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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.

**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

Students Certification Course:

S. No.	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
1	JAVA-full Stack	Simple programming	For the benefit of Placements	18	26th June 2023 to August 2023	-	-
2	Problem Solving using DSA- Phase-1	C Programming, python programming and Basics of Data Structures	Improvement of skill set and aiming for higher packages	68	50 Hours	4500/-	On going

Students Internship Details:

S.No	Name	Roll No./Phone No.	Name of the Company
1	Adluri Rahul Bharadwaj	21071A1066	EIE
2	Koushik Bejugam	22075A1008	EIE
3	G.Harishankar	21071A1081	EIE
4	Prayaga sai sameera	21071A10B5	EIE
5	Karuturi Sri Veera Sai Sravanthi	21071A10C4	EIE
6	Lingala Abhigna	21071A1097	EIE
7	BHUVANINDRA KIRAN REDDY MAIDAM	21071A1074	EIE
8	Thumukuntla Shironi Reddy	21071A10C6	EIE
9	Chagantipati Sai Samhitha	21071A1076	EIE
10	Vasireddy Pravallika	21071A10C7	EIE

Students Placement

S.No	Name	Roll.NO	Company
1	P Sree Nandini	20071A10A2	ZF Technology Center India
2	T Thrisha	20071A10B7	ZF Technology Center India
3	K Shiva Prasad	20071A1085	ZF Technology Center India
4	K Vineela	20071A1031	ZF Technology Center India
5	B Gnana Ashwitha	20071A1011	Deolitte
6	S Akhil	20071A1056	Deolitte
7	A Venkat Sai	20071A1066	Deolitte
8	K V Manohar	20071A1029	Deolitte
9	Vineela	20071A1031	ZF
10	Adepu Pooja	20071A1062	Accenture
11	Ausali Venkat Sai	20071A1066	Deloitte
12	Kanniganti Venkata Manohar	20071A1029	Deloitte
13	Boyanapalli Gnana Ashwitha	20071A1011	Accenture
14	G Pramod Kumar	20071A1020	Accenture
15	Kanniganti Venkata Manohar	20071A1029	Accenture

16	Mohammed Shezad Amin Fahim	20071A1041	Accenture
17	Ausali Venkat Sai	20071A1066	Accenture
18	Kilaru Sai Kiran	20071A1091	Accenture
19	Rohan Sai Venkat Motukuri	20071A10A7	Accenture

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
High Intensity Training	3rd Year B.Tech & 1st Year M.Tech Students	5th July - 14th July 2023	78	Attended the session on Assessment Courses & All qualifier Assessment of DSA, JAVA, SQL courses
NASA International SPACE APPS Challenge 2023	2nd year EIE Students	24th July 2023	15	Participated in NASA International SPACE APPS Challenge 2023 information and inspiration they need to create innovative and impactful projects.
NASA International SPACE APPS Challenge 2023	1st year EIE Students	24th July 2023	11	
Aptitude Training Phase-2	B.Tech & M.Tech Students 2024	24th - 25th July 2023	86	Learnt about Covered Aptitude & Logical Reasons and some specific test pattern
Guest Lecture on "IoT: The Heartbeat of Modern Electronics and Instrumentation" by Mr. Bapuji Kanaparthi, CEO Appleton Innovations	I Year EIE Students	07th Sep 2023	65 students	Students able to understand about Modern Electronic Instrumentation and Measurement ... - Smart watches, in which sensors are used to measure the wearer's <i>heartbeat</i> .
Seminar on "Role of Instrumentation in Successful Landing of Chandrayan-3",	I, II & III Year Students of EIE	11th Sept 2023.	20 teams (2 to 3 students from each team)	<i>Chandrayaan-3</i> equipment designed to measure surface thermal properties on the moon and components include various <i>electronic</i> and mechanical subsystems intended to ensure a safe and soft <i>landing</i> such as Navigation Sensors, Propulsion systems,

Particulars of the Event	Beneficiaries	Date	No. of Participants	Impact of Program
				guidance and Control among others
Guest Lecture on "Teaching Engineering Students" Prof. Krishna Vedula, organized by Centre for Education Technology under the aegis of the Department of Humanities & Sciences, VNRVJIET	I Year EIE-A Section Students	14th Sept 2023.	58 Students	<ul style="list-style-type: none"> • Use real-world examples. • Learn Through Storylines. • Leverage technology. • Host a virtual field trip. • Teach with Project-Based Learning. • Teach using the Engineering Design Process (EDP) • Use Backward Design
Guest Lecture on "Software Defined Vehicles",	III Year Students	16th Sep 2023	78 students	Students learned about outlined the ongoing applications and trends used in Electric Vehicles with Software and Advanced technologies.

