

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

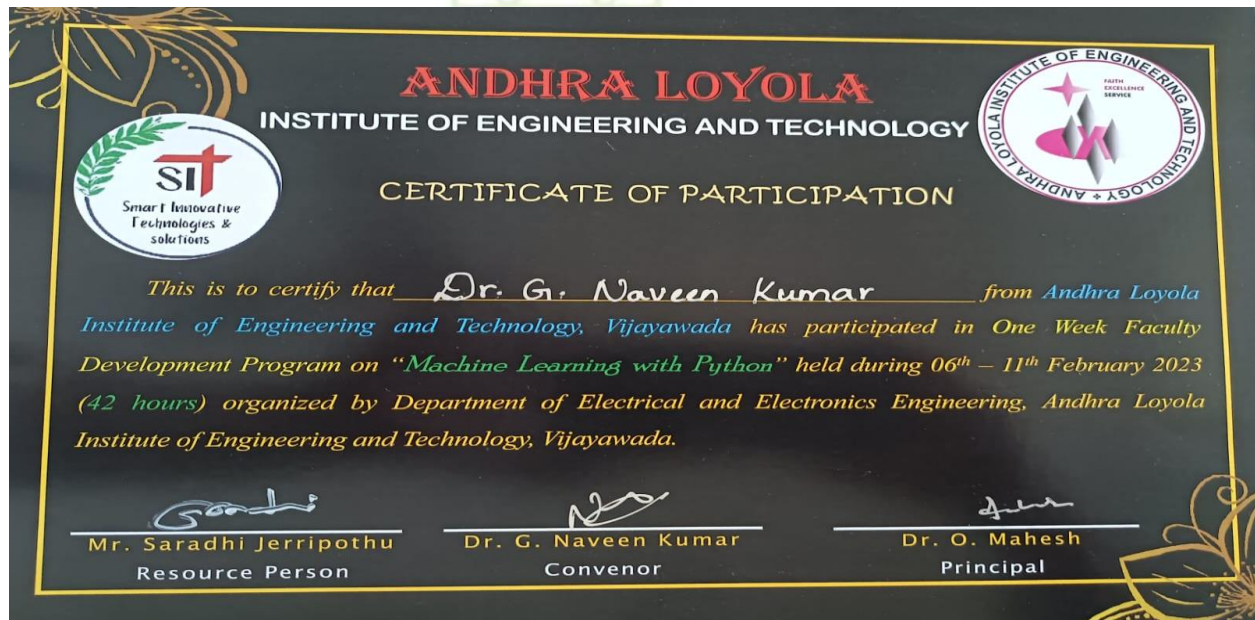
Summary of departmental events for academic year 2022-23

S.no	Date of organised	NAME OF THE SPEAKER DESIGNATION	INSTITUTION/UNIVERSITY/ORGANIZATION	Event Name
1	1 st March 2023	Mr.T.Krishna Mohan/ Mr.D.Ravi Kiran	Nagarjuna Sagar Hydro Power Plant, Nagarjuna Sagar	Industrial Visit
2	24 th March 2023	Mr M.Rama Krishna/ Mr.M.Ramesh Kumar	Auto Nagar, Vijayawada	World Tuberculosis Day
3	27 st March 2023	Dr.M.Ajay Kumar/ Mr M.Rama Krishna	ALIET	PROJECT EXPO-2K23
4	27 th to 28 th Feb 2023	MR. VENKATA MANIKIRAN	SKILL Dzire	Electric Vehicle Design
5	16-08-22 to 23-03-23.	Mr.S. Bhavani Shankar, Executive Manager & Head-IoT	Efftronics Systems Pvt. Ltd	Industrial Training Program on Keil and ARM Processors
6	06-02-23 to 11-02-23	Mr.J. SARADHI	Smart Innovative Technologies & solutions	Machine Learning with Python
7	24-08-22	. Dr. O V Gnana Swathika Dr. K Jamuna	Centre for Smart Grid Technologies	One Day Hands on Workshop on Advanced Digital System Design Using Verilog HDL
8	23-02-2023	Mr. L Karunakar	ALIET	Technical Quiz
9	10 th of December	Mr M.Rama Krishna/ Mr.M.Ramesh Kumar	Govt ITI College, Near ALC Campus	World Energy Conservation Day

10	10 th of December	Mr M.Rama Krishna/ Mr.M.Ramesh Kumar	Care and Share School, Ajit Singh Nagar, Vijayawada	International Human Rights Day
11	03 rd of September	Mr M.Rama Krishna/ Mr.M.Ramesh Kumar	Anganwadi Centre, Vijayawada	National Nutritional Day
12	6 th Nov 2022	Mr.M.Ramesh Kumar	LANCO,kondapalli	industrial visit
13	21/11/2022 to 25/11/2022	Prof. Milli Pant	NITTR	FDP

