

ISSUE 5
JUNE 2020 - MAY 2021

DEPARTMENT OF
ELECTRICAL ENGINEERING

Electro Spark

“No Resistance can drop our Potential”

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(Director, RIT, Rajaramnagar)

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

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Electrical Engg. Dept.

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Prof. Mr. G. R. Kavathekar
Mr. Rehan Shaikh
Mr. Pratik Kumbhar

**MAHARASHTRA STATE BOARD OF
TECHNICAL EDUCATION, MUMBAI HAVE
AWARDED**



**REMARK TO DEPARTMENT OF ELECTRICAL
ENGINEERING, RIT, RAJARAMNAGAR
(DIPLOMA) FOR THEIR
PERFORMANCE IN A.Y 2020-21**



RAJARAMBAPU INSTITUTE OF TECHNOLOGY

K. E. Society's
Rajarambapu Institute of Technology, Rajaramnagar
(An Autonomous Institute)
(Diploma Wing)
Islampur, Dist. Sangli, Maharashtra, India-415414.
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From Editor's Desk



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

Dear Readers, Greetings. For this academic year, department has achieved 100% placement and also witnessed a higher number of Industries visiting the campus. I am sure you all 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 and Teaching Competition Thank You.....

From Student Desk



Ms. Swarali Kadam
(TY EE 2020-21)

The Covid-19 impact was everywhere, which resulted in the closure of Schools and other educational institutions. Teachers who are all experts in Blackboard, Chalk, books, and classroom teaching are really new to this digital teaching, but they are adopting the new methods and handling it like a pro to aid the students in the current position. Teachers are using their experience and skills to connect with their students and teach them This is going on in the whole world, but the education system is the most affected in this pandemic

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 sprits of lifelong learning for career enhancement.

Program Educational Objective (PEO's)

- PEO 1: Provide socially responsible, environment friendly solutions to Electrical engineering related problems adapting professional ethics.
- PEO 2: Exhibit the ability to utilize state-of-the-art Electrical engineering technologies to work in multi-disciplinary work environments.
- PEO 3: Develop and execute solutions for broad-based problems while working individually and as a team member by communicating effectively at the work place.

Program Outcomes

PO1. Basic and discipline specific knowledge - apply knowledge of basic mathematic, science, engineering fundamental and engineering specialization to solve the electrical problems

PO2. Problem analysis - Identify and analyze electrical engineering problems using suitable standard method.

PO3. Design / development of solution - Design solution for technical problems and assist with the design of electrical system components or process to meet specified needs.

PO4. Engineering tools experimentation and testing - Apply modern engineering tools & appropriate technique to conduct standard test and measurement related to engineering field

PO5. Engineering practices for society and environment.- apply appropriate technology in context of society environment and ethical practical

PO6. Project management - use engineering management principle individually as a team member or a leader to manage product and communicate effectively about engineering activity

PO7. Life –long learning - analyze individual needs and engage in updating in the context of technology development.

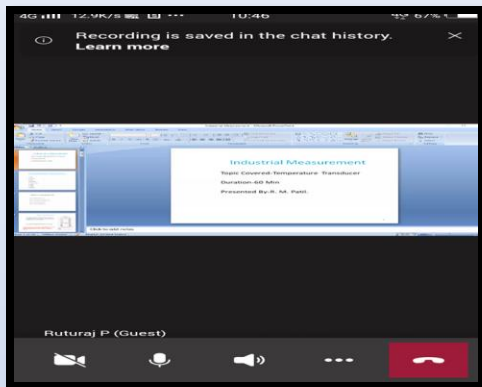
Department Achievements

- Mr. G. R. Kavathekar has worked as a Technical Reviewer for a manuscript submitted for the IEEE Sponsored First International Conference on Emerging Trends in Industry 4.0 (2021 ETI 4.0) which will be published in the IEEE Xplore.
- In quality circle institute level presentation on “Implementation of 5S in diploma electrical department for AY 2020-21 electrical diploma secured 3rd rank.
- Diploma Electrical Department achieved Excellent Remark from IIMC and EIMC MSBTE, Mumbai.
- Two Faculty from Diploma Electrical Department Mr. G.R. Kavathekar and Ms. P.S. Patil completed their Post-Graduation.

