



ISSUE 7
JUNE 2022 - MAY 2023
DEPARTMENT OF
ELECTRICAL ENGINEERING

Electro Spark

Chief Patrons

Hon. Dr. P.V. Kadole
 (Director, RIT, Rajaramnagar)

Hon. Dr. H. S. Jadhav
 (Dean Diploma, RIT, Rajaramnagar)

Mr. A. D. Nikam
 (HOD Electrical Engg. Diploma)

Chief Editor

Prof. Mr. A. S. Mulani
 Lecturer, Electrical Engg. Dept.

Editorial Members

Ms. Samruddhi S. Desai
 Ms. Saniya R. Waghmare



K. E. Society's
Rajarambapu Institute
of Technology,
Rajaramnagar.
 (An Autonomous Institute)
 (Diploma)
 Islampur, Dist. Sangli, Maharashtra,
 India - 415414.
 Tel : +91 - 2342 - 220329 ,
 9970700700.
<http://www.ritindia.edu>

“World fear to touch we play with it”

MAHARASHTRA STATE BOARD OF TECHNICAL
EDUCATION , MUMBAI HAS AWARDED



100%
PLACEMENTS



GRADE TO DEPARTMENT OF ELECTRICAL ENGINEERING,
RIT, RAJARAMNAGAR (DIPLOMA)
FOR THEIR PERFORMANCE IN A.Y. 2022-23

From the Editor's Desk

Dear Readers, Greetings, for this academic year department achieved 100% placement and also witnessed a higher number of Industries visiting the campus, I'm sure you'll go through it and join us in cherishing this milestone. Going a step further department also put in streamlined efforts to offer placement assistance to those who felt a dearth of the same. Department not only organized two state level technical events but also celebrated Engineer's Day and Teacher's Day by arranging Quiz & Teaching competition. Thank you.



Prof. Mr. A.S. Mulani
(Editor, Electrical Dept.)
(Diploma)

From the Student Desk

I find myself immersed in a world of endless possibilities and innovation. Every day, I am captivated by the intricate dance of electrons and the boundless potential they hold to shape our future. In our department, we are not merely students; we are explorers of the unseen, pioneers of technology, and architects of progress. From the fundamental principles of circuit analysis to the complexities of power systems, we delve into a realm where theory meets practice, where imagination meets reality. Our journey is marked by challenges that push the boundaries of our knowledge and ignite our curiosity. Through hands-on experiments, collaborative projects, and rigorous coursework, we sharpen our skills problem solvers.



Ms. Saniya Waghmare
SY Electrical

Department Vision

To develop competent engineers by providing Quality Technical Education in the field of Electrical Engineering to meet future needs and challenges of the society and industry.

Department Mission

- ⇒ To impart technical education in close interaction with industry and community
- ⇒ To develop young minds sensitive to ethical and environmental issues.
- ⇒ To prepare young aspirants with the spirit of lifelong learning for career enhancement

Department Achievement's

Secured 2 nd rank in quality circle institute presentation on Development of Virtual Laboratory Platform for Diploma Electrical Engineering students



- ⇒ Secured Runner UP Prize in Zonal Event in High Jump Game
- ⇒ Secured Runner UP Prize in Zonal Event in Table Tennis Game
- ⇒ Secured Runner UP Prize in Zonal Event in wrestling Game
- ⇒ Secured winner Prize in Inter Zonal Event in Wrestling Game
- ⇒ Secured Third Rank in Paint Carnival Competition
- ⇒ Secured winner Prize in Int
- ⇒ Secured Runner up Prize in Inter Institute Sports in Discus Throw Game Institute Sports in Javelin Throw Game
- ⇒ Secured winner Prize in Inter Institute Sports in Shot Put Game

Department Activities

A number of programs like Guest Lectures, Industrial visits and training workshop from various Institutional, Organization and Industrial Experts in the field were organized by department for in-depth understanding of the subjects.

Expert's Talk



Expert Lecture by Mr.Ajit Patil
(Assitant Manager at Karad Pro-
jects and Motors Ltd.Karad) on
Industrial Induction Motor

Expert Lecture on Grooming for
Brooming by Mr. Subhash Koli



Confluence with Industries



AMY Electronic Instruments,Kasbe Digraj on
16/10/2022



Universal Power Control System,Kupwad on
16/10/2022



Sharda Electronics & Co.Ltd.,Kupwad on 15/02/2023

Training and Workshop conducted



02 Days FDP organized for faculties on topic PLC and automation



PLC software training for SY and TY Electrical students



One day workshop on Introduction and handling of Moodle on 20/12/2022



Various Student Centered Activities

Various Curricular and Co-Curricular Activities for Student



Poster Presentation Competition on the occasion of Ch. Shivaji Maharaj Jayanti on 21st February, 2023



Celebrated "Marathi Bhasha Din" on 27th Feb. 2023

Placements & Out house Interactions by Department

Sr. No	Name of Company	No. of Student Placed	Package (LPA)
1	Bharat Forge, Pune	05	1.80
2	Essel Pro-Pack	12	1.80
3	RDC Concrete	1	1.80
4	Carraro india Ltd	11	1.80
5	Magna Automotive India, Pune	03	1.80
6	Tata Motors Pune	02	1.80