Workshops/FDPs Attended by Faculty

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



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



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



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



List of Faculty Development Programs attended by **Dr M Ajay Kumar**



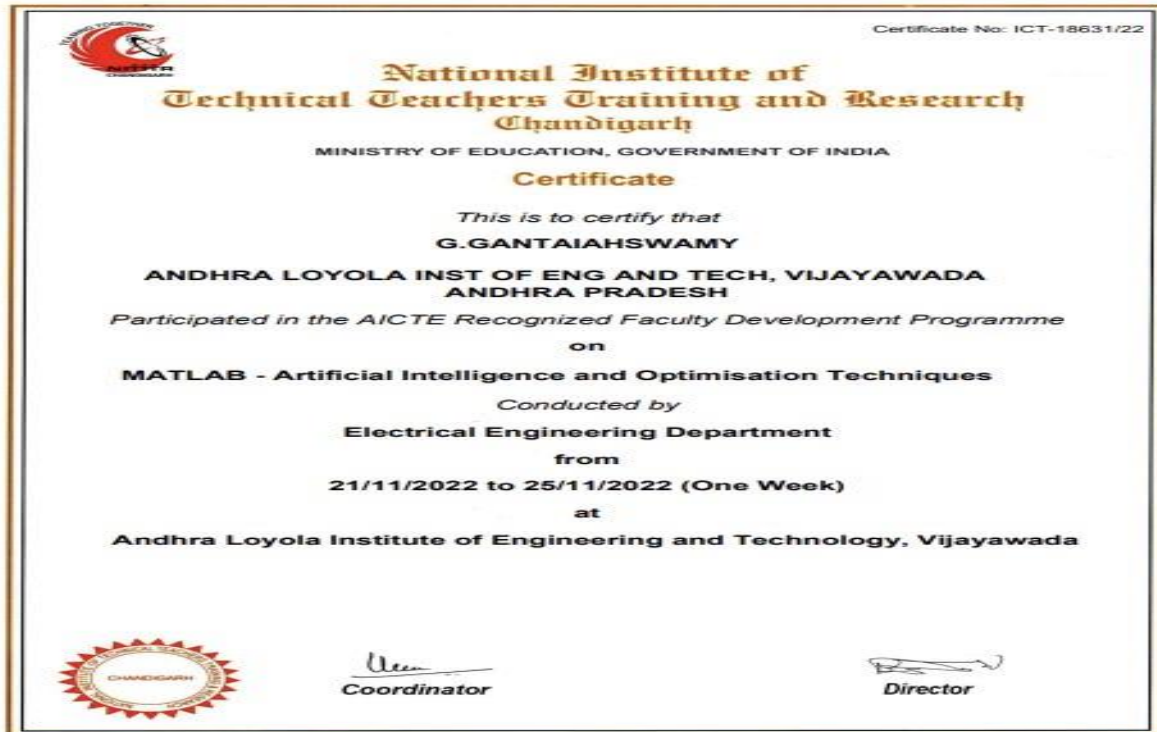
List of Faculty Development Programs attended by **Mr L KARUNAKAR**



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



List of Online Faculty Development Programs attended by Mr. G. Gantaiah Swamy



List of Publications in Journals & Conferences by the faculty:

- **Dr G Naveen Kumar** presented a paper titled oscillating water column as clean energy source for sustainable power generation in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **Dr G Naveen Kumar** presented a paper titled fault over-ride and minimization of losses in PV integrated transmission network using STATCOM in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- Mr Gantaiah Swamy Garika published a paper titled with Machine Learning -Wavelet Protection Analysis for SVC Controlled Wide Area Network in Presence of Wind Energy Source in INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH P. Kottala and G. S. Garika., Vol.13, No.1, March, 2023

List of Publications in Journals & Conferences by the students:

- **MS A SINDHURI REDDY** presented a paper titled fault over-ride and minimization of losses in PV integrated transmission network using STATCOM in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai

