

JULY 2022

VIDYUT

NEWSLETTER FOR DEPARTMENT
OF ELECTRICAL ENGINEERING



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Biannual Newsletter of Department of Electrical Engineering



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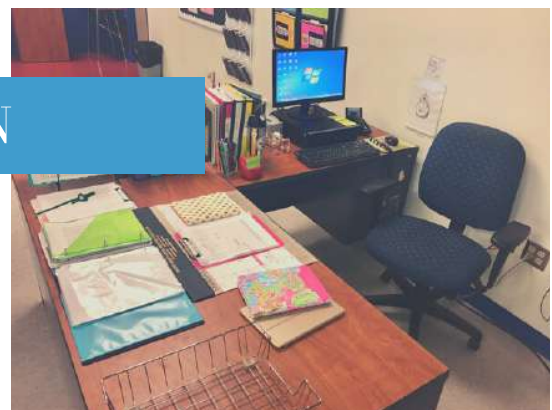


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VIDYUT

Biannual Newsletter of Department of Electrical Engineering
Rajarambapu Institute of Technology, Rajaramnagar, Islampur,
Maharashtra

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From HOD Desk
Vision, Mission & PEOs
PART 1

VISION , MISSION
PART 2

PEO
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“Do not fear
failure but
rather fear
not trying.”

Roy T. Bennett

From HOD Desk

Dear Friends,

It's immense pleasure to present this biannual newsletter "Vidyut". Electrical Engineering department is the dynamic and vibrant department with the blend of young and experienced Faculty. Department is actively involved in academic as well as research work



in current areas of Electrical Engineering and multi-disciplinary streams. The department has well-equipped labs with the state of the art software, hardware, and machinery. The faculty members are constantly publishing technical papers in national and international journals and conferences. Also, they are involved in consultancy activities. The department is fortunate to have dedicated teachers, devoted students, and committed supporting staff and expert technical staff. Especially, I congratulate my students to participate in various extra-curricular activities, research work, and competitive exams. My best wishes to all for their bright carrier and successful life.

Dr. V. N. Kalkhambkar

Vision, Mission & PEOs

Vission

Develop globally competent electrical engineers to serve future needs and challenges of the society.

Mission

- To inculcate teaching and learning processes to promote state-of-the-art service in electrical industries to address local and global challenges.
- To integrate academics, research, and entrepreneurship skills in the domain of electrical engineering to address the present and future challenges of society.
- To develop professionalism with strong foundations in adopting change in environmental technology.

Programme Educational Objectives(PEOs)

PEO 1: Apply knowledge and skills to pursue successful career in power sector, manufacturing and process industries.

PEO 2: Utilize expertise to become an academician, practicing engineer and entrepreneur to serve the society, ethically and responsibly with concern to environment.

PEO 3: Engage in lifelong learning to seek excellence in professional life.



Department of Electrical Engineering

BRIEF ABOUT DEPARTMENT:

The department is involved in energy auditing work to cater to the needs of local industries. Also promotes the use of renewable energy. The department has well-equipped laboratories. It has a laboratory of 'Automation & control' equipped with PLC trainer kit, SCADA & HMI especially for final year B. Tech students. E-Yantra is a central facility located in the department. Newsletter-'Vidyut' is published half-yearly. One of the strengths of the department is different Papers are published in reputed journals, and international & national Conferences by faculty, PG and UG students. The main features are MOU's with different industries, Industry-Institute interaction for training as well as placement activities, GATE coaching & Guest Lectures. The scope of employment is in various organizations like the Indian Army, Reliance Energy, TATA Power, GSW, Bharat Forge Ltd., Simens and Syntel and Government Organizations like DRDO, ISSRO, and DAE. The first batch is passed out in May 2008 with 90% placement in reputed companies like Reliance Energy, JSW, Bharat Forge, Uttam Steel, Ocean Shipping company etc. with the Salaries ranging from 1.85 to 4.5 lakh per annum.

