



Department of Electrical and Electronics

VISION OF THE DEPARTMENT

“To produce excellent manpower in the field of Electrical & Electronics Engineering by introducing innovative teaching methods and projects within the parameters of values and ethics”

MISSION OF THE DEPARTMENT

- Introducing Value-based education and State of the Art infrastructure facilities within the parameters of ethics.
- Interacting with industries and institutions to upgrade knowledge and understand current requirements and trends in technologies.
- Enhancing the research-oriented activities in socially prominent areas.
- Building up the overall career through impressive extra-academic activities.

FROM PRINCIPAL’S DESK:

It is a matter of great pride and satisfaction for RajaRajeswari College of Engineering to bring out the Newsletter released from the Department of Electrical and Electronics Engineering. The College has made tremendous progress in all aspects and department has equally progressed in different verticals both in academic and non-academics. A Newsletter is like a mirror which reflects the clear picture of all sorts of activities undertaken by a department. I congratulate the Editorial Board of this Newsletter who have played wonderful role in accomplishing the task on time. I congratulate all faculties and students for their fruitful efforts in shaping up the department and personal career.

Dr. R Balakrishna Principal, RRCE

FROM HOD’S DESK:

I am very pleased to pen in our department’s official newsletter ‘SPARKS.’ The newsletter invites a wider readership in the Institution. Many congratulations to the editorial team. The newsletter comprises news of the last year’s academic excellence and co-curricular and extra-curricular activities. The compiled news, articles and achievements shows how consistently we are inching towards the vision and mission of our Institution. Many of our students and staff participated and won many regional and national level competitions. These competitions enabled them to gain a comprehensive knowledge and understanding of various emerging technologies and aspects. I wish to record my hearty congratulations to those who have brought laurels to the department, appreciate all of you for working together as a team. Let this newsletter be a forum to exhibit the potential of students and faculty members with their literary skills and innovative ideas. I extend best wishes for the success of this endeavor.

Dr. P Ebby Darney Professor and Head

● ACTIVITIES

"Joy is found not in finishing an activity but in doing it."

Seminar Talk:

The Seminar Talk on The field of Electrical Design and Its Opportunity was conducted where the students of department of Electrical & Electronics Engineering have attended the program which intently gained knowledge and to explore over field of electrical design. The key speaker Mr. Ravi Kiran, Asset Society and Mr. Subash gave a

brief idea about analysis electronics suite, designing of electrical network, ORCAD, KiCAD, NI Multisin software Signal integrity, Power management, Electromagnetic interference, Rapid technological changes, Mentor graphics and how the placement opportunities are being created in the society. Which intend our students to get a vast and versatile knowledge on the importance of the subjects they are studying in electrical engineering.

Few points been discussed are noted below:

- ❖ Explained on ORCAD, KiCAD, NI Multisin software.
- ❖ Configuration of analysis electronics suite, designing of electrical network explained the factors of working nature in the industry.



CAREER GUIDANCE activity:

Department of Electrical & Electronics Engineering of RajaRajeswari College of Engineering conducted Career Guidance on Higher Education where all students of electrical engineering have been participated to gain knowledge on career to through their next stages of life.

The key speaker Mr. Abhilash K, Business Development Manager, Netling gave a knowledge on career development.



• National Level Symposium

• TESLA 2K23

“One must be sane to think clearly, but one can think deeply and be quite insane.”

-Nikola Tesla”

National level intercollegiate competition was held in Department of Electrical and Electronics Engineering for two days. The function at



was 8th graced by Anusha.M, Advanced Analyst, EY GDS company, Dr Balakrishna R Principal, Dr. Amrutharaj Vice-Principal, Dr. Ebby Darney P HoD, Dr. Usha Saktivel, Research Dean, RRCE,



in Department of Electrical 10:00am in Dr. Abdul kalam conference hall. The event hosted by Ms.Abrin nisha of semester. The dais was

Ms.



Prof Nandini N, Association head, Mr.Sreehari K, president of student Association of Department of EEE, 'Transformerz'. The function started with inauguration followed with invocation song. The welcome speech was delivered by briefed out about the association, national level followed by the presidential address given by Ebby Darney P delivered introductory note. Ms. gave the inspiring speech and importance of



Prof.Nandini N and symposium Tesla-2k23 , principal and Dean. Dr. Anusha.M chief guest electrical branch in the industry. The department achievers were

8th He



announced by Prof. Sincy Elizebeth. The titled "Best Outgoing Student" of the #EEE batch 2019-23 is awarded to Mr. Yashas S M, semester student of Department of #EEE. is felicitated by the dignitaries with trophy, certificate, and cash award during the inaugural function of National Level



Symposium - TESLA 2k23 organized by Student Association of Department of EEE, 'Transformerz'. The toppers of 7th semester, 5th semester, 2nd semester of VTU Examination are felicitated by the dignitaries during the inaugural function of National Level Symposium - TESLA 2k23. The vote of thanks was delivered by Mr.Sreehari K, Association of Department of various technical and non organized in national level Students from various different branch of RRCE had function was scheduled on prize winners were awarded prize. The students shared the Tesla 2k23. The event was management, Principal, Dean, teaching staff and all the student coordinators.