- **MS T TEJASWINI** presented a paper titled fault over-ride and minimization of losses in PV integrated transmission network using STATCOM in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **MS S LALITHA SRI** presented a paper titled fault over-ride and minimization of losses in PV integrated transmission network using STATCOM in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **MS D SIVA LEELA** presented a paper titled fault over-ride and minimization of losses in PV integrated transmission network using STATCOM in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **MS GORIPARTHI VEERA NAGA C** presented a paper titled fault over-ride and minimization of losses in PV integrated transmission network using STATCOM in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **Mr P MANOJ VENKAT** presented a paper titled oscillating water column as clean energy source for sustainable power generation in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **Mr VASANTH PRAKASH SUDARSANAM** presented a paper titled oscillating water column as clean energy source for sustainable power generation in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai
- **Mr A HARISH** presented a paper titled oscillating water column as clean energy source for sustainable power generation in virtual international conference titled smart grids paradigm of cyber physical systems-(SGPCPS-2023) organized by centre for smart grid technologies and school of electrical engineering from 9th to 10th march 2023 at VIT, Chennai

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WORKSHOPS ATTENDED BY STUDENTS

WORKSHOP ON Electric Vehicle Design:

The department of Electrical And Electronics Engineering conducted a three day Workshop on 27th to 28th Feb 2023, on “**Electric Vehicle Design**” In Association with **IEI-Student Chapter** and in collaboration with **SKILL Dzire**. from mechanical and electrical departments Nearly 130 students were participated in the workshop. **MR. VENKATA MANIKIRAN** Electric Vehicle & Automobile Professional was the resource person for this programme.

This course initiates candidates into the emerging area of Electric Vehicles and helps learn the Basics of Battery driven Electric Vehicle and its Dynamics, Motors, Power Electronics, Batteries, Charging etc



Industrial Training Program on “Keil and ARM Processors”

The department of Electrical And communications Engineering organized a Seven Months Industrial Training Program on “Keil and ARM Processors”, from 16-08-22 to 23-03-23. Mr.S. Bhavani Shankar, Executive Manager & Head-IoT, Efftronics Systems Pvt. Ltd., acted as Resource Person. Rev. Fr. D Balaswamy, S.J., Assistant Director of ALIET, Dr.O. Mahesh, Principal and Mr.M. Rama Krishna, HOD ECE are the Guests for this Training Program. Mr.M. Rama Krishna and Mr.G. Vijay Kumar, Assistant Professors are the Coordinators of this Training Program. From EEE department 11 students have attended for this training program.



ALIET & Efftronics Systems Pvt Ltd
Collaboratively Offer :

- The High quality practical/ application oriented training
- Industry Accepted course content
- Internship certificate

