

ELECTROZ

NEWSLETTER 2021-2022

VOL. 6, JULY 2022



Department of Electrical & Electronics Engineering

ANDHRA LOYOLA

INSTITUTE OF ENGINEERING AND TECHNOLOGY: Vijayawada-08

(Accredited by NAAC & NBA, Affiliated to JNTU Kakinada)



"A Fire that kindles other fires"



ELECTROZ

Create. Enhance. and Sustain.

NEWSLETTER (2021-2022)

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. Also the department has been accredited by NBA.

Program Outcomes:

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

12. **Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Program Specific Objectives:

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

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

Program Educational Objectives:

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

Program Educational Objective - I

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

Program Educational Objective - II

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

Program Educational Objective - III

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

Program Educational Objective - IV

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

Academic Year 2021-2022

Regular class work commenced from 16thSep 2021 to all the II, III and IV B.Tech students with lot of enthusiasm. Special care has been taken in this academic year by the faculty for obtaining maximum results and for contributing for the all-round development of the students.

Teaching Faculty Members:

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

Non-Teaching Faculty:

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

Students Details:

Year & Branch	Student Strength
IV-EEE	62
III-EEE	66
II-EEE	64

ACADEMIC TOPPERS

II B. Tech II Semester Regular Examinations

1. Ms **G BHARATHI** with Hall ticket number 20HP5A0201 secured **FIRST** rank with a SGPA of 7.6.



G. Bharathi

2. Mr. **M KARTHIK** with Hall ticket number 20HP5A0215 secured **SECOND** rank with a SGPA of 7.5.



M. Karthik

3. Miss. **P JAHNAVI** with Hall ticket Number 20HP5A0202 secured **THIRD** rank with a SGPA of 7.4



P. Jahnavi

III B. Tech II Semester Regular Examinations

1. **Mr N KRISHNA REDDY** with Hall ticket number 18HP1A0229 secured **FIRST** rank with a SGPA of 8.19.



N. Krishna Reddy

2. **MsP ROSHINI DEVI** with Hall ticket number 19HP5A0204 secured **FIRST** rank with a SGPA of 8.19



3. **Mr. T AJAY BABU** with Hall ticket number 19HP5A0206 secured **SECOND** rank with a SGPA of 7.95.



3. **Mr. S V RAVINDRA REDDY** with Hall ticket number 18HP1A0251 secured **SECOND** rank with a SGPA of 7.95.



S.V. Ravindra Reddy

IV B. Tech II Semester Regular Examinations

1. **Ms. K PRIYANKA** with Hall ticket number 17HP1A0214 secured second rank with a SGPA of 9.4.



2. **Mr. P ROHITH KUMAR** with Hall ticket number 18HP5A0211 secured second rank with a SGPA of 8.8.



3. **Ms. R P N S PRASANNA** with Hall ticket number 17HP1A0215 secured second rank with a SGPA of 8.4.



ACADEMIC TOPPERS

III B. Tech I Semester Regular Examinations

1. **Mr K JAYARAM BIHARI** with Hall ticket number 20HP5A0214 secured **FIRST** rank with a SGPA of 8.4



2. **Mr. G DINESH** with Hall ticket number 20HP5A0211 secured **SECOND** rank with a SGPA of 8.3



3. **Ms. P JAHNAVI** with Hall ticket Number 20HP5A0202 secured **THIRD** rank with a SGPA of 8.1



P. Jahnavi

IV B. Tech I Semester Regular Examinations

1. **Mr N KRISHNA REDDY** with Hall ticket number 18HP1A0229 secured **FIRST** rank with a SGPA of 8.4.



N. Krishna Reddy.

2. **Mr T AJAY BABU** with Hall ticket number 19HP5A0206 secured **SECOND** rank with a SGPA of 8.2



3. **Mr. S VENKATA RAVINDRA REDDY** with Hall ticket number 18HP1A0251 secured **THIRD** rank with a SGPA of 8.1.



