

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Accredited by NAAC, NBA, Affiliated to JNTUK, Kakinada)

An ISO- 9001:2015 Certified Institution

Department of Electrical & Electronics Engineering

Departmental Events for Academic Year 2021-22

The department collaborated with the Placement and Counselling Cell. The recruitments organized by the Placement and Training Cell during the academic year 2021-22.

S.no	Date of organised	NAME OF THE SPEAKER DESIGNATION	INSTITUTION/UNIVERSITY/ORGANIZATION	Event Name
1	20th Dec 2021	Mr. M RAMA KRISHNA	POWER GRID CORPORATION OF INDIA LIMITED	INDUSTRIAL VISIT
2	8th Dec 2021	Mr M RAMESH KUMAR	an industrial visit to ELECTRIC LOCO SHED, VIJAYAWADA.	INDUSTRIAL VISIT
3	21st Sep 2021.	FROM SKILLDZIRE	500 kwp solar plant	virtual industrial tour
4	26th to 30th Oct 2021	From ALIET	ALIET	APPLICATIONS OF MATLAB IN ELECTRICAL ENGINEERING
5	5th & 6th of Oct 2021	FROM SKILLDZIRE	SkillDzire	workshop on EV Technology
6	14th March 2022	Jitendra Tiwari	from MADE EASY	Guest Lecture on Strategy to crack Gate and other competitive exams
7	18th May 2022	G. Gopal Rao, professor	from Anna University	Guest Lecture on Carrier Guidance
8	31st March 2022	T.Satyanarayana Murthy Deputy engineer	APTRANSCO	Guest Lecture on Load Dispatch

9	30-04-2022	From ALIET	ALIET	Technical Quiz
10	26th May 2022	From ALIET	ALIET	PROJECT EXPO-2K22
11	26th of October 2021.	From ALIET	st.Josephs ITI college	Identification and Rectification of Faults in Electrical Home Appliances
12	4th December 2021	From ALIET	ALIET	Give them a Hand Up rather than a Hand Out
13	13th November 2021	From ALIET	ALIET	World Diabetes Day
14	14th October 2021	From ALIET	ALIET	World Vision Day
15	12th April 2022	From ALIET	ALIET	International Street Children's Day
16	4th June 2022	From ALIET	ALIET	Reunir-2022

List of Publications in Journals & Conferences:

- V. Anantha Lakshmi, T.R.Jyothsna, —Power Quality Enhancement of a Grid System Using AI Based Custom Devices, Journal of Green Engineering (JGE), Volume-11, Issue-3, March 2021, <http://www.jgenng.com/wpcontent/uploads/2021/3/volume11-issue3-51.pdf>.
- V. Anantha Lakshmi, T.R. Jyothsna, —Stability Improvement in Hybrid System Using Optimization Technique based DPFC Controller, The Journal of Engineering (Provisionally Accepted).
- V. Anantha Lakshmi and T. R. Jyothsna, —A Novel Unified Power Quality Conditioning System on Line Loading Losses and voltage stability of smart bulidings, International Conference on smart grids structure and materials, held on 19th -20th April 2021, KLEF, Vijayawada.
- Ajay Kumar Moodadla, Nitheesh Kumar M, “Design and Analysis of Wind Power Plant Screen using SCADA”, Journal of Chengdu University of Technology, Vol.26, No.8, pp.1-13, July 2021.
- Ravi Kiran Dasari, Godwin Immanuel, “A Novel Cluster Switched Inductor Based High Step-Up Hybrid DC-DC Converter”, Electr Eng (2021). <https://doi.org/10.1007/s00202-021-01439-7> (Springer - SCI, Web of Science indexed)2.
- Ravi Kiran Dasari, Dr. D. Godwin Immanuel, “Closed-Loop High-Gain DC-DC Converters for Renewable Energy Source Application” Published in Advances in Intelligent Systems and Computing, Springer, Volume 1369, 2021, pp 407-421. (SCI, Web of Science indexed
- Ravi Kiran Dasari, Godwin Immanuel, “Photo Voltaic Hybrid Boost Converter Fed Switched Reluctance Motor Drive for Electric Vehicle Application”, International Journal of Power Electronics and Drive System (IJPEDS), Vol. 13, No. 1, pp. 275-288, March 2022. DOI: 10.11591/ijpeds.v13.i1.pp275-288 (Scopus indexed)
- Ravi Kiran Dasari, Godwin Immanuel, ““Analysis of Solar Integrated Symmetrical Hybrid Switched-Inductor DC-DC Converter Fed SRM Drive for Electric Vehicle Application”, Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban) / Journal of Tianjin University Science and Technology, pp. 665-677, Vol. 55, Issue 04, ISSN: 0493- 2137, April 2022. (Citescore 0.8, SJR 0.22, SNIP 0.396), DOI: 10.17605/OSF.IO/XHSC4, (Scopus indexed)
- Ravi Kiran Dasari, Dr. D. Godwin Immanuel, “Comprehensive Review of Single Switch DC-DC Converters for voltage lift in RES application”, International Conference on power, Energy, Control and Transmission Systems (IEEE - ICPECTS), Chennai, 2018.
- B. Srinivasa Rao, **Krishna Mohan Tatikonda**, Anu Shukla, K. Kanakaraju, “Implementation of Hybrid MPPT for Grid-Connected Hybrid System”, Journal of Xi'an University of Architecture & Technology, VOLUME XIV, ISSUE VI, JUNE 2022, Page No: 61-73.