Training process

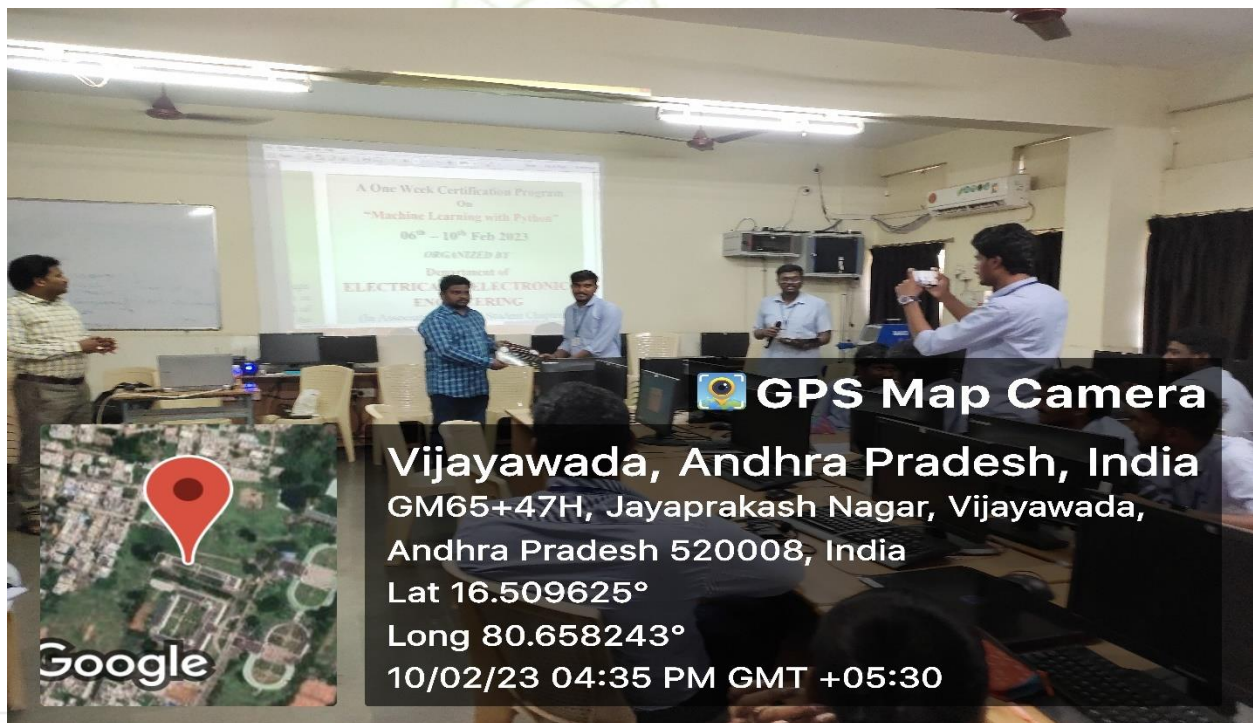
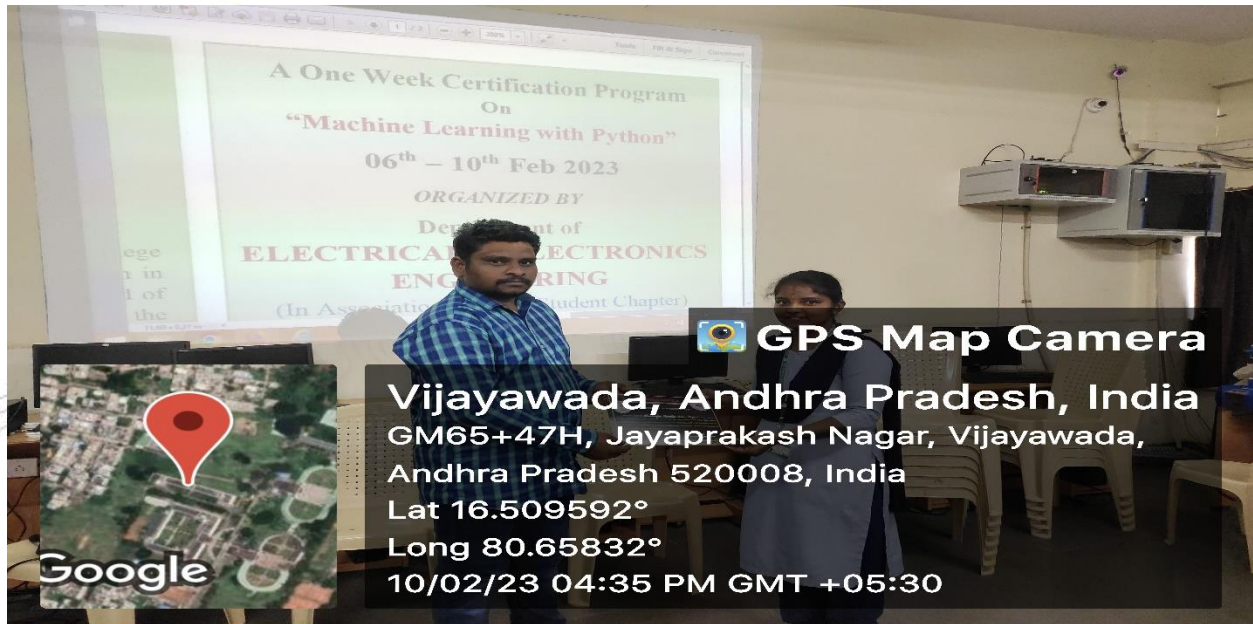
TRAINING PROGRAM

- C LANGUAGE
- SENSOR SYSTEMS
- DIGITAL ELECTRONICS
- LPC1114 MICRO CONTROLLER

Advanced but simple course content
Proven Methodology
6 Days a Week (60 to 90 minutes) Modules like theory & practicals



The department of Electrical And lectronics Engineering organized A One Week Certification Program On “Machine Learning with Python”, from 06-02-23 to 11-02-23 **In Association with IEI-Student Chapter** and in collaboration with **Smart Innovative Technologies & solutions**. Mr.J. SARADHI, , acted as Resource Person.



The department of Electrical And electronics Engineering organized One Day Hands on Workshop on “**Advanced Digital System Design Using Verilog HDL**”, on 24-08-22. in association with Centre for Smart Grid Technologies, School of Electrical Engineering VIT. Dr. O V Gnana Swathika Dr. K Jamuna acted as Resource Persons for this workshop. this workshop is very helpful for the students for enhancing their knowledge in Verilog Modelling Styles, Verilog Module and Test Fixtures, Combinational Circuits and Sequential Circuits



Technical Quiz

The Department of Electrical and Electronics Engineering conducted Technical Quiz competition for 2nd, 3rd year students on 23-02-2023. The quiz was organized by the faculty in-charge Mr. L Karunakar.

