

# ELECTROZ

NEWSLETTER 2020-2021

VOL. 5, JULY 2021



Department of Electrical & Electronics Engineering

**ANDHRA LOYOLA**

**INSTITUTE OF ENGINEERING AND TECHNOLOGY: Vijayawada-08**

*( Accredited by NAAC, Affiliated to JNTU Kakinada )*



*"A Fire that kindles other fires"*



# ELECTROZ

*Create. Enhance. and Sustain.*

**NEWSLETTER (2020-2021)**

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY



## Message from Head of Department

Greetings from the Department of EEE, ALIET! It gives me immense pride and pleasure to lead the Department of EEE of this esteemed institution. The field of Electrical and Electronic Engineering encompasses many technologies such as power systems, electrical machines, control systems, electromagnetic theory, and computer methods employed in all these areas, which have been among the fastest growing and most challenging technologies that enable the development of the modern world.

ELECTROZ aims to inform you the research activities, new initiatives, and achievements of faculty & students of the department. The students of the department get opportunities to excel in their academic area. As the future of the technocrats holds many challenges, the department strives to transform the students into intellectuals by going beyond academics.

We welcome you to connect with us with your expertise and encourage us to excel in our endeavour. I hope you will join us in celebrating our journey towards excellence.

**Dr. G. Naveen Kumar**



# Vision and Mission

## Institute Vision:

In accordance with the Jesuit vision of higher education, ALIET imparts technical education in the realm of higher education with integral formation which involves academic excellence, spiritual growth, social commitment and value-based leadership.

## Institute Mission:

The mission of Jesuit education at ALIET is to form “men and women for others” and mould them as global citizens with competence, conscience and compassionate commitment. Special concern is shown towards socially and economically marginalized students.

## Department Vision:

To mould the students as efficient Electrical & Electronics Engineers by providing quality education with skills and character to serve the society.

## Department Mission:

**M1-** To provide high quality teaching and services that render the students a supportive environment.

**M2-** Making the effort to mould the students to be the problem solvers and to be able to apply engineering principles to electrical systems.

## ABOUT THE DEPARTMENT:

The Department of EEE has been offering a full-time four-year B. Tech Degree course since the inception of the institution. The department is provided with all required infrastructural facilities like well-equipped laboratories, well qualified & dedicated faculty and technically sound supporting staff. It is continuously striving to impart quality education and competitive spirit among students for academic excellence. Many of our students' have been published papers in various national & international technical symposiums. The Department offers placements in various MNCs and Core companies.

## **Program Outcomes:**

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and Engineering sciences.
3. **Design/Development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage :** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

## **Program Specific Objectives:**

**PSO1:** To understand growing and increasing demands of electrical related technology and design appropriate cost effective solutions through hardware and simulation.

**PSO2:** To cater to new challenges in generation and utilization of renewable energy systems for a green tomorrow.

## **Program Educational Objectives:**

Program educational objectives are broad statements that describe the career and professional accomplishments that the **program** is preparing graduates to achieve.

### **Program Educational Objective - I**

Graduates shall have a solid foundation in Mathematics, Science, Electrical, Electronics and allied engineering applications, capable of analyzing, design and development of systems for Energy Generation, Transmission, Distribution, Operation and Control.

### **Program Educational Objective - II**

To develop engineers with broad perspective and orientation to work for the electrical equipment manufacturing industries in the fields of electrical machines, drives and controls.

### **Program Educational Objective - III**

To train the students with strong background in electrical engineering sciences for research and higher education & to increase the capabilities of students to face competitive exams.

### **Program Educational Objective - IV**

To develop engineers with broad perspective and orientation to work in the area of Non-conventional energy resources with social and environmental concern.

# Academic Year 2020-2021

Regular class work commenced from 17<sup>th</sup> Aug 2020 to all the II, III and IV B.Tech students with lot of enthusiasm. Special care has been taken in this academic year by the faculty for obtaining maximum results and for contributing for the all-round development of the students.

## Teaching Faculty Members:

- Dr. G. Naveen Kumar, Professor, **HOD**
- Dr. M. Ajay Kumar, Associate Professor
- Mrs. V. Anantha Lakshmi, Assistant Professor
- Mr. G. Gantaiah Swamy, Assistant Professor
- Mr. L. Karunakar, Assistant Professor
- Mr. T. Krishna Mohan, Assistant Professor
- Mr. M. Rama Krishna, Assistant Professor
- Mr M Ramesh Kumar, Assistant Professor
- Mr D Ravi Kiran, Assistant Professor
- Mrs. Alapati Sireesha, Assistant Professor
- Mrs. CH Soundarya, Assistant Professor

## Non-Teaching Faculty:

- Mr. S. Shekar Babu
- Mr. S. Siva
- Mr. K. Venu Babu

## Students Details:

Year & Branch	Student Strength
IV-EEE	57
III-EEE	63
II-EEE	72

## New Faculty Induction

- **Mr D. Ravi Kiran**, Assistant Professor, new faculty was added in the department of EEE.

**Ravi Kiran Dasari** was born in Andhra Pradesh, India, in 1987. He received his bachelor's degree in Electrical and Electronics Engineering from JNTUK University, Andhra Pradesh, India, in 2009 and master's degree in Power Electronics and Drives from JNTUK University, Andhra Pradesh, India, in 2013.



From 2009 to 2011, he is an Engineer in Vijay Agro Power Plant, Vijayawada, India. From 2013 to 2016, he worked as an Assistant Professor in Eluru College of Engineering, AP, India, in the Department of Electrical and Electronics Engineering. From 2016 to 2020, he is associated with Sri Gajanan e-slates as Research Associate, to work towards Electric Vehicle Design and analysis and Special machines Drive Design. From 2020, he is an Assistant Professor in Andhra Loyola Institute of Engineering and Technology, AP, India, in the Department of Electrical and Electronics Engineering.

His research interests include Electric Vehicles, Power Electronics converters, renewable energy conversions, Special Machine Drives and power quality control.

- **Mr M Ramesh Kumar**, Assistant Professor, new faculty was added in the department of EEE.



**Mr. M. Ramesh Kumar** received his Masters from JNTU, Kakinada, India and currently working as an Assistant professor in the Department of Electrical & Electronics Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada.

**Mr. M. Ramesh Kumar** has worked for 6.5 years in the D.V.R & Dr H.S MIC College of Technology, Kanchikacherla and overall, he has 8 years of

teaching experience. He published 6 research papers in various reputed journals, and International/ National conferences. His Current research interest includes Special Electrical Machines, Multi-Level Inverters.

- **Mrs. Alapati Sireesha**, Assistant Professor, new faculty was added in the department of EEE.

**Alapati Sireesha**, post-graduated from Jawaharlal Nehru Technological University, Kakinada in Dec, 2020 under Power Electronics and Drives specialization. Graduated from Gudlavalleru Engineering College in May, 2017 in the branch of Electrical and Electronics Engineering. Presently, she is working as Assistant Professor in the department of EEE at Andhra Loyola Institute of Engineering & Technology (ALIET), Vijayawada.



- **Mrs. CH Soundarya**, Assistant Professor new faculty was added in the department of EEE.

**Chejerla Soundarya**, Post- Graduated from JNTU-A in Dec, 2018 Under Power Electronics and Drives Specialization. Graduated from N.B.K.R.I.S.T College in May 2015 in the branch of Electrical and electronics engineering. Presently, she is working as Assistant Professor in the department of EEE at Andhra Loyola Institute of Engineering & Technology (ALIET), Vijayawada.