- **Krishna Mohan Tatikonda**, Udaya K. Renduchintala, Chengzong Pang, and Lin Yang, "ANFIS-fuzzy logic based UPQC in interconnected microgrid distribution systems: Modeling, simulation and implementation," 2021 *The Authors. The Journal of Engineering published by John Wiley & Sons Ltd on behalf of The Institution of Engineering and Technology*, <https://doi.org/10.1049/tje2.12005>.
- Tulasichandra Sekhar Gorripotu, **Krishna Mohan Tatikonda**, B. Omkar Lakshmi Jagan, "IMPLEMENTATION OF HYBRID MPPT FOR GRID-CONNECTED HYBRID SYSTEM", *International Journal of Advanced Science and Technology*, Vol. 29, No. 6, (2020), pp. 3451-3458.
- T. Eswara Rao, **Krishna Mohan Tatikonda**, S. Elango, and J. Charan Kumar, "MICROGRID TECHNOLOGIES", Edited by C. Sharmeela, P. Sivaraman, P. Sanjeevi kumar, and Jens Bo Holm-Nielsen, Scrivener Publishing, Wiley Publications, ISBN: 978-1-119-71079-0, April 2021, Pg:287-308.
- Dr. B. Srinivasa Rao, **T. Krishna Mohan**, B. Ravi Shankar, B. Omkar Lakshmi Jagan, "Hybrid CS-ALO Mppt For Grid-Connected Photovoltaic System", "International Conference on Smart Grids Structures and Materials (Springer Lecture Notes in Electrical Engineering)" held on 19th and 20th April 2021 at KLEF, Vijayawada.
- B. Srinivasa Rao, **Krishna Mohan Tatikonda**, Anu Shukla, "Implementation of Hybrid BAT-PO MPPT for Grid-Connected Hybrid System", *Microgrid System: Artificial Intelligence-Based Energy-Efficient Optimization*, published by CRC Press (Taylor and Francis). **Accepted**
- Krishna Mohan Tatikonda, "Implementation of a Novel 51- Level Asymmetrical Cascaded Multilevel Inverter for Photo-Voltaic Application", 2nd International Conference on Innovations in Energy Management and Renewable Resources IEMRE – 2022 (**IEEE Digital Library**) organized by Institute of Engineering & Management, Kolkata on 25th - 27th February 2022.

INDUSTRIAL VISITS

Department of Electrical Engineering has organized an industrial visit to POWER GRID CORPORATION OF INDIA LIMITED, NUNNA for 3rd Year B. Tech Electrical students. Totally 66 students along with 2 faculty members visited the Industry on 20th Dec 2021. The authorities of the grid were allotted two Professionals who were expertise in the area of grid control and management, the professionals had explained about all the components and their working.

Some of the components they had seen in the power grid 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 which are used in power grid for transmission and protection.