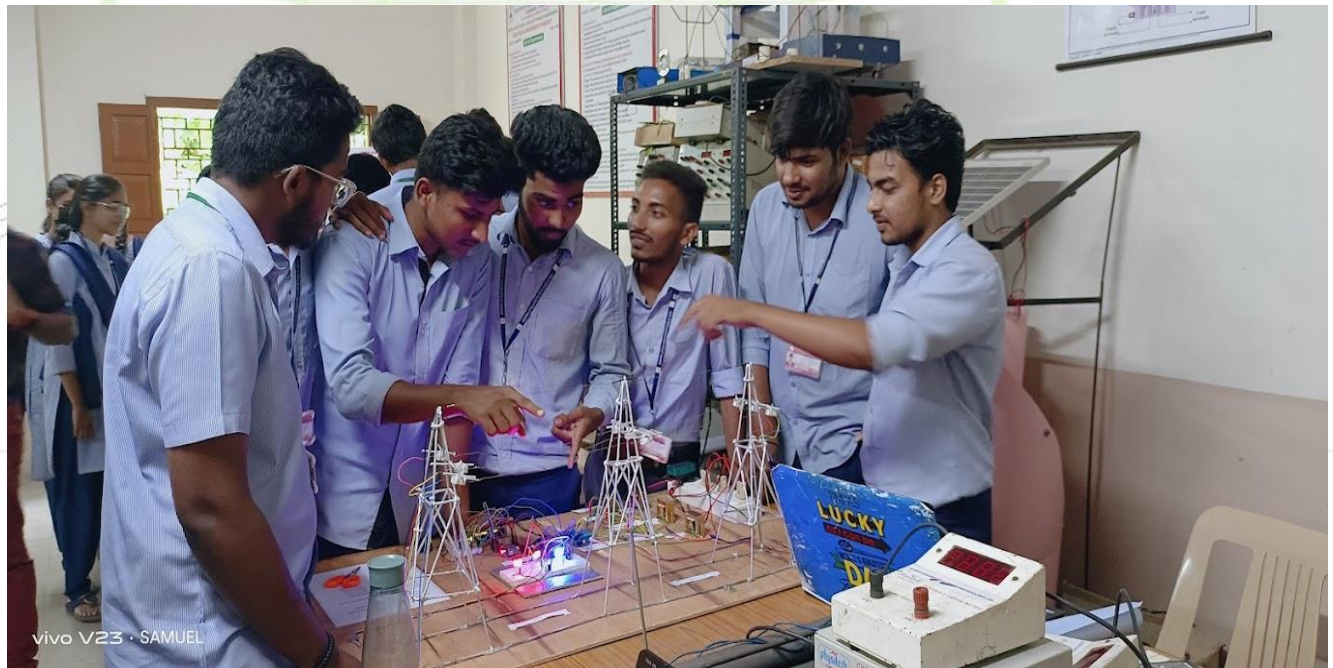
Among all 20 students were shortlisted. The students were divided into 5 teams (each consisting of four students) and the team with the highest score was declared the winner of the contest.

S No	Position	Roll Number	Year
1	I	20HP1A0207	III YEAR
		20HP1A0213	III YEAR
		21HP1A0228	II YEAR
		22HP5A0207	II YEAR
2	II	20HP1A0212	III YEAR
		21HP5A0205	III YEAR
		21HP1A0202	II YEAR
		21HP1A0213	II YEAR



PROJECT EXPO-2K23

Under IQAC the Department of Electrical & Electronics Engineering organized an exhibition of engineering projects on **27th March 2023**. 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

1) The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program on the occasion of “World Tuberculosis Day”. The NSS unit planned a program “World Tuberculosis Day” which is held on 24th March at Autonagar.

The students from EEE Department participated actively in this program. The NSS Students created awareness about “devastating health, social and economic consequences of TB, step up efforts to end the global TB epidemic”.



