



ELECTROZ

Create. Enhance. and Sustain.

NEWSLETTER (2019-2020)

**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

(HOD - EEE)



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:

- PO1:** An ability to apply knowledge of mathematics, science, and engineering
- PO2:** An ability to design and conduct experiments, as well as to analyze and interpret data.
- PO3:** An ability to design a system, component, or process to meet desired needs within realistic Constraints such as economic, environmental, social, political, ethical, health and safety. Manufacturability and sustainability
- PO4:** An ability to function on multi-disciplinary teams
- PO5:** An ability to identify, formulate, and solve engineering problems
- PO6:** An understanding of professional and ethical responsibility
- PO7:** An ability to communicate effectively
- PO8:** The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context
- PO9:** A recognition of the need for, and an ability to engage in life-long learning
- PO11:** An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- PO12:** To provide the students with a profound knowledge in the areas of production and manufacturing.

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 knowledge 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 2019-2020

(ODD SEMESTER)

Regular class work commenced from 10th June 2019 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**
- **Mr. Y. C. Ashok Kumar, Associate Professor**
- **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. K. Rajesh Babu, Assistant Professor**
- **Mr. M. Rama Krishna, Assistant Professor**
- **Mr. M. M. Karunakar, Assistant Professor**

Non-Teaching Faculty:

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

Students Details:

| Year & Branch | Student Strength |
|---------------|------------------|
| IV-EEE | 70 |
| III-EEE | 60 |
| II-EEE | 62 |

NEW FACULTY INDUCTION

- **Dr. G. Naveen Kumar, Professor** department of EEE was appointed as **Head of the Department** of EEE.



- **Dr M. Ajay kumar, Associate Professor,** new faculty was added in the department of EEE.



Dr. M. Ajay Kumar received his Masters and Ph.d from National Institute of Technology Warangal, India and currently working as an Associate professor in the Department of Electrical & Electronics Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada.

Dr. Ajay has worked for 4 years in the Adama University, Ethiopia, East Africa, and overall, he has 14 years of teaching & research experience in various Engineering colleges & universities. Also, he has published 16 research papers in various reputed journals, and International/ National conferences. His Current research interest includes HVDC transmission systems, renewable energy sources and smart grid systems.

Dr. Ajay is a life member of Institution of Engineers, India, and International Association of Engineers, USA. Also, he is an editorial member for various international journals and reviewer for IEEE conferences.

ACADEMIC TOPPERS

I B. Tech II Semester Regular Examinations, April – 2019

1. Mr **S.V.RAVINDRA REDDY** with Hall ticket number 18HP1A0251 secured **FIRST** rank with a SGPA of 9.0.



2. Mr. **N.MAHARSHI** with Hall ticket number 18HP5A0232 secured **SECOND** rank with a SGPA of 8.64.



3. Miss. **J.ANEELA** with Hall ticket Number 18HP1A0201 secured **THIRD** rank with a SGPA of 8.54



II B. Tech II Semester Regular Examinations, April – 2019

1. Miss **K. PRIYANKA** with Hall ticket number 17HP1A0214 secured **FIRST** rank with a SGPA of 9.32.



2. Mr. **P.ROHIT KUMAR** with Hall ticket number 18HP5A0211 secured **SECOND** rank with a SGPA of 8.91.



3. Mr. **G.HEMANTH** with Hall ticket Number 18HP5A0208 secured **THIRD** rank with a SGPA of 8.50



III B. Tech II Semester Regular Examinations, April – 2019

1. Miss. **D.DIVYA** with Hall ticket number 17HP5A0201 secured **FIRST** rank with a SGPA of 8.71.



2. Mr. **R.SAI SHANKAR** with Hall ticket number 17HP5A0212 secured **SECOND** rank with a SGPA of 8.43.



3. Mr. **K.NEHMYA** with Hall ticket Number 16HP1A0241 secured **THIRD** rank with a SGPA of 8.33.


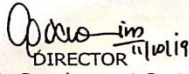



Workshops Attended by Faculty


- **Mr. Y. CHIRANJEEVI ASHOK KUMAR**, Assoc. Prof. and HOD, attended the **Sales force Faculty Interaction meet - 2019** at Fortune Murali Park, Vijayawada, on 7th June 2019.



- Mr M M Karunakar attended the Two day faculty development programming on engineering exploration at Jntuk from 11th to 12th oct 2019

| |
|--|
|  <p style="text-align: center;">JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA Kakinada - 533 003, Andhra Pradesh, India Directorate of the Faculty Development Centre A 2 Day Workshop On ENGINEERING EXPLORATION PROJECT <i>Participation Certificate</i></p> |
| <p>This is to certify that Ms. / Mr. / Smt. <u>M. Meghana Karunakar</u></p> <p>faculty of <u>Andhra Loyola Institute of Engineering and Technology</u> has participated in the Workshop on Engineering Exploration Project held on 10th & 11th October, 2019 organized by the Directorate of the Faculty Development Centre, JNTUK Kakinada, Andhra Pradesh, India.</p> |
| <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  DIRECTOR Faculty Development Centre, JNTUK, KAKINADA </div> <div style="text-align: center;">  REGISTRAR JNTUK, KAKINADA </div> </div> |

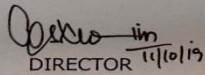
Mr. L. Karunakar attended the Two day faculty development programming on engineering exploration at Jntuk from 11th to 12th oct 2019

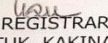


JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Kakinada - 533 003, Andhra Pradesh, India
Directorate of the Faculty Development Centre
A 2 Day Workshop
On
ENGINEERING EXPLORATION PROJECT
Participation Certificate


This is to certify that Ms. / Mr. / Smt. L. Karunakar

faculty of Andhra Loyala institute of Engg. & Technology
has participated in the Workshop on **Engineering Exploration Project** held on 10th & 11th October, 2019 organized by the Directorate of the Faculty Development Centre, JNTUK Kakinada, Andhra Pradesh, India.



DIRECTOR 11/10/19
Faculty Development Centre,
JNTUK, KAKINADA


REGISTRAR
JNTUK, KAKINADA

➤ Dr. G. Naveen Kumar attended the one week faculty development programming on Emerging challenges in grid integrated renewable energy systems at S R K R engineering college during 21st to 25th oct 2019



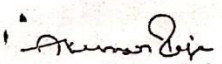
Sagi Rama Krishnam Raju Engineering College
(Autonomous)
Chinna Amiram, Bhimavaram - 534204

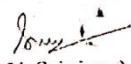


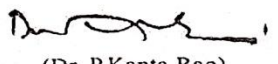
Certificate of Participation

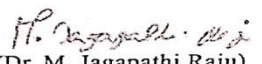
This is to certify that
Dr. G. Naveen Kumar

has participated in One-Week Faculty development program on
"Emerging Challenges in Grid Integrated Renewable Energy Systems"
Organised by
Department of Electrical and Electronics Engineering
during 21st to 25th october 2019 at
S.R.K.R. Engineering College, Bhimavaram.

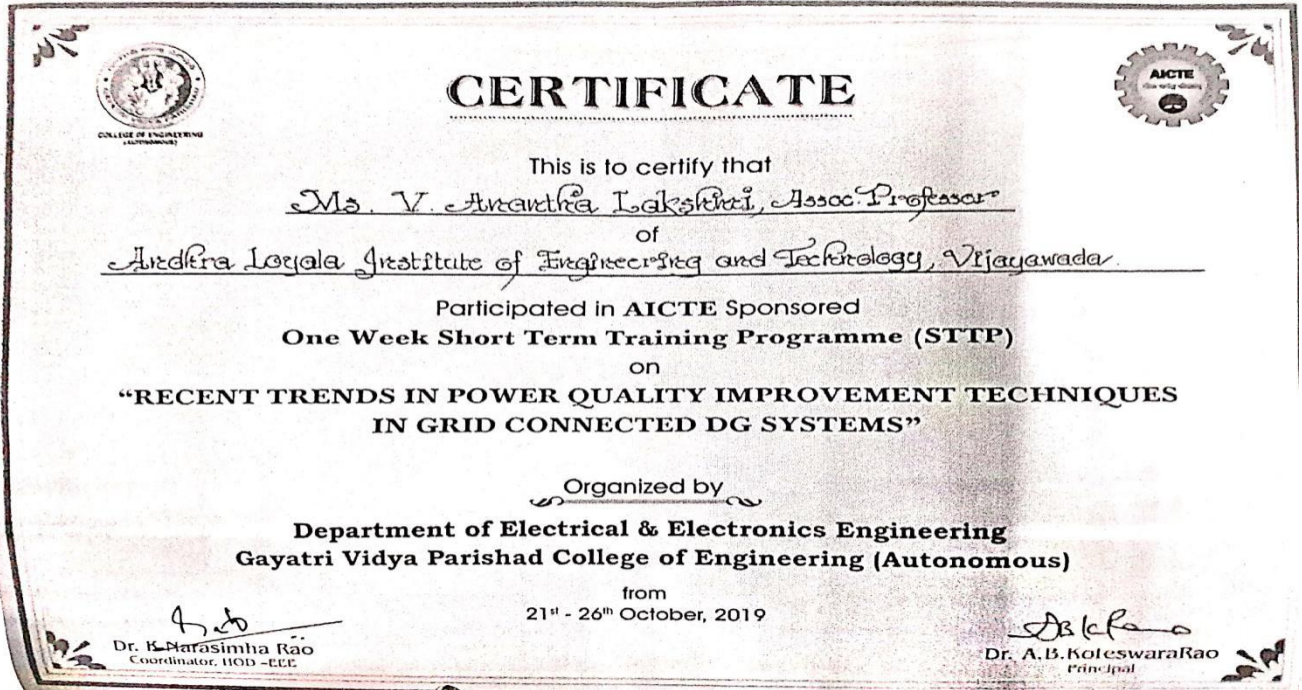

(Sri A. Kumar Raja)
Co-ordinators


(Sri V. Srinivas)

