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R. R. Institute of Technology



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Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 09

Department of Electrical and Electronics Engineering

Volume 7-Issue 1

“EEnErgy”

March 2023

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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 “*EEnErgy*” released by the Department of Electrical and Electronics Engineering. The College has made tremendous progress in all areas of 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
R R Institute of Technology
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HOD 's DESK



Dr. Shivakumara Swamy R

HOD,,Dept of EEE

RRIT,Bengaluru

I am very pleased to unveil Vol 7, Issue 1 of our department newsletter “Energy”. In this issue, we have presented the news related to diverse activities conducted by the department and also contributions.

Vision

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

Mission

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

Events Organized

1. A SDP on “solar energy and its applications in current scenario” was organized by the Department of Electrical & Electronics Engineering for 3rd, 5th & 7th semester students on 21st & 22nd November 2022.

Objectives of the SDP:

- To impart knowledge about solar energy and innovations done in solar applications.
- To know about job opportunities & entrepreneurship opportunities in solar energy.

44 students were benefitted from SDP & they were very much impressed about innovative applications of solar energy. Looking forward for career in solar energy.

2. An Industry visit to “Arrow power control” No1, G.R. mariappa layout, Chikkabanavara, Bengaluru, Karnataka 560090, was organized by the EEE department for the 3rd & 5th semester students on 17/11/2022.

All participated students of EEE department were benefitted by the industrial visit and had a glimpse of actual assembly of power electronic converters used, techniques employed. The following faculties had accompanied.

1. Sowmya G J, Asst professor, EEE Dept.
2. Anusha D Y, Asst professor, EEE Dept
3. Nirmala S H, Foremen, EEE Dept.

3. An industry visit to “sai ram power controls” #14, Lakshmaiah industrial layout, Abbigere village, Bengaluru, Karnataka 560090 was organized by the EEE department for the 3rd and 5th semester students on 17/11/2022.

All participated students of EEE department were benefitted by the industrial visit and had a glimpse of actual assembly of power transformer and distribution transformer. The following faculties had accompanied

1. Sowmya G J, Asst professor, EEE Dept.
2. Anusha D Y, Asst professor, EEE Dept
3. Nirmala S H, Foremen, EEE Dept.

4. An industry visit to “Purlin Automation India Pvt Ltd.” 77, 3rd cross, near Pavithra school, Sridevi layout, Medaralli, Chikkabanavara, Bengaluru, Karnataka 560090 was organized by the EEE department for the 3rd and 5th semester students on 17/11/2022.

All participated students of EEE department were benefitted by the industrial visit and had a glimpse of actual assembly of power electronic converters used, techniques employed. The following faculties had accompanied

1. Sowmya G J, Asst professor, EEE Dept.
2. Anusha D Y, Asst professor, EEE Dept
3. Nirmala S H, Foremen, EEE Dept.



Myadarahalli, Karnataka, India
Main Block, RR Institute Of Technology, Medaralli, Chikkabanavara, Myadarahalli,
Karnataka 560090, India
Lat 13.070374°
Long 77.511114°
21/11/22 12:39 PM GMT +05:30



3GF9+G9V, Medaralli, Chikkabanavara, Bengaluru, Karnataka
560090, India
Latitude 13.073904° Longitude 77.5184082°
Local 10:49:26 AM GMT 05:19:26 AM Altitude 0 meters
Thursday, 17-11-2022



Site No 22, near Rainbow School, Basaveshwara Layout,
Kereguddadahalli, Chikkabanavara, Bengaluru, Karnataka 560090,
India
Latitude 13.0752303° Longitude 77.5166163°
Local 10:55:50 AM GMT 05:25:50 AM Altitude 0 meters
Thursday, 17-11-2022





5. An Industry visit to “Sri vankateshwara Technologies”#10,Kempalinganalli,Kasaba hobli,Nelamangala taluk,Bengaluru, Karnataka was organized by the EEE department for the 3rd & 5th semester students on 23/11/2022

All participated students of EEE department were benefitted by the industrial visit and had a glimpse of class Ac/Dc drive panels, capacitor panels,solar panels and control desks.The following faculties had accompanied

- 1.Sunanada C.V,Asst professor,EEE Dept.
- 2.Anusha D Y ,Asst professor,EEE Dept.
- 3.Goutham G ,Asst professor,EEE Dept.