# ACADEMIC TOPPERS

## II B. Tech II Semester Regular Examinations

1. Mr **P H V Sai kishore** with Hall ticket number 19HP5A0207 secured **FIRST** rank with a SGPA of 8.3.



2. Mr. **N Krishna Reddy** with Hall ticket number 18HP1A0229 secured **SECOND** rank with a SGPA of 8.1.



N. Krishna Reddy.

3. **P Roshini Devi** with Hall ticket Number 19HP5A0204 secured **THIRD** rank with a SGPA of 8



4. Mr. **T Ajay Babu** with Hall ticket Number 19HP5A0206 secured **THIRD** rank with a SGPA of 8



### III B. Tech II Semester Regular Examinations

1. **Miss K. PRIYANKA** with Hall ticket number 17HP1A0214 secured **FIRST** rank with a SGPA of 8.8.



2. **Miss R P N S Prasanna** with Hall ticket number 17HP1A0215 secured **FIRST** rank with a SGPA of 8.5



3. **Mr. P.ROHIT KUMAR with** Hall ticket number 18HP5A0211 secured **THIRD** rank with a SGPA of 8.4.



## IV B. Tech II Semester Regular Examinations

1. **Ms. B. NAGA VENKATA DURGA DAKSHAYANI** with Hall ticket number 16HP1A0217 secured second rank with a SGPA of 8.8.



2. **Ms. S Sabeeha** with Hall ticket number 16HP1A0223 secured second rank with a SGPA of 8.5.



Sabeeha Sabeeha

3. **Ms. N Vindhya** with Hall ticket number 16HP1A0228 secured second rank with a SGPA of 8.5.



N. Vindhya

4. Mr. **M FARROKHAALI** with Hall ticket number 17HP5A0206 secured **SECOND** rank with a SGPA of 8.5.



## ACADEMIC TOPPERS

### II B. Tech I Semester Regular Examinations

1. Mr K JAYARAM BIHARI with Hall ticket number 20HP5A0214 secured **FIRST** rank with a SGPA of 8



2. Ms. G BHARATHI with Hall ticket number 20HP5A0201 secured **SECOND** rank with a SGPA of 7.9



3. Mr. M AJAY KUMAR with Hall ticket Number 19HP1A0213 secured **THIRD** rank with a SGPA of 7.8



4. Mr. K KARTHIK with Hall ticket Number 20HP5A0216 secured **THIRD** rank with a SGPA of 7.8



### III B. Tech I Semester Regular Examinations

1. **Mr N KRISHNA REDDY** with Hall ticket number 18HP1A0229 secured **FIRST** rank with a SGPA of 9.2.



N. Krishna Reddy

2. **Mr T AJAY BABU** with Hall ticket number 19HP5A0206 secured **SECOND** rank with a SGPA of 8.9



3. Mr. **S VENKATA RAVINDRA REDDY** with Hall ticket number 18HP1A0251 secured **SECOND** rank with a SGPA of 8.9.



S.V. Ravindra Reddy

## IV B. Tech I Semester Regular Examinations

1. Ms. K PRIYANKA with Hall ticket number 17HP1A0214 secured second rank with a SGPA of 9.9



2. Mr P ROHITH KUMAR with Hall ticket number 18HP5A0211 secured second rank with a SGPA of 9.2

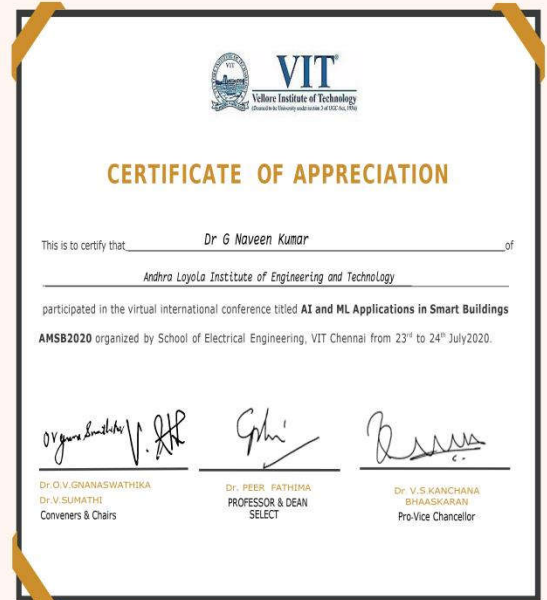


3. Mr R PURNA NAGA SAI PRASANNA with Hall ticket number 17HP1A0215 secured THIRD rank with a SGPA of 8.9



# Workshops/FDPs Attended by Faculty

- List of Online Faculty Development Programs attended by **Dr. G. Naveen Kumar**, Professor & HoD.





**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**  
 WARANGAL- 506 015  
 (An AUTONOMOUS Institute Under Kakatiya University, Waranga)  
 DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



**PARTICIPATION CERTIFICATE**

No: KITSW/EEED/FDP/MGEVAA20/P015

This is to certify that **Dr G NAVEEN KUMAR** working as **Associate Professor** in **Andhra Loyola Institute of Engineering and Technology** has actively participated in ISTE sponsored one week online faculty development program on **“MICRO GRID, ELECTRIC VEHICLES AND ALLIED AREAS (MGEVAA-20)”** organized by Department of Electrical & Electronics Engineering held during **1<sup>st</sup> to 5<sup>th</sup> June, 2020.**

Prof. V. Rajagopal  
 Coordinator, MGEVAA-20  
 Professor, EEED, KITSW.

Prof. C. Venkatesh  
 Convener, MGEVAA-20  
 Professor & HoD, EEED, KITSW.

Prof. K. Ashoka Reddy  
 Principal, KITSW.

### CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**G NAVEEN KUMAR**

FOR PARTICIPATING IN THE 5 DAY INDUSTRY FOCUSED PROGRAM ON

**THE ROLE OF ENGINEERS IN MAKING INDIA A FIVE TRILLION DOLLAR ECONOMY**

THIS EVENT WAS HOSTED BY UNITIEUP ([WWW.UNITIEUP.COM](http://WWW.UNITIEUP.COM)) IN  
 PARTNERSHIP WITH REYNLAB ([WWW.REYNLAB.COM](http://WWW.REYNLAB.COM))  
 STARTING FROM 22nd JUNE, 2020 TO 26th JUNE, 2020 EVERYDAY BETWEEN 06:30 PM AND 07:30 PM  
 WE THANK YOU FOR YOUR INTEREST AND PRESENCE IN THIS ONLINE EVENT

26th June, 2020		
Date	Ashok Kumar Manimaran, <small>Founder - Unitieup</small>	Sajeeth Kumar, <small>Founder CEO - REYNLAB</small>



**VAAGDEVI COLLEGE OF ENGINEERING**  
 Bollikunta, Warangal, Telanagana-506005



**Certificate**

This Certificate is presented to  
 Prof./Dr./Mr./Mrs./Ms. **G NAVEEN KUMAR**  
 of **Andhra Loyola Institute of Engineering and Technology**  
 for participating in One Week Online FDP on  
**“Tools for Scientific Communication and Effective Teaching”**  
 Organized by Electrical and Electronics Engineering Department, VCE.  
 During 2<sup>nd</sup> June – 6<sup>th</sup> June 2020