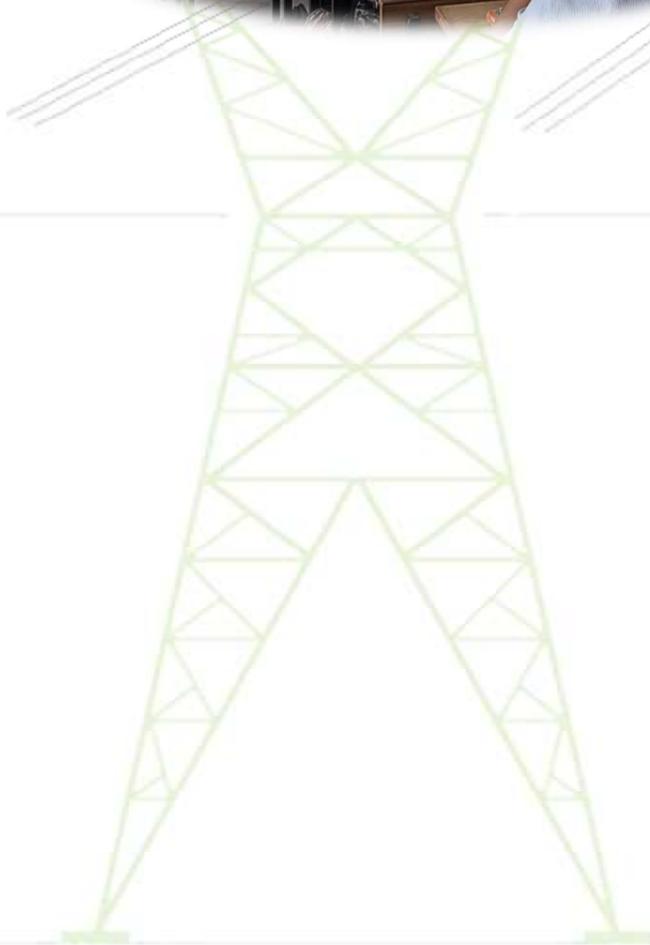


The Department of Electrical Engineering organized an industrial visit to ELECTRIC LOCO SHED, VIJAYAWADA for 4th Year B.Tech. Electrical students (63) along with 2 faculty members visited the Industry on 8th Dec 2021. The purpose of our industrial visit is to get a practical view about windings i.e., 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.



The Department of Electrical Engineering organized an virtual industrial tour of 500 kwp solar plant for 3rd & 4th Year B.Tech. Electrical students in association with SkillDzire on 20th & 21st Sep 2021.

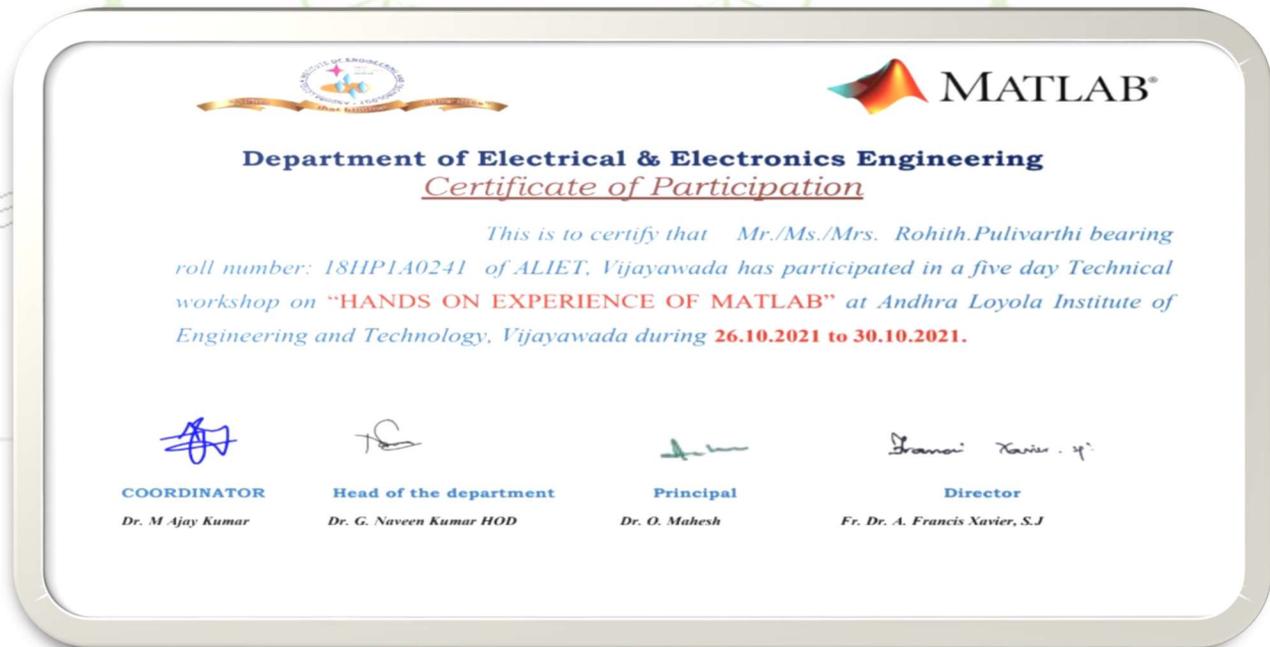




WORKSHOPS ATTENDED BY STUDENTS

Workshop on Applications of MATLAB

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 26th to 30th Oct 2021. The event was inaugurated at 9.00 A.M. around 50 students from various colleges participated in this workshop.