6.An Industry visit to “S B Power systems” No 23/1,Kempalinganalli,Kasaba hobli,Nelamangala taluk,Kunigal road ,Bengaluru, Karnataka was organized by the EEE department for the 3rd & 5th semester students on 23/11/2022.

All participated students of EEE department were benefitted by the industrial visit and had a glimpse of designing and development of auto synchronizing panels.The following faculties had accompanied

- 1.Sunanada C.V,Asst professor,EEE Dept.
- 2.Anusha D Y ,Asst professor,EEE Dept.
- 3.Goutham G ,Asst professor,EEE Dept.



7.An Industry visit to “Vintek Control Systems”KIADB Industrial area,Nelamangala taluk,Bengaluru, Karnataka was organized by the EEE department for the 3rd & 5th semester students on 23/11/2022.

All participated students of EEE department were benefitted by the industrial visit and had a glimpse of designing and development of panels.The following faculties had accompanied

- 1.Sunanada C.V,Asst professor,EEE Dept.
- 2.Anusha D Y ,Asst professor,EEE Dept.
- 3.Goutham G ,Asst professor,EEE Dept.



8.Department of Electrical and Electronics Engineering had arranged an Industrial visit on 01/12/2022 for the students of 5th & 7th semester EEE to Nelamangala Receiving station 400/220kV.

25 students from 5th and 7th semester EEE were benefitted from the industrial visit. The students were able to understand the different components and equipment used in various levels of transmission and distribution process including protective schemes The following faculties had accompanied

- 1.Sunanada C.V,Asst professor,EEE Dept.
- 2.Pradeesha J ,Asst professor,EEE Dept.
- 3.Goutham G ,Asst professor,EEE Dept.



9. The Department of Electrical and Electronics Engineering had organized five days Certificate course on “Python Programming with Application Projects & Solutions”, from 09/01/2023 to 03/01/2023 for the students of 5th semester and 3rd semester EEE students.

A total of 51 students from the department of EEE were benefitted. Students were evaluated on basis of assignments and certificates were awarded. Students found the CERTIFICATE PROGRAM very informative which aids them for mini projects, main projects and job opportunities from PYTHON.

By the certification course, the students are benefitted by learning the new modern tool. This modern tool can be used for societal applications like the traffic, health care projects.

10. The Department of Electrical and Electronics Engineering had organized two days Hands on workshop on “Microcontrollers for Embedded Systems”, on 02/01/2023 & 03/01/2023 for the students of 5th sem EEE.

10 students from 5th sem EEE were benefitted from the workshop and the students found the session very informative and suggested to conduct more events like this. The session has also received overwhelming response and impressive feedback from the students.



Paper Publications

1. Prof. Jhansi K presented and published a paper titled “Development of Fire Detection surveillance using machine learning & IoT,” 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), Mysuru, India, 2022, pp. 1-6, <https://doi.org/10.1109/MysuruCon55714.2022.9972725>.

2. Prof. Madhavi Dasari, published a paper titled “Analysis and Comparison of UPQC based on neurofuzzy based SVPWM controller” in a journal Advanced Engineering Science, Volume 55, Issue 01, January, 2023, ISSN: 2096-3246 <https://advancedengineeringscience.com/article/2023/441.html>

3. Pradeesha J, Gowtham G, Sunanda C V published a paper titled “Low Power FPGAs Fine Supply Voltage Control” The International journal of analytical and experimental modal analysis, Volume XIV, issue VII, July 2022, ISSN No: 0886-9367.

4. Gowtham G, Sunanda C V, Pradeesha J, published a paper titled “Battery/Super Capacitor Hess Used in Electric Vehicles by Sliding Mode Based Control” The International journal of analytical and experimental modal analysis, Volume XIV, issue VII, July 2022, ISSN No: 0886-9367.

5. Sunanda C V, Pradeesha J, Gowtham G published a paper titled “Hybrid Renewable Power System Design Using Solar, Piezo Electric and Wind Energy” The International journal of analytical and experimental modal analysis, Volume XIV, issue VII, July 2022, ISSN No: 0886-9367.

6. Madhavi Dasari, Ujjal Sarkar, Afsal A, Suhaib MM published paper titled “3 Arduino Based Driver Drowsiness Detection and Alerting System” 2nd International Conference on Research trends in Engineering & management, ICRTEM-22, ISBN : 978-93-92105-01-2 which held on Aug 2022.