• **ACHIEVEMENTS**

Students achievements:

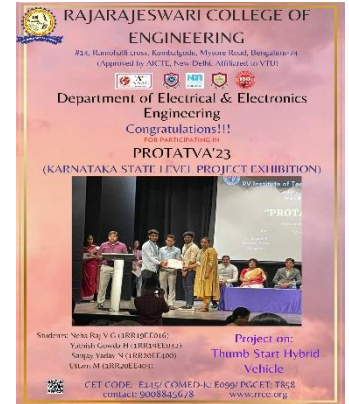


“A dream becomes a goal when action is taken toward its achievement.”

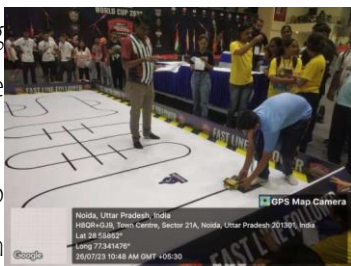
A warm achievement is held in this current year 2022-2023. It is a proud movement for electrical students and staffs as the students have participated in many other colleges and set us a variable memorable movement by participating and getting good places in inter college and state level events in various colleges. Just down the lane Our final year students has participated in intercollege state level exhibition held in RV College of Engineering.



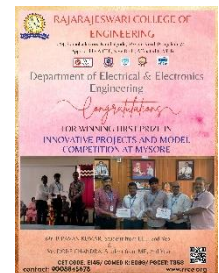
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Now going down even our 4th semester students has made us proud by representing the Indian Team in TECHNOXIAN 2023-World Robotics Championship conducted in New Delhi. Challenge is to design and build a robot competent to fight other robots in



Battle. The competition is carried out in a tournament format in which the competitors bring their wireless robots ready to battle and are pitted against their competitor's robots in a one-one match where the aim is to cause maximum damage or to push the opponent's robot off the arena to score maximum points. The team scoring the maximum points wins the championship. The challenge has two participation categories as per the gross weight of the Robot. Students Participated more actively we the EEEians are very much proud of it.



RRCE 2nd year students participated in a Technology Innovation forum in Mysore organized

by Mysore College of Engineering and Management. They won the First prize in the Innovative Projects and Model competition by addressing challenges faced by farmers in our own village.

Hearty Congratulations to Mr. Pavan, 2nd year student of Dept of Electrical & Electronics Engineering.



• **ACHIEVEMENTS Continues.....**

Students achievements in the college:



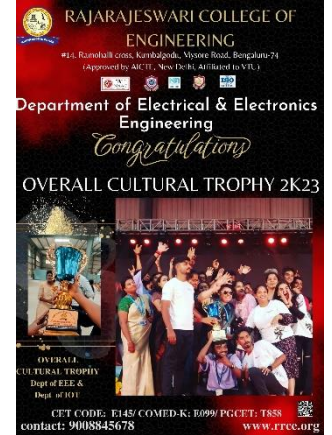
The students have participated in many sports activity with enthusiasm and had banded many awards in many games like Volley ball, Khokho, Basket ball, Throw ball like many other sports our students participated in active maner and was awarded for many sports during Kalasourabha 2K23 .

In KALASOURABHA 2K23 students performed well and banded overall trophy for the department which is a markable moment for EEIans and it is a Proud to HOD, staffs and students of electrical and electronics Engineering students. This KALASOURABHA made History for all Electrical students. A there is a say “ A Small Gang can do immentuately many greater things.”

This was proved by setting a goal not only in acadamics but also in Cultral and Sports.

During KALASOURBHA the students have participated actively in all the events. Where they have achieved many prizes which made our department to reach greater heights which made our department proud and the students banded 1st places in various events and many other places in all the group and stand alone events which as made the department proud.

Especially few group events like Fashion show and hunting the students showcased their talents well and which was broadcasted in all the news channels due to the theme they used for fashion show. The fashion show theme made a good sight to all the people due to the attire of a bit story of MAHABHARATHA. Which fascinated the crowd and made to bang the 1st place in the events.