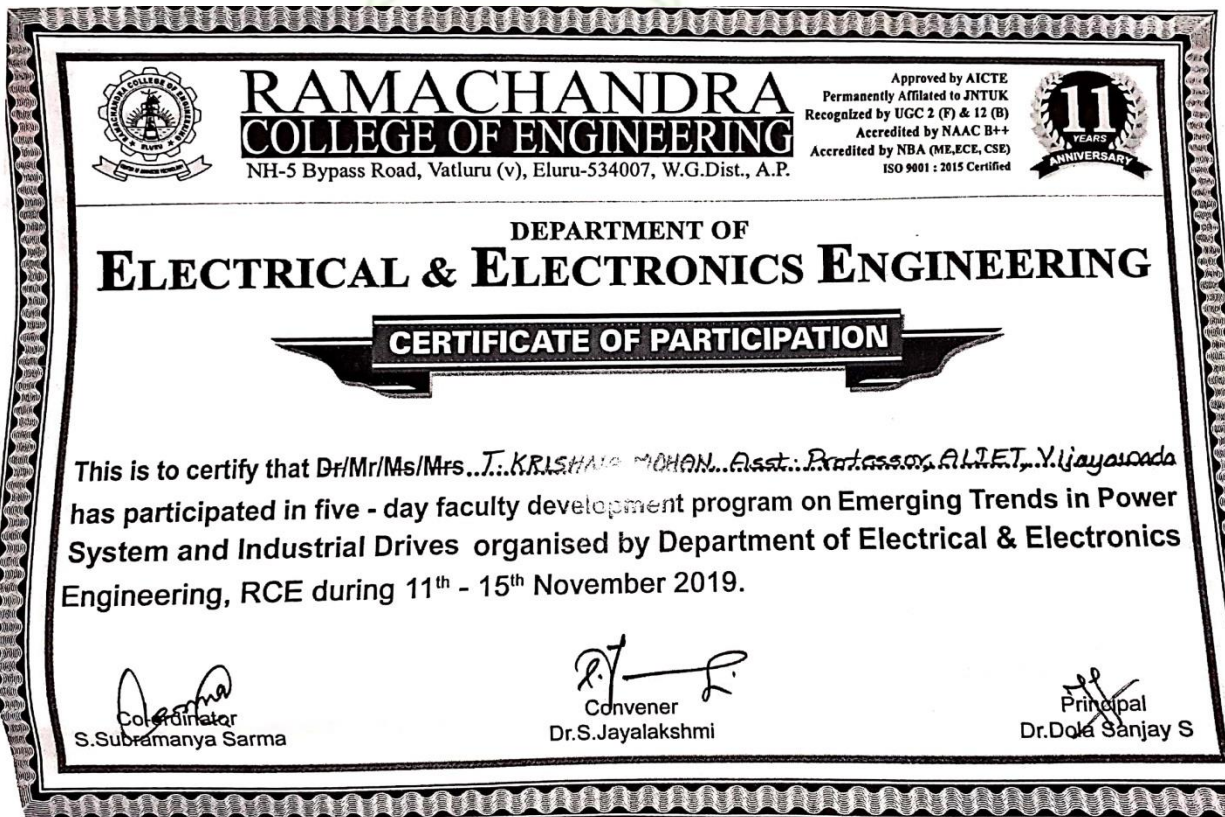

(Dr. P. Kanta Rao)
Convener


(Dr. M. Jagapathi Raju)
Principal

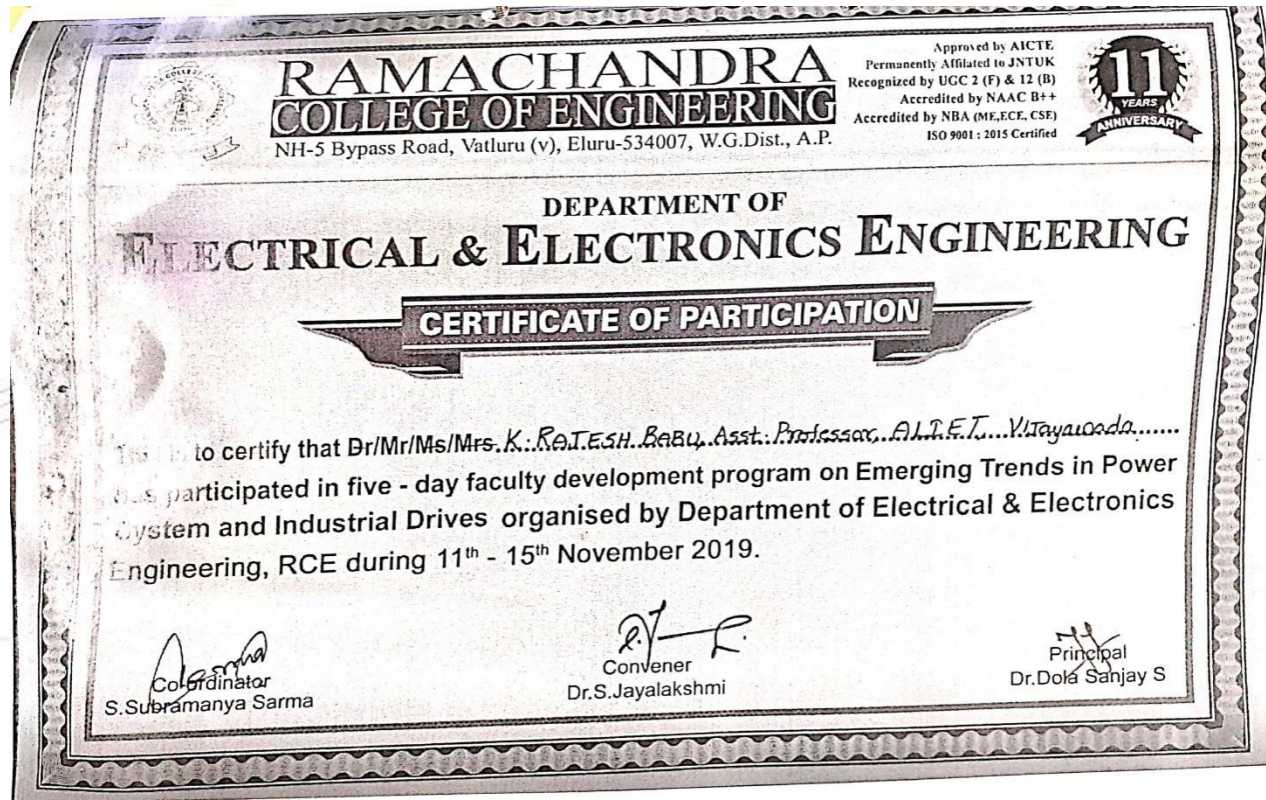
- Mrs. V. Anantha Lakshmi attended the one week faculty development programming on Recent trends in power quality improvement techniques in grid connected DG systems during 21st to 26th oct 2019



- Mr. T. Krishna Mohan attended the A 5 day Faculty Development Program on Emerging Trends in Power System and Industrial Drives at RAMACHANDRA COLLEGE OF ENGINEERING during 11th to 15th NOV 2019



Mr. K. Rajesh Babu attended the A 5 day Faculty Development Program on Emerging Trends in Power System and Industrial Drives at RAMACHANDRA COLLEGE OF ENGINEERING during 11th to 15th NOV 2019



- Mr M M Karunakar attended the one day Faculty Development Program on outcome based education at V R Siddhartha engineering college on 8th Nov 2019

WORKSHOPS ATTENDED BY STUDENTS

WORKSHOP BY APSSDC AT SIEMENS CENTRE FOR EXCELLENCE, VRSCCE :

Students of II,III,IV- EEE have undergone a one week training programme from 15-7-19 to 20-7-2019 on **BASICS OF PLC** conducted at V. R. SIDDARDHA ENGINEERING COLLEGE in association with APSSDC. The programme focuses on control of PLC & flexibility of PLC in electrical engineering applications

On the last day of the training programme an assessment was conducted to all the participants and all the qualified students were awarded with certificates.

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



2. The department of Electrical And Electronics Engineering conducted a three day Workshop on 17th to 19th July 2019, on “**Amazon Web Services**” in collaboration with APSSDC. Nearly 62 students participated in the workshop. Mr. R. Ramdeep, Associate Cloud Engineer, APSSDC was the resource person for this programme.

The resource person from APSSDC for this seminar Mr.R.Ramadeep (APSSDC Trainer) handled the session. Amazon Web Services (AWS) is the world’s most comprehensive and broadly adopted cloud platform, offering over 165 fully featured services from data centers globally. Millions of customers including the fastest-growing startups, largest enterprises, and leading government agencies trust AWS to power their infrastructure, become more agile, and lower costs. The Students were given hands on display on Cloud Computing.