7. Sowmya. G. J., Dheeraj K, Rupesh Kumar Sah, Sneha Joesphin, Dhanush S published paper titled “Electric Grass Cutter with IoT Based Battery Monitoring System” 2nd International Conference on Research trends in Engineering & management, ICRTEM-22, ISBN : 978-93-92105-01-2 which held on Aug 2022..

8. Sunanda Cv, Imran Alam, Raushan Kumar Shrivastava, Firdoush Ansary, Bhola Chaudhary published paper titled “4-Channel Touchless Switchboard for the Post Covid World” 2nd International Conference on Research trends in Engineering & management, ICRTEM-22, ISBN : 978-93-92105-01-2 which held on Aug 2022..

9. Sowmya G J, Shovanand Chaudhary, Mohammad Safiullah Musalman, Gath Nkulu Matelwa published paper titled “IOT Based Smart Industrial Panel Using Python for Speed Control and Monitoring of DC Motor” 2nd International Conference on Research trends in Engineering & management, ICRTEM-22, ISBN : 978-93-92105-01-2 which held on Aug 2022..










Faculty Achievements

1. Prof. Sunanda C .V got a certificate for “100% result in PSOC ” on teachers day celebration conducted in September 2022 at R R Institute of Technology.
2. Prof. Anusha D Y filled a patent and published on the title of the invention “ OPTIMAL POWER ALLOCATION FOR RESIDENTIAL NETWORK IN ISLANDED MICROGRID USING CAPACITY MARKET DEMAND RESPONSE APPROACH” in the March 2023.
3. Prof. Jhansi K completed the NPTEL online certification course on “ELECTRIC VEHICLES –Part 1” and secured the silver badge which held on Jan –Feb 2023 exams.

Student achievements

1. Bholu Chowdary 7th sem EEE got placed in Mcoreta.
2. Danush S 7th sem EEE got placed in Mcoreta
3. Dheeraj K 7th sem EEE got placed in Mcoreta, Academor & Ethunus.
4. Raushan Kumar 7th sem EEE got placed in Mcoreta & Ethunus.
5. Shankar kumar Yadav 7th sem EEE got placed in Tap academy
6. Sneha joesphin 7th sem EEE got placed in Mcoreta
7. Tejaswini B 7th sem EEE got placed in Ethunus.
8. Sneha joesphin 7th sem EEE received best out going student award on International women's day celebration.
9. Danush S 7th sem EEE, participated in state level Karnataka Deadlift championship and won the 3rd place which is held on 3rd Dec 2022.
10. Danush S 7th sem EEE ,participated in state level Karnataka Squat Championship and won the first place which is held on 18th Dec 2022.
11. Danush S 7th sem EEE ,participated in state level Karnataka benchpress Championship and won the first place which is held on 18th Dec 2022.
12. Dheeraj K , 8th sem EEE , completed the NPTEL online certification course on “ELECTRIC VEHICLES –Part 1” and secured the silver badge which held on Jan –Feb 2023 exams.
13. Danush S participated in national level ProNational Championship and won the third place which is held on 18th March 2023.
14. Bholu Chaudary , 8th sem EEE participated in Intra college indoor sports and won the first place in chess which held on 7th march 2023 at RR Institutions Bangalore.
15. Vidya S Prasad and Gagana S ,students of 6th sem EEE participated in Intra college sports and won the second place in throw ball which held in march 2023 at RR Institutions Bangalore.
16. Vidya S Prasad ,student of 6th sem EEE participated in Intra college cultural events and won the second place

Semester wise 1st three toppers of the departments

SINO	Semester	Name ,USN & Score	Photo
1	3rd	Anusha G R 1RI21EE002 87.1%	
2	3rd	Vadana A 1RI21EE022 81.9%	
3	3rd	Manish Shrestha 1RI21EE008 81.4%	
4	5th	Vidya S Prasad 1RI20EE004 66.1%	
5	5th	Devpukar Chowdary 1RI20EE006 63.6%	
6	5th	Gagana S 1RI21EE400 63%	
7	7th	Bhoomika R 1RI19EE002 87.25%	
8	7th	Dheeraj K 1RI19EE004 86.37%	
9	7th	Sneha Joesphin 1RI19EE009 85.87%	

A good education is a foundation for a better future