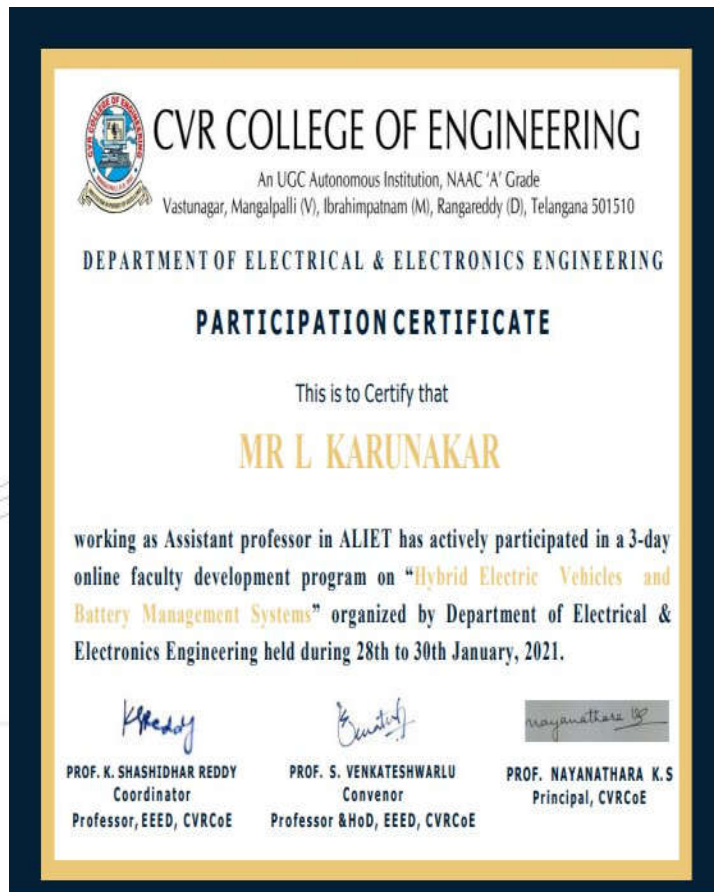
**Dr. Durga Hari Kiran B**  
 Coordinator

**Dr. Y Hareesh Kumar**  
 Head of the Department

**Prof. K Prakash**  
 Principal



- List of Online Faculty Development Programs attended by **Mr L Karunakar**



- List of Online Faculty Development Programs attended by **Mr M Rama Krishna**



- **Dr M Ajay Kumar**, acted as a **Keynote Speaker** for the International Faculty Development Programme on **Empowering Teacher Education and Technology**, during 22-28<sup>th</sup> Febuary 2021, Jointly Organized by GDC Darhal, UT of J&K and Cape Comorin Trust, India.



- **Dr. M. Ajay Kumar**, has appointed as **AICTE certified mentor** for technical Teachers and attended a **One-week Online Training programme** during 30<sup>th</sup> Nov to 4<sup>th</sup> Dec 2020, organized by AICTE, New Delhi.



- **Dr. M. Ajay Kumar** has attended the following online faculty development programmes during the Academic year 2020-2021.



- **Dr. M. Ajay Kumar** has conducted a three day National level online FDP on **"Driving Technologies for Electrical systems"** during 29/6/21 to 01/7/21.



# ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY

Vijayawada, Andhra Pradesh-520008.  
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada, Accredited by NAAC & Certified by ISO:9001:2015.



## Certificate of Appreciation

This is certified that **Dr. M. Ajay Kumar, Associate Professor** of **ALIET** for successfully coordinating a **THREE DAY NATIONAL LEVEL ONLINE FDP** on the theme **“Driving Technologies for Electrical Systems”** from **29-06-2021 to 01-07-2021** organized by **Department of Electrical & Electronics Engineering** in collaboration with **IQAC** at **Andhra Loyola Institute of Engineering & Technology**.

Certificate ID: XXXKMOM-EE00001

Coordinator  
Mrs. V. Anantha Lakshmi

Head of the Department  
Dr. G. Naveen Kumar

Principal  
Dr. O. Mahesh

Director  
Fr. Dr. A. Francis Xavier

- List of Online Faculty Development Programs attended by **Mr M Ramesh Kumar**.

**VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE**  
Vignan Hills, Near Ramoji Film City, Deshmukhi (V), Pochampally (M), Yadadri Bhuvanagiri (D), Telangana - 508 284

SQ8FIQ-CE000031

**Certificate of Participation**

This is to certify that Dr./Mr./Ms./Mrs. Ramesh Kumar Mente Andhra Loyola Institute of Engineering and Technology has participated in online webinar on **“Enhanced Power Quality Based Grid-Tie PV System for Plug-in Electric Vehicle”**, conducted by Department of Electrical & Electronics Engineering in ZOOM on 30<sup>th</sup> March, 2021.

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

Event Coordinator

Head of the Department

Principal

Made for free with Certify'em

**Aditya Institute of Technology and Management**  
(Autonomous)  
Tekkali, Srikakulam (Dist.), A.P.(St.)

**Certificate of Participation**

This is to certify that Mr./Mrs./Dr./Prof **Ramesh Kumar Mente** from **Andhra Loyola Institute of Engineering and Technology, Vijayawada** has participated in **AICTE Sponsored Short Term Training Program on “Application of Advanced Techniques to Control Microgrid (AATCM-2021)”** held during **6<sup>th</sup> APRIL to 11<sup>th</sup> APRIL-2021**, organized by **Department of Electrical and Electronics Engineering, AITAM, Tekkali**.

Coordinator

HOD

Principal

Director (R&D)

Director

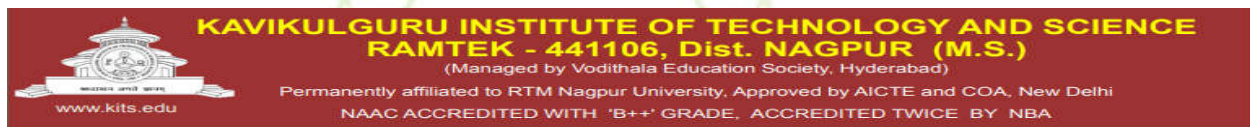
- List of Online Faculty Development Programs attended by **Mrs. V. Anantha Lakshmi.**



➤ List of Online Faculty Development Programs attended by **Ms. A SIREESHA.**



➤ List of Online Faculty Development Programs attended by **Mr. T. Krishna Mohan,**



**Certificate of Participation**

**Krishna Mohan Tatikonda**

has successfully completed the Online Faculty Development Program on  
**"Emerging Trends in Electrical Engineering (ETEE-2020)"**  
organized by Department of Electrical Engineering and Internal Quality Assurance Cell (IQAC) from 2<sup>nd</sup> - 4<sup>th</sup> July'2020.

Certificate ID: KITS/ELD-FDP/2020/133

Dr. Sachal P. Pachpor  
Convener & Head, Electrical Engg.