Workshop on EV Technology

The students of 3rd & 4th EEE were participated in national level free workshop on EV Technology organised by SkillDzire on 5th & 6th of Oct 2021.

Ramesh Aliet
➔ Forwarded many times
SkillDzire Announces ...

National level FREE Workshop on EV Technology

Date : 5th & 6th Oct | 04:00 PM

Day-1: Introduction to Charging Technology

Day-2: Overview of Thermal Management System in EV

Register here: <https://bit.ly/3m9Xli2>

Let's learn and grow.

SkillDzire.com
Ph. 8019692530

16:35

GUEST LECTURES

The Department of Electrical and Electronics Engineering has conducted a Guest Lecture on 14th March 2022 on “**Strategy to crack Gate and other competitive exams**”. It was delivered by **Jitendra Tiwari**, educationalist by profession from MADE EASY, for the students of 2nd, 3rd & 4th year EEE. the programme conducted at NSH, ALIET at 2:30 pm. More than 120 students were participated in the programme and students stated that the programme was very useful for their career enhancement



The Department of Electrical and Electronics Engineering has conducted a Guest Lecture on 18th May 2022 on “**Carrier Guidance**”. It was delivered by **G. Gopal Rao**, professor from Anna University, for the students of 2nd, 3rd & 4th year EEE. the programme conducted at NSH, ALIET at 2:30 pm. More than 120 students were participated in the programme and students stated that the programme was very useful for their career enhancement



The Department of Electrical and Electronics Engineering has conducted a Guest Lecture on 31st March 2022 on “**Load Dispatch**”. It was delivered by T.Satyanarayana Murthy Deputy engineer, APTRANSCO, for the students of 2nd, 3rd & 4th year EEE. the programme conducted at NSH, ALIET at 2:30 pm. The programme was very helpful for the students for their technical growth on power systems



Appliances	number	wattage	Usage of hours per day	Total load
AC	2	1500	3	9000
Refr	1	1000	8	8000
Light	8	30	12	2880
Light	10	30	4	1200
Water pump	1	450	1	450
TV	1	600	1	600
Water heater	1	1500	1	1500
Refrigerator	1	250	12	3000
Electric fan	2	300	8	4800
Watt				29580
Consumption in kWh/day				29.58kwh
Consumption in kWh/Month				887.4kwh
Consumption per month				887.4kwh

Technical Quiz

The Department of Electrical and Electronics Engineering conducted Technical Quiz competition for 2nd, 3rd and 4th year students on 30-04-2022. The quiz was organized by the faculty in-charge Mr. M Rama Krishna.

A total of 47 students registered for the Quiz competition. The students were divided into 5 teams (each consisting of four students) and the team with the highest score was declared the winner of the contest.

S No	Position	Roll Number	Year
1	I	20HP1A0205	II YEAR
		20HP1A0235	II YEAR
		19HP1A0218	III YEAR
		19HP1A0232	III YEAR
2	II	20HP1A0205	II YEAR
		20HP1A0205	II YEAR
		20GP5A0229	III YEAR
		19HP1A0216	III YEAR
3	III	20HP5A0214	III YEAR
		20HP5A0220	III YEAR
		20HP1A0239	II YEAR
		20HP1A0236	II YEAR



PROJECT EXPO-2K22

Under IQAC the Department of Electrical & Electronics Engineering organized an exhibition of engineering projects on 26th May 2022. The projects were designed and developed by the students of final year. The students of 2nd and 3rd year interacted with final year students regarding their projects. The event was found to be very informative for the 1st, 2nd & 3rd year students



EXTENSION PROGRAMS

The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program on “**Identification and Rectification of Faults in Electrical Home Appliances**” at st.Josephs ITI college in Gunadala on 26th of October 2021.

The students from EEE Department participated actively in this program. The NSS students shared their knowledge to the ITI students about the different Electrical Home Appliances. The students took three Electrical Home Appliances (Ceiling Fan, Mixer Grinder and Room Heater) and explained their Internal Parts, Wiring Diagram and Working. The students also explained about different faults observed in each appliances and how to rectify them.