Sr. No	Name of Facult	Title of Publication
1	Mr.S.M.More	"COMMERCIAL POWER SAVER" And Energy Meter Monitoring by IOT
2	Mr.A.D.Nikam & Mrs.S.S.Patil & Mr.A..S Mulani	.IOT- OPPORTUNITIES AND CHALLENGES IN INDIA 2.Gradiva Review Journal (UGC-CARE) 3.International journal of research and analytical review journal (Peer reviewed)
4	Ms.P.S.Patil	1.Wireless charging of EV in Running Condition 2.2.Flexible solar panel for EV
5	Mr.A.V.Kulkarni	1.Theft Protection of Bank by Using Arduino 2.Control of DC Motor by using PWM

Various Student Centered Activities



Celebrated "Marathi Bhasha Din" on 27th Feb. 2023



1. Poster Presentation Competition on 21st Feb-

OUR TOPPERS A.Y .2022-23

Second Year

Sr. No	Name of Students	Percentage
1 st	MANE KIRAN KRUSHNAJI	89.07%
2 nd	DESAI SAMRUDDHI SATISH	86%
3 rd	PAWAR ADITYA SHAILEN-DRA	83.87%

Third Year

Sr. No	Name of Students	Percentage
1 st	JADHAV OMKAR NIVRUTTI	93.25%
2 nd	JADHAV PRATHAM PRADIP	85.63%
3 rd	DESHMANE SOHAN SANJAY	85%

Student Articles

◆ The Electrifying Future of Transportation: Embracing Electric Vehicles

In recent years, electric vehicles (EVs) have emerged as the vanguard of sustainable transportation, offering a glimpse into a future where mobility is clean, efficient, and environmentally friendly. With growing concerns about global warming and air quality, the transition to electric vehicles presents a promising solution to mitigate the adverse effects of transportation on the environment. Moreover, electric vehicles offer significant economic benefits. While the initial purchase price of EVs may be higher compared to conventional cars, their operational costs are considerably lower. Electric vehicles have fewer moving parts and require less maintenance, resulting in reduced servicing and repair expenses over their lifespan. Additionally, the fuelling costs of EVs are substantially lower than gasoline-powered vehicles, as electricity is generally cheaper and more stable in price compared to fossil fuels. In conclusion, electric vehicles represent a paradigm shift in transportation, offering a sustainable and efficient alternative to conventional automobiles. By embracing electric vehicles and investing in supportive policies and infrastructure, we can pave the way for a cleaner, greener, and more sustainable future of transportation. As we strive towards a carbon-neutral economy, electric vehicles stand as a beacon of hope, driving us towards a brighter and more environmentally conscious tomorrow



Pravin Lohar
SY EE

◆ The Internet of Things (IoT) and Smart Systems: Revolutionizing Connectivity

In the digital age, the Internet of Things (IoT) has emerged as a transformative force, reshaping the way we interact with technology and the world around us. At its core, IoT refers to the network of interconnected devices, sensors, and systems that communicate and exchange data seamlessly, enabling unprecedented levels of automation, efficiency, and convenience. The proliferation of IoT technology has led to the creation of smart systems that are revolutionizing various aspects of our lives, from homes and cities to industries and healthcare. By integrating sensors, actuators, and connectivity into everyday objects and infrastructure, IoT facilitates real-time monitoring, analysis, and control, thereby optimizing processes and enhancing decision-making capabilities. One of the most prominent applications of IoT is in the realm of smart homes and buildings. Through interconnected devices such as smart thermostats, lighting systems, and security cameras, homeowners can remotely monitor and manage their environment, improving energy efficiency, security, and comfort. IoT-enabled appliances and devices can adapt to user preferences and behavior, leading to a more personalized and intuitive living experience. In urban environments, IoT plays a pivotal role in the development of smart cities. By embedding sensors and data analytics into infrastructure such as transportation systems, waste management, and public services, cities can optimize resource allocation, reduce congestion, and enhance public safety. Smart traffic management systems can alleviate traffic congestion by dynamically adjusting signal timings based on real-time traffic flow, while smart waste bins can optimize collection routes and schedules, minimizing operational costs and environmental impact. Moreover, IoT is revolutionizing industries ranging from manufacturing and agriculture to healthcare and logistics. In manufacturing, IoT-enabled sensors and predictive analytics facilitate predictive maintenance, improving equipment reliability and minimizing downtime. In agriculture, IoT sensors monitor soil moisture levels, weather conditions, and crop health, enabling farmers to optimize irrigation, fertilization, and pest control practices for higher yields and sustainability. In healthcare, IoT devices such as wearable fitness trackers and remote monitoring systems empower individuals to take control of their health and well-being by tracking vital signs, physical activity, and medication adherence. IoT-enabled medical devices and telemedicine platforms facilitate remote consultations and personalized treatment plans, improving access to healthcare services and patient outcomes.

In conclusion, the Internet of Things and smart systems represent a paradigm shift in the way we interact with technology and the world around us. By harnessing the power of interconnected devices and data-driven insights, IoT has the potential to drive innovation, improve efficiency, and enhance quality of life across diverse domains. As we continue to embrace IoT technology, collaboration among industry stakeholders, policymakers, and researchers will be essential to address challenges and unlock the full potential of this transformative force.



Samruddhi Desai
SY EE

Student Feedback

I would sincerely appreciate the efforts extended by Chief editor and H.O.D electrical engineering, RIT. Newsletter team in publishing enriched the informative things of department newsletter. It's worth appreciating that the contents are informative about, Industrial Visit And Guest Lecture, faculty and students achievements. Photo quality is too good. I take this opportunity to offer my heartiest congratulations to Electrical department.



Suraj .S Varekar
SY EE
