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Editorial

Automation-Boon or Bane

Every coin has two sides. So does the enhancement in technology. When one side offers opportunities and confidence, the other plunges its harder truth in the fear of losing existing opportunities along with the white collar jobs. The Indian economy is in transition with the on-going impact of automation on the employment of certain population which are involved in industrial control and services sector. Though automation leads to creation of various new jobs(which are in need of high experience),the destruction of the jobs which are high in number with the present economic situation is even more concerning. Under controlled scenarios automation reduces the cost of a firm, leads to reduced corruption and bureaucratic discretion. It also increases the social economic infrastructural level which in turn attracts high range investments developing the country's national and international standards. Automation becomes a problem when higher number of jobs is at stake. The requirement of new jobs is freelancing at nature thus pressuring abnormal situations among employees. As we can clearly integrate the changes brought by this developing side of technology, let's hope for the right mix of solution to be brought in the varied interests of the economy as a whole.

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Estd. 1995

**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING AND TECHNOLOGY**

An Autonomous Institute, NAAC Accredited with A++ Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses

Approved by AICTE, New Delhi, Affiliated to JNTUH
Recognized as "College with Potential for Excellence" by UGC

EAMCET CODE: VJEC

PGECETCODE: VJEC1



Message from HOD

Factual content and procedures that constitute the knowledge base of the discipline around the big ideas of the domain, links new knowledge to what is already known by presenting concepts in a conceptually and logically sequenced order that builds upon previous learning within and across grade levels. The vision of the department is to be well known department that will serve as a source of knowledge and expertise in the field of Instrumentation for the society by rendering value added education to the students. The department's mission is to impart dynamic education and develop engineers, technocrats, and researchers to provide services and leadership for development of the nation. To bridge the gap between industry and academia, faculty members connect to industries through i- Connect activities like industrial visits, expert lectures, sponsored projects, workshops, training, MOUs with renowned industries. It provides internship and placement opportunities for students.



Dr. R. Manjula Sree
HOD: EIE

Students Achievements

Certificate Courses:

Title of Certificate Course	Pre-requisite	Benefits	Targeted students	Dates & Duration of the Course (no. of days)	Course Fee Rs.	No of Participants to whom certificate issued
Problem Solving and Advanced Algorithms	C language	Looking for career into IT sector, gain strong coding skills and get Industry ready	128	Sept 2022 to April 2023	6000/- per student	47
JAVA-full Stack	Simple programming	For the benefit of Placements	18	26th June 2023 to August 2023	-	18

NPTEL

S.No	Name of the Student	Roll Number	Dept.	Awards / Participated/Course completed
1	NAGA SAI SURYA TEJ YEDLA	21071A10A3	EIE	NPTEL -Introduction to Internet of Things
2	ATELI SRIKANTH	20071A1004	EIE	NPTEL -Data analytics with python
4	PISKA RAMYASRI	21071A10B1	EIE	NPTEL - INTRODUCTION TO IOT
5	M.Meghana	20071A1036	EIE	NPTEL- DBMS course.
6	Thangella Thrisha	20071A10B7	EIE	NPTEL -cloud computing
7	M.Rohan Sai Venkat	20071A10A7	EIE	NPTEL- Programming In Modern C++

Students sponsored for Seminars/Workshops/Training Programmes/Guest Lectures/Motivational Lectures/Career Vision and Awareness Programmes/Sports conducted in the Institute/Outside the Institute

Particulars of the Event	Beneficiaries	Date	No. of Participants	Impact of Program
Training Program on Web Technologies in association with Dept. of CSE	II Year EIE Students	From 24th March to July 2023 (Every Friday)	115	Students will learn about 5 Web Frame works & Technologies for Website Development in Front-end & Back-end
Open House	I Year EIE Students	15th April 2023	4	Projects displayed on Footstep Power Generator
	II Year EIE Students		12	Batch-1: Project display on Personalized Health Monitoring Batch-2: Project display on Hospital Software Batch-3: Project display on Alcohol Detection Engine Locking Batch 4: Project display on Air Purifier
	III Year EIE Students		12	Batch-1: Project display on Traffic Density Measurement using RADAR Batch-2: Project display on Face Recognition system using Raspberry Pi Batch-3: Project display on Smart Helmet to avoid Accidents
	IV Year EIE Students		10	Batch-1: Project display on LoRa based CO2 Monitoring System for contagion Prevention by Controlled Ventilation Batch-2: Project display on Hand Gesture Robotic Arm Controlled using Arduino Batch-3: Project display on Autonomous Self Balancing Bicycle
Guest Lecture on Generative AI for Lifesciences	III Year EIE Students	17th April 2023	105	Lecture is about artificial intelligence that Develop ground breaking models that unlock insights from vast multimodal data sets. Improve understanding of disease biology and accelerate timelines for drug.