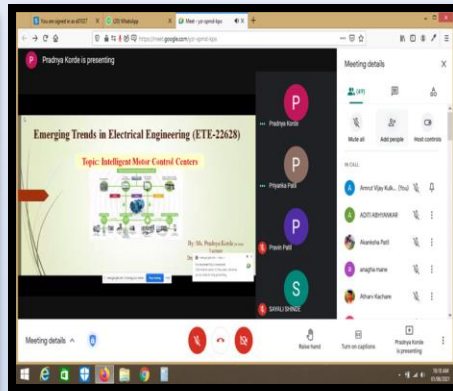
Department Activities

A number of programs like Guest lectures, Industrial visit & training workshops from various Institutional Organization & Industrial Experts were organized by department for in-depth understanding of the subjects.

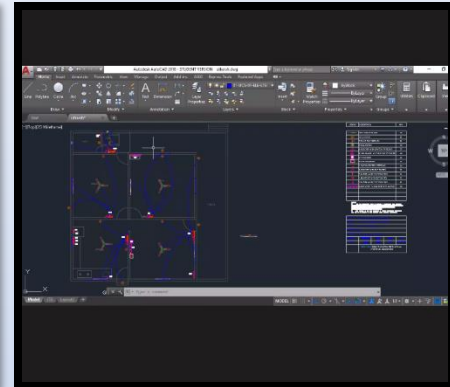
Guest Lectures



Mr. Ruturaj M. Patil
(Use of various measurement tools)

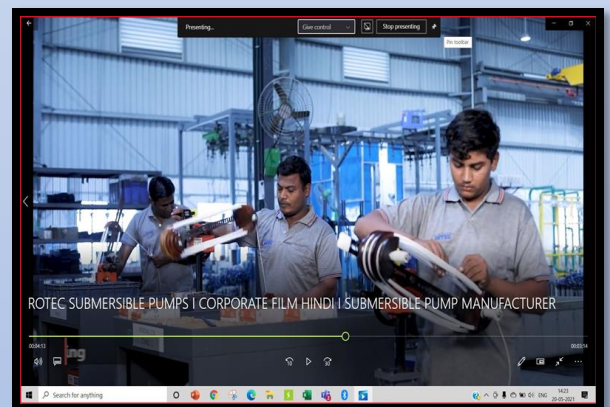
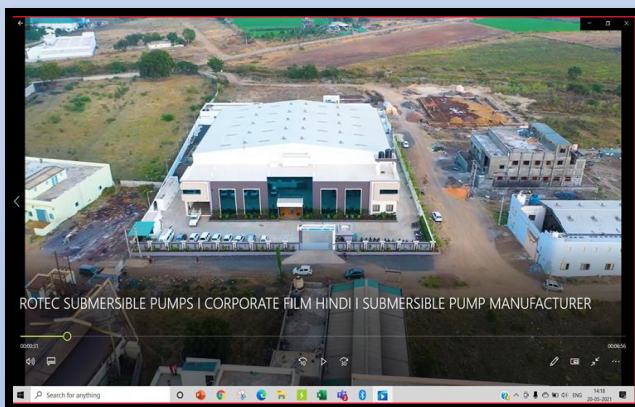


Ms. Pradnya Korde
(Overview of intelligent motor control centers)

