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R. R. Institute of Technology



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Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical and Electronics Engineering

Volume - 5 Issue - 1

“EnEErgy”

March 2021

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Principal's Desk

It is a matter of great pride and satisfaction for R R INSTITUTE OF TECHNOLOGY to bring out the News Letter 'ENERGY' released from the Department of Electrical and Electronics Engineering. The College has made tremendous progress in all areas academic, non-academics, capacity building relevant to staff and students. The College has achieved another milestone in getting NACC Accreditation. I am confident that this issue of Department News Letter will send a positive signal to the staff, students and the person who are interested in the Technical education and Technology based activities. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by a Department and develops writing skills among students in particular and teaching faculty in general. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in Record time. I express my deep sense of gratitude to Dr.Sunitha H D, HOD under whose guidance this Technical work has been undertaken and completed within the stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort. With Best Wishes-



Dr. Mahendra. K. V
Principal,
R R Institute of Technolog

HOD's Desk

I am very pleased to unveil Vol 5, Issue 1 of our department newsletter “EnEErgy”. In this issue, we have presented the news related to diverse activities conducted by the department and also contributions and achievements of our faculty members and students-Dr.Sunitha H D, HOD-EEE, RRIT



Vision:

To become nationally recognized department by imparting core values, ethics and promoting excellence for overall development of our graduates

Mission:

- * To create an environment that facilitates learning the fundamentals of Electrical Engineering.
- * To impart the knowledge in Electrical Circuits, Power Systems, Electrical Machines, Power Electronics, Electrical Drives and Non-conventional Energy Systems.
- * To provide premier education, through dedicated teaching, innovation and research
- * To cater to practical issues by adapting to technical economic and social trends.
- * To prepare students to face challenges in the global environment.

EDITOR:

DR. MANGALA GOWRI S G
Associate Professor,
Dept. of EEE,RRIT



1. Seminar on “Modeling and Simulation of Power Systems”

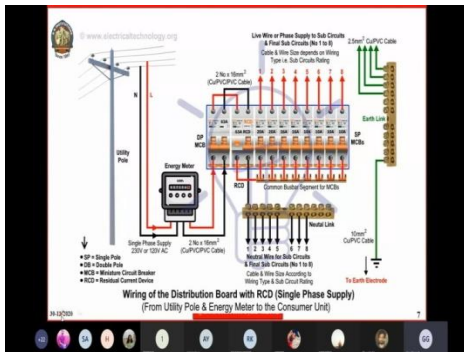
The Seminar on “Modeling & Simulation of Power Systems” was organised on **06/11/2020**. **Resource Person was Dr. Jayapal R, Professor and Principal of RVITM, Bangalore.** This seminar was organized to give an understanding of modeling the power systems and simulation, Simulink model of multimachine power system for non-linear equation, the linear model of multimachine power system, Simulink-based package program for modeling, simulating and analyzing multi-machine power systems, realization of Differential and Algebraic Equations (DAE) and non-linear elements of transient simulation. Newton’s Method to solve Steady state Network analysis equations. **36 students of EEE attended the seminar.** The students found the session very informative and suggested more events like this.

2. Online Awareness Seminar on “Electrical Safety”



A Seminar on “Electrical Safety” on **18/11/2020** for the students of **3rd sem, 5th sem and 7th sem** of EEE department was organised. **The Resource Person was Dr. Sunitha. H.D, Professor and Head of ECE and EEE Dept. RRIT, Bangalore.** **The Objective of the Seminar was based on the importance** of electricity safety and its role to cutting down risks of fire and electric shock in the electric utilities and commercial, educational, industrial and health facilities, to protect peoples and premises and reduce human and economic losses. The session was informative and **43 students of EEE** attended the awareness seminar. The students found the session very informative and suggested more events.

3. Online Certificate Program on “Electrical Services”



An Online Certificate Program on “Electrical Services” was conducted on **23-11-2020 to 04-12-2020**. The importance of this program was to highlight on the systems installed in buildings to make people staying comfortable, functional, efficient and safe. This includes fire safety, HVAC(Heating Ventilation and air conditioning), lighting, plumbing, ICT. Electrical services engineers influence a building’s architecture and can have considerable influence on the sustainability and energy demand of a building as well as health and well being of its occupants. The Resource persons were **Dr. Sunitha H D, Professor & Head of ECE and EEE, RRIT, G. Gowtham, Assistant Professor, Department of EEE, RRIT, Ramachandra. C, Assistant Professor, Department of EEE, RRIT.** **48 students** were benefitted by the Certificate Program.