S.V. Ravindra Reddy

II B. Tech I Semester Regular Examinations

1. **Ms. B DIVYA** with Hall ticket number 20HP1A0203 secured FIRST rank with a SGPA of 9.3



2. **Ms D MEGHANA** with Hall ticket number 20HP1A0206 secured second rank with a SGPA of 8.4

3. **Mr P SATYA MOJESH** with Hall ticket number 20HP1A0242 secured THIRD rank with a SGPA of 8.3

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 L Karunakar**



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



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



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

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Kapujaggurajupeta, Visakhapatnam

अखिल भारतीय तकनीकी शिक्षा परिषद
All India Council for Technical Education

ONLINE SHORT TERM TRAINING PROGRAMME (STTP)
Theme: **Power Systems and Power Electronics for Green Energy**
Phase-I: 13-18 September -2021 Phase-II: 20-25 September -2021

CERTIFICATE
This is to certify that
Dr. M. Ajay Kumar, Associate Professor
from **Andhra Loyola Institute of Engineering and Technology, Vijayawada** has participated in Phase-01 of AICTE sponsored one week Online Short Term Training Programme (STTP) on "Power Systems and Power Electronics for Green Energy", held by Department of EEE, Vignan's Institute of Engineering for Women, Visakhapatnam, during 13-09-2021 to 18-09-2021.

Dr. K. Durga Syam Prasad
Convener & Head-EEE

Dr. J. Sudhakar
Principal, VIEW

Dr. Lavu Rathalah
Chairman

Certificate No **PS-APSSDC-RESMC-0284**

Skill AP APSSDC

CERTIFICATE OF PARTICIPATION

NAME Dr. M. AJAY KUMAR
COLLEGE ALIET
has Successfully Completed
30 Days Renewable Energy Master Class
at **Pantech e Learning Pvt Ltd, Chennai**
From **Oct 17, 2021** To **Nov 16, 2021**

M. Mohideen
Director
Pantech e Learning

Ramesh Kumar
Chief Content Manager (Technical)
APSSDC

Prof. Rama Krishna Reddy
Executive Director
APSSDC

K. Rangaraj
Managing Director
APSSDC

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

CERTIFICATE NO : **PS-ML-SEP-MC-0047**

PANTECH SOLUTIONS
Technology Beyond the Dreams

CERTIFICATE OF PARTICIPATION

NAME : RAMESH KUMAR MENTE
has Successfully Completed
MASTER CLASS ON MACHINE LEARNING (30 DAYS)
at **Pantech Pro Labs India Pvt Ltd**
From : **27-SEP, 2021** to : **26-OCT, 2021**

M. K. JEEVARAJAN
DIRECTOR
PANTECH SOLUTIONS
www.pantechsolutions.net

No: **ATAL/2021/163058981**

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that **Ramesh Kumar Mente, Assistant Professor of Andhra Loyola Institute of Engineering & Technology** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence for Speech and Bio-Signal Processing" from **20/09/2021 to 24/09/2021** at Indian Institute of Information Technology Dharwad.

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

SkillUP
by Simplilearn

Declaration of Completion
RAMESH KUMAR MENTE
has successfully completed the online course:
DevOps Certification Training

This professional has demonstrated initiative and a commitment to deepening their skills and advancing their career. Well done!

27th Mar 2022
Certificate code : 3346241

Krishna Kumar
CEO

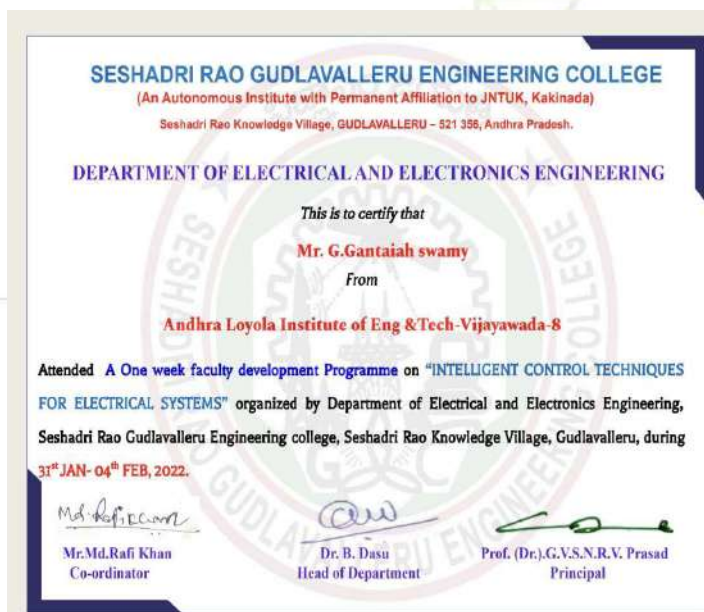
- List of Online Faculty Development Programs attended by Mrs. V. Anantha Lakshmi,