“If you have a dream, don't just sit there. Gather courage to believe that you can succeed and leave no stone unturned to make it a reality.”

Dr Roopleen

One of the strengths of the Department is paper publication in reputed journals, international & national Conferences by faculty, PG, and UG students. The main features are MOU's with different industries, Industry-Institute interaction for training as well as placement activities, GATE coaching & Guest Lectures. The scope of employment is in various organizations like the TATA Power, GSW, Bharat Forge Ltd., Siemens and Syntel, TCS, Cognizant, KPIT, Capgemini, Wipro, HCL technology, SLK software, torrent power, and Government and semi-government organizations like DRDO, ISRO, PGCL, Railway, Mahadiscom, Mahatransco, and Mahagenco Pvt. Ltd.

IIP PROJECTS

UNDER GRADUATE (UG)



1

PROJECT NAME -

1. Capacitor failures and Remedies
2. Online Pizza Ordering System
3. Website Development for Mobile phone marketing
4. Website Development for Online Grocery Store

FACULTY NAME -

Dr. V. N. Kalkhambkar

2

PROJECT NAME -

1. Automatic Storage Rack System
2. Automation Testing with UFT and HC Facets
3. QCA-CRM product testing with selenium and SFDC INTQEA22CRM002
4. Data V& N

FACULTY NAME -

Dr. Arun Thorat

3

PROJECT NAME -

1. Travel website design using CSS and HTML
2. Food Delivery website design using HTML and CSS
3. Online food order by using HTML, css java script and bootstrap
4. Online food order by using html css and JavaScript

FACULTY NAME -

Dr.D B Talange

4

PROJECT NAME -

1. Online food order by using html css and JavaScript
2. Hotel booking by using uft automation
3. Credit Card Management System
4. Fiber concrete
5. RMX Operations

FACULTY NAME -

Dr.P P Gupta

5

PROJECT NAME -

1. Automatic Interlocking Design for 50 Tonne Crane
2. Design of MCC Bolier Panel
3. Design of Monitoring system for PV array
4. Website Development for Online Grocery Store

FACULTY NAME -

Prof.Amarjeet S. Pandey

6

PROJECT NAME -

1. Automatic soldering fumes extractor
2. Replace manual insulation paper cutting by automatic insulation paper cutting system
3. Automation of Insulation rolling
4. Use of MPP over APP For HT capacitors

FACULTY NAME -

Prof. Sachin Kumbhar

IIP PROJECTS

UNDER GRADUATE (UG)



7

PROJECT NAME -

1. Design & Development of FASD Panel
2. Design & Development of VCARS Panel
3. Design & Development of CHAMP Panel
4. Design & Development of DOL Panel
5. Design & Development of DCP Control Panel

FACULTY NAME -

Prof. Atul Patil

8

PROJECT NAME -

1. Design and Development of PCVCB panel
2. Design and Development of onboard panel of LHB AC coach in railway.
3. Design and Development of Underslung panel of LHB AC coach for use in railway.
4. Design and Development of Load Break Switch Panel

FACULTY NAME -

Prof. Omkar Swami

9

PROJECT NAME -

1. Sangli News Portal by using HTML, CSS, PHP, javascript
2. Miraj News Portal by using HTML, CSS, PHP, javascript
3. Finding efficiency and error in efficiency
4. Failure identification of submersible pump with the help of various test
5. fault detection and protection of transmission line

FACULTY NAME -

Prof. Kiran Nathgosavi

10

PROJECT NAME -

1. Design and development of three phase AC electric motor for Thruster application
2. Design and development of single phase AC electric burner Motor for Industrial burner system
3. Design and development of three phase AC Electric condensor motor for Railway application

FACULTY NAME -

Prof. Yogini Bhosale

11

PROJECT NAME -

1. Installation, Testing and Maintenance of Distribution Transformer
2. Condition Monitoring (Temperature) of High Voltage Equipment's
3. Condition Monitoring (TanDelta) of High Voltage Equipments