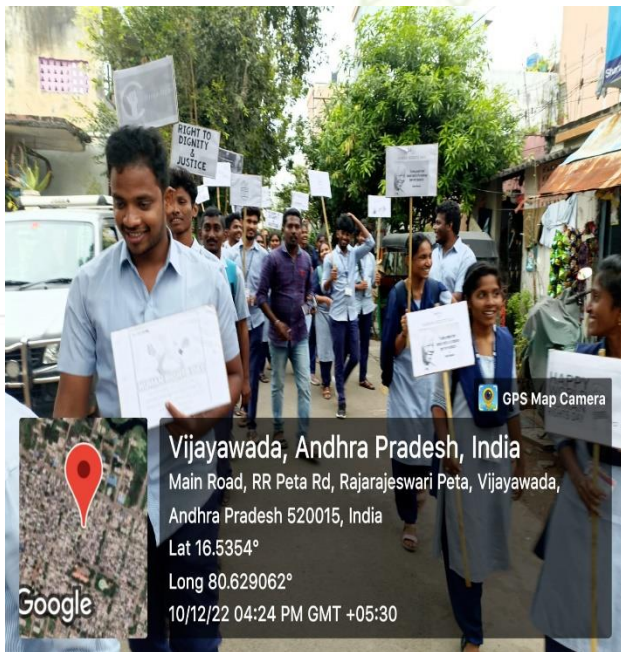
2) The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program on the occasion of World Energy Conservation Day” at Govt ITI College, Near ALC Campus, Vijayawada on 10th of December.

This program focuses on creating awareness about the star rating of the Electrical Equipment and the supplementary sources that are available in the outside world to reduce the burden on the grid.

The students from EEE Department participated actively in this program by explaining about the importance of conservation of energy and also they make the students to calculate the connected load for the room and gave clear idea about choosing the number of solar panels, required current to charge the battery from the solar panel and the rating of the battery etc.



3) The NSS students of EEE participate in “**International Human Rights Day**” conducted by “**Mont Fort Social Institute**”, at Care and Share School, Ajit Singh Nagar, Vijayawada on 10th of December. The theme of this “**International Human Rights Day**” is the observance of Dignity, Freedom and Justice for all. This program focusing on the equality of all human rights and its importance. The resource person **Mr.G. Rohith, State Executive Committee Member from Human Rights Form** addressed the people and enlighten them by explaining the Rights of each human being, Facts about Human Rights Day like know your rights, think about the children, right to vote etc. The students from EEE Department participated actively in this program by showing the placards related to the Human Rights.



4) The NSS unit of Andhra Loyola Institute of Engineering and Technology organized a program on the occasion of “National Nutritional Day” in collaboration with “Mahila Samrakshan Kryadarsi” at Anganwadi Centre, Vijayawada on 03rd of September. The students from EEE Department participated actively in this program. The NSS students shared their knowledge to the pregnant ladies about the importance of the National Nutritional Day, drawbacks due to lack of nutritious food. The students explained how to improve the health of small children from the nutritional problems also gave few tips for getting good health.



GMC5+VJ2, Bethlehem Nagar, Madhura Nagar, Vijayawada, Andhra Pradesh 520004, India

Latitude
16.5220558°

Longitude
80.6588759°

Local 12:40:21 PM
GMT 07:10:21 AM

Altitude 0 meters
Saturday, 03 Sep 2022

GUEST LECTURES

The ED-Cell of ALIET organised a guest lecture on the topic name “**INDUSTRY 4.0**” on 18th Aug 2022. It was delivered by Dr. Biplab kumar Biswal Director, Kirloskar Group, and Mr Anil Kumar T.S, Regional Head, Kirloskar Group. the students of 2nd ,3rd and 4th year EEE students were participated in this guest lecturer.



INSTITUTION OF ENGINEERS(INDIA) STUDENTS' CHAPTER

(Code: 520008/ALIT/EE)

On 17-02-2023, at 2:40 P.M **Mrs.V.Anantha Lakshmi**, assistant professor of EEE department, inaugurated the guest lecture by introducing the importance of Power Generation, Transmission and Distribution. Later, she handover the session to the Head Of the Department **Dr.G.Naveen Kumar**. He addressed about the importance of IEI Student Chapter and introduced the faculty advisers of IEI student's chapter and office bearers from the EEE Department. Then he handover the session to **Dr. M. Ajay kumar**, Associate professor & faculty adviser of IEI student chapter. Dr. Ajay kumar has addressed the roles and responsibilities of Student chapter and also outlined the privileges of student members attached to the IEI student's chapter.

Then, Mrs. V. Anantha Lakshmi Mam introduced the resource person **Er. T. Sree- mannarayana Murthy** Garu, who is graduated in Electrical and Electronics Engineering at JNTU-Kakinada in 1990 and completed his M.B.A in 2003 from BRAOU. He is currently working as an Executive Engineer in MRT & Transformers, Vijayawada

According to his lecture, the different areas of power stations which are located in A.P., India and the ratings of the power stations are to be noted. There are different types of generation like thermal, hydro, gas, renewables, etc., The structure of the Central electricity sector is explained which includes the policy making of electricity, regulators, system operators, generation, transmission, distribution stations of electricity and the marketing of electricity. There are central government sectors and private sectors in Andhra Pradesh. The total day of 24 hours is divided into 96 blocks for a electricity division, he said.