- List of Online Faculty Development Programs attended by Mr. D Ravi Kiran



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



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”, ElectrEng (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/ijped.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 (ZiranKexueyuGongchengJishu 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 micro-grid 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. Sanjeevikumar, 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

The Department of Electrical Engineering has organized an industrial visit to **POWER GRID CORPORATION OF INDIA LIMITED, NUNNA** for 3rdYear B.Tech Electrical students. Totally 66 students along with 2 faculty members visited the Industry on 20thDec 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 kw solar plant for 3rd& 4thYear B.Tech. Electrical students in association with Skill Dzire on 20th& 21st Sep 2021.



WORKSHOPS ATTENDED BY STUDENTS

Workshop on EV Technology

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.



The students of 3rd& 4th EEE were participated in national level free workshop on EV Technology organised by Skill Dzire 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 from MADE EASY, addressed 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 and also got the idea how to plan their carrier for the better future.



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



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

EVENT-I

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**.

cThe 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.



Event-2

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 access to basic amenities like food and clothing.



Event-3

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”.



Event-4

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”.



Event-5

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	PanTech solutions	Internet of things (IOT)
3	19HP1A0236	B. Sivasankar	Skill Dzire	Artificial intelligence
4	19HP1A0234	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 Machine learning
15	20HP1A0242	Panem Satya Mojesh	Pantech E learning	IOT Machine learning
16	19HP1A0209	Sindhuri Reddy	Skill Dzire	3d Design
17	19HP1A0201	M.Abdul Farhanbano	Andhra Loyola College	EV
18	20HP5A0217	Anupuju Kishore	IEEE	IOT Machine Learning
19	20HP1A0217	CH.Bharatwaraj	IEEE	
20	BOVA01W12672	A.Siva Rama Teja	Brain O Vision Solutions (India) Pvt Ltd	Web development
21	21HP5A0202	Chintala Bhargavi	Pantech Solutions	Electric Vehicles
22	20HP1A0202	Chidrupinilaya Mudili	Pantech Solutions	Electric Vehicles
23	21HP5A0219	Yandamurimohith	Pantech Solutions	Electric Vehicles
24	21HP5A0214	Tungala Akash Charan	Pantech Solutions	IOT Machine Learning
25	19HP1A0241	S.Vasanth Prakash		
26	20HP5A0218	Gudelli Lakshman	IEEE	IOT Machine Learning
27	20HP5A0201	Gadam. Bharathi	IEEE	IOT machine learning
28	21HP5A0213	Vasavi Patibandla2	Pantech	Electric vehicles
29	20HP1A0203	Balijepalli Divya	Pantech	Python programming
30	20HP1A0209	Alla Naga Sahithi	Pantech	Python programming
31	20HP1A0238	Balijepalli Rahul	ALIET	IOT Machine learning
32	19HP1A0205	Katturinagadurga	Skill dzire	Solar pv design
33	20HP5A0224	Regalla Satish Reddy	Pantech solutions	IEEE SB PIT

Reference: IEEE-SB-PIT-0522-217

03.05.2022



GUDELLI LAKSHMAN

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAWADA

SUB-INTERNSHIP CONFIRMATION LETTER

Greetings from Institute of Electrical and Electronics Engineers (IEEE – SB PIT)

We are in receipt of your requisition for participating in the IEEE SB PIT Internship Program – 2021 in Domain of IoT with Machine Learning and wish to inform that your requisition has been accepted.

We are happy to inform you that you have been very fortunate to be a part of this Internship Program and we are confident that this program will hone your skills and ability level and would help you do a standout job.

You shall be provided with the Initial Knowledge transfer and Domain Training as per the domain you have opted for. Assignments and Tasks will be assigned to you upon completion of the training and shall be in compliance with the domain training provided.

Duration of Internship: 15 Days / 1 Month

Dates of Internship – 09.05.2022 to 08.06.2022

Domain of Intern: IoT with Machine Learning

On behalf of the Program Coordinator, IEEE – SB PIT, we would like you to show great enthusiasm for learning that we believe would result in a strong work ethic during your internship. You shall devote your full capability to learn, understand and try implementing the technical constraints that are discussed during the intern to the best of your ability.