FACULTY NAME -

Prof. Vishal Patil

12

PROJECT NAME -

1. Roof top system for residential Buildings
2. Study of Distribution Substation
3. Maintenance of Power & Distribution Transformer
4. Maintainace Analysis of 63kVA 3 Phase Distribution Transformer

FACULTY NAME -

Dr. P K katti

ACADEMIC PROJECTS

POST GRADUATE (PG ONGOING)



1

PROJECT NAME -

Regenerative Braking for Electric Vehicle using Hybrid Energy Storage System

FACULTY NAME -

Dr. V. N. Kalkhambkar

2

PROJECT NAME -

Wireless measurement of solar panel parameters with autoclean system

FACULTY NAME -

Dr.D B Talange

3

PROJECT NAME -

Relay coordination in hybrid distribution system

FACULTY NAME -

Dr. Arun Thorat

1

PROJECT NAME -

Design and development towards net-zero carbon manufacturing industries

FACULTY NAME -

Dr. Sujil A

3

PROJECT NAME -

Demand response analysis of electricity market with renewable energy integration

FACULTY NAME -

Dr. P.P. Gupta

4

PROJECT NAME -

Effective power sharing using adaptive droop control in microgrid

FACULTY NAME -

Prof. R. A Metri



“If opportunity doesn't knock, build a door”

Milton Berlew

R & D ACTIVITIES

IRG/CONSULTANCY



1

EVENT-

One week online FDP on Artificial Intelligence for Electrical

IRG-

Rs. 38,983/-

Name of the Faculty-

Dr. V. N. Kalkhambkar
Dr. Sujil A

2

EVENT-

One month certificate program on Electrical Maintenance

IRG-

Rs. 25,800/-

Name of the Faculty-

Dr. V. N. Kalkhambkar
Prof. Sachin Kumbhar

3

EVENT-

National conference on Emerging trends in Mobility & Sustainable Development opportunities and challenges

IRG-

Rs. 10,500/-

Name of the Faculty-

Dr. V. N. Kalkhambkar

1

EVENT-

Energy Audit of Islampur Municipal council

Consultancy

Rs. 17,700/-

Name of the Faculty-

Dr. V.N.Kalkhambkar
Mr. A.N.Jadhav
Mr. S.S.Kadam
Mr. D.A. Sawant

2

EVENT-

Energy Audit of Rajarambapu College of Pharmacy

Consultancy

Rs. 17,700/-

Name of the Faculty-

Dr. V.N.Kalkhambkar
Mr. A.N.Jadhav
Mr. S.S.Kadam

3

EVENT-

Energy Audit of Shrajas Engineering Pvt.Ltd.

Consultancy

Rs. 14,986/-

Name of the Faculty-

Dr. V.N.Kalkhambkar
Mr. A. S. Pandey
Mr. S.S.Kadam

R & D ACTIVITIES

IRG/CONSULTANCY



4

EVENT-

Energy Audit of Kadgegaon
Nagarpanchayat

Consultancy

Rs. 35,400/-

Name of the Faculty-

Dr. V.N.Kalkhambkar
Mr. S.S.Kadam
Mr. D.A. Sawant

5

EVENT-

Energy Audit of Khanapur
Nagarpanchayat
Dist-Sangli.

Consultancy

Rs. 8,260/-

Name of the Faculty-

Dr. V.N.Kalkhambkar
Mr. S.S.Kadam
Mr. D.A. Sawant

6

EVENT-

Energy Audit of
Kavathemahankal
Nagarpanchayat at Dist-Sangli.

Consultancy

Rs. 29,500/-

Name of the Faculty-

Dr. V.N.Kalkhambkar
Mr. K.M. Nathgosavi
Mr. S.S.Kadam
Mr. A.N.Jadhav

7

EVENT-

Energy Audit of Bhor Muncpal
Council Bhor, Pune

Consultancy

Rs. 35,400/-

Name of the Faculty-

Dr. V.N.Kalkhambkar,
Mr. K.M. Nathgosavi.