Dr. R. K. Bopche  
IQAC Co-ordinator

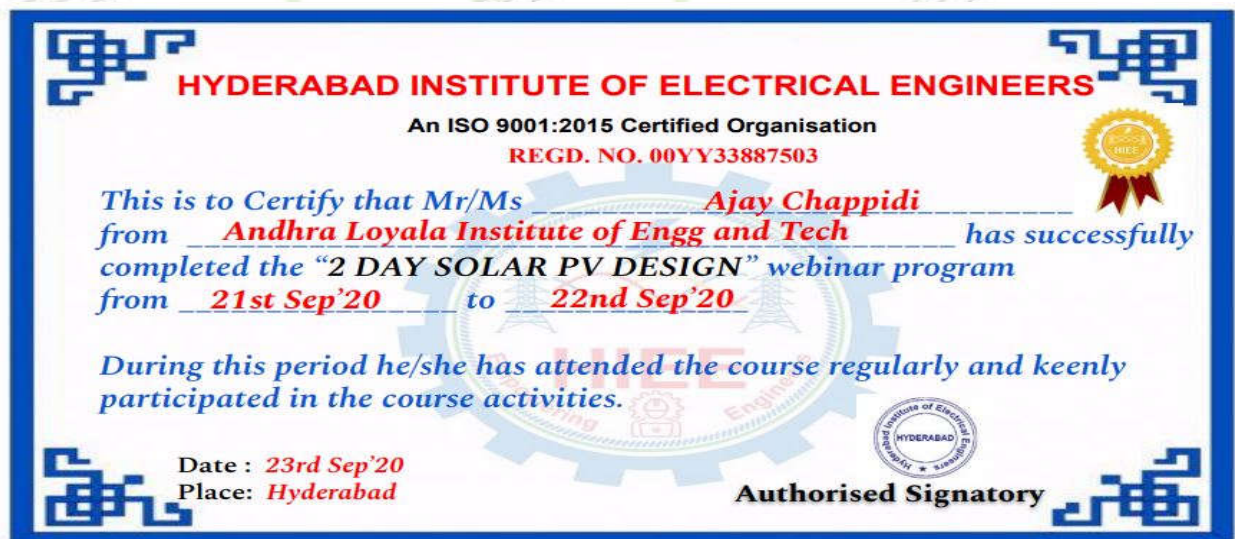
Dr. B. Ram Rathan Lal  
Principal

# WORKSHOPS ATTENDED BY STUDENTS

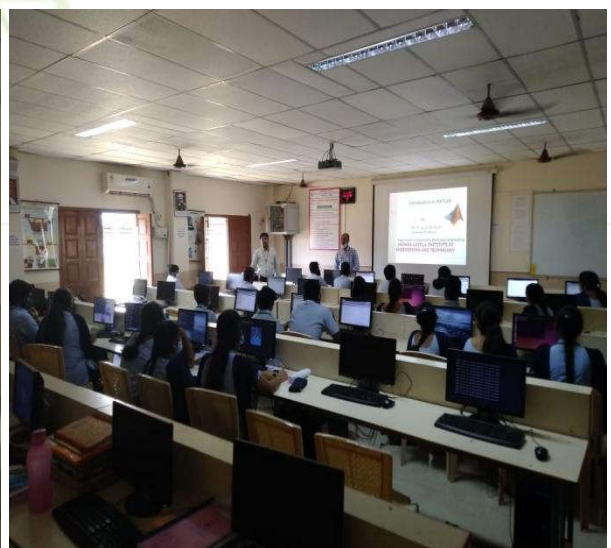
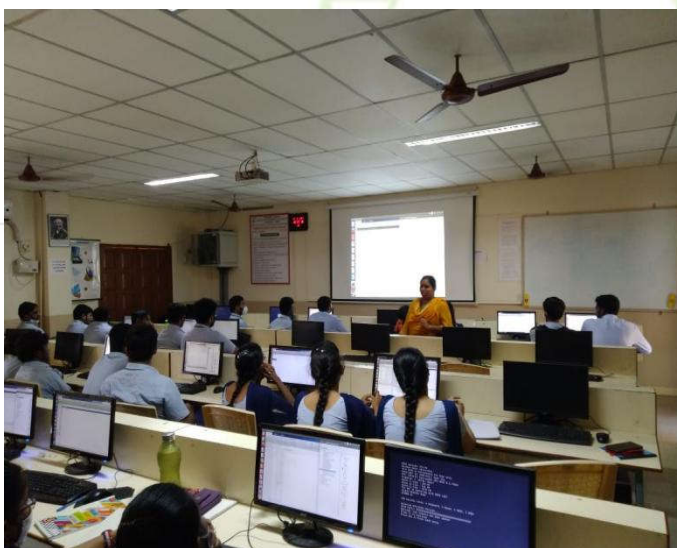
## A TWO DAY NATIONAL LEVEL e-WORKSHOP on “Solar PV Plant Design”

In Collaboration with IQAC the department of EEE undergone a TWO DAY NATIONAL LEVEL e-WORKSHOP on “**Solar PV Plant Design**” in association with HIEE from 21<sup>st</sup> to 22<sup>nd</sup> Sep 2020. . Totally 29 students of II, III, IV- EEE were participated in this workshop.

The students expressed that the programme was very helpful for their technical growth and it created a platform to do research oriented projects in the field of electrical engineering.



Michael Faraday Research Centre, an initiation of the Department of Electrical & Electronics Engineering, organized **A FIVE DAY TECHNICAL WORKSHOP On APPLICATIONS OF MATLAB IN ELECTRICAL ENGINEERING** on 15<sup>th</sup> to 19<sup>th</sup> Feb 2021. The event was inaugurated at 9.00 A.M. around 50 students from various colleges participated in this workshop.



## GUEST LECTURES given by faculty:

**Dr. M Ajay Kumar**, Associate Professor, Department of Electrical and Electronics Engineering, has given a Guest Lecture on 22<sup>nd</sup> Oct 2020 on the theme of **“Teaching and learning methodologies”** for all faculty members of ALIET.



## INDUSTRIAL VISITS

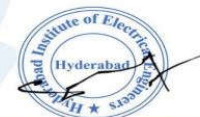
- The Department of Electrical Engineering organized an Virtual Visit to **“Switch gear Panel Manufacturing Unit”** for 3<sup>rd</sup> Year B.Tech. Electrical students (60) on 22<sup>nd</sup> July 2020.

### CERTIFICATE OF PARTICIPATION

awarded to

**A.S.S.CHITKALA**

In Recognition and Appreciation of your contribution as participant in  
“Switch gear Panel Manufacturing Unit Virtual Visit” dated on 22 July 2020.



**SREEDHAR THOKALA**  
CEO-HIEE



The Department of Electrical Engineering organized an Virtual Visit to "**Solar PV Manufacturing Unit**" for 3<sup>rd</sup> and 4<sup>th</sup> Year B.Tech. Electrical students on 07-10-2020



The Department of Electrical Engineering organized a Virtual Visit to "**132KV/33KV Substation**" for 3<sup>rd</sup> Year B.Tech. Electrical students on 02-10-2020

## CERTIFICATE OF PARTICIPATION

awarded to

**Tejpaul**

In Recognition and Appreciation of your contribution as participant in  
"Substation Virtual Visit" dated on 02 August 2020.



**SREEDHAR THOKALA**  
CEO-HIEE

# FDP on Driving Technologies for Electrical Systems

A Three-Day National Level Online FDP on **Driving Technologies for Electrical Systems** was held at the Department of Electrical and Electronics Engineering, from **29<sup>th</sup> June to 1<sup>st</sup> July 2021** through Microsoft Teams APP. The programme was graced by 42 members from various colleges.

## Day: 1

Day 1 lead by **Dr. K. Harinadha Reddy**, Prof.& Vice Principal, LBRCE, Mylavaram., delivered a lecture on Artificial Intelligence techniques for renewable energy systems.