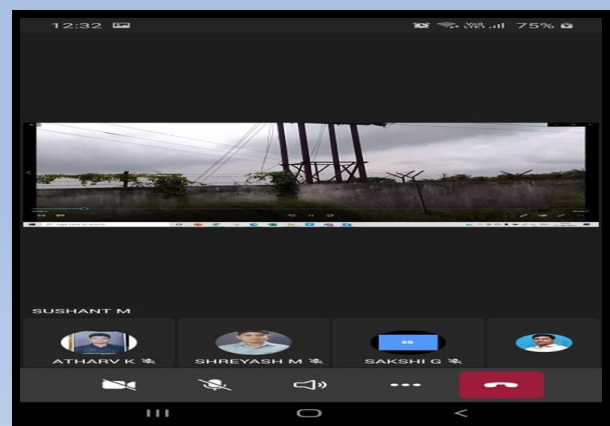
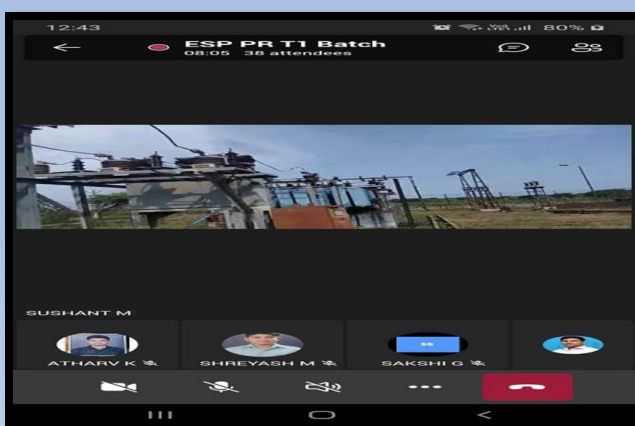


Mr. Imran S. Mulani
(Electrical drawing using CAD)

Industrial Visits



TY Electrical Virtual Visit at ROTEC Submersible Pump Gujrat



TY Electrical Virtual Visit at 33 KV Substation

Cultural Activities

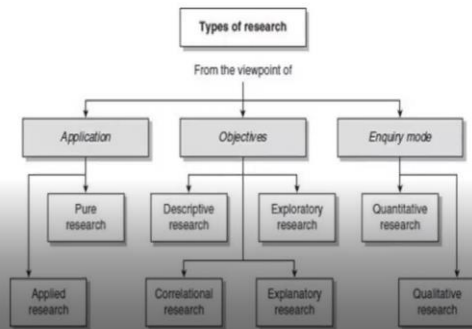


“Teachers day celebration at department”