Students and Faculty achievements:

The Prestigious event KSCST for current 2022-23 recognised two 8th semester projects from our department. In that one project was further taken to state level exhibition in KSCST 46th Series. The project contribution like:

- UAV for Ambulance ESCORT which was guided by our HOD Dr. P Ebby Darney and our students Suvarna P U, Nivedha D, Akshatha D A, and Sreehari K.
- Thumb start EV which was guided by Prof. Prutha G and our students Neha Raj V G, Sanjay Yadav N, Bhoomika J, and Venugopal this project was selected for State level Exhibition in KSCST 46th Series.

These projects were recognised for funding in KSCST 46th Series. Our department on these acheivements.



PATENTS

1. Dr. P Ebby Darney, HOD and Professor has got a grant on patent Solar Phone Case during March 2023.
2. Prof. Udhyami M B, Prof. Prutha G, Prof. Kiruthika K, Prof. Nandini N, Prof. Avinash C M Assistant Professor has filled patent on the project Smart Helmet Sensor for Rider and Pillion Rider. Their Patent is published during January 2023.
3. Dr. P Ebby Darney, HOD and Professor has filled patent on the project Impact and analysis of green concept in Mechanical design and Manufacturing Industry. The Patent is published during March 2023.

PLACEMENT DETAILS

1. Manoj G (1RR19EE013) placed in Quad Gen Mas Tec With Package of 3LPA.
2. N Leelanjali (1RR19EE015) placed in Quad Gen Mas Tec With Package of 4LPA.
3. Sreehari K (1RR19EE026) placed in Quad Gen Mas Tec With Package of 5LPA.
4. Suvarna P U (1RR19EE028) placed in Quad Gen Mas Tec With Package of 6LPA.
5. Yashas S M (1RR19EE031) placed as an intern in Honeywell With Package of 6LPA.
6. Abrin Nisha J (1RR19EE001) placed in Intellipat Software Solutions Pvt. Ltd With Package of 9LPA.
7. N Leelanjali (1RR19EE015) placed in Vintrus With Package of 3-5LPA
8. Yashas S M (1RR19EE031) placed in Codeyoung With Package of 4.36LPA.
9. Anusha S G (1RR19EE004) placed in Vintrus With Package of 3-5LPA
10. Abrin Nisha J (1RR19EE001) placed in FACE With Package of 3.13LPA.
11. Anusha S G (1RR19EE004) placed in FACE With Package of 6LPA.
12. Abrin Nisha J (1RR19EE001) placed in Vintrus With Package of 3-5LPA
13. Vaibhav S (1RR19EE030) placed in Textron with package of 6.5LPA.
14. Krishna Pawar (1RR19EE010) placed in Codeyoung With Package of 4.36LPA.
15. Rakesh G (1RR19EE023) placed in Vintrus With Package of 3-5LPA
16. Uttam M (1RR20EE402) placed in HARS MEP Consulting Pvt.LTD.
17. Yatish Gowda H(1RR19EE032) placed in HARS MEP Consulting Pvt.LTD.
18. Brunda B (1RR19EE006) placed in FACE With Package of 4LPA.
19. Nivedha D (1RR19EE017) placed in FACE With Package of 5LPA.
20. Shambhavi M N (1RR19EE024) placed in FACE With Package of 6LPA.
21. Shambhavi M N (1RR19EE024) placed in Vintrus With Package of 3-5LPA.

1. Dr. P Ebby Darney, “Design of a Customized Intelligent Electronic Device for Power Circuit Safety”, International Journal of Electronics and Informatics, vol.4, issue 3, September 2022.
2. Dr. P Ebby Darney, “ Power Flow Optimization of a Hybrid Energy System with Salp Swarm Algorithm”, International Journal of Electronics, vol.4, issue 4, December 2022.
3. Dr. P Ebby Darney, “Variable Frequency Pulse Control of Llc Resonant Dc-Dc Converter Using Rbfnn-Ann Algorithm for Low Voltage Application”, International Journal of Algebraic Statistics, vol.13, issue 3, November 2022.
4. Prof. Bharathi V, “Variable Frequency Pulse Control of Llc Resonant Dc-Dc Converter Using Rbfnn-Ann Algorithm for Low Voltage Application”, International Journal of Algebraic Statistics, vol.13, issue 3, November 2022.
5. Prof. Udhyami M B , “Variable Frequency Pulse Control of Llc Resonant Dc-Dc Converter Using Rbfnn-Ann Algorithm for Low Voltage Application”, International Journal of Algebraic Statistics, vol.13, issue 3, November 2022.
6. Dr. P Ebby Darney, “Power Quality Analysis of High-Voltage Gain Switched LC Z-Source Inverters”, International Conference of Distributed Computing and Optimization Techniques, Springer Nature Singapore, Pages 723-735, September 2022.
7. Dr. P Ebby Darney, “IoT based Smart Shoes for Blind people”, 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), August 2022.