Mr. Jishnu Radhakrishnan, Sr Programmer, IoT Systems, Pantech E Learning shall be your mentor throughout the program and shall guide you as per the agenda and assign you assignments & tasks as and when desired.

We truly believe you would benefit immensely from participating in this internship program. We implore you to seriously consider and deploy your skills through the program as a part of the internship position.

The software downloadable links and materials of the same will be sent prior to the start of the Internship. Feel free to contact us if you have any questions or need more general information.

Sincerely,

Senthikumar M.R

Program Co Ordinator



BRAIN O VISION

To
Siva Rama Teja
ANDHRA LOYOLA INSTITUTE OF ENGINEERING
AND TECHNOLOGY

DATE: 09-07-2021

INTERNSHIP OFFER LETTER

Following your application and subsequence interview, we are pleased to inform you that you have been considered as an **INTERN** in our Organization for **WEB DEVELOPMENT**.

It is our hope that you will work as your level best to improve the efficiency and performance of the Organization. We look forward to working with you. Congratulations and best wishes.

START DATE : 1st-Aug-2021
ROLE : WEB DEVELOPER
INTERNSHIP TYPE: One Month Online Internship
INTERN ID : BOVA01W12337

Yours faithfully
Babu Maheshwar
Technical Manager
Brain O Vision Solutions Ind Pvt Ltd

ANI 95029 20039

info@brainovision.com

www.brainovision.com

Brain O Vision Solutions Pvt. Ltd.:

Metro's Hill, 1st Floor, B No:2, SA/5/30, Madhapur, Hyderabad, Hyd - 500 081.
www.fb.com/brainovisionindia



Certificate of Completion

THIS IS TO CERTIFY THAT

KATTAMURI INDRA PAVAN KUMAR

DEPARTMENT OF Electrical and Electronics Engineering

Andhra Loyola Institute of Engineering and Technology

HAS ENROLLED AND SUCCESSFULLY COMPLETED THE 15 Days INTERNSHIP PROGRAM

IoT With Machine Learning

From 9th May 2022 to 27th May 2022

Mr. M. Arun, IEEE Vice Chairman,
Young Professional Madras Chapter

SRI NIVASAN N, Director
Pantech Learning

IEEE-SBPIT-05/1581



Certificate of Internship

Congratulations, Talupula Tejaswini

Solar PV Design

Course Completed on 1st June, 2021 | 4 Weeks

By completing this course, you have sharpened your skills & made yourself a valuable asset for industry needs



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Placement Report for the A.Y2021-2022

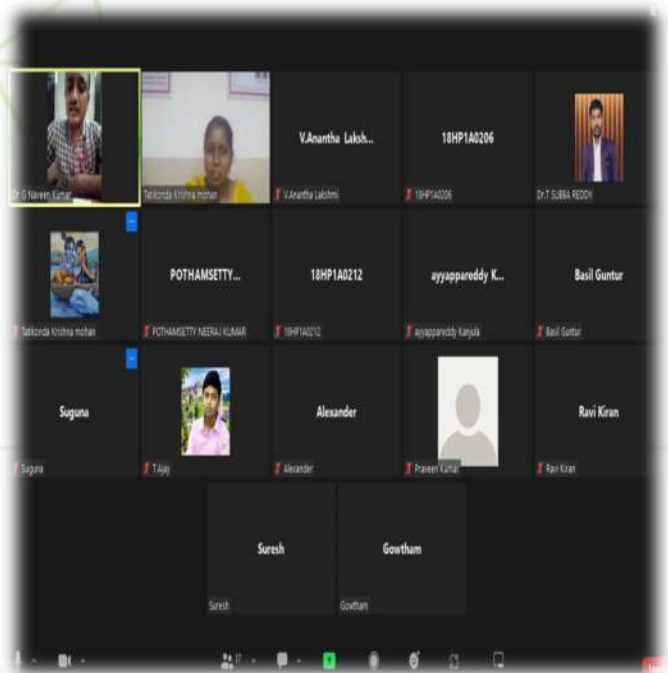
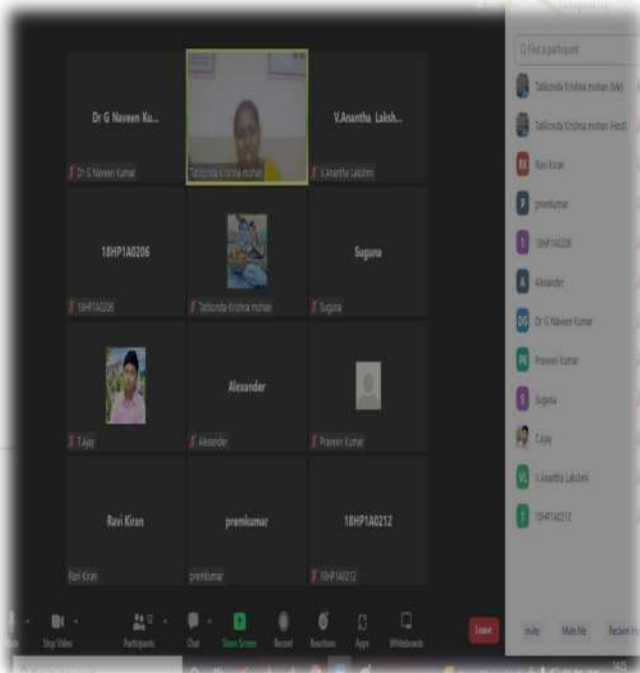
The department collaborated with the Placement and Counselling Cell. The recruitments organized by the Placement and Training Cell during the academic year 2021-2022

