMBARAPU ASHA	84.96

## II-II Results [2019-23 Batch]

Number of Students Registered	195
Number of Students cleared all Subjects	115
Pass Percentage	58.97

S.No.	Roll Number	Name of the Student	Percentage
1	19BF1A02D2	SARLA SUPRAJA	87.20
2	19BF1A0230	CHILLAKURU LOHITHA REDDY	84.62
3	19BF1A0226	C SRIYA	84.30
4	19BF1A0240	ETHAMAKULA THANUJA	83.98
5	19BF1A0258	K RUCHITHA	83.44



## FACULTY RESEARCH CONTRIBUTION

S. No.	Author(s)	Paper Title	Journal/Conference
1	Venkatasupura Vemulapati	Prototype Model for High Speed Railway Power Supply System Suitable for Indian Traction Sub Stations using Multi Modular Converter	Turkish Journal of Computer and Mathematics Education (TURCOMAT)
2	R. Sreeshha, C. Srinivasa Rao, M. Vijaya Kumar	Reliability Assessment of Decentralized Multi Microgrid Distribution Networks	INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING
3	V V Supura	Implementation of Multi-Modular Converter with Droop characteristics for High Speed Railway Traction System	CVR Journal of Science and Technology
4	A.Sudhakar	Crow Search Algorithm Used to Solving Optimal Power Flow	The International journal of analytical and experimental modal analysis
5	R Sireesha	Islanding Arrangement For Grid On Sensing Bad Voltage/ Bad Frequency	Second National Virtual Conference On "Recent Advances In Technology & Engineering
6	V V Supura	Laboratory Prototype Model of a High Speed Railway Supply System for Performance Enhancement with Multi Module Converter in Indian Railways	Proceedings of the International Conference on Smart Data Intelligence (ICSMDI 2021)

Any one who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young.

- Henry Ford

## FACULTY RESEARCH CONTRIBUTION

PATENTS				
S.No.	Inventor(s)	Title	Institute/Agency	Status/Date
1	Mr. V V Supura Dr. N Visali Dr. Y N Vijaykumar Dr. Shaik Rafi Kiran Mrs. P. Suneetha Mr. Dandu Srinivas Dr. V Sekhar Mr. P VenkataVaraprasad Dr. Avagaddi Prasad Dr. K. Harshavardhana Reddy Dr. Kumar K	Droop Characteristics Based Power Supply for Electric Traction System	Indian 202141040185 A	17-09-2021

BOOKS PUBLISHED				
S.No.	Author(s)	Title	Publisher	ISSN/ISBN No.
1	Dr.RajaReddy.D, R.Sireesha, Dr.V.Lakshmi Devi	Constant Load and Constant power operation based standalone photovoltaic system	AkiNil Publications	ISBN: 978-93-90846-55-9, DOI: <a href="https://doi.org/10.22271/ed.book.1220">https://doi.org/10.22271/ed.book.1220</a> 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....

- M. Mahesh Swamy (2018-22 batch)

# Placements

*Our motto: Education for better society*

S.No	Roll .No	Name of the Student	Name of the Company
1	17BF1A0223	D.CHITRA SWETHA	Accenture
2	17BF1A0233	G MUNIKUMAR	Accenture
3	17BF1A0236	G.DHARANIDHAR	Accenture
4	17BF1A0250	K JYOTHIPRAKASH	Accenture
5	17BF1A0257	KATTAMANCHI RAVI TEJA	Accenture
6	17BF1A0260	K SASI KUMAR REDDY	Accenture
7	17BF1A0263	KUDALA SADVIKA	Accenture
8	17BF1A0268	MADINENI SAI KUMAR	Accenture
9	17BF1A0276	M.JASWANTH REDDY	Accenture
10	17BF1A0277	MANERI THULASI KUMAR	Accenture
11	18BF5A0203	B CHANDRAN CHIRANJEEVI	Accenture
12	18BF5A0238	S.LAVANYA	Accenture
13	18BF5A0224	M.MUKESH	DELOITTE
14	17BF1A0204	A LAKSHMI PRIYANKA	MINDTREE