Events Organized

- A Two-Day Workshop on "Role of Instrumentation Engineering in Make in India opportunities and challenges", organized by Instrument Society of India, Hyderabad chapter and Department of EIE - ISOI student chapter during 10th-11th July 2023.



"Failure will never overtake us if our determination to succeed is strong enough."
- Mahatma Gandhi

- Department of Electronics and Instrumentation Engineering-ISOI Student Chapter, is organized a Guest lecture for I Year B. Tech EIE students on “IoT: The Heartbeat of Modern Electronics and Instrumentation” by Mr.Bapuji Kanaparathi, CEO, Appleton Innovations, Visakhapatnam, Andhra Pradesh, on 7th September 2023 in B-Block Seminar Hall, VNRVJIET. 98 students and 4 faculty members attended.
- Department of EIE in association with ISOI Chapter, VNRVJIET organized a seminar for participation of EIE Student teams on “Role of Instrumentation in Successful Landing of Chandrayan-3”, in room no-C-301, on 11-09-2023 from 2PM -5PM. 20 teams from I,II & III Year EIE were participated in the event.
- Centre for Education Technology under the aegis of the Department of Humanities & Sciences organized Guest Lecture for I Year EIE-A section students on Teaching Engineering Students' by Prof. Krishna Vedula, Executive Director, Indo Universal Collaboration for Engineering Education (IUCEE) & Dean Emeritus, University of Massachusetts Lowell on 14-09-2023 in C-201.58 students attended the session.
- Guest Lecture is organized for III Year EIE Students on “Software Defined Vehicles”, by Mr. Ashok Jha, Engineering Director, Active Safety Engineering-India, ZF Group on 16-09-2023 in APJ Abdul Kalam Auditorium. 78 students and 2 faculty members attended

Faculty Participation

- The following Non-Teaching staff attended 4 day workshop on “Functional English”, organized by Department of H & S, VNRVJIET, in ELCS Lab (A-117) during 11-7-2023 to 14-07-2023.

Mrs. R.Sunitha	Sr.Skilled Asst.
Mr. B.N.Murali Krishna	Computer Operator
Mrs.G.Suma Bala	Sr.Skilled Asst.
Mr. P.Naresh Kumar	Sr. Skilled Asst.
- Dr.S.Pranavanad, Assoc.Professor & Mr.S.Nagarjuna Chary, Asst.Professor, attending ZF Training program organized by ZF TECHNOLOGY CENTER INDIA, Hyderabad from 17th July to 5th September 2023.
- Dr.M.Hari Krishna, Assoc.Professor & Dr.K.Vijay Chandra, Asst.Professor attending Two Day workshop on “Research Grants”, organized by Research & Consultancy Centre (RCC), VNRVJIET from 17th July & 18th July 2023.