The screenshot shows a Microsoft Teams meeting interface. The main content is a presentation slide from Andhra Loyola Institute of Engineering and Technology (VIJAYAWADA - 520008). The slide text reads: "ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY: VIJAYAWADA – 520008 (Accredited by NAAC, Affiliated to JNTU Kakinada) Department of Electrical & Electronics Engineering is conducting A Three-Day National Level Online FDP on Driving Technologies for Electrical Systems from 29th June to 1st July 2021. Day 1 : Keynote Speaker- Dr. K. Harinadha Reddy, Professor and Vice-principal, Lakireddy Bali Reddy College of Engineering, Mylavaram. Topic: Artificial Intelligence Techniques for Renewable Energy Systems". The slide also features the institute's logo. The Teams interface includes a 'People' list on the right with participants like Dr. K. Harinadha Reddy, francis xavier (Guest), G.Gantaiah Swamy, HANUMANTHU MALLESAM, Kiran Kumar Gopu (Guest), Kshipra Pandey (Guest), M.Prabha (Guest), Mahesh, naveenkumar.g, RAKESH DAS (Guest), and Rev Fr.J.Chiranjivi. A bottom toolbar shows icons for chat, mute, video, and other meeting controls.

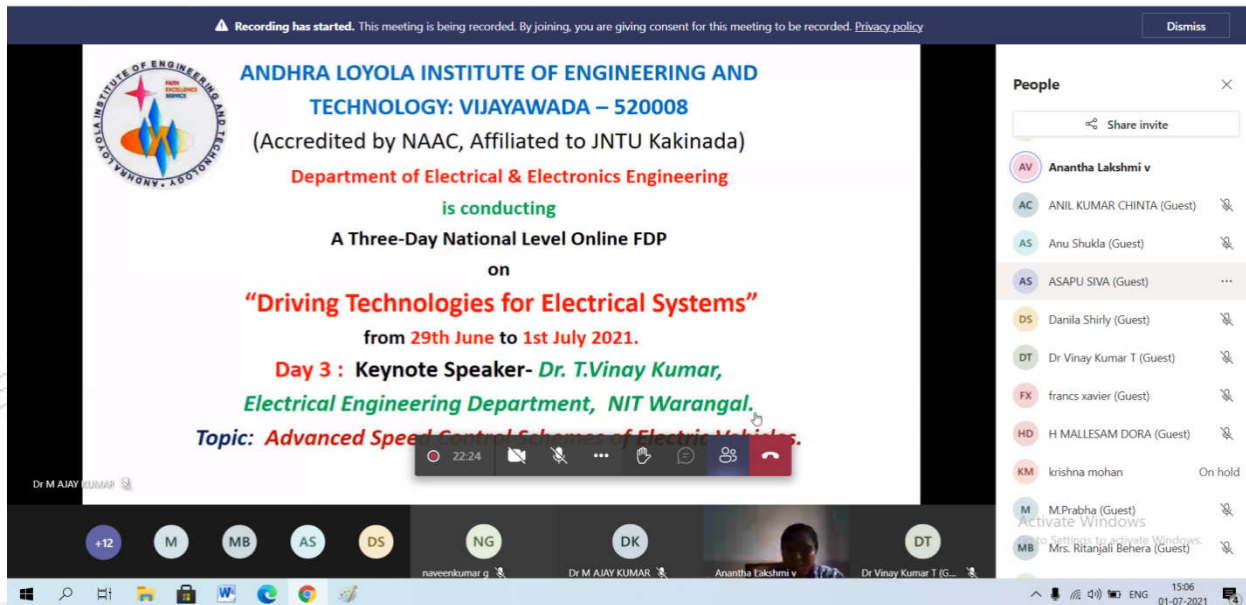
## Day :2

Day 2 lead by **Dr. S. Surender Reddy**, Associate professor, Woosong University, Daejeon, Republic of Korea, delivered a lecture on Energy and Ancillary Services Optimization in a Power System with Renewable Energy Sources.

The screenshot shows a Microsoft Teams meeting interface. The main content is a presentation slide from Andhra Loyola Institute of Engineering and Technology (VIJAYAWADA - 520008). The slide text reads: "ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY: VIJAYAWADA – 520008 (Accredited by NAAC, Affiliated to JNTU Kakinada) Department of Electrical & Electronics Engineering is conducting A Three-Day National Level Online FDP on 'Driving Technologies for Electrical Systems' from 29th June to 1st July 2021. Day 2 Schedule: Keynote Speaker- Dr. S. Surender Reddy, Woosong University, Daejeon, Republic of Korea. Topic: Optimal Operation of Power System with Renewable Energy and Storage". The slide also features the institute's logo. The Teams interface includes a 'People' list on the right with participants like 18H91A022Z, 18HP5A0208, A.BALAMURUGAN, VMKVEC, Anantha Lakshmi v, ANIL KUMAR CHINTA (Guest), Dr. Surender Reddy Salkuti (...), G.Gantaiah Swamy, krishna mohan, L. Ramya Hyacinth (Guest), naveenkumar.g, PRIYA (Guest), and S Ravi Teja. A bottom toolbar shows icons for chat, mute, video, and other meeting controls.

## Day :3

Day 3 lead by **Dr. T. Vinay Kumar**, Department of Electrical Engineering, NIT Warangal. delivered a lecture on different speed control algorithms for Electric drives etc.



The screenshot shows a Zoom meeting interface. The main content is a presentation slide from Andhra Loyola Institute of Engineering and Technology (VIJAYAWADA – 520008). The slide text reads: "ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY: VIJAYAWADA – 520008 (Accredited by NAAC, Affiliated to JNTU Kakinada) Department of Electrical & Electronics Engineering is conducting A Three-Day National Level Online FDP on 'Driving Technologies for Electrical Systems' from 29th June to 1st July 2021. Day 3 : Keynote Speaker- Dr. T.Vinay Kumar, Electrical Engineering Department, NIT Warangal. Topic: Advanced Speed Control Schemes of Electric Motors." The slide also features the institute's logo and a recording notice at the top: "Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy". A "Dismiss" button is visible in the top right corner of the slide area. On the right side of the Zoom window, a "People" panel lists participants: Anantha Lakshmi v, ANIL KUMAR CHINTA (Guest), Anu Shukla (Guest), ASAPU SIVA (Guest), Danila Shirly (Guest), Dr. Vinay Kumar T (Guest), francs xavier (Guest), H MALLE SAM DORA (Guest), krishna mohan (On hold), M.Prabha (Guest), and Mrs. Ritanjali Behera (Guest). The bottom of the Zoom window shows a toolbar with icons for mute, video, chat, and other functions, along with a taskbar at the very bottom displaying the system clock as 15:06 on 01-07-2021.

The programme was very helpful for the faculty for their research work and enhancing their knowledge.

# GUEST LECTURES

## 1. PRACTICAL EXPOSURE OF EHT Lines & GRID MANAGEMENT

The Department of Electrical and Electronics Engineering has conducted a Guest Lecture on 5<sup>th</sup> July 2021 on **“PRACTICAL EXPOSURE OF EHT Lines & GRID MANAGEMENT”**. It was delivered by **Er. G SRI HARI**, AEE /APTRANSCO, Vijayawada for the students of **2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year EEE**. More than 150 students were participated in the programme and students stated that the programme was very useful for their technical growth on power system.

The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "TRANSMISSION NETWORK" with the following data:

Category	Item	Value
TRANSMISSION LINES	a) 400 kV	- 5300.53 Ckm
	b) 220 kV	- 11717.38 Ckm
	c) 132 kV	- 13675.86 Ckm
Sub - stations	a) 400 kV	- 15 Nos.
	b) 220 kV	- 100 Nos.
	c) 132 kV	- 225 Nos.
TOTAL		- 348 Nos.