Particulars of the Event	Beneficiaries	Date	No. of Participants	Impact of Program
Problem Solving and Advanced Algorithms	III Year EIE students	40 hours (Sept 2022 to April 2023)	47	M/s Code Evolve and Excel Private Limited (Smart Interviews)
Guest Lecture on Space Instrumentation and Satellite Design	II Year EIE Students	29th April 2023	110	Lecture covers Space instrumentation (systems) engineering covers a key research topic within the chair Space Systems Engineering and beyond
Unlock your potential and Ignite your passion for learning with centella academy's RISE Summer program	II Year EIE Students	03rd May 2023	10	Attended session on RISE Summer program at VNRVJIET Auditorium.
online event on school of startup Ignite young Indian to innovate as part of the National Technology week by Sri. Narendra Modiji, Prime Minister, India. at Pragathi bhavan, New Delhi.	I year EIE students	11th May 2023	45	Attended online session attended by I Year students, Director sir and few faculty members.

➤ Students Placement

S.No	Name	Roll.NO	Company
1	Praneetha	19071A1099	Square yards - Job
2	C.Karthik Goud	20075A1011	Square yards (Job)
3	Deepthi yamsani	19071A10A6	Mediamint
4	Yerramsetti sai lohitha	19071A10B0	Square yards
5	Nandini Tanuku	19071A1046	Audree Infotech
6	Sunnapu Sudheer Kumar	19071A1045	Audree Infotech
7	V.Yashwanth Sena	19071A1052	LTI

Events Organized

- An online event attended by I year students, Director sir and Faculty members on “school of startup Ignite young Indian to innovate”, as part of the National Technology week by Sri. Narendra Modiji, Prime Minister, India. at Pragathi bhavan, New Delhi. on 11-5-2023.



- Department of Electronics & Instrumentation Engineering organized Panel Discussion on “Charting the Right Career Choice in Electronics and Instrumentation Engineering”, by using google meet link with parents who came for Admission enquiry. on 24-05-2023 at 3:00pm

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DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING
Panel Discussion on
CHARTING THE RIGHT CAREER CHOICE IN ELECTRONICS AND INSTRUMENTATION ENGINEERING
Join the Panel Discussion using Google Meet link

<https://meet.google.com/tvx-jdng-ofx>
<https://youtube.com/live/KHnUX-0lh2q?feature=share>

24.05.2022
3.00 p.m.

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Dr. R Manjula Sri
Professor & Head,
EIE

Dr. M Hari Krishna
Asso. Professor,
EIE
Senior Faculty

Mr. S Vandana
Asst. Professor,
EIE
EIE Admission
Coordinator

Mr. K Bapuji
CEO, Appleton
innovations
Industry Expert

Mr. P V Gopi Kumar
Asst. Professor,
EIE
EIE T & P
Coordinator

Dr. D Kanthi Sathya
Asst. Professor,
ECE
Coordinator
Admissions

Ms. Pooja Upadhyay
Full Stack Developer
at RSM US LLP -
Alumni

Coordinators: Dr. M Hari Krishna,
Mr. S Vandana

Faculty Participation

- Mr.P.V.Gopi Kumar,Assistant Professor, attended and presented paper at 12th International
- Conference on Advances in Signal Processing and Communication – SPC 2023 on 31st March 2023
- Ch.Venkanna, Asst.Professor, attended One-week international workshop on “Technical Writing using LaTeX”, organized by VIT- AP University, from 30th March to 5th April 2023.
- Ms.S.S Bharathi Sagi, Asst.Professor, attended 2 day workshop on Business Intelligence using Power BI organized by Skill Nation online mode during 8th-9th April 2023.
- Faculty Interaction Session is conducted with Dr. Bhattacharya, Adjunct Professor, VNRVJiet regarding Research, Funding, Consultancy, and Patents. in Embedded Systems Lab (P-103) on 12-04-2023 (today) at 3:00pm to 5:00pm.