STUDENT ARTICLE

Education: Pre and post COVID

GAOURI SHIVAJI JADHAV (2108014) :

Education is an important part of our life it can either make us or break us in the future. depending on the career we choose online. education occurs through a digital platform where. students can get educational experiences. The covid-19 Pandemic has become a global health issue and had a major impact on education. It has resulted in schools shut all across the world Globally over 1.2 billion children. were out of the classroom. In online education. digitalized tools and methods are used but in offline traditional tools & methods are used.

In this era of technology, online class System of learning turns out to be more and more popular world wide. Many schools and universities started online classes. In online class system students have a chance to study with their own pace. In online class we attend lectures from any where. Many schools and colleges are providing online classes free of Costs. Thus, online classes are helpful for those students who could not physically attend classes. Online classes save time also it cares for health. But in online education, we face many problem like network problem, extra use of mobile phone damages our eyes. Online learning may create a sense of isolation online learning require Self-discipline, it also requires training in handling instruments and most important required more screening time, which is harmful for health

"You
Do Not
Find The
Happy
Life
You Make It."

Cammila Eyring Kimball



STUDENT ARTICLE

Education: Pre and post COVID

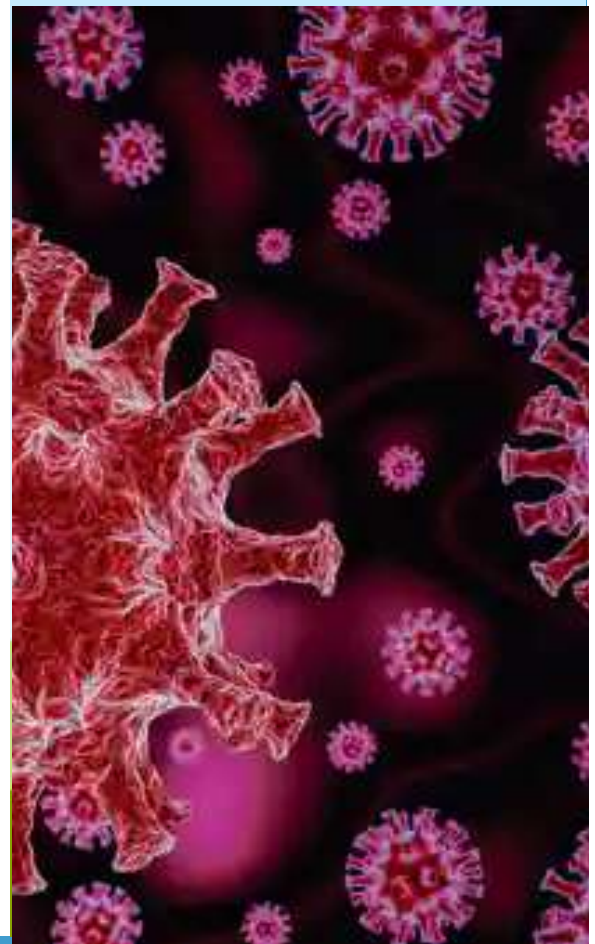
GAOURI SHIVAJI JADHAV (2108014) :

Without exams education can not be completed. In offline exams which are conducted in the classroom under the supervision of an invigilator are some what different the online exams in which the candidates appear for the exam from their home with the help of electronic devices. After online exam students have started facing offline exams. Now they can't write proper answers of question ,also they can't complete their paper within time. Hence, Students undergo stress and depression

In Online exam students get high score because question papers was of mcq type. but in offline exam students face have to write full paper, hence they can't complete their papers and can't get high score. Online learning requires 40-60% less time to learn that in traditional class room because students can learn at their own pace, revise the concepts as and when they want. Online education has made learning flexible because learners have the freedom to study at suitable time. but it is true that learning is highly dependent on the individuals motivation to learn. online education is only theoretical experiences. finally I think offline education is more beneficial than online.