3. The department of Electrical and Electronics Engineering conducted a Technical training on 22nd to 27th July 2019, on “**HOME AUTOMATION and OFFICE AUTOMATION**” in collaboration with APSSDC. totally 60 students participated in the programme.

RENEWABLE ENERGY SOURCES LAB @ ALC

The department of Electrical Engineering organized a visit to **RENEWABLE ENERGY SOURCES LAB** at Andhra Loyola College, Vijayawada, on 17th of July 2019 for the students of II EEE. The objective of this visit is to understand the basic concepts of power generation by solar, wind, and **hydropower** systems. The visit made them look beyond books and provided what classrooms could never have. They were accompanied by Mr. M. Rama Krishna, Asst. Prof., Mr. M. Krishna Mohan, Asst. Prof. who were extremely interactive.

The students stated that the programme highlighted the basic concepts of power generation by renewable energy sources like solar, wind etc. They also learnt about the utilization power generated by renewable energy sources.



EXTENSION PROGRAMS

The students of II, III, and IV- EEE Department were participated in blood donation camp which is organised On the Occasion of World Blood Donor Day, 14th July, 2019 in the ALIET. The Camp was inaugurated by chief guest Krishna district collector MD IMTIAZ. He said that blood donation was a noble cause which could save thousands of lives. He appealed to the public to donate blood whenever they can.

List of blood donors:

| S. No | Student Name | Blood Group | Department |
|-------|------------------|-------------|------------|
| 1 | K SUSMITHA | B+ve | III-EEE |
| 2 | CH AJAY | O-VE | III-EEE |
| 3 | M RAGHU | B-ve | III-EEE |
| 4 | Sk MUBASHARUDDIN | B+ve | III-EEE |
| 5 | P PRAVEEN KUMAR | B+ve | III-EEE |
| 6 | T BHARGAV | A+ve | IV-EEE |
| 7 | K NEELA JASMINE | A+ve | III-EEE |
| 8 | P MANIKANTA | B+ve | IV-EEE |
| 9 | N SITARAM | O+ve | IV-EEE |
| 10 | K RAKESH | B+ve | EEE |

Krishna Collector takes lead in blood donation

EXPRESS NEWS SERVICE
@ Vijayawada

DISTRICT Collector Md Imtiaz has said that blood donation was a noble cause which could save thousands of lives. He appealed to the public to donate blood whenever they can.

Inaugurating a blood camp at Andhra Loyola Institute of Engineering and Technology (ALIET) to commemorate World Blood Donor Day on Friday, the Collector observed that a healthy adult could donate blood once every three months. "Not only it would save several lives, donating blood would also help the donor as new blood is formed," he said.

Speaking on the occasion, District Medical and Health Officer (DM&HO) Dr I Ramesh observed that the Collector donated blood over 30 times and stood as an inspiration to people.

Seven people, who voluntarily donated blood on several occasions, saving lives were felicitated. Those who were felicitated include Collector Md Imtiaz (donated blood over 30 times), T Murali Krishna from Machilipatnam (63 times), Patnala Paparao from Gudivada



(donated blood 15 times and motivated 1,800 donors), Venkateswara Rao (Venka Babu) from Machilipatnam organised over 4,000 blood donations, student of ALIET Mullapudi Ramakrishna (14 blood donations), Dr VV Prabhakar Rao from ALIET (20 times), and Alapati Pavan Kumar for motivating and organising 2,300 blood donations through Mana Avani-gadda Blood Donor group.

Meanwhile, the district officials also released the statistics of blood donations held in 2018-19.

A total of 67,714 blood units were collected, of which 58,792 (87 percent) were on voluntary basis.

In April alone, 5,287 units were collected. There are 18 blood banks and eight blood storage centres in the district.



2. As a part of “ENVIRONMENT PROTECTION ON RECYCLING THE WASTE AND USED PAPERS AND BOOKS” conducted by integrated rural development association (IRDA) some of the students from EEE department were participated by submitting books.

3. The students of Department electrical and electronics engineering have conducted awareness programme session on Energy transformation awareness program on 22nd aug 2019 at govt ITI college Vijayawada in this programme the students imparted about solar energy and installation of solar panels, safety precautions in electrical environment ,advantages of 5 star appliances, importance earthing etc..

The students of ITI College were interactive with team and maintained good response throughout the session.



GUEST LECTURES

The Department of Electrical and Electronics Engineering has conducted a Guest Lecture on 11th July 2019 on “Applications of PLC”. It was delivered by Mr. Madhukar Vangari, Associate director for Prolific Systems & Technologies. for 3rd & 4th year students of EEE. The students stated that the programme was very useful for their technical growth and research oriented projects.

ప్రణాళికాబద్ధంగా చదివితే విజయం సాంతం

గుణదల: విద్యార్థులు ఉన్నతమైన లక్ష్యాలు నిర్దేశించుకుని వాటిని సాధించే దిశగా కృషిచేయాలని ప్రొఫెసర్ వి.మధుకర్ అన్నారు. ఆంధ్రలయాల ఇంజనీరింగ్ కళాశాల ఆవరణలో ఎలక్ట్రానిక్స్ అప్లికేషన్స్ పై గురువారం సెమినార్ నిర్వహించారు. ఈ సందర్భంగా ప్రొఫెసర్ మధుకర్ మాట్లాడుతూ, విద్యార్థులు లక్ష్యసాధన కోసం పాటుపడాలన్నారు. ఇంజనీరింగ్ విద్యార్థులు ప్రణాళికాబద్ధంగా చదువుకోవాలని తెలిపారు. ఎలక్ట్రానిక్స్ విభాగంలోని అంశాలపై పట్టు సాధించాలని సూచించారు. అనంతరం జరిగిన కార్యక్రమంలో పీఎల్సీ ప్రోగ్రామింగ్ లాంగ్వేజిస్ పై సెమినార్ నిర్వహించారు. టైమర్స్, కౌంట్ డౌన్ తదితర అంశాల గురించి ప్రసం



మాట్లాడుతున్న ప్రొఫెసర్ మధుకర్

గించారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ షాదర్ ప్రాస్నిస్ జేవీయర్, ఈఈఈ విభాగాధిపతి అశోక్ కుమార్, కో-ఆర్డినేటర్స్ రామకృష్ణ, కరుణాకర్ తదితరులు పాల్గొన్నారు.

ఈనాడు
epaper.eeeedu.net

ఎలక్ట్రికల్ రంగంలో ఉపాధి మెండు



విద్యార్థులకు సూచనలు చేస్తున్న మధుకర్

భారతినగర్ (కరెన్సింగర్), న్యూనటుడే: విద్యుత్తు త్రీ కేంద్రాల్లో అటోమెషన్ పరికరాల వినియోగం పెరిగిన నేపథ్యంలో ఎలక్ట్రికల్ రంగంలో విద్యార్థులకు ఉపాధి అవకాశాలు మెండుగా ఉన్నాయని ప్రొఫెసర్ కుమార్ ప్రాంతీయ అధికారి మధుకర్ పంగరి అన్నారు. ఆంధ్ర లయాల ఇంజనీరింగ్ ఈఈఈ విభాగం ఆధ్వర్యంలో పీఎల్సీ ప్రోగ్రామింగ్ పై అవగాహన సదస్సు జరిగింది. పీఎల్సీ లాంగ్వేజ్ లను టైమర్స్, కౌంట్ డౌన్, ప్రోగ్రామింగ్ నియంత్రణ సూచనలను ఆయన వివరించారు. అప్లికేషన్స్ పార్టింగ్, కన్వర్టర్ మోటార్ నియంత్రణ, అలారం మానిటర్లో ఏ విధంగా పరిష్కారాన్ని ఉపయోగిస్తారో పవర్ పాయింట్ ద్వారా విపులీకరించారు. తొలుత కళాశాల డైరెక్టర్ షాదర్ ప్రాస్నిస్ జేవీయర్ మాట్లాడుతూ ఉన్నత లక్ష్యాలను నిర్దేశించుకొని ముందుకు సాగితే భవిష్యత్తు బాగుంటుందన్నారు. ఈఈఈ విభాగాధిపతి వై.సి.అశోక్ కుమార్, రామకృష్ణ, కరుణాకర్లు పాల్గొన్నారు.

సాక్షి Fri, 12 July 2019
https://epaper.sakshi.com/c/41330128

Date : 12/07/2019 EditionName : ANDHRA PRADESH (AMARAVATI, VIJAYAWADA EAST) PageNo : Page 01



2. The Department of Electrical & Electronics Engineering organized a Guest lecture on “**Power Quality**”, delivered by Dr. K Naresh, D.E., Hod of Usha Rama College of Engineering and Technology, on 27th Sept. 2019. The students of 3rd year were present for the lecture. This event was coordinated by Mr. L KARUNAKAR, Asst.Prof.

The session began with concepts concerning long interruptions and short interruptions on power systems, remedies for these interruptions and he explained switching sequence of relay and circuit breaker coordination in distribution systems.