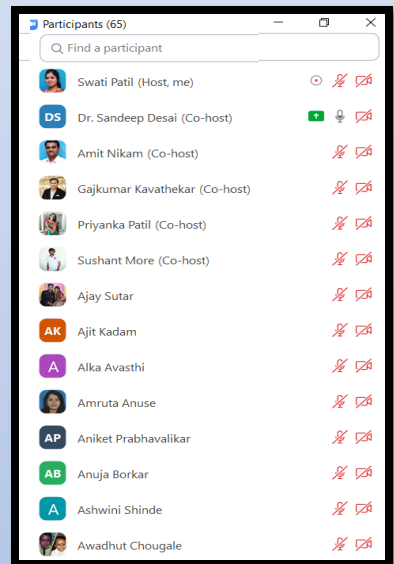
Training & Workshop

Research

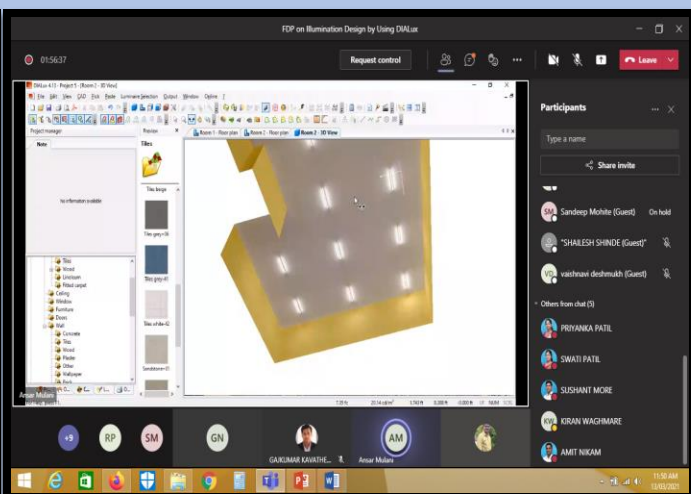
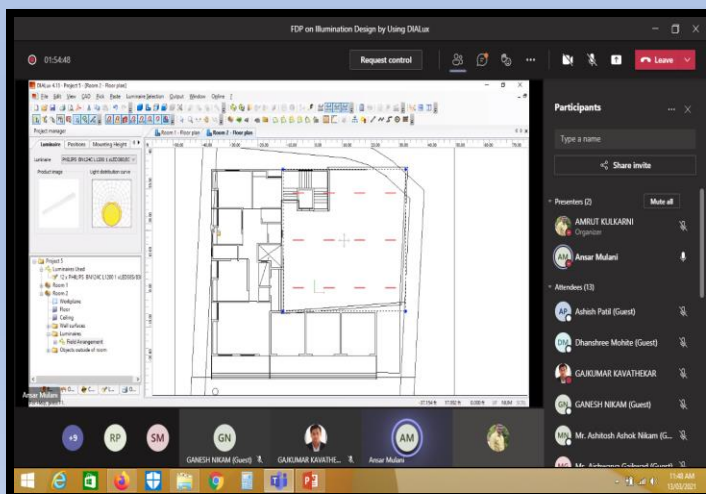
Research is a way of thinking: **critically examining** the various aspects of one's day-to-day professional work; **understanding and formulating guiding principles** that govern a particular procedure; and **developing and testing new theories** that contribute to the present body of knowledge.



Day 1



“Research Methodology & Research Paper Writing”



“Illumination Design Using DIALux”

Research and Publications

In AY 2020-21 total 17 research papers published by faculty and students of diploma electrical engineering department.

Training/Workshop attended by Faculty

Sr. No.	Name of faculty/staff	Details of training (Industrial/ content updating/ soft skill/ any other)	Duration of training	Organizing body	Organizing institute
1.	Mr. A. D. Nikam.	Sensors Technology	05 days	ATAL Academy	Shri. Vithal Education and Reasearch Institute, Pandharpur
		PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
2.	Mr. S. M. More	Internet of Things	05 days	ATAL Academy	Mahalingam College of Engg.
		Electrical Vehicle	05 days	ATAL Academy	AISSM, Pune
		Renewable Energy sources	05 days	ISTE staff chapter	K K Wagh, Nashik
		PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
3.	Mrs. S. S. Patil	Ideal pedagogy for online teaching	01 day		SBGI, Miraj
		Electrical Vehicle	05 days	ATAL Academy	AISSM, Pune
		Cyber physical systems	05 days	ATAL Academy	IIT, Pune
		PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
4.	Ms. P. S. Patil.	Electrical Vehicle	05 days	ATAL Academy	AISSM, Pune
		PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
5.	Mr. A. V. Kulkarni	Renewable Energy sources	05 days	ISTE staff chapter	K K Wagh, Nashik
		PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
		Advance in Industry Electrical System	06 days	ISTE	SIT Polytechnic, Yadrav
6.	Mr. G. R. Kavathekar	Basics of MATLAB	05 days	ISTE	SIT, Yadrav
		AUTOCAD-2D Basics	05 days		KIT, Kolhapur
		Internet of Things	05 days	ATAL Academy	Mahalingam College of Engg.
		Renewable Energy sources	05 days	ISTE staff chapter	K K Wagh, Nashik
		PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
		Application of Power Electronics to Usable renewable Energy Sources and Utility Systems	05 Days		ADCET, AShta