S.No	Roll number	Name	Organization	Salary
1	19HP5A0202	B Meghana	CGLIA SOFTWARE	400000
2	18HP1A0232	Maharshi	CGLIA SOFTWARE	420000
3	18HP1A0229	N.Krishna Reddy	HCL	360000
4	18HP1A0226	P Hari Pavan	HEXAWARE	200000
5	19HP5A0206	T Ajay Babu	ILENSYS	200000
6	18HP1A0226	P Hari Pavan	INFOSYS	200000
7	19HP5A0209	J Sambhuvardhan	JSK TECHNOLOGIES	200000
8	18HP1A0229	N.Krishna Reddy	KAY JAY FORGINGS	200000
9	18HP1A0232	N.Maharshi	KAY JAY FORGINGS	200000
10	18HP1A0213	L.Spandana	KAY JAY FORGINGS	200000
11	18HP1A0201	J.Aneela	KAY JAY FORGINGS	200000
12	18HP1A0219	M.Vijaya Lakshmi	KAY JAY FORGINGS	200000
13	18HP1A0207	M.Likhitha	KAY JAY FORGINGS	200000
14	18HP1A0220	M.Ajay kumar	KAY JAY FORGINGS	200000
15	18HP1A0252	G.Venkata Vamsi	KAY JAY FORGINGS	200000
16	18HP1A0223	B.Bhanu Kiran	KAY JAY FORGINGS	200000
17	18HP1A0225	S.Gowtham Sai	NICE EDUCATION	200000
18	18HP1A0215	T.Teja Maheswari	NICE EDUCATION	200000
19	18HP1A0244	J.Siva Sai	NICE EDUCATION	200000
20	18HP1A0210	A.Rakshitha	NICE EDUCATION	200000
21	19HP5A0209	J.Sambhu Vardhan	NICE EDUCATION	240000
22	18HP1A0207	M.Likhitha	NICE EDUCATION	350000
23	18HP1A0211	B.Shelsy Namratha	NICE EDUCATION	350000
24	19HP5A0209	Sambhu Vardhan	SICAGEN	350000
25	18HP1A0206	Keerthana J	TCS	625000
26	18HP1A0226	P Hari Pavan	TCS	625000
27	18HP1A0251	S V Ravindra Reddy	TCS	625000
28	18HP1A0203	Kola Chinsusujana	TuringMinds	625000
29	18HP1A0214	Suguna Sree Gujjarlupudi	TuringMinds	350000
30	18HP1A0217	Vaishnavi Rudraraju	TuringMinds	350000
31	18HP1A0231	Shaik Mahaboob Subhani	TuringMinds	650000
32	18HP1A0211	Bhimavarapu Shelsy Namratha	WIPRO	400000
33	18HP1A0226	Hari Pavan Hari Puvvula	WIPRO	400000
34	18HP1A0236	Neeraj Kumar Pothamsetty	WIPRO	420000
35	18HP1A0251	S Venkata Ravindra Reddy	ZENSAR	360000



REPORT OF ALUMNI MEET-2022

The second alumni Meet, ReUnir-2022, was inaugurated by Department of electrical & electronics engineering on 4th June 2022. Director **Rev. Fr. Dr.A.Francis Xavier S.J**, graced the occasion with his presence. The alumni students were invited to attend the Alumni Meet through Invitation letters/invitation cards/emails.