The meeting interface also shows a list of participants on the right, including presenters and attendees.

## 2. Modern power systems analysis using AI/ML applications

In Association with Skill APSSDC, Department of Electrical and Electronics Engineering has conducted a Webinar on 26<sup>th</sup> June 2021 on **“Modern power systems analysis using AI/ML applications”**. It was delivered by **Karthikeyan M. Madhu** industrial expert & educator | skillDzire for the students of **2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year EEE**. The programme was very helpful for the students for their technical growth on power systems.

The banner features the SkillDzire logo on the left and the Skill AP APSSDC logo on the right. The main text reads "Modern Power Systems analysis using AI / ML Applications". Below the text is an illustration of a power grid with wind turbines, solar panels, and transmission towers. At the bottom left is a portrait of Karthikeyan M. Madhu. To the right of the portrait, the text says "Free LIVE Session" followed by a clock icon, "05 PM June 26, 2021", and a microphone icon, "Karthikeyan M. Madhu Industrial Expert & Educator | SkillDzire".

### 3. ROAD SAFETY INFORMATION

In Association with Loyola electrical engineers student chapter, IETE students' forum (ISF) CHAPTER AND COLLABORATION WITH IQAC The Department of Electrical and Electronics Engineering has conducted a Webinar on 23<sup>rd</sup> June 2021 on “**ROAD SAFETY INFORMATION**”. It was delivered by **Mr. Amit Narayana rao kadam**, Sr. EXECUTIVE ENGINEER, Honda motor cycle 7 scooter pvt. limited for the students of 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year EEE.

**A Webinar on “ROAD SAFETY INFORMATION”**

Organised by Department of  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

(in association with Loyola Electrical Engineers Students chapter, IETE Students' Forum (ISF) Chapter and Collaboration with IQAC)

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY**

**HONDA**

**IETE**

**ROAD SAFETY FIRST**

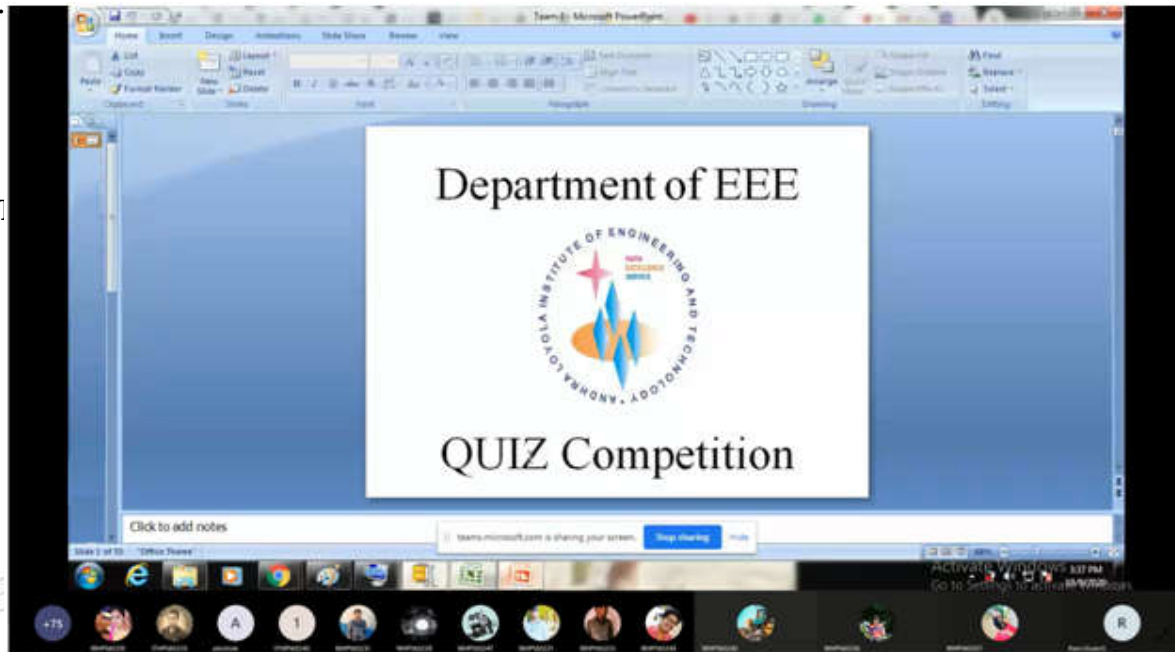
**DATE:**  
23-06-2021  
From: 2:30 p.m  
to 3:30p.m

**RESOURCE PERSON:**  
**Mr. Amit Narayana rao Kadam**  
Sr. executive engineer  
HONDA motor cycle & Scooter pvt. limited

### 4. World Safety and Health Work Day

As part of extension activities and the Occasion of “**World Safety and Health Work Day**” The department of Electrical and Electronics Engineering conducted Online Quiz Competition on for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year students on 28<sup>th</sup> Apr 2021. The quiz was organized by the faculty in-charge Mr. M. Ramesh Kumar

A total of 78 students participated in the quiz through online mode “Microsoft teams App” and finally three students was declared the winner of the contest.



5. The students of EEE department attended for the guest lecture on **Environmental legislation and role of cleaner production technologies to control pollution** conducted on 4-DEC-2020 organised by Science and Humanities of ALIET



6. In Association with IQAC, the Department of Electrical and Electronics Engineering, has conducted a Webinar on 31<sup>st</sup> May 2021 on “**Career opportunities after B.E/B.Tech in EEE**”. It was delivered by Mr. P. Ramesh Faculty at ACE Academy, Hyderabad. The students of 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year EEE were participated in this webinar.

# Technical Quiz

The Department of Electrical and Electronics Engineering conducted Technical Quiz competition for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year students on 08-07-2021. The quiz was organized by the faculty in-charge Mr. L. Karunakar.

A total of 26 students registered for the Quiz competition. The students were divided into 5 teams (each consisting of five students) one for each year and the team with the highest score was declared the winner of the contest.

*Andhra Loyola Institute of Engineering and Technology*

## Certificate



*This is to certify that Mr./Ms. **PENUMAKA PRAGNA** of **SECOND YEAR** has participated in *Technical Quiz*, organized by Department of Electrical & Electronics Engineering, held on 8<sup>th</sup> JULY, 2021.*