- Discussion session with IPR Cell (Mrs.Pandana Reddy) for EIE Department Faculty members. The faculty members handled Major projects, Mini Projects and own ideas in the respective departments and communicate with her and seek her assistance in converting ideas into patent documents. Held on 20-07-2023 at 1:45pm to 5:00pm in PCI Lab (A-213).
- Dr. Chakravarthula Kiran, Assoc. Professor, went to attend FAB23 Bhutan on “Digital Fabrication Conference”, Organised by DHI, Bhutan, Thimpu, Bhutan during 23rd to 28th July 2023.
- A.Adithya Kashyap, Asst.Professor, attended one week workshop on “Research Oriented Technical Writing,(ROTW 2023), organized by Department of Electrical Engineering, NIT Jamshedpur (Online) from 4th-8th July 2023.
- The following faculty members from the department attended Five-Day Interactive Instruction Faculty Development Program on “Cultivating Research Attitude and Faculty Transformation (CRAFT)”, organized by Department of Computer Science and Engineering, VNRVJIET, Hyderabad in A-113 from 24th to 28th July 2023.
 - Mr.G.Vamsi Krishna Asst.Professor
 - Ms.D.Swetha Asst.Professor
 - Mr.S.Bhargav Asst.Professor
 - Mr.Ch.Venkanna Asst.Professor
- Dr.K.Vijay Chandra, Asst.Professor, attended one week workshop on “Research Oriented Technical Writing,(ROTW 2023), organized by Department of Electrical Engineering, NIT Jamshedpur (Online) from 4th-8th July 2023
- Dr.M.Sreedhar, Professor, attended 5-Day Online Faculty Development Program / Training Program on “Innovative Teaching and Learning Pedagogy” Organized By: Research Foundation of India & RFI Care from 26th-30th July 2023.
- Dr.S. Pranavanand, Assoc.Professor & Mr.S.Nagarjuna Chary, Asst.Professor, attending ZF Training program organized by ZF Technology Center India, Hyderabad from 17th July to 5th September 2023.
- Dr.S.Senthi Kumar, Asst.Professor attended Three Day Workshop on Self Balancing Robot Design (SBR)" at the Indian Institute of Technology Bombay (IIT Bombay), Mumbai, as part of the e-Yantra Lab Setup Initiative (eLSI) from 3rd-5th August 2023.
- Dr.C.Kiran, Assoc.Professor, attended India Startup Festival (ISF) 2023 at Bengaluru and setting up a stall at ISF '23 Exhibition during Aug 10th to 12th Aug 2023.
- Mr.N.Akshay, Asst.Professor attended One day online workshop on “LaTeX”, conducted by IEEE event on 17th August 2023.
- Dr.M.Sreedhar, Professor, attended Online International Faculty Development Program on “Business Analytics and Business Intelligence”, from 21st-28th August 2023.

- Mrs. Anitha Kulkarni, Assoc.Professor, attending Faculty Development Program on “Insights to AI Techniques Applications with Hands-on Training”, organized by VNRVJIET Hyderabad during 9th August 2023 to 6th September 2023 (Every Wednesday).
- Mrs.D.Srilaxmi, Asst.Professor, attending NPTEL Course on “ Problem Solving through Programming with C ”, organized by IIT, Kharagpur during 24th July 2023 to 13th October 2023.
- Dr.R.Manjula Sri, Professor & Head, attended IEEE WIE ILS 2023 Raipur Event at Hotel Babylon Capital, VIP Chowk, Raipur, Chhattisgarh. during 24th-26th August 2023.
- Dr.C.Kiran, Assoc.Professor, attended US University Fair by Education, USA at Hotel Novotel, Hyderabad on 26-08-2023.
- Dr. M. Hari Krishna, attended online Faculty Development Program on Programming, Data Structures And Algorithms Using Python organized by NPTEL course by IIT Madras from 24 July 2023 to 24 Sep 2023
- Mrs.Anitha Kulkarni, Attended Faculty Development Program on “Insights to AI Techniques Applications with Hands-on-Training”, organized by VNRVJIET Hyderabad. From 09th Aug to 06th Sep 2023.
- Dr.R.Manjula Sri, Dr. M. Hari Krishna, Dr.V.Nageshwar & Mrs.Anitha Kulkarni Attended Seminar on Student Empowerment: A Road map to Personal Growth and Success" by "Brahmasri Chaganti Koteswara Rao Garu organized by VNRVJIET in K.S. Auditorium on 04th Sep 2023
- Dr. R.Manjula Sri, Dr.K.Sudha Rani, Dr.V.Nageshwar & Dr.S.Senthi Kumar attended workshop on “Easy and Lazy Technical Writing: How to build a solid logic”, by Akihiko K. Suguyama, Dr.Eng, Yahoo Japan Research and IEEE Signal Processing Society Hyderabad Chapter from 8th-9th September 2023 at VNRVJIET Hyderabad.
- Dr. R.Manjula Sri, and Dr.V.Nageshwar attended and present their paper 4th International e-Conference on Advances in Computer Engineering and Communication Systems (ICACECS-2023) organized by Dept. of CSE , VNRVJIET, Hyderabad during 22nd -23rd 2023.