SPORTS

S.NO	ROLL NUMBER	NAME OF THE STUDENT	EVENT	POSITION
1	18HP1A0230	N.Madhusudhan (IV EEE)	Volley Ball	Third
2	20HP5A0229	Md.Yasin (III EEE)	Volley Ball	Third
3	20HP5A0227	D.Sunil Babu (III EEE)	Volley Ball	Third
4	19HP1A0219	M. Kalyan (III EEE)	Volley Ball	Third
5	19HP1A0209	A.Sindhuri (III EEE)	Throw Ball	First
6	19HP1A0209	A.Sindhuri (III EEE)	Javelin Throw	Second
7	18HP1A0230	N.Madhusudhan (III EEE)	Basket Ball	First
8	18HP1A0215	T.Teja Maheswari (IV EEE)	Abhinayam	Second
9	18HP1A0224	D.Hanumath (IV EEE)	Abhinayam	Second
10	18HP1A0244	J.Siva Sai (IV EEE)	Abhinayam	Second
11	18HP1A0230	N.Madhusudhan (IV EEE)	Abhinayam	Second
12	20HP1A0248	K.Vardan (II EEE)	Volley Ball	Third
13	20HP1A0239	B.Rajesh (II EEE)	Volley Ball	Third
14	20HP1A0226	Sk.Irfan (II EEE)	Volley Ball	Third
15	20HP1A0220	Ayyappa (II EEE)	Volley Ball	Third
16	18HP1A0211	B.Shelsy Namratha (IV EEE)	Group Singing	----
17	18HP1A0211	B.Shelsy Namratha (IV EEE)	Swaranjali	First
18	18HP1A0211	B.Shelsy Namratha (IV EEE)	Abhinayam	Second
19	18HP1A0208	K.Meghana (IV EEE)	Group Singing	----
20	18HP1A0202	T.Bhuvana Sri (IV EEE)	Swaranjali	First
21	20HP1A0217	Bharatwa Raj (II EEE)	Basket Ball	First
22	20HP1A0223	Giresh (II EEE)	Basket Ball	First
23	20HP1A0245	Suresh (II EEE)	Basket Ball	First
24	20HP1A0243	Sivaram Teja (II EEE)	Basket Ball	First
25	20HP1A0239	B.Rajesh (II EEE)	Basket Ball	First



 **ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**
(Approved by AICTE by GOVT of AP Affiliated to JNTUK KAKINADA)
AN ISO 9001-2005 Certified Institute VIJAYAWADA - 520008

 **CERTIFICATE** 
For winners

This is to Certify that Mr/Ms MADHU of TV EEE has
Participated in BASKET BALL and Secured 1st Place in
OUTDOOR Events 2021

 Sports -coordinator
 Principal
 Director

ACKNOWLEDGEMENT

We express our gratitude to **Rev. Fr. Dr. A. Francis Xavier SJ**, Director, **Dr. O. Mahesh**, Principal, **Rev. Fr. Chiranjeevi SJ**, and **Rev. Fr. Anand SJ**, Asst. Directors, for their encouragement in our endeavours. Our special thanks to **Dr G Naveen Kumar, HoD**, for his constant guidance throughout this academic journey. We would like to thank all the faculty members and students of Electrical 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. **Mr. M. Ramesh Kumar**, Assistant Professor, Dept. of EEE.
3. **Dr. M. Ajay Kumar**, Associate Professor, Dept. of EEE.

STUDENT COMMITTEE:

IV -EEE

1. A. RAKSHITHA, 18HP1A0210.
2. S. VENKATA RAVINDRAREDDY, 18HP1A0251.

III-EEE

1. A. KISHORE, 20HP5A0217.
2. M. RAJASEKHAR REDDY, 19HP1A0229.

II-EEE

1. B. DIVYA, 20HP1A0203.
2. Y.GIREESH, 20HP1A0223.



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

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