  
**Dr. G. Naveen Kumar**  
H.O.D, EEE

  
**Dr. O. Mahesh**  
Principal

## PROJECT EXPO:

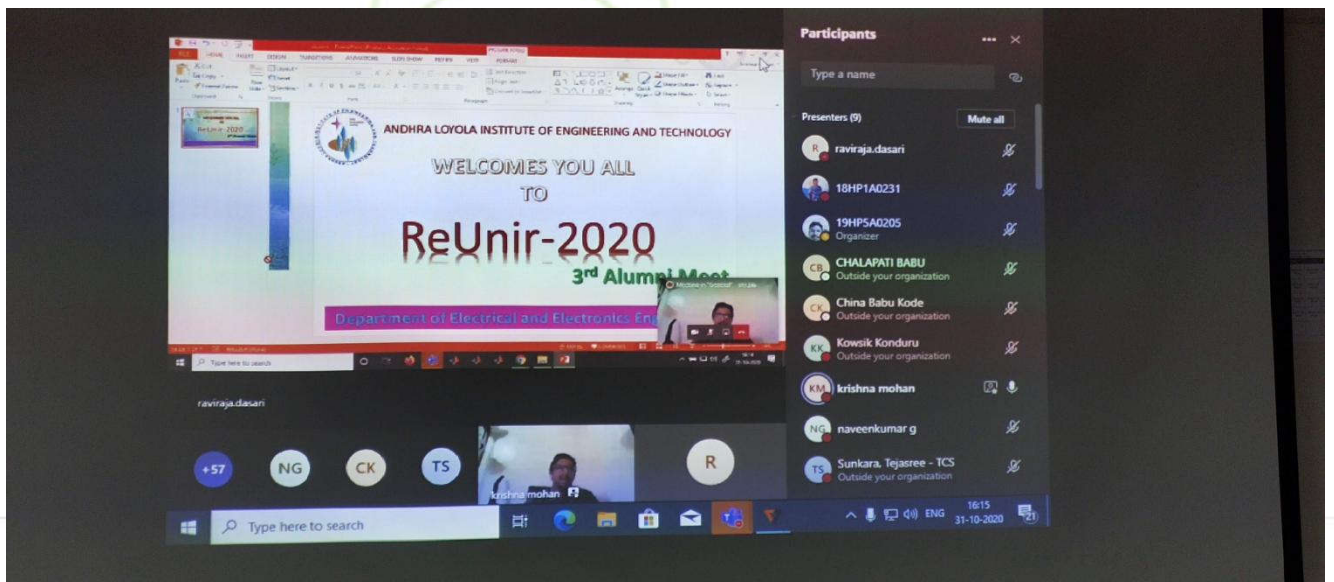
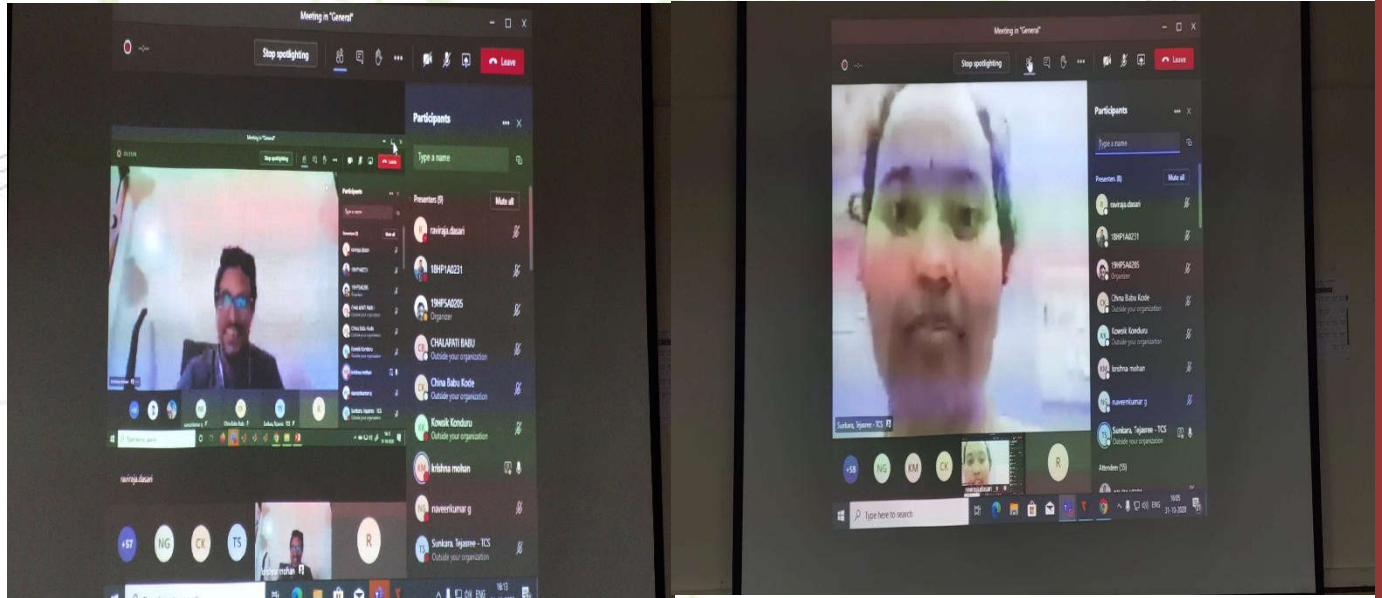
Michael Faraday Research Centre, a brainchild of the Department of Electrical & Electronics Engineering, organizes PROJECT EXPO every year on projects prepared by the Electrical students.





## REPORT OF ALUMNI MEET-2021

The second alumni Meet, ReUnir-2021, was inaugurated by Department of electrical & electronics engineering on 31<sup>st</sup> October 2020. Director **Rev. Fr. Dr. A. Francis Xavier S.J**, graced the occasion in his presence. The alumni students were invited to attend the Alumni Meet through Invitation letters/invitation cards/emails.





## ACHIEVEMENTS

As a part of Final Year Academic Project, the students of IV-EEE under the guidance of **Mr. D. Ravi Kiran(Ph.D)**, developed an Electrical Vehicle to carry the food material from Loyola College central canteen to all college hostels. The Loyola College Society sponsored amount of Rs. 3,50,000 to this project. The configuration of EV are mentioned below.




Voltage: 72V

6KWh Battery,

Max.Speed: 40kmph


Max. Torque = 208NM

- Getting GATE score or rank is a difficult task due to rising competition at present. Very less students are even aware of the places or courses in which students can use their GATE score. This is really very important activity and students must take it seriously. To achieve this, the department of EEE provide the GATE coaching class as a part of regular time-table to the final year students.



## GATE 2021 Scorecard

Graduate Aptitude Test in Engineering (GATE)




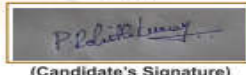
Candidate's Details

Name: **ROHITH KUMAR PALLAPU**

Parent's / Guardian's Name: **GOPAL**

Registration Number: **EE21S36066272**      Date of Birth: **21-Jul-1999**

Examination Paper: **Electrical Engineering (EE)**

(Candidate's Signature)

Performance

GATE Score: **335**

Marks out of 100\*: **29**

Qualifying Marks\*\*

General: <b>30.3</b>	EWS/OBC (NCL): <b>27.2</b>	SC/ST/PwD: <b>20.2</b>
----------------------	----------------------------	------------------------


Number of Candidates Appeared in this paper: **87559**

All India Rank in this paper: **12862**


**Valid up to 31<sup>st</sup> March 2024**

\* Normalized marks for Civil Engineering (CE), Computer Science and Information Technology (CS) and Mechanical Engineering (ME) Papers.


\*\* A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category for which valid category certificate, if applicable, is produced along with this scorecard.



19<sup>th</sup> March 2021  
**Prof. Deepankar Choudhury**  
Organising Chairperson, GATE 2021  
(on behalf of NCB - GATE, for MoE)




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## GATE 2021 Scorecard

Graduate Aptitude Test in Engineering (GATE)




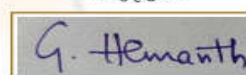
Candidate's Details

Name: **HEMANTH GOLLANGI**

Parent's / Guardian's Name: **GOLLANGI BHASKARARAO**

Registration Number: **EE21S36069026**      Date of Birth: **29-Jul-2000**

Examination Paper: **Electrical Engineering (EE)**

(Candidate's Signature)

Performance

GATE Score: **324**

Marks out of 100\*: **28**

Qualifying Marks\*\*

General: <b>30.3</b>	EWS/OBC (NCL): <b>27.2</b>	SC/ST/PwD: <b>20.2</b>
----------------------	----------------------------	------------------------


Number of Candidates Appeared in this paper: **87559**

All India Rank in this paper: **13832**


**Valid up to 31<sup>st</sup> March 2024**

\* Normalized marks for Civil Engineering (CE), Computer Science and Information Technology (CS) and Mechanical Engineering (ME) Papers.