The following faculty members attended the session are.

Dr.R.Manjula Sri	Prof & Head
Mr.G.Vamsi Krishna	Asst.Professor
Dr.M.Sreedhar	Professor
Ms.Jyothirmai Joshi	Asst.Professor
Dr.S.Pranavanand	Assoc.Profesor
Ms. D.Srilaxmi	Asst.Professor
Dr.K.Sudha Rani	Assoc. Professor
Mr.S.Bhargav	Asst.Professor
Dr.M.Hari Krishna	Assoc.Professor
Dr.B.Rajashekara Reddy	Asst.Professor
Dr.V.Nageshwar	Assoc.Professor
Dr. S.Senthil Kumar	Asst.Professor

- Dr.C.Kiran, Assoc. Professor, attended a course on “Engineering Education Research”, conducted by zoom Tech. IUCEE during 1st ,15th & 29th April 2023.
- Dr.C.Kiran, Assoc. Professor, attended a mini course on “Prompt Engineering”, conducted by zoom Tech. IUCEE during 3rd ,10th & 17th April 2023.

- Dr.C.Kiran, Assoc. Professor, attended a course on “Engineering Ethics”, conducted by zoom Tech. IUCEE during 6th,13th & 20th April 2023.
- Mr.A.Adhitya Kashyap, Asst.Professor, attended and presented paper International Conference on Advances in Electronics, Communication, Computing and intelligent information systems (ICAECIS-2023) during 19th-21st April 2023.
- Dr.M.Hari Krishna,Assoc.Professor, & Ms.J.Jyothirmmai, Asst.Professor, attended 2nd International Conference on Emerging Trends in Engineering (ICETE) at university college of Engineering(A) Osmania University, Hyderabad during 28th-30th April 2023.
- Dr.V.Nageshwar, Ms.P.Sampurna Lakshmi, Ms.D.Swetha & Ms. S.S. Bhrathi Sagi attended Guest lecture on Space Instrumentation and Satellite Design by Dr. S.M.Ahmed, Principal payload Scientist, at XDLINX Labs on 29-04-2023 in B-Block Seminar Hall.
- Mr.S.Bhargav, Asst. professor attended one day lecture on Academics and Industry perspective on CHATGPT by Prof. Atul Negi, Dean, School of computer and Information Sciences, University of Hyderabad and Mr. Bharat Ankinpally, CTO, WeXL Technologies. Organised by Swecha Telangana in association with IEEE Educational Society, at CSE Dept. Seminar Hall, OU College of Engineering, Hyderabad on 03rd June 2023.

Faculty Achievements

- 9 faculty members have registered for Swayam NPTEL Courses and are in progress.
- Dr.R.Manjula Sri, Professor & Head, completed NPTEL course on Python for Data Science with Elite Certification.
- Dr. Chakravartula Kiran, Assoc.Professor, got Certificate of Appreciation for presentation on the topic “Design Thinking, Critical Thinking & Innovation Design”, on world Creative & Innovation Day organized by Institutions Innovation Council (IIC) at Bapatla College of Pharma, Bapatla. On 27th Feb 2023.



- Dr.S.Pranavanand, Assoc. Professor, got Certificate of Appreciation for contribution as reviewer in 2nd International Conference on Emerging Trends in Engineering (ICETE) at University college of Engineering(A) Osmania University, Hyderabad. During 28th-30th April 2023



Research and Development (R & D)

Journals

Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full Title of the Paper	Conference in which the Paper Published	Volume Issue, Page Nos.	Date/ Month & Year of Publication	ISSN No. / ISBN No.	Indexed
Dr.M. Sreedhar, Professor, EIE	Dr.Malleti.Sreedhar, Dr.K.Sirisha	Flow Measurement Using Video Processing Technique	Zeichen Journal	Volume 09 Issue 04, pp. 189-197	April 2023	0932-4747	UGC
Dr.R.Manjula Sri, Professor & Head, EIE	Srilaxmi Dasari, Boo Poonguzhali, Manjula Sri Rayudu	An efficient machine learning approach for classification of diabetic retinopathy stages	Indonesian Journal of Electrical Engineering and Computer Science	Volume 30, Issue. 01, pp. 81-88	April 2023	2502-4752	Scopus
Dr.M. Sreedhar, Professor, EIE	Dr.Malleti.Sreedhar, Dr.A.Bhujangarao	Measurement of Creatinine clearance and its effect on renal system using BS-300	Journal of High Technology Letters	Volume 29, Issue 4, pp.257-266	April 2023	1006-6748	UGC