The session ended with a hearty thanks and presentation of a memento to Dr. K Naresh by Mr. Y. C. Ashok Kumar in appreciation for taking the time off to educate the students on Power Quality.

He appreciated the management for providing a platform to organize guest lectures on innovative technologies. He appreciated faculty members, students volunteers and participants for the successful conduction of the event.



3. The Department of Electrical & Electronics Engineering organized a Guest lecture on “**Understanding innovation & IPR to recreate our future**”, delivered by Dr P Veera Brahma Chary, sr.assistant professor, Krishna university, on 21st Aug. 2019. The students of 4th year were present for the lecture. This event was coordinated by Mr. T Krishna mohan, Asst.Prof.



Guest Lectures Given By Faculty

Mr. K. Rajesh Babu Assistant professor department of EEE, has delivered guest lectures on **Renewable Energy Sources and It's Utilization** to third year B.sc electronics students at ANDHRA LOYOLA college Vijayawada during 14/09/2019 to 30/09/2019.



INDUSTRIAL VISITS

1. The Department of Electrical Engineering organized an industrial visit to **ELECTRIC LOCO SHED, VIJAYAWADA** for 3rd Year B.Tech. Electrical students (60) along with 2 faculty members visited the **Industry** on 23rd July. 2019.

The purpose of our industrial visit is to get a practical view about windings i.e., in motors. Throughout our visit we saw the manufacturing of motors and its inner parts, mainly how the windings are wound in a motor. Railway electric traction describes the various types of locomotive and multiple units that are used on electrification systems around the world. It uses DC series motor for the engine and in traction it uses three phase induction motor for regenerative braking purpose.



2. Department of Electrical Engineering has organized an industrial visit to **GS.ALLOYS Pvt. Ltd, Nunna** for 4th Year B.Tech. Electrical students (70) along with 3 faculty members visited the **Industry** on 16th Sep 2019.

3. Department of Electrical Engineering has organized an industrial visit to **220/132/33 KV substation gunadala** for 2nd Year B. Tech Electrical students. Totally 62 students along with 3 faculty members visited the Industry on 30th Aug 2019. The authorities of the sustation were allotted two Professionals who were expertise in the area of substation control and management, the professionals had explained about all the components and their working.

Some of the components they had seen in the substation are current transformer, SF6 circuit breakers, Inductive reactors in different ranges, Lightning arrestors, control panels etc. the visit was really helpful for the students to know about different electrical equipment's and purpose each equipment, also the way of distribution of power to different places..



- Mr. Y. C. Ashok kumar Associate Professor, **HOD of EEE** was successfully completing the NPTEL course on **Programming in JAVA** with consolidated score of **95%**



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
CHIRANJEEVI ASHOK KUMAR
for successfully completing the course
Programming in Java
with a consolidated score of **95 %**

| | | | |
|--------------------|----------|----------------|---------|
| Online Assignments | 21.09/25 | Proctored Exam | 73.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: **8377**

Jan-Apr 2019
(12 week course)

A. Goswami
Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL19CS07S62260075

To validate and check scores: <http://nptel.ac.in/noc>

- Mr R SAI SANKAR RAO of IV-EEE was successfully completing the NPTEL course on **Programming in JAVA** with consolidated score of **59%**



NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
R.SAI SANKAR RAO
for successfully completing the course
Programming in Java
with a consolidated score of **59 %**

| | | | |
|--------------------|----------|----------------|---------|
| Online Assignments | 21.47/25 | Proctored Exam | 37.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: **8377**

Jan-Apr 2019
(12 week course)

A. Goswami
Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL19CS07S62260308

To validate and check scores: <http://nptel.ac.in/noc>

EPISTIMICON-2K19

A national level fest technical symposium **EPISTIMICON** 2019 was organised by the institution on 17th sep 2019.

As a part of the event department of EEE have conducted several activities such as paper presentation, poster presentation, technical quiz, project expo & spot events.

Dr A.V Naresh prof & hod of VVIT Guntur, Dr N Sambasivarao prof & hod of NRI institution of technology were acted as judges to this event.

30 students from various colleges most of the students from ALIET have actively participated in various events & presented their technical ideas & working models.

Students who stood first second and third in the events conducted by the department were given certificate of appreciation along with attractive cash prizes.

The certificate of participants was awarded to all the participated students.



Academic Year 2019-2020

(Even Sem.)

- Regular class work has been started on 18th November 2019 for the 2nd, 3rd & 4th B. Tech students.

Teaching Faculty Members:

- Dr. G. Naveen Kumar, Professor, HOD
- Mr. Y. C. Ashok Kumar, Associate Professor
- 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. K. Rajesh Babu, Assistant Professor
- Mr. M. Rama Krishna, Assistant Professor
- Mr. M. M. Karunakar, Assistant Professor

Non-Teaching Faculty:

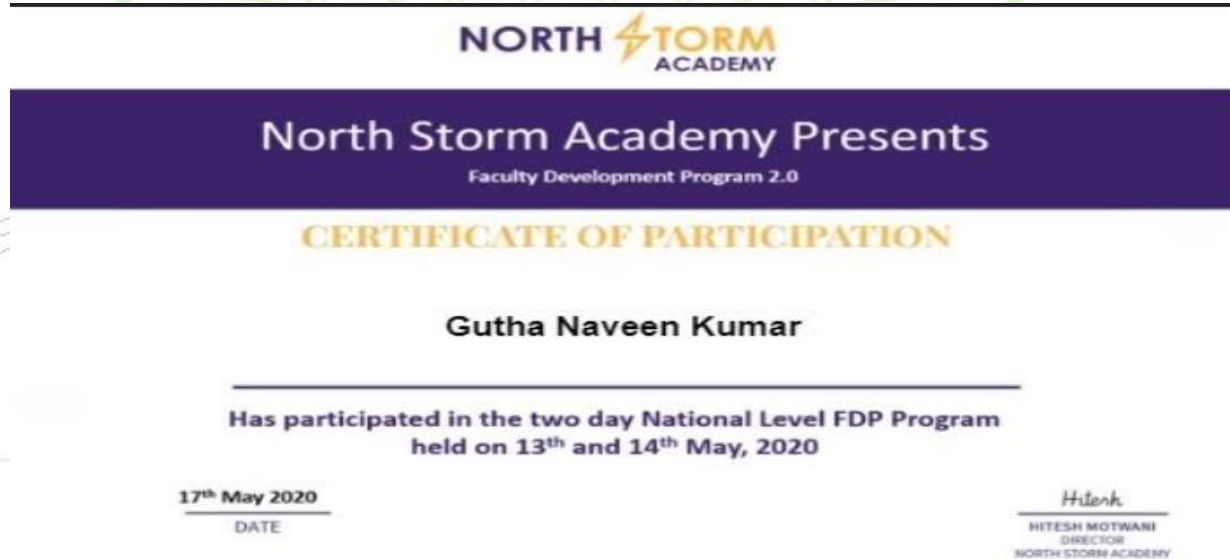
- S. Shekar Babu
- S. Siva
- K. Venu Babu



DEPARTMENTAL EVENTS

FACULTY ATTENDED WORKSHOPS

Dr G Naveen Kumar Participated in two-day national level FDP organized by on North storm academy presents during 13th to 14th May 2020



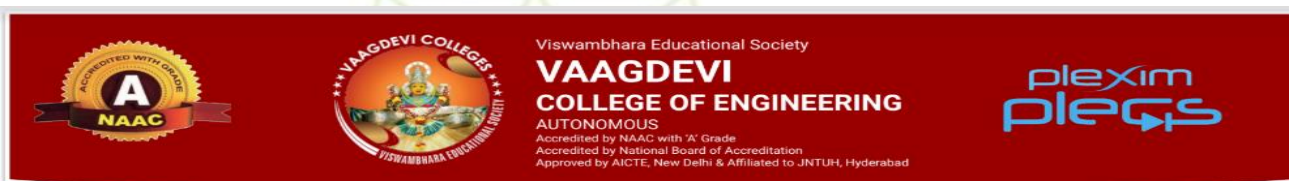
Dr G Naveen Kumar Participated in three day national level FDP organized by on North storm academy presents during 30th April to 2nd May 2020



Dr G Naveen Kumar Participated in one week national level online faculty development program on innovation to academicians organized by Ramachandra college of engineering, Eluru during 11th to 15th May 2020



Dr G Naveen Kumar Participated in A one-week FDP on Implementation and simulation of electrical engineering applications using PLECS tool organized by Vaagdevi college of engineering Hyderabad from 25th to 29th May 2020



CERTIFICATE OF PARTICIPATION

This Certificate is presented to

Dr./Mr./Mrs./Ms. G Naveen Kumar of Andhra Loyola Institute of Engineering and Technology
 has participated in **One Week Faculty Development Programme on**
“Implementation and Simulation of Electrical Engineering Applications Using PLECS Tool”.

Organized by Electrical and Electronics Engineering Department, VCE.
During 25th - 29th May, 2020.
In Association with PLEXIM, Switzerland.