7.	Mr. A. S. Mulani.	PLC Programming	03 days		S P M Polytechnic, Kumathe, Solapur.
		Project Proposal Writing	01 Day		D. Y. Patil College of engineering & Technology, Kolhapur
		Advance in Industry Electrical System	06 days	ISTE	SIT Polytechnic, Yadrav
8.	Mr. S. S. Patil.	3D Printing and Design	05 Days	ATAL Academy	Maharshi Dayanand University
		Accreditation & OBE	05 Days	ATAL Academy	Yashwantrao Chavan College of Engineering
		OBE & Accreditation Process	05 Days	ATAL Academy	Government Residence Women Polytechnic Tasgaon
9.	Ms. Sumita. S. Patil	Classical Mechanics-1	03 Months	IIT Kanpur	IIT Kanpur
		Perovskite Solar Cells: New Promising photovoltaic technology	01 Day		NMCOE, Peth

Placement of Department students

Sr. No.	Name of Company	Students placed	Package (LPA)
1	Infosys Technologies Private Limited	01	2.2
2	Godrej & Boyce Mfg. Co. Ltd	01	2.04
3	MINDA Corporation Ltd.	08	1.8
4	Pure EV Pure Energy Pvt Ltd	02	1.68

Our Topper AY- 2020-21

First Year

1st	JADHAV OMKAR NIVRUTTI	86.30 %
2nd	TOMAKE PRASANNA MANIK	84.02 %

Second Year

1st	PATIL ANKITA ANANDRAO	91.88 %
2nd	AWATI PRATIKSHA PRADEEP	90.11 %

Third Year

1st	GAWADE SADHANA ARJUN	90.90 %
2nd	MULANI NIHAL DASTAGIR	90.41 %

Need of Non-conventional energy sources.

Energy is one of the major parts of the economic infrastructure, being the basic input needed to sustain economic growth. The growing consumption of energy has resulted in the country becoming increasingly dependent on fossil fuels such as coal, oil and gas. Rising prices of oil and gas and their potential shortages have raised uncertainties about the security of energy supply in future, which has seriously resulted on the growth of the national economy. Increasing use of fossil fuels also causes serious environmental problems. Hence, there is a primary need to use renewable energy sources like solar, wind, tidal, biomass and energy from waste material. They are called non-conventional sources of energy. Non-conventional sources of energy are renewable and also eco-friendly. As the power plants based on renewable do not have any fuel cost and hence negligible running cost and have low energy density and more or less there is no pollution or ecological balance problem. The use of non-conventional/renewable energy could help to conserve foreign exchange and generate local employment if conservation technologies are designed, manufactured, assembled and installed locally.



Ms. Pratiksha Awati
SY EE AY 2020-21

Impact of Covid 19 on education system

Technology will not be able to avoid this pandemic it can assist managing a crisis more effectively. We all know that covid-19 how badly impacted our lives that both personal professional. Now to adopt technology has been our lifeline. Now educational institutions and schools have started to offer their courses online teaching that to make sure education is not disrupted due to pandemic. Online study is good but it cannot replace paper books keep book in my hand and read this other happiness and hold mobile in my hand read it cannot be replace. Both have their advantage and disadvantage it cannot replace sound and scent of paper books. Yes, I agree that their wide impact on education but in spite of this worse condition many doors has been open for students. For e.g. Online webinars were the place for lectures and meetings. This ensures safety for both the teacher and the students, since they don't need to travel to the seminar location. Easy to interchange information before, during, and after the session. The institute organized many event and informational webinars to help students involve in various activities during the pandemic Like webinars on Advanced IOT, Artificial Intelligence, Machine Learning and many more....! Hereby I would also like to appreciate and thanks to MSBTE and RIT for utilizing various technical tools during this pandemic situation for betterment & developments of students and faculty by conducting various online programme like e-FDP,



Mr. Varadraj Jadhav
SY EE AY 2020-21

Feedback

I would sincerely appreciate the efforts extended by Chief editor and H.O.D., RIT. Newsletter team in publishing enriched the informative issues of department newsletter. It's worth appreciating that the contents are informative about Circuit Builder, 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 for receiving "Quality Circle" Award.



Ms. Sonali Patil
TY EE AY 2020-21