Dr.K.Sudha Rani, Associate Professor & EIE	Dr. Srinivasa Babu Kasturi, Dr. D. Ganesh, Dr. S. Hrushikesava Raju, Dr.K.Sudha Rani, Dr. M. Rajkumar, Jangam Bala Srinivasa rao	Prediction of Toxinsin Chemical Industry by implementing Machine Learning Algorithms	European Chemical Bulletin	Vol,12(Special Issue 4), pp.1229-1239	April 2023	2063-5346	Scopus
Dr K.Vidya Sagar	DR. Surya Prasada Rao Borra, DR.M.V.Ganeswara Rao, DR P.ravi kumar, . DR.Srinu Pyla, DR.K. Vidya Sagar DR A Geetha Devi, Koteswara Rao Kodepogu	Unhealthy Plant Region Detection In Plant Leaves Using Adaptive Genetic Algorithms	Journal of Theoretical and Applied Information Technology	Vol.101. Issue No 8, pp.3133-3137	April 2023	1992-8645	Scopus
Ms.D.Srilaxmi	Srilaxmi Dasari,Boo. Poonguzhali, Manjulasri Rayudu K. Muthu kumar R. Dhanalakshmi	Binary Classification of Diabetic Retinopathy using Random Forest Classifier	European Chemical Bulletin	Special Issue 01, pp.2276-2284	May 2023	2063-5346	Scopus
Ms.Jyothirmai Joshi	Gangolu Yedukondalu, Jyothirmai Joshi, Krishan Dev Nidumolu, Adapa Gopi, G. Rajavikram	Ensemble Deep Learning Models for Collaborative Filtering Recommendations	International Journal of Intelligent systems and applications in Engineering	Vol: 11(6s), 358-369	June 2023	ISSN:2147-6799 2147-6799	Scopus

Conferences

Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full title of the paper	Conference in which the paper published	Volume Issue, Page Nos.	Date/ Month & Year of publication
Mr.P.V.Gopi Kumar Assistant Professor, EIE	Mr. P V Gopikumar , Dr. R Manikandan , Dr. C Ravi Shankar Reddy	Enhancing Error Detection and Correction of Manifold Cell Fluster upsets in Memories for Space Missions using Flexible Unequal Error Control (FUEC) Technique	12th International Conference on Advances in Signal Processing and Communication – SPC 2023	----	31st March 2023
Mr.A.Adhitya Kashyap Asst.Professor, EIE	Palash Dahake, A.Adithya Kashyap, A.Seshagiri Rao, G Uday Bhaskar Babu	Enhanced Smith predictor based Fractional filter IMC-PI Controller design for FOPTD processes	International Conference on Advances in Electronics, Communication, Computing and intelligent information systems (ICAECIS-2023)	----	April 2023
Dr.M.Hari Krishna Assoc.Professor, EIE	Dr. Malini Mudigonda, Dr.M.Hari Krishna	Electrooculogram Based Wheelchair Control in Real-Time	2nd International Conference on Emerging Trends in Engineering (ICETE) at university college of Engineering(A) Osmania University, Hyderabad.	----	April 2023
Dr.M.Hari Krishna Assoc.Professor, EIE	Kaparathi Uday Dr. Malini Mudigonda, Dr.M.Hari Krishna	Design and Develop an IPG System Without Using an Occlusive Cuff to detect Deep Vein Thrombosis	2nd International Conference on Emerging Trends in Engineering (ICETE) at university college of Engineering(A) Osmania University, Hyderabad.	----	April 2023
Dr.M.Hari Krishna Assoc.Professor, EIE	Chapala Sara Grace, M. Sreeja, M. Deepika, Dr.M.Hari Krishna, Dr. Harish Kuchulakanti	Unique Contactless Device to Detect Veins and Heart Rate	2nd International Conference on Emerging Trends in Engineering (ICETE) at university college of Engineering(A) Osmania University, Hyderabad.	----	April 2023