The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program to help needy people. In this regard, our NSS unit planned a program **“Give them a Hand Up rather than a Hand Out”** which is held on **4th December at Gunadala, BRTS Road, Railway Station and KR Market.**

The importance of conducting this event to help the people and needy people. The students of the EEE Department came forward to donate for the poor people with the slogan in the Mind **“A little help with a little smile gives meaning to human life”**. The students of the EEE department participated actively in this program. The NSS Students distributed the blankets to the people who do not have accesses to basic amenities like food and clothing.



The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program on the occasion of “**World Diabetes Day**”. The **NSS unit** planned a program “World Diabetes Day” which is held on **13th November at Autonagar**.

The importance of the “World Diabetes Day” is to spread awareness about diabetes mellitus. The students from EEE Department participated actively in this program. The NSS Students explained about the problems of having diabetes and invited people from surrounding places to utilize the “Free Medical Camp”.



The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program on the occasion of “World Vision Day”. The NSS unit planned a program “World Vision Day” which is held on second Thursday of October i.e. on 14th October at Autonagar.

The importance of the “World Vision Day” is to create awareness to focus attention on and encouraging everyone to think about the importance of their own eye health which impacts on education, employment, quality of life, poverty of life and so other sustainable development goals. The students from EEE Department participated actively in this program. The NSS Students invited people from surrounding places to utilize the “Free Medical Camp”.



The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a rally program in collaboration with the Indian Railways Child Line, Vijayawada Division on 12th April 2022 on the occasion of “**International Street Children’s Day**”. The importance of the “International Street Children’s Day” is to create awareness about the street children and support the vital recognition on their rights. The students from EEE Department participated actively in this rally program and created awareness on 4-steps adopted by the “Consortium for street children” to support them.



STUDENT INTERNSHIPS

S. No	Roll Number	Name	Institution/ Organization	Internship Title Name
1	19HP1A0237	Penamakuri Sri Sai Ramana Lokesh		
2	20HP5A0216	Kornu. Karthik	Pancech Solutions	Internet Of Things (IOT)
3	19HP1A0236	B. Sivasankar	Skill Dzire	Artificial Intelligence
4	19 HP1A0234	Yesapogu Samuel Hanock		
5	19HP1A0207	Puja Iswarya S	Vi Solutions	About Power Electronics
6	21HP5A0216	Kattamuri Indra Pavan Kumar	Pantech E Learning	IOT With Machine Learning
7	19HP1A0223	P Manoj Venkat	Skill Dzire	Internet Of Things
8	19HP1A0211	Sneha Konapaneni		
9	20HP1A0238	Balijepalli Rahul		
10	20HP5A0203	Lakshmi Prasanna	Skill Dzire	Embedded System For Python
11	19HP1A0212	Talupula Tejaswini	Skill Dzire	Solar PV Plant Design
12	20HP1A0203	Balijepalli Divya	Skill Dzire	
13	19HP1A0206	Penumaka Pragna	Skill Dzire	Solar PV Plant Design
14	21HP5A0206	Mondru.Balu	Pantech E Learning	IOT With Machine Learning
15	20HP1A0242	Panem Satya Mojesh	Pantech E Learning	IOT With Machine Learning
16	19HP1A0209	Sindhuri Reddy	Skill Dizer	3d Design
17	19HP1A0201	M.Abdul Farhan Bano	Andhra Loyola College	Ev
18	20HP5A0217	Anupoju Kishore	IEEE	IOT With Machine Learning
19	20HP1A0217	Ch.Bharatwaraj	IEEE	
20	20HP1A0243	A.Siva Rama Teja	Brain O Vision Solutions (India) Pvt Ltd	Web Development
21	21HP5A0202	Chintala Bhargavi	Pantech	Electric Vehicles
22	20HP1A0202	Chidrupinilaya Mudili	Pantech Company	Electric Vehicles
23	21HP5A0219	Yandamuri Mohith	Pantech	Electric Vehicles
24	21HP5A0214	Tungala Akash Charan	Pantech E Learning	IOT Machine Learning
25	19HP1A0241	S.Vasanth Prakash		
26	20HP5A0218	Gudelli Lakshman	IEEE	IOT With Machine Learning
27	20HP5A0201	Gadam. Bharathi	IEEE	IOT With Machine Learning
28	21HP5A0213	Vasavi Patibandla2	Pantech	Electric Vehicles