After the completion of the expert lecture, Mrs. V. Anantha Lakshmi concluded the session by giving the Vote of Thanks to the Resource Person.



GATE QUALIFIED STUDENTS



Name of Candidate	HARI VENKATA SAI KISHORE PABBISETTY	
Parent's/Guardian's Name	VENKATA RAO PABBISETTY	
Registration Number	IN23S56109041	
Date of Birth	17-Aug-2001	
Examination Paper	Instrumentation Engineering (IN)	

GATE Score:	438	Marks out of 100:	41.0		
All India Rank in this paper:	881	Qualifying Marks*	General	EWS/OBC (NCL)	SC/ST/PwD
Number of Candidates Appeared in this paper:	8746		34.8	31.3	23.2

Valid up to 31st March 2026

Prof. PreetamKumar M. Mohite
 Organizing Chairman, GATE 2023
 on behalf of NCB-GATE, for MoE



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* 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 score card.



Name of Candidate	JIGNESH GUNTAPALLI	
Parent's/Guardian's Name	GOVINDA RAJU GUNTAPALLI	
Registration Number	EE23S36110417	
Date of Birth	09-Jun-2001	
Examination Paper	Electrical Engineering (EE)	

GATE Score:	322	Marks out of 100:	23.33		
All India Rank in this paper:	5060	Qualifying Marks*	General	EWS/OBC (NCL)	SC/ST/PwD
Number of Candidates Appeared in this paper:	55292		25.0	22.5	16.6

Valid up to 31st March 2026

Prof. PreetamKumar M. Mohite
 Organizing Chairman, GATE 2023
 on behalf of NCB-GATE, for MoE



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* 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 score card.

INDUSTRIAL VISITS

Department of Electrical Engineering has organized an industrial visit to **Nagarjuna Sagar Hydro Power Plant, Nagarjuna Sagar** for 4th Year B.Tech Electrical students. Totally 66 students along with 2 faculty members visited the Industry on 1st March 2023. The authorities of the power plant were allotted a Professional who were expertise in the area of power generation and had explained about all the components and their working in the power plant. Some of the components they had seen in the power plant are Turbines, Generators, Dam, switch yard, 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 plant for generation of electrical energy using water.



1. Department of Electrical Engineering has organized an industrial visit to **LANCO,kondapalli** for 3rd Year B.Tech Electrical students. Totally 62 students along with 2 faculty members visited the Industry on 6th Nov 2022. The authorities of the power plant were allotted a Professional who were expertise in the area of power generation and had explained about all the components and their working in the gas power plant. Some of the components they had seen in the power plant are Turbines, Generators, control panels etc. the visit was really helpful for the students to know about different electrical equipment's which are used in power plant for generation of electrical energy using gas.



Placement Report for the A.Y 2022 – 23

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	MD Abdul Farahan Bhano	19HP1A0201	247.ai	2.4
2	Abdul Farhan Bano Mohammed	19HP1A0201	VDART	2.4
3	G Amulya	19HP1A0202	247.ai	2.4
4	K Ishwarya	19HP1A0203	247.ai	2.4
5	P Joythirmayi	19HP1A0204	247.ai	2.4
6	Raja Nandini Digumarthi	19HP1A0208	247.ai	2.4
7	Digumarthi Raja	19HP1A0208	GENPACT	2.4
8	D RAJA NANDHINI	19HP1A0208	Nice Education	2.4
9	Digumarthi	19HP1A0208	Sutherland Global	2.5
10	Digumarthi Raja Nandini	19HP1A0208	V DART	2.4
11	George Babu P	19HP1A0217	247.ai	2.4
12	GOWTHAM	19HP1A0218	INFAC INDIA	2
13	MANIDEEP	19hp1a0221	INFAC INDIA	2
14	N MANIDEEP	19HP1A0221	Nice Education	2.4
15	P Manoj Venkat	19HP1A0223	247.ai	2.4
16	Pathan Mohammad Sohail Khan	19HP1A0224	V DART	2.4
17	Munvar basha	19HP1A0225	INFAC INDIA	2