Department Achievements

The department of EIE and M/s APPLELTON INNOVATIONS LTD, have signed MOU for collaboration in academics and research., for three years with effect from 7th Sep 2023

Research and Development (R & D)

Patents

- Published Patent entitled “WI-FI-Enabled Anti-Theft System with Biometric Authentication in Fuel Filling Stations”, VNRVJIET as applicant and Ms.P.Sampurna Lakhmi, Dr.R.Manjula Sri, and Dr.Srinivasa Rao as Inventors, on 23rd June 2023.
- Published Patent entitled “IOT Based RO Water Purifier with Auto TDS Control”, VNRVJIET as applicant and Mr.S.Nagarjuna Chary, Dr.K.Vijay Chandra as Inventors, on 23rd June 2023.

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.K. Sudha Rani, Associate Professor, EIE	A. Sumalatha, K Sudha Rani, Ch. Jayalakshmi.	Dynamic modelling of Boiler drum using nonlinear system identification approach.	Journal of Measurement: Sensors	Vol.28	July 2023	2665-9174	SCOPUS
Ms.P. Sampurna Lakshmi, Asst.Professor, EIE	P. Sampurna Lakshmi, Dr.S. Sivagama Sundari, Dr.R. Manjula Sri	Solar Panel Fault Detection System using IoT	Journal of European Chemical Bulletin	Volume 12, Issue 7, pp.3199-3206	July 2023	2063-5346	SCOPUS
Dr.K.Vidya Sagar, Professor, EIE	A. Geetha Devi, Surya Prasada Rao Borra, D. Hari Krishna, M. Raj Kumar Naik, K. Vidya Sagar, Lakshmi Ramani Burra	Implementing resnet-50 transfer learning model for diagnosing oct images for ectecting and classifying DME abnormalities	International Journal of Theoretical and Applied Information Technology	Vol.101. Issue No 15, pp.6024-6042	August 2023	1992-8645	SCOPUS
Ms.Anitha Kulkarni Associate Professor	Venkata krishna Odugu, Anita Kulkarni, Shaik Hasane Ahammad, Md. Amzad Hossain*, Ramachandran	Comparative study for performance efficiency of conventional optical transmitter	International Journal of Optical Communications	10.1515/joc-2023-0229	September, 2023	2191-6322	SCOPUS

	Thandaiah Prabu*, B. Omkar Lakshmi Jagan and Ayman Zain Hemadan*	with spatial optical transmitter through CWDM fiber system					
Dr. Nageshwar V Associate Professor	Soumya Sunkapaka, Dr. Nageshwar	Sentiment Analysis using Telugu Sentiwordnet	European Chemical Bulletin	Vol.12 issue 9, pp.666-672	September, 2023	2063-5346	SCOPUS
Mr.P.V.Gopi Kumar Assistant Professor	Chukkaluru Ravi Shankar Reddy, Padavala Venkata Gopi Kumar, Radhakrishnan Manikandan, Kuruva Bhavana	A high speed and power efficient multiplier based on counter-based stacking	Indonesian Journal of Electrical Engineering and Computer Science	Vol. 32, No. 1, October 2023, pp. 98~106	October 2023	2502-4752	SCOPUS

Conferences/Book Chapters

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
Dr.R. Manjula Sri, Professor & Head	Ms. Manjula Sri Rayudu, Ms. Lakshmi Kala Pampana, Ms. Shalini Myneni, Ms. Sruthi Kalavari, Mr. Raghupathi Reddy Madapa	An Automatic Rice Grain Classification for Agricultural Products Marketing	4th International e-Conference on Advances in Computer Engineering and Communication System (ICACECS'23)	----	22nd & 23rd Sep 2023
Dr.V.Nageshwar Associate Professor	Nageshwar V., P. Venkateswara Rao, C. Sarika, K. Manusha, Y. Deepthi	Detection of Epileptic Seizures from Logistic Model trees	4th International e-Conference on Advances in Computer Engineering and Communication System (ICACECS'23)	----	22nd & 23rd Sep 2023
Mr. Nagarjuna S. Chary	Nagarjuna S. Chary, N. Vinoth, Kiran Chakravarthula	Intelligent Retrieval Algorithm using Electronic Health Records for healthcare	Taylor & Francis	9781003438816	Sep 2023