\*\* A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category for which valid category certificate, if applicable, is produced along with this scorecard.



19<sup>th</sup> March 2021  
**Prof. Deepankar Choudhury**  
Organising Chairperson, GATE 2021  
(on behalf of NCB - GATE, for MoE)



31ac094d777fcc5bd8f030aa6a687adc


- Mr. G. Hemanth, IV-EEE student got M.Tech (Power & Energy Systems) admission in NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA.



**Centralized Counselling for M.Tech/M.Arch/M.Plan Admissions**  
 CCMT Counselling 2021  
 ONLINE DOCUMENT VERIFICATION CENTER: NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA  
 Round Number :3



Personal Details		Document Verification Date & Time:29-07-2021 12:24:48	
GATE Registration Id	EE21S36069026	Candidate Name	HEMANTH GOLLANGI
Father Name	GOLLANGI BHASKARA RAD	Mother Name	GOLLANGI JAYALAKSHMI
Gender	MALE	DOB	29-07-2000
Nationality	INDIAN	Category	OTHER BACKWARD CLASS (OBC-NCL)



Seat Allotment Details					
Institute Name	Academic Program Allocated	Allocated Category	Choice No.	Round No.	Group Id
National Institute of Technology Meghalaya	Power & Energy Systems	OBC	39	3	G1

Seat Acceptance Fee Details		
Transaction ID	Amount	Payment Date
pay_HdnddW5tG7vYYL	30000	27/07/2021 08:32:26

Sub Category List	
Person with Disability	No

Qualification Details	
Qualifying Degree (For CCMT) Marks Details	
Passing Status	Appearing
Passing Year	2021
Qualifying Degree	Bachelor of Engineering/Technology (BE/B.Tech)
Qualifying discipline Name	B.E./B.Tech. in Electrical and Electronics Engineering
Result Mode	--

Uploaded Documents	
Signature	
Document for Proof of date of birth	
Photo ID proof as per Govt. of India norms	
Mark sheet of Class XII	
Grade/Mark sheets of qualifying examination for all semesters if awaited then upto pre-final semester	
Degree/Provisional certificate/Course completion certificate	
GATE score card	
OBC Category Certificate	

Remarks	
Remarks	VERIFIED.
Changes During Verification	NONE

Document Verifying Officer  
 DR AKHILENDRA PRATAP SINGH

Center Incharge  
 PROF B. B. BISWAL

No signature required, since it is a computer generated letter



## Placement report during the A Y 2020-21

S. No	Roll Number	Name of the Student	Branch	Employer Name
1	17HP1A0226	Basil Nirmal Kumar	EEE	TCS
2	18HP5A0211	Rohith Kumar Pallapu	EEE	HCL
3	16HP1A0238	Duvvuri Ijak	EEE	INFOSYS
4	17HP1A0222	Tirumalasetty.yamini	EEE	VPG SENSORS
5	17HP1A0212	Kakollu Prathima	EEE	VPG SENSORS
6	17HP1A0209	Akula Lakshmi prasanna	EEE	VPG SENSORS
7	17HP1A0220	Sushmitha Kolaventy	EEE	VPG SENSORS
8	17HP1A0217	Spandana.K	EEE	VPG SENSORS
9	17HP1A0206	Kajol Vijay jashnani	EEE	VPG SENSORS
10	17HP1A0207	Mathangi kiranmai	EEE	VPG SENSORS
11	18HP5A0203	Mothukuri.Surya Sravani	EEE	VPG SENSORS
12	18HP5A0201	sailaja doddaka	EEE	VPG SENSORS
13	17HP1A0205	Katiki Jyothi	EEE	VPG SENSORS
14	17HP1A0202	Kalivarapu Deepika	EEE	VPG SENSORS
15	18HP5A0212	K Sai Teja	EEE	Kyungshin Industrial Motherson
16	18HP5A0209	J Naresh	EEE	Kyungshin Industrial Motherson
17	18HP5A0214	G Venkateswara Rao	EEE	Kyungshin Industrial Motherson
18	17HP1A0241	Raghu	EEE	Kyungshin Industrial Motherson
19	17HP1A0232	Nishanth	EEE	Kyungshin Industrial Motherson
20	18HP5A0202	Koduru nandini	EEE	APTIV Components
21	17HP1A0211	Halavath.Pragna	EEE	APTIV Components
22	17HP1A0214	Rekapalli Purna Naga Sai prasanna	EEE	APTIV Components
23	17HP1A0216	Kasarabada Priyanka	EEE	APTIV Components
24	18HP5A0204	Avancha Shanmukha Srivalli Chitkala	EEE	APTIV Components
25	17HP1A0235	Chilka Paul Bakht Singh	EEE	AllSec Technologies

# ACKNOWLEDGEMENT

We express our gratitude to **Rev. Fr. Dr. A. Francis Xavier SJ**, Director, **Dr. O. Mahesh**, Principal, **Rev. Fr. Chiranjeevi SJ**, and **Rev. Fr. Anand SJ**, Asst. Directors, for their encouragement in our endeavours. Our special thanks to **Dr G Naveen Kumar, HoD**, for his constant guidance throughout this academic journey. We would like to thank all the faculty members and students of Electrical & Electronics Engineering Department of ALIET, Vijayawada, for their support and co-operation in bringing out **ELECTROZ**.

**CHIEF EDITOR:**            **Dr. G. Naveen Kumar**  
Head of the Department

**EDITORS:**

1. **Mr. M. Rama Krishna**, Assistant Professor, Dept. of EEE.
2. **Dr. M. Ajay Kumar**, Associate Professor, Dept. of EEE.

**STUDENT COMMITTEE:**

**IV -EEE**

KAJOL VIJAYA JASHNAVI, 17HP1A0206

P. RAVITEJA, 17HP1A0244

**III-EEE**

A. RAKSHITHA, 18HP1A0210

S. VENKATA RAVINDRAREDDY, 18HP1A0251

**II-EEE**

A. KISHORE, 20HP5A0217

M. RAJASEKHAR REDDY, 19HP1A0229



**MICHAEL FARADAY** (born in September 22, 1791, Newington, Surrey, England—died August 25, 1867, Hampton Court, Surrey), English physicist and chemist whose many experiments contributed greatly to the understanding of electromagnetism.

Michael Faraday was one of the most prolific scientists of the 19<sup>th</sup> century. He was an English scientist who made an immense contribution to physics and chemistry especially in the fields of electromagnetism and electrochemistry. A British physicist and chemist, Faraday is best known for his discoveries of electromagnetic induction and the laws of electrolysis. His biggest breakthrough, however, came with his invention of the electric motor. Faraday is also credited with the invention of the most primitive form of Bunsen burner. Since the early days, the concept of energy, specifically force, interested Faraday the most. It was due to this early reading and experiments with the idea of force that he was able to make important discoveries in electricity later in life. To know more about this British chemist and physicist, read through the following lines.