[Signature]
Dr. M. Vishnu Prasad
 Coordinator

[Signature]
Dr. B. Anil Kumar
 Coordinator

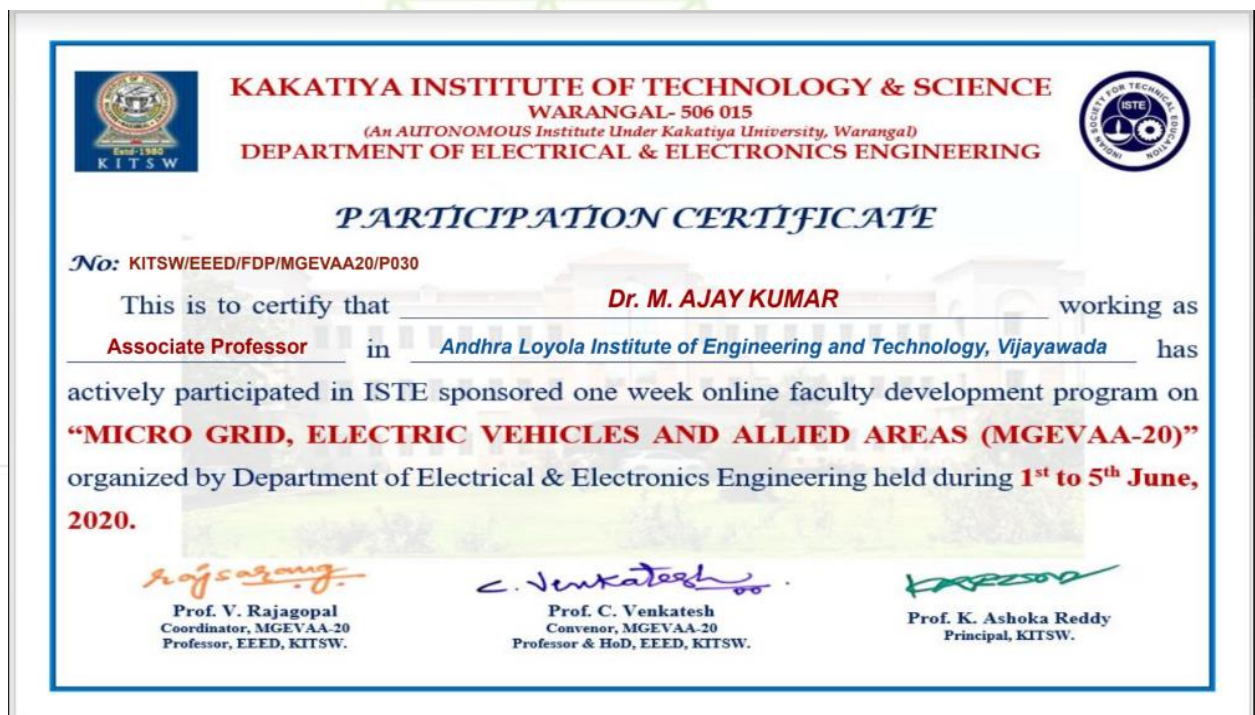
[Signature]
Dr. Y. Hareesh Kumar
 Head of the Department

[Signature]
Prof. K. Prakash
 Principal

Dr M Ajay Kumar attended online certificate course on E-content development by Research centre for English language and literature



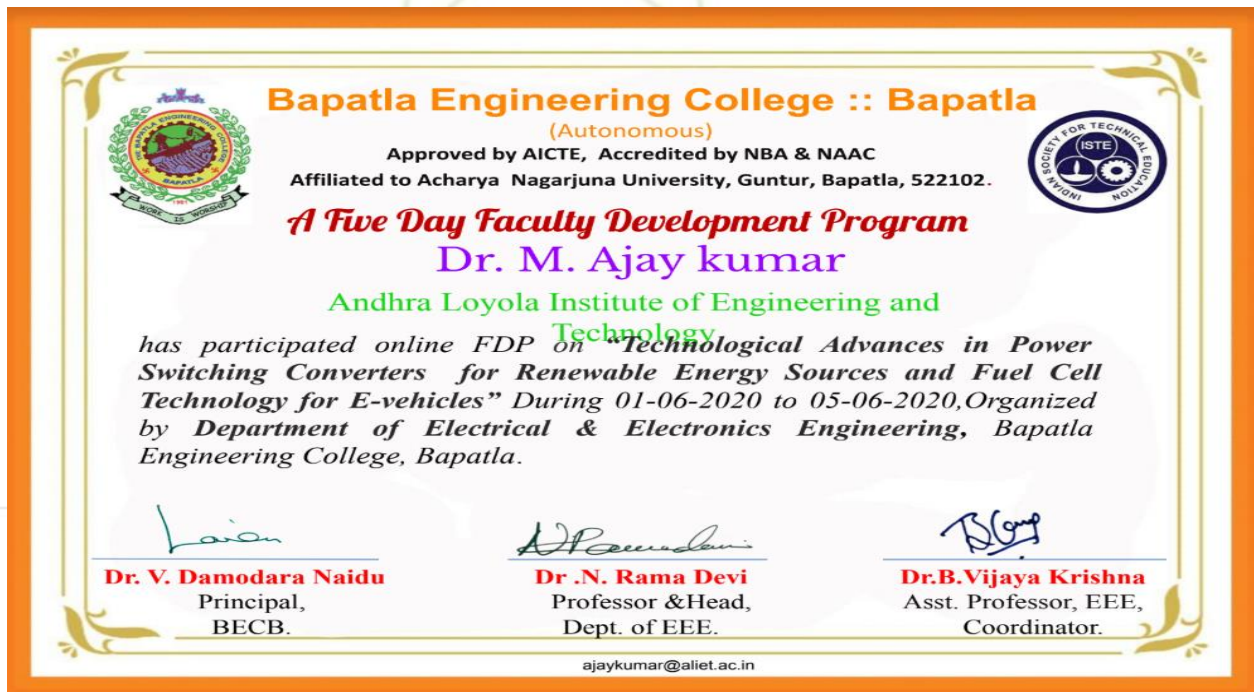
Dr. M. Ajay Kumar Participated in MICRO GRID ELECTRICAL VEHICLES AND ALLIED AREAS organized by Kakatiya institute of technology & science Warangal during 1st to 5th Jun 2020



Dr. M Ajay Kumar Participated in Renewable energy technologies integration to the power grid & E-vehicle organized by Sai ram institute of technologies during 28th May to 1st Jun 2020



Dr M Ajay Kumar Participated in a five-day FDP on technological advances in power switching for E-vehicles during 1st to 5th Jun 2020, organized by Department of EEE Bapatla engineering college



Mrs. V. Anantha Lakshmi Participated in the online webinar technology programme on LabVIEW conducted by labview academy Bengaluru, from 4th to 8th May 2020

||Jai Sri Gurudev||
Sri Adichunchanagiri Shikshana Trust (R)
SJB INSTITUTE OF TECHNOLOGY
No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru-560060.
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
LabVIEW Academy

Certificate TM

This is to certify that Mr. /Ms. V. Anantha Lakshmi has successfully participated in the online webinar Technology Programme on "LabVIEW", conducted by LabVIEW Academy, SJBIT, Bengaluru, from 04-05-2020 to 08-05-2020.

NATIONAL INSTRUMENTS

Dr. K. V. Mahendra Prasanth
Head, Dept. of ECE.

Dr. Puttaraju
Principal

Page 1 / 1

Mrs. V. Anantha Lakshmi Participated in a one -week FDP on Implementation and simulation of electrical engineering applications using PLECS tool organized by Vaagdevi college of engineering Hyderabad from 25th to 29th May 2020

Open with Google Docs

VAAGDEVI
COLLEGE OF ENGINEERING
AUTONOMOUS
Accredited by NAAC with 'A' Grade
Accredited by National Board of Accreditation
Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

plexim
plecs

CERTIFICATE OF PARTICIPATION

This Certificate is presented to

Dr./Mr./Mrs./Ms. **V. Anantha Lakshmi** of **Andhra Loyola Institute of Engineering and Technology**
has participated in One Week Faculty Development Programme on
"Implementation and Simulation of Electrical Engineering Applications
Using PLECS Tool".

Organized by **Electrical and Electronics Engineering Department, VCE.**
During **25th - 29th May, 2020.**
In Association with **PLEXIM, Switzerland.**