# Placements

*Our motto: Education for better society*

S.No	Roll .No	Name of the Student	Name of the Company
15	17BF1A0221	C.HEMADRI	MINDTREE
16	17BF1A0225	D.NARENDRA	MINDTREE
17	17BF1A0237	G.BALAJI	MINDTREE
18	17BF1A0273	T.SAI SHILPA AASHLESH	MINDTREE
19	17BF1A0284	N.SRAVAN KUMAR	MINDTREE
20	17BF1A0290	N SAI VENKATA NIKHIL	MINDTREE
21	17BF1A0296	PAKKALA DIVYA	MINDTREE
22	17BF1A02A5	PAYALA CHANDANA	MINDTREE
23	17BF1A02B8	S. HEMACHANDRA KANTH	MINDTREE
24	17BF1A02C7	SYED MOHAMMAD RAFI	MINDTREE
25	17BF1A02D3	VADDEMANASA	MINDTREE
26	17BF1A02A3	P CHANDRA SEKHAR	KPIT
27	17BF1A0228	DOULATH RIYAZ RAFIYA	Sutherland
28	17BF1A0293	P PHILLIPS RAJAN	Sutherland



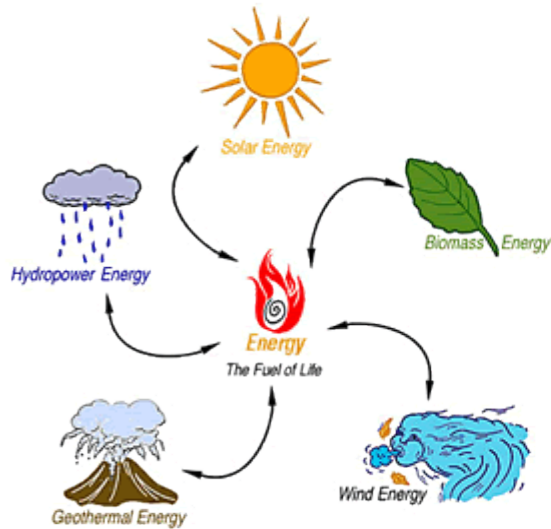
# Student Participations

S. No.	Roll number	Name of the Student	Event	Organized By	Date
1	18BF1A0212	B. Jyotheeswar Reddy	E-Quiz -2021	K.S.Rangasamy College of Technology , TamilNadu	20-07-2021
2	19BF1A0202	A. Raju	E-Quiz -2021	K.S.Rangasamy College of Technology , TamilNadu	20-07-2021
3	19BF1A0228	C. Harika	Quiz -2021	K.S.Rangasamy college of Technology, TamilNadu	20-07-2021
4	19BF1A0261	K.Charan Kumar	E-Quiz -2021	K.S.Rangasamy college of Technology, TamilNadu	20-07-2021
5	19BF1A0254	K Anudeep	Paper Presentation-2021	Saveetha College Engineering,Chennai	21-06-2021
6	20BF5A0225	T.Likitha	Paper Presentation-2021	Saveetha College Engineering,Chennai	21-06-2021
7	20BF5A0226	U. Ram varun Reddy	Paper Presentation-2021	Saveetha College Engineering,Chennai	21-06-2021
8	19BF1A0202	A. Raju	Paper Presentation-2022	Saveetha College Engineering,Chennai	21-06-2021
9	20BF5A0215	S. Mansoor Basha	Paper Presentation	Saveetha College Engineering,Chennai	21-06-2021
10	19BF1A02E2	Sowmya Shree S	Paper Presentation-2021	Saveetha College Engineering,Chennai	21-06-2021
11	19BF1A0279	K. Thanuja	E Paper Presentation	SRM Institute Of Science and Technology,Ramapuram	30-10-2021
12	19BF1A0262	K. Bhanu Prakash	E Paper Presentation	SRM Institute Of Science and Technology,Ramapuram	30-10-2021
13	19BF1A0253	J. Siva Sai	E Paper Presentation	SRM Institute Of Science and Technology,Ramapuram	30-10-2021
14	20BF5A0223	Y.Siva	E Paper Presentation	SRM Institute Of Science and Technology,	30-10-2021
15	19BF1A02E4	S. Lakshmi Priya	Tornados Quiz	FIITJEE, Chennai	11-12-2021
16	19BF1A02C8	S. Fathima Mobin	Tornados Quiz	FIITJEE, Chennai	11-12-2021
17	19BF1A02G2	V. Akhila	Tornados Quiz	FIITJEE, Chennai	11-12-2021
18	19BF1A0222	B. Jaya Keerthana	Quiz	Dhaanish Ahmed Institute Of Technology, Coimbatore	13-10-2021
19	19BF1A0272	K. Vidhya Chowdary	Quiz	Dhaanish Ahmed Institute Of Technology, Coimbatore	13-10-2021