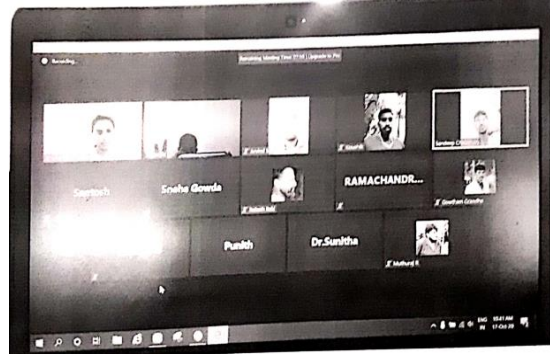
4. Online Seminar on “V2X: The future of Vehicle Communication”

The Department of Electrical and Electronics Engineering organized a Seminar on “V2X: The future of vehicle communications” on **23/12/2020** for the students of **3rd sem, 5th sem and 7th sem.** The Resource Person was **Dr. B N Manjunath Reddy, Professor, Dept of ECE, Global Academy of Technology, Bangalore- 560098.** The importance of this seminar was to mainly focus on the safety of vehicles. The Vehicle-to-everything (V2X) is a technology that allows vehicles to communicate with moving parts of the traffic system around which conveys important information to the driver regarding nearby accidents, road conditions and the dangerous activities of nearby vehicles. **42 students of EEE attended the seminar.** The students found the session very informative and suggested more events like this.



5. Online Alumni meet

Online Alumni meet was conducted on 17th October 2020. The students of EEE gave few suggestions to conduct more soft skill programs in the department. They suggested for the conduction of skilled workshop and seminars . They wanted to learn programming of various languages like C++, java, Python, to conduct SDP's for programming. They are ready to come to college to give expert talks to their juniors in various fields of Electrical and Electronics.



Paper Presentation and Publications:





1. **Dr. Sunitha H.D. & Dr. Mangala Gowri S. G**, Published a paper titled “EEG signal classification using dual tree wavelets” in Sambodhi (UGC care journal) Vol-43,2249-6661 with impact factor of 5.8.
2. **Niranjan L, Sneha S Gowda, Nahetrivelo Mahitasa Victoria, Ganthimarri Supriya**, Published a paper titled “**Design and Development of Free Space Optical Communication System for Transmitting Data & Voice**”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; IC Value: 45.98; SJ July 2020
3. **R Navaneetha Krishna, Niranjan L, N Shyamsundar, Dr. C Venkatesan** , Published a paper titled “**IOT Based Transmission Line Fault Monitoring System**”, International Journal of Research and Analytical Reviews (IJRAR), Volume 7, Issue 3, E-ISSN 2348-1269, August 2020









Department Topper:



Sneha. S. Gowda
1RI16EE0017
88%

Semester Toppers:

Toppers	Year	Students Photos	Name of the Student	USN	% Marks
1st Topper	IV		Santosh Kumar Singh	1RI16EE015	85
	IV		Koushik Das	1RI16EE007	84.5
	II		Bharath kumar K	1RI18EE004	81
	III		Bidhya chhetri	1RI17EE002	82.1

	I		Dheeraj K	1RI19EE004	81
2nd Toppers	I		Raushan Kumar shrivastav	1RI19EE006	80.5
	I		Sneha Josephin	1RI19EE009	80.5
	III		Ruchitha S	1RI17EE010	79.1
	I		Rupesh Kumar Sah	1RI19EE007	78.5
	III		Sikindra kumar thakur	1RI17EE013	76.6%
3rd Topper	II		Mohammad safiullah musalman	1RI17EE010	76.3
	II		Gagan kumar	1RI18EE007	74.3

Students Placement:

The following students are selected as interns for SPR Human capital Solutions through campus placement with a package of Rs.21000/- per month. The department congratulates both .

1. Pratik Choudhary
2. Arun Prasad Yadav