Dr. M. Vishnu Prasad
Coordinator

Dr. B. Anil Kumar
Coordinator

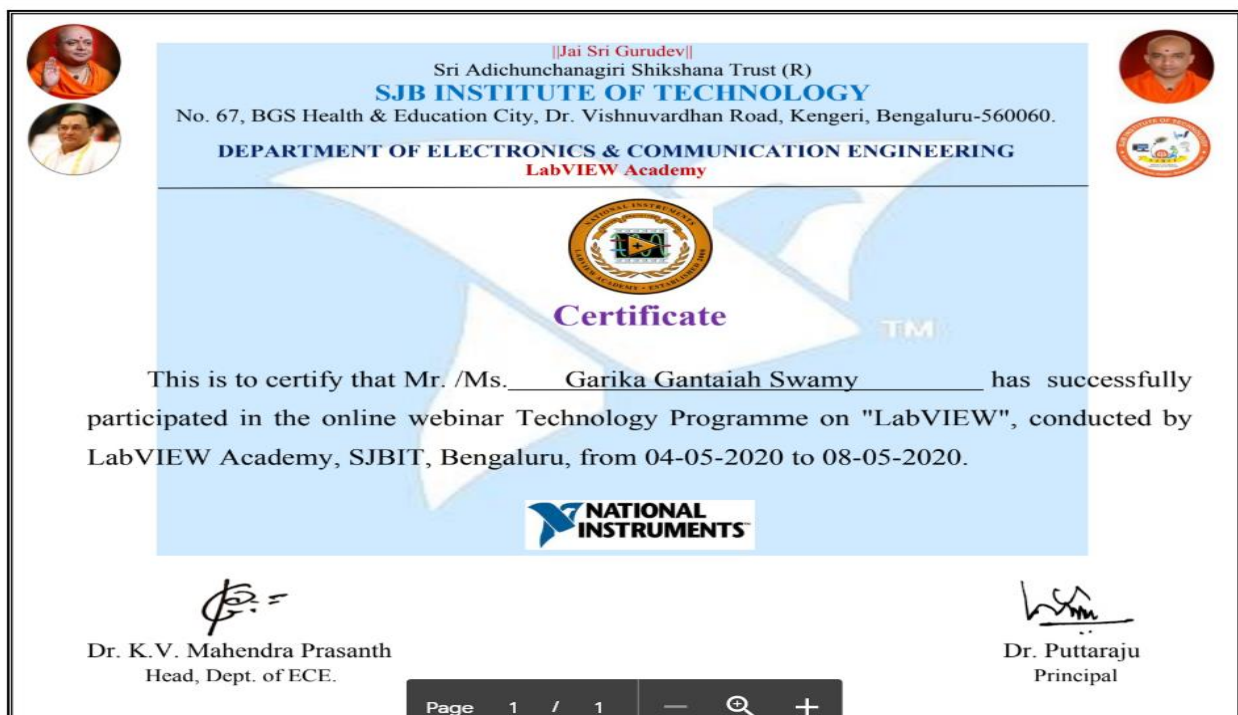
Dr. Y. Hareesh Kumar
Head of the Department

Prof. K. Prakash
Principal

Mrs. V. Anantha Lakshmi Participated in a one week FDP on Modern trends in electrical drives organized by NIT Nagpur from 19th to 23rd May 2020.



Mr. G. Gantaiah Swamy Participated in the online webinar technology programme on LabVIEW conducted by labview academy Bengaluru, from 4th to 8th May 2020



Mr. G. Gantaih Swamy Participated in a Three-day FDP programme on ONLINE COLLEGE MANAGEMENT & ONLINE CONTENT CREATION TOOLS from 30th APRIL to 2nd May 2020



CERTIFICATE OF PARTICIPATION
This is to certify

GANTAI AH SWAMY GAR IKA

has participated in the three day National Level Faculty Development Program held on 30th April, 1st May & 2nd May, 2020.

| | | | | |
|--------------------|--|--|---|-----------------------------------|
| 04/05/2020 DATE | DR. SANGEETA MAKKAD CONVENOR HOD BMM & BAMMC | DR. ARUN POOJARI VICE PRINCIPAL SFC | HITESH MOTWANI DIRECTOR NORTH STORM ACADEMY | DR. NEELAM ARORA PRINCIPAL |
|--------------------|--|--|---|-----------------------------------|

Mr. G. Gantaih Swamy Participated IN a one-week FDP on Research opportunities in electrical engineering and its applications organized by P S R Engineering college sivakasi from 18th to 23rd May 2020.



Mr. G. Gantaiah Swamy Participated in a one-week FDP on Modern trends in electrical drives organized by NIT Nagpur from 19th to 23rd May 2020.



Mr. L. Karunakar Participated FDP on digital image processing using MATLAB from 24th to 27th april,2020



Mr. M. Rama Krishna Participated in the online webinar technology programme on LabVIEW conducted by labview academy Bengaluru, from 4th to 8th May 2020



Mr. M. Rama Krishna participated in a one-week FDP on Modern trends in electrical drives organized by NIT Nagpur from 19th to 23rd May 2020.



Mr. M. Rama Krishna Participated in a one -week FDP on Implementation and simulation of electrical engineering applications using PLECS tool organized by Vaagdevi college of engineering Hyderabad from 25th to 29th May 2020.



VAAGDEVI COLLEGE OF ENGINEERING
AUTONOMOUS
Accredited by NAAC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

plexim plegcs

CERTIFICATE OF PARTICIPATION

This Certificate is presented to

Dr./Mr./Mrs./Ms. **Mekala Rama Krishna** of **Andhra Loyola Institute of Engineering and Technology** has participated in One Week Faculty Development Programme on **“Implementation and Simulation of Electrical Engineering Applications Using PLECS Tool”**.

Organized by **Electrical and Electronics Engineering Department, VCE.**
During **25th - 29th May, 2020.**
In Association with **PLEXIM, Switzerland.**

Dr. M. Vishnu Prasad
Coordinator

Dr. B. Anil Kumar
Coordinator

Dr. Y. Hareesh Kumar
Head of the Department

Prof. K. Prakash
Principal

Mr. M. Rama Krishna Participated in a one week FDP on Electric Vehicle organized by Department of EEE, Jhulelal institute of technology, Nagpur in association with CADD Center training services and vishvakariya automotive pvt Ltd during 11th to 16th May 2020



Jhulelal Institute Of Technology
Approved by AICTE, Recognized by DTE and Affiliated to RTM Nagpur University
Department of Electrical Engineering

CERTIFICATE OF PARTICIPATION

This certificate is presented to

Mekala Rama Krishna

for attending **One Week Faculty Development Programme** on **“Electric Vehicle”** organised by **Department of Electrical Engineering, Jhulelal Institute of Technology, Nagpur-441111** in association with **CADD Center Training Services and Vishvakariya Automotive Pvt. Ltd. Nagpur**, held on **11th – 16th May 2020.**

Prof. Rohan M. Ingle
Convener-FDP, H.O.D. EE

Certificate ID
DVL0DA-CE000033

Dr. Narendra N. Bawane
Principal, JIT- Nagpur

List of Online Faculty Development Programs attended by **Mr. Krishna Mohan Tatikonda**, Assistant Professor



All the faculty members of EEE are participated in capability development program or E-learning courses conducted by TATA STELL during the month of April to June



micro grid, hybrid electric vehicle, solar power system, grid connected and standalone solar design, gas insulated substation etc



BOOK PUBLICATIONS

- **Dr. G. Naveen Kumar, Associate Professor** , HOD - EEE Published a book titled “*Hybrid Solar and Wind Power Generation Working Model*”, Lambert Academic Publishers, Germany, ISBN: 978-620-0-30084-3.
- **Dr. G. Naveen Kumar, Associate Professor** , HOD - EEE Published a book titled “*Power Transmission Network Security under Loaded Conditions*”, GRIN Publishers, Munich, Germany, ISBN: 978-334-6-01823-6.

STUDENT'S WORKSHOP

Michael Faraday Research Centre, an initiation of the Department of Electrical & Electronics Engineering, organized a two-day workshop on APPLICATIONS OF MATLAB IN ELECTRICAL ENGINEERING on 9th & 10th Jan 2020. The event was inaugurated at 9.00 A.M. around 50 students from various colleges participated in this workshop.

The Programme divided into 4 sessions (2 sessions per day)

Session 1:

- It was led by **Dr M Ajay kumar, Associate Professor** of ALIET. He delivered a lecture on the following topics.
- Introduction to Matlab
- Simulink tool boxes
- Power Electronics Drives

Session 2:

- It was led by **Mr. L. Karunakar, Assistant Professor**. He enlightened the students on the following topics.
- R,L,C elements
- Construction of electrical circuits by using RLC
- Problems on dependent and independent sources
- Basic Example in Single Phase and Three Phase circuits



Session 3:

Mrs. V. Anantha Lakshmi Asst. Prof. ALIET, highlighted the following areas.

- Introduction to Electrical Machines
- Modelling of DC & AC Machines
- Examples

Session 4:

During session 4 the following topics were covered by Mr. K. Rajesh Babu, Asst. Prof, ALIET

- Single Machine System
- Fault Current Calculation
- Examples

This workshop will also provide hands on experience with MATLAB software starting from basics to the end of designing a circuit”.

Workshop on DIALUX

With a motto to strive for their overall development of the students, a three-day workshop on "DIALUX" was organized by the Department of EEE from 6th to 8th Jan 2020 in APSSDC CM'S Skill Excellence Centre.