"You
Do Not
Find The
Happy
Life
You Make It."

Cammila Eyring Kimball



EESA

Electrical Engineering Students association (EESA)

The Electrical Engineering Students' Association (EESA) represents students within the Electrical Engineering department. EESA is an initiative by the students, for the students.

Goal:

The main purpose of the EESA is to provide a variety of educational experiences that will encourage organization members to broaden their knowledge and increase their enthusiasm for their chosen occupational areas (i.e. occupational-related field trips, seminars, etc.).

Objectives:

- To provide opportunities for social interaction among organization members.
- To conduct various events like seminars, industrial visits, guest lectures, soft-skills development programs, fresher's party etc. and also technical and nontechnical events for assisting students
- To increase knowledge and skills in planning, delegating, decision making
- To develop a more positive and realistic attitude toward themselves, their peers and their colleagues.






ENTHUSE 2022

(A STATE LEVEL EVENT)

SCIENTISTS
STUDY THE WORLD AS IT IS
ENGINEERS
CREATE THE WORLD THAT
NEVER HAS BEEN

-Theodore von Kármán



DEPARTMENT OF ELECTRICAL ENGINEERING

RIT K.E. Society's **EESA**
Rajarambapu Institute Of Technology, Rajaramnagar
(An Autonomous Institute)

DEPARTMENT OF ELECTRICAL ENGINEERING PROUDLY PRESENTS
ENTHUSE 2K22
ENLIGHTENING THE SPARK IN YOU....



VARIOUS POSTS FOR THIS EVENT ARE HANDLED BY EESA COMMITTEE

President - Mr. Samat Pathan

Vice President - Miss. Samruddhi Karanjkar

Treasurer - Mr. Pranav Gonjari

Event Head - Mr. Sahil Bendale

Girls Representative - Miss. Pratiksha Patil

Secretary - Mr. Nikunj Jadhav

ENTHUSE 2022

Department of Electrical Engineering and Electrical Engineering Student Association of Rajarambapu Institute of Technology organizes a State Level Online Event "ENTHUSE" for aspirants and young minds from various engineering colleges. This event is organized every year with the objective to provide a platform for the students to showcase their talent with a competitive spirit. This event was held on 20 th May,2021 under the guidance of HOD, Electrical Dr. V. N. Kalkhambkar, EESA Faculty Co-Ordinator Asst. Prof. K. M. Nathgosavi and all teaching and non-teaching staff of Electrical Department.

ENTHUSE 2022....

For this event, we had near about 500+ participants from various colleges. The different events included in the ENTHUSE was decided by Event coordinators keeping in mind the need and interest of the engineering students with little emphasis on the fun full event.



WINNERS

Blast and Hunt

Winner - Gourav Anil Chavan and team, (RIT, Rajaramnagar)
Runner Up - Ashish Deepak Kurne and team, (RIT, Rajaramnagar)

Campus Star

Winner - Sanket Mundhe (RIT, Rajaramnagar)
Runner Up - Atharva Jadhav (RIT, Rajaramnagar)

Mat-sim

Winner - Tejas Kumbhar (RIT, Rajaramnagar)
Runner Up - Amar Kshirsagar (RIT, Rajaramnagar)

Idea Master

Winner - Ranjeet Nikam (RIT, Rajaramnagar)
Runner Up - Sanket Mundhe (RIT, Rajaramnagar)

EV Racer

Winner - Shreyash Sanap.) (RIT, Rajaramnagar)
Runner Up -Soumitra Kagalkar (RIT, Rajaramnagar)

EDITORIAL BOARD



Dr. V. N. Kalkhambkar
Head Of Department



Dr. Sujil A
Editor in Chief

This newsletter has covered all the events from January 2022 to July 2022 which were organized in and by Electrical Engineering Department. We are here going to invite suggestions for improvement, if any, with warm regards.

Student Editorial TEAM



Harish Vishal Londhe



Mrunal Kiran Kadam



Sucheta Sudhakar Jagtap