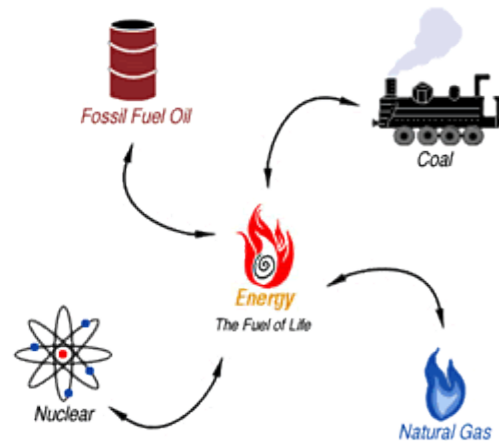
# Student Participations

Sl. No.	Roll number	Name of the Student	Event	Organized By	Date	Prizes (I/II/III)/ Awards
1	19BF1A0237	E Dinesh	Mekeathon 2.0	JNTUA, Anathapuramu	02-10-2021	Secured 1st prize
2	18BF1A0265	Matam Mahesh swamy	Mekeathon 2.0	JNTUA, Anathapuramu	02-10-2021	Secured 1st prize
3	19BF1A0228	C. Harika	Electric Mantra E-Project Expo 2021	Annamacharya Institute of Technology and Sciences, Rajampet	17-07-2021	Received 2nd Prize in Project Expo
4	19BF1A0254	K Anudeep	Electric Mantra E-Project Expo 2021	Annamacharya Institute of Technology and Sciences, Rajampet	17-07-2021	Received 2nd Prize in Project Expo
5	19BF1A02C1	P.D.Reshma	Dhaanishyam-2021,Quiz	Dhaanish Ahmed Institute of Technology, Coimbatore	13-10-2021	Secured 1st prize
6	19BF1A0202	A. Raju	Dhaanishyam-2021,Quiz	Dhaanish Ahmed Institute of Technology, Coimbatore	13-10-2021	Secured 1st prize
7	19BF1A0202	A. Raju	Paper Presentation	Loyola Institute of Technology, Chennai	21-06-2021	Secured 1st Prize
8	20BF5A0217	S.Gayathri	Paper Presentation	Loyola Institute of Technology, Chennai	21-06-2021	Secured 1st Prize
9	20BF1A0204	A. Dhronika Reddy	Paper Presentation	Loyola Institute of Technology, Chennai	21-06-2021	Secured 1st Prize

## Renewable Energy

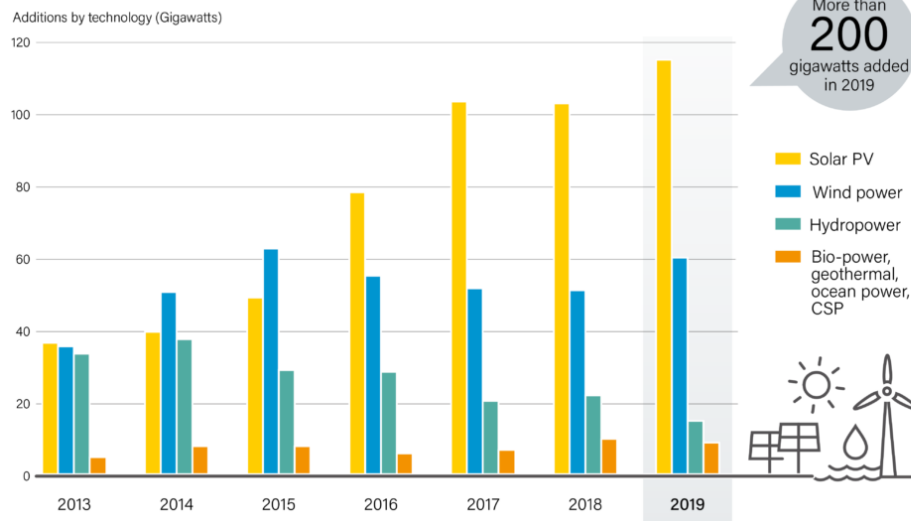


## Non-Renewable Energy



### What is renewable energy?

Annual Additions of Renewable Power Capacity, by Technology and Total, 2013-2019



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