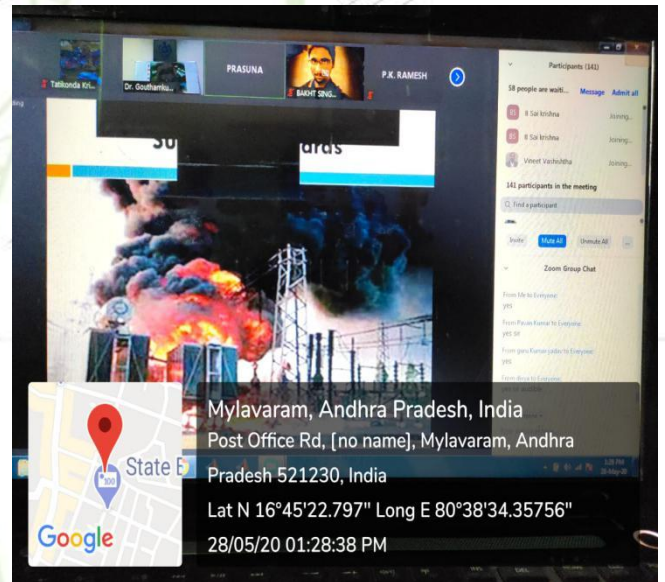
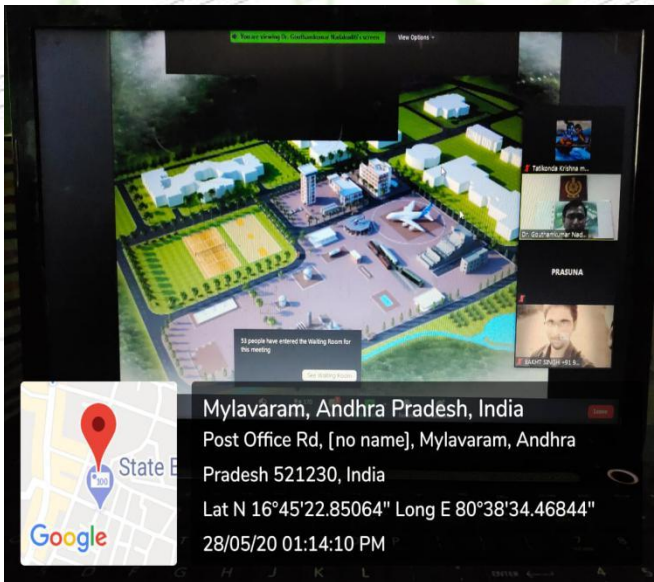
More than 60 students participated in the workshop. The resource person Mr. Madan Mohan Goud (Cofounder the world's leading software for DIALux & CTO) handled the session. DIAL develops DIALux the world's leading software for planning calculation and indoor and outdoor lighting. With a community of over 700,000 users, the light is available in 25 languages and is free of charge for users. All renowned luminaire 713,21Jfacturers offer digital product data for planning in DIALux. The software makes professional lighting design easier and accessible to everyone. As a platform and tool, it connects planners and manufacturers all over the world. DIALux is available as a desktop version and as a basic mobile app.



WEBINAR ON ELECTRICAL FIRES & PREVENTIVE MEASURES

A webinar on **Electrical Fires & Preventive Measures** was organized by the department of **EEE** on 28th May 2020. The resource person for the webinar was **Dr. N. Goutham Kumar Assistant Professor (Group-A Gazetted) National Fire Service College, Nagpur.**

The speaker elaborated on Basic Causes of Electrical fires, Common Electrical Hazards, Recognize Any Hazard's and Electrical Protection Methods. Around 606 participants benefited from this webinar through online tool ZOOM app.



GUEST LECTURES

The Department of Electrical and Electronics Engineering has conducted a Guest Lecture on 7th Jan 2020 on “**power plant familiarization**”. It was delivered by Mrs Sravani and team from SYNERGEM for 3rd & 4th year students of EEE. The students stated that the programme was very useful for their technical growth and research-oriented projects.



2. The Department of Electrical & Electronics Engineering organized a Guest lecture on “**Robotics**”, delivered by Resource person from indo euro synchronization, on 13th Feb 2020. The students of 3rd & 4th year were present for the lecture.

3. The Department of Electrical & Electronics Engineering organized a Guest lecture on “**power system operation and control using scada**”, delivered by Resource person ER K Rama Krishna reddy, D E E, AP vidhyuth soudha, on 7th Mar 2020. The students of 2nd, 3rd & 4th year were present for the lecture.

CYBER MITHRA-WOMEN SAFETY

Women’s cell organised an awareness programme “**Cyber mithra-women safety**” in collaboration with machavaram police station on 11th Dec 2019. **Mr Naga raja reddy**, ACP, gave suggestions for the girls students on “how to tackle unwanted situations” using technology. Mr Vinay Mohan CI spoke on cyber mithra app. **Ms. Poorna Maduri**, SI, cybercrime, gave presentation on social network hacking identification and solutions.



WOMENS DAY CELEBRATIONS

Women's cell organized international women's day celebrations on 7th March 2020. Mrs. M Suvarna phani, asst Audit officer Vijayawada Mr Appaji eddem, Resident editor & chief of bereau, the Hindu and G Jyothsna general secretary, taruni tarangalu were the invited guests of the day 2020 and gave a call to the girl students to fight for gender equality.

Mr. Appaji Reddem highlighted the issues related to gender discrimination with facts and figures and motivated the girls students to speak up the issues related to them with courage. Mrs. M. Suvarnaphani inspired the students with her success story and enlightened the girl students that hard work and perseverance will make them to live their dreams. A book Titled "The fiction unfolded: The great Indian women Novelist" edited by Dr. Sr.Candy D' Cunha, Associate Professor of English was launched by the guests on the occasion.

Rev. Dr. A. Francis Xavier SJ, the Director, Dr. O. Mahesh, Principal, Rev. Fr. J. Chirnajeevi SJ, Rev. Fr. M. Anand SJ, Assistant Directors, appreciated the members of the women's cell for organizing the celebrations.



Seminar cum Workshop on 'Need a Better Environment for Healthy Future'

Women's Cell of Andhra Loyola Institute of Engineering and Technology in collaboration with Department of Botany, ALC, Jeevamurthum and Shivam Jewellers organized a 'One day National Seminar cum Workshop on the theme 'Need a Better Environment for Healthy Future' (Medicine free healing- Chemical Free Living) on 26th November 2019.

Sri- Shailender guruji, a believer in practising a chemical-free, healthy lifestyle gave an inspiring talk on 'Boienzymes'. Later Hands on Training on 'Natural Foods, Healthy Cooking Methods, Food Preservation and Natural cleansers and water purification' is conducted in the workshop. Men and women of variety of professions, Teachers and students of various institutions have participated in the programme. Rev. Fr. Dr. A. Francis Xavier SJ, Director, Dr. O. Mahesh, Principal, Rev. Fr. J. Chiranajeevei S J, Rev.Fr. M. Anand SJ, Assistant Directors congratulated the organizing committee for their tireless efforts. The Members of Advisory Committee Dr. B. Siva Kumari, Dept. Of Botany, ALC, Ms. Padmaja (Jeevamrutham), Ms. Waya lakshmi (Shivam Jewellers) supervised the programme. Organizing secretary of the workshop and the coordinator of ALIET Women's Cell Mrs.V. Anantha Lakshmi and the Members of the Women's Cell Committee Executed the progamme successfully.



EXTENSION PROGRAMS

- The students of Department electrical and Electronics Engineering conducted **National Service Scheme Special Camp** in Ganguru village, Andhra Pradesh from 2nd to 7th March 2020. **This Camp was planned especially for Service MOTO to the students** namely: Cleaning, Dental Checkups, Plantation in village, Solid waste management, Complete Health Check-ups to the villagers.

DAY 1 (Cleanliness Drive):-

On the first day of the Camp i.e; 2nd March 2020 , Swatch Gaav was done.



DAY 2(Dental Camp):-

We requested a Dental Doctor from Public Sector Hospital and arranged a Dental Camp in Ganguru Village in-order to serve villagers with no cost. The volunteers knocked each and every door of the village to make them aware of this dental camp and let them check their dental status.



DAY 3(Tree Plantation Program):-

Tree plantation program was done on the 3rd day of the camp. Each volunteer sowed plant in-front of every house with respective owner permission and also villagers are allowed our volunteers to plant in-front of their houses by cordially.



DAY 4(EYE Camp):-

The coordinators requested ophthalmologist from Public Sector Hospital and conducted this EYE Camp. Each volunteer without leaving single house, they made aware of this Camp to that particular villagers and pushed to check their Optical Status.



DAY 5(Solid Waste Management):-

The volunteers stepped into every house and made each villager aware about solid waste management.



DAY 6 (Health Check-up Camp):-

The coordinators requested and granted permission from Public Sector Hospital to send a Doctor with enough equipment for this Service Camp. This health camp was done in Urdu School. Health check-up camp was done successfully by the doctors and patients who had few minimum pharmacy was served by the doctors but people who had high effected are counselled and directed to take appointment in hospitals so that they can avoid severe loose .



The students of Department of Electrical and Electronics Engineering paid a visit to PREM DAN NIVAS Missionaries of charity, vijayawada on 31-01-2020 and served food to the inmates, later students of EEE distributed washing powder bothing soaps,shampoo sachets, pastes and mosquito repellents to the inmates.

ALIET students render service

VIJAYAWADA: NCC cadets of Andhra Loyola Institute of Engineering and Technology (ALIET), Department of Electrical and Electronics Engineering, paid a visit to Prem Dan Nivas Missionaries of Charity, Vijayawada, served food to the inmates on Friday. Later, students of EEE distributed washing powder, bathing soaps, shampoo sachets, pastes and mosquito repellents to the inmates. Rev Fr Dr A Francis Xavier, Director ALIET, O Mahesh Principal and HoD EEE, G Naveen Kumar appreciated the NSS coordinator A Rajesh and faculty MM Karunakar, M Ramakrishna and students. Sisters and Missionaries of Charity appreciated the initiation taken by the ALIET.