18	SK MUNVAR BASHA	19HP1A0225	Nice Education	2.4
19	SAI	19HP1A0232	INFAC INDIA	2
20	M Satish Kumar	19HP1A0235	247.ai	2.4
21	Madigela Satish Kumar	19HP1A0235	FOCUS Edumatics	2.5
22	M SATHISH KUMAR	19HP1A0235	Nice Education	2.4
23	M.Satish Kumar	19HP1A0235	V DART	2.4
24	Sivasankar Beronthula	19HP1A0236	FOCUS Edumatics	2.5
25	Sivasankar	19HP1A0236	Sutherland Global	2.5
26	UDAY KIRAN	19HP1A0240	INFAC INDIA	2
27	UDAY	19HP1A0240	Sutherland Global	2.5
28	Lakshmi prasanna	20HP5A0203	FOCUS Edumatics	2.5
29	Poornima mandapati	20HP5A0205	FOCUS Edumatics	2.5
30	REVATHI.KASMI KOTA	20HP5A0207	FOCUS Edumatics	2.5
31	Revathi	20HP5A0207	Nice Education	2.4
32	Shaik.sajida	20HP5A0208	FOCUS Edumatics	2.5
33	Dinesh G	20HP5A0211	247.ai	2.4
34	Jagadeesh	20HP5A0213	INFAC INDIA	2
35	Kannu Jayaram	20HP5A0214	FOCUS Edumatics	2.5
36	Karthik Mullangi	20HP5A0215	FOCUS Edumatics	2.5
37	B Nagakalyan	20HP5A0219	247.ai	2.4
38	BEROTULA	20HP5A0219	INFAC INDIA	2
39	B NAGA KALYAN	20HP5A0219	Nice Education	2.4

40	Naga	20HP5A0219	Sutherland Global	2.5
41	Udari Nagendra Babu	20HP5A0220	247.ai	2.4
42	NAGENDRA BABU	20HP5A0220	INFAC INDIA	2
43	Nagulu Mera	20HP5A0221	247.ai	2.4
44	Shaik.Nagulu	20HP5A0221	INFAC INDIA	2
45	Sri Ranganath Maturi	20HP5A0225	FACE Prep	3
46	Dasari	20HP5A0227	INFAC INDIA	2
47	Dasari	20HP5A0227	Sutherland Global	2.5
48	Mohammad	20HP5A0229	INFAC INDIA	2

FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
MATLAB - ARTIFICIAL INTELLIGENCE AND
OPTIMIZATION TECHNIQUES

A Five-Day National Level online Fdp Matlab - Artificial Intelligence And Optimization Techniques was held at the Department of Electrical and Electronics Engineering in Association With National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 21st to 25th Nov 2022 through online platform.

MP: Prof. Milli Pant, Professor, IIT Roorkee

AC: Er. Adarsh Chaunal, Application Engineer, Designtech Systems, New Delhi

PR: Er. Pratyush Roy, Mathworks India, Bangaluru

RK: Dr. Rishemjit Kaur, Principal Scientist, CSIO, Chandigarh

PSM: Dr. Palwinder S Mann, Associate Professor, GSET, Ahmedabad

SS: Ms. Shweta Sharma, Assistant Professor, PEC, Chandigarh

SP: Dr. Smitha Pareek, Associate Professor, B. K. B. Instt. of Engg. & Tech, Pilani

SSL: Dr. Shimi. S. L., Asstt. Prof., Electrical Engineering, NITTTR, Chandigarh

LM: Prof. Lini Mathew, Professor, Electrical Engineering, NITTTR, Chandigarh Gave exposure on:

DAY & DATE	Live Session - 1 9.30 AM to 11.00 AM	Live Session - 2 11.30 AM to 1.00 PM	Live Session - 3 2.30 PM to 4.00 PM
Monday 21/11/2022	Introduction to Soft Computing Techniques (LM)	Introduction to Various Bio-inspired Optimisation Techniques (LM)	Genetic Algorithm and its Applications (SSL)
Tuesday 22/11/2022	Particle Swarm Optimisation (RK)	Latest Features of MATLAB & Simulink (AC)	Optimisation using MATLAB (PR)
Wednesday 23/11/2022	Type 1 & Type 2 Fuzzy Logic (LM)	Shallow Neural Networks in MATLAB (AC)	Deep Learning with MATLAB (PR)
Thursday 24/11/2022	Deep Learning and Convolutional Neural Networks (SS)	Artificial Intelligence and Optimisation Techniques in Solar PV Systems	Hybrid Neuro-Fuzzy Systems (SSL)

		(SP)	
Friday 25/11/2022	Differential Evolution Algorithm (MP)	Artificial Bee Colony – A Metaheuristic Approach (PSM)	Practice/Doubt Clearing Session STC Valediction (LM)

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 29 faculty members of EEE from various college