ACADEMIC TOPPERS

III B. Tech I Semester Regular Examinations, 2019-20

1. **P.ROHIT KUMAR** - Hall ticket number 18HP5A0211 secured first rank



2. **KASARABADA PRIYANKA** - Hall ticket number 17HP1A0214 secured second rank



3. **MATANGI KIRANMAI** - Hall ticket number 17HP1A0207 secured third rank



IV B. Tech I Semester Regular Examinations, 2019-20

1. **B N V D Dakshayani** - Hall ticket number 16HP1A0217 secured first rank



B.N.V.D. Dakshayani

2. **N Vindhya** - Hall ticket number 16HP1A0228 secured second rank



N. Vindhya

3. **K. Nehemya** - Hall ticket number 16HP1A0241 secured third rank



K. Nehemya

II B. Tech I Semester Regular Examinations, 2019-20

1. S. SIVA KUMARI - Hall ticket number 19HP5A0204 secured first rank



2. M. ANJI REDDY - Hall ticket number 19HP5A0206 secured second rank



3. K. JHANSI - Hall ticket number 19HP5A0207 secured Second rank



Student activities

As a part of ventura cultural fest organised by ALIET on 21st Dec 2019 the students of EEE department were participated and grab the prizes in various activities viz. group singing, solo singing, choreography, mime etc.



The sankranthi celebrations had been conducted at ALIET on 9th Jan 2019.the college had been filled with the environmental village and the festival culture with rangolies, gobbemmalu, haridasu, gangireddu and golu,the festival display of dolls during autum festive season had been decorated.

The college environment was filled with the students of different colleges and rangoli competitions had been conducted.

As a part of rangoli competitions the students of II-EEE L Kalyani, B Meghana, K Mounika were awarded as 3rd prize.



INDUSTRIAL VISITS

1. Department of Electrical Engineering organized an industrial visit to **KCP SUGARS & POWER INDUSTRIES Pvt. Lmt, vuyyuru** for 3rd Year B.Tech. Electrical students (54) along with 3 faculty members visited the **Industry** on 29th Feb 2020.

The main purpose of this visit is to make the students understand the generation of power from **BIOMASS** (by-product of sugar extraction from cane stalks). All the students actively participated and gained knowledge about power generation



- The department of electrical and electronics engineering organized an industrial visit to **EFFTRONICS** Vijayawada for 2nd Year B.Tech. Electrical students (51) along with 2 faculty members visited the **Industry** on 29th Feb 2020. The main objective of the visit was to provide a technical exposure to the students.










The visit was very fruitful for students and learn about production system, Data loggers, and customer data analysis sector, Batteries, storage and R & D division. and different types of LED's and its applications.


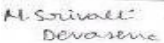


- Department of Electrical Engineering organized an industrial visit to **ELECTRIC LOCO SHED, Vijayawada** for 4th Year B.Tech. Electrical students (42) along with 3 faculty members visited the **Industry** on 28th Feb 2020.



Placement Report for the A.Y 2019 – 20

The department collaborated with the Placement and Counselling Cell. The recruitments organized by the Placement and Training Cell during the academic year 2019-20.

| S.No | Name | Roll number | Organization | photo |
|------|------------------------------------|-------------|----------------|--|
| 1 | SAI SANKAR RAO | 17HP5A0212 | EFFTRONICS |  |
| 2 | BADISA SHANMUKHA MAHESH BABU | 17HP5A0213 | GESTAMP |  |
| 3 | NEHEMYA KOMMULA | 16HP1A0241 | GESTAMP |  K. Nehemya |
| 4 | D VAMSEE | 16HP1A0250 | GESTAMP |  D. Vamsee |
| 5 | K.N.V.V.RAVI TEJA | 17HP5A0211 | GESTAMP |  |
| 6 | D. Sreevardhan | 16HP1A0248 | KIA |  D. Sree Vardhan |
| 7 | S.SATHVIKA | 16HP5A0225 | NICE EDUCATION |  S. Sathvika |

| | | | | |
|----|------------------------|------------|----------------|---|
| 8 | M.SRIVALLI DEVASENA | 16HP5A0227 | NICE EDUCATION |  Below Student Signature  |
| 9 | MD.FARROKH ALI | 17HP5A0206 | NICE EDUCATION |  |
| 10 | R.SAI SANKAR RAO | 17HP5A0212 | NICE EDUCATION |  |

SPORTS

- Ch. Ajay (17HP1A0224), N Madhu sudhan (18HP1A0230), are the part of college cricket team which has won JNTUK C ZONE championship as runners



Five-Day National Level online FDP on Cutting-Edge Technologies for Electrical Engineering

A Five-Day National Level online FDP on Cutting-Edge Technologies for Electrical Engineering was held at the Department of Electrical and Electronics Engineering from 18th to 22nd May 2020 through a Licenced version of ZOOM online platform.

Dr. K. Siva Kumar, EED, IIT Hyderabad,

Er. K. Ramakrishna Reddy DEE, SLDC, AP Vidyut soudha,

Dr. D. Rakesh Chandra KITS Warangal,

Dr.P. Padmagirisan. University of Surrey, U.K.,

B Durga HariKiran, Vagdevi College of Engineering, warangal

Dr. P.E.S.N. Raju, R&D Department, OPAL-RT Technologies,Bengalore

Gave exposure on:

1. Real-time Grid monitoring and control by SCADA.
2. Multi-Level Converter Topologies.
3. Electric Vehicle Technologies
4. Grid Integrated Renewable sources.
5. Forecasting using Neural Networks.
6. Microgrid: Key issues and challenges. OPAL-RT Laboratories, etc.



You are viewing Dr. Ajay Kumar's screen View Options ▾

WELCOME to
5 Day National Level Online FDP on
Cutting-Edge Technologies for Electrical
Engineering during 18-22nd May 2020

Day 1:

Key Note Speaker: Dr. K. Siva Kumar, IIT Hyderabad

Topic: Multi-Level Inverter Topologies



Organized by
Department of EEE



HOW NEURAL NETWORKS WORKS

The slide displays a handwritten graph with a vertical axis labeled 'E' (ranging from 145 to 180) and a horizontal axis labeled 'W' (ranging from 140 to 75). Several red lines and points are plotted, with annotations like '1700', '166', and '160'.

Evolution of the Grid

- August 2006: North synchronized With Central Grid
- Five Regional Grids, Two Frequencies
- March 2003: West synchronized With East & Northeast
- October 1991: East and Northeast synchronized
- NEW Grid
- South Grid
- SR Synch By 1-1-2014
- MERGING OF MARKETS
- Inter-Regional Capacity: 22 GW
- Installed Capacity: 201 GW
- Five Regional Grids

Using a Real Time Simulator

Desktop Simulations

- Slower: 11, 12, 1, 2, 9, 10, 3
- Faster: 11, 12, 1, 2, 9, 10, 3

Real-Time Simulation

- Real Time: Testing real systems, Controllers, relay testing etc.
- Faster than Real Time (Accelerated Simulation): Large power networks, Multiple Scenarios.

Using Real Time Simulator, we can analyze multiple scenarios quickly and efficiently, and test equipment using flexible virtual environment.

Demand Side Management (DSM)

- It is a set of interconnected and flexible processes
- Allows customers in shifting their own demand for electricity during peak time
- Leads to improving the load factor.

DSM Focuses on

- utilizing power saving technologies
- monetary incentives, power tariffs and policies
- to mitigate the maximum demand instead of expanding the generation capacity.

Fig: Load Shifting

The Programme intends to develop the knowledge of participants for simulation with advanced software in the relevant field for inculcating learning values in students and guiding and monitoring their progress. The FDP was attended by 350 faculty members of ECE, EEE from various colleges

LOYOLA ELECTRICAL ENGINEERS (LEE)

As a part of this Student chapter, the interested students post different Electrical related topics and are displayed in department notice board. Following is the one of the posts displayed in our notice board.



ANDHRA LOYOLA INSTITUTE OF ENGINEERING &
TECHNOLOGY
Department of Electrical & Electronics Engineering

Loyola Electrical Engineers (LEE) Student Chapter

Date: 25/11/2019

Why the transmission Voltage rating is Multiples of 11, like 11kV, 33kV, 66kV, 132kV and 220kV?

Is it form factor? **NO**

What is it then?

The reason is much *simpler* and *historic*. In earlier days, people had the misconception that while transmitting the voltage there would be a **drop of approximately 10%**. Therefore, to get the 10kV to the load side they would multiply it by 10%. So, the voltage generated would usually be 110% of the original demand. *For example,*

| | |
|----------------|---------|
| 20kV of 110% | = 22kV |
| 30kV of 110% | = 33kV |
| 60kV of 110% | = 66kV |
| 120kV of 110 % | = 132kV |

The same practice is continued for existing systems till today for below 400kV lines.

By
Mr. Ch. Abhinav
IVthEEE

Coordinator

(Dr.M. AJAY KUMAR)

HOD-EEE

(Dr. G. NAVEENKUMAR)

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. Anil 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 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

1. P SWAPNIKA, 16HP1A0219
2. CH SAITEJA, 16HP1A0247

III-EEE

KAJOL VIJAYA JASHNAVI, 17HP1A0206
P RAVITEJA, 17HP1A0244

II-EEE

A RAKSHITHA, 18HP1A0210
S VENKATA RAVINDRAREDDY, 18HP1A0251