

## Vision

- To become a reputed learning center producing competent professionals.

## Mission

- DM1:** Provide Quality education through interactive teaching-learning practices.
- DM2:** Establish Technology-enabled environment for building core competencies including robotics.
- DM3:** Arrange Industry-Interaction to hone professional skills.
- DM4:** Organize activities to foster social skills and ethical values.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1:** Apply Engineering concepts to solve Electronics and Communication Engineering problems of social relevance.
- PEO2:** Design and develop electronic devices and Systems for Industry or pursue research.
- PEO3:** Demonstrate competencies through continuous learning and adapt to multi-disciplinary environment.
- PEO4:** Practice professional values and contribute to the societal needs.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO1: Professional Skills:** Apply principles of Analog and Digital Electronics, Communication Systems, Image processing, VLSI and Embedded Systems to solve diverse problems.
- PSO2: Software Knowledge:** Develop solutions for complex engineering problems of social relevance by employing Xilinx, CC Studio, Micro Wind, Keil, NG Spice, Scilab tools.



GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Anantapur)

## Department Of Electronics And Communication

## NEWS LETTER ABSOLUTE ELECTRONICS

"Key to Success"

Editorial Board:  
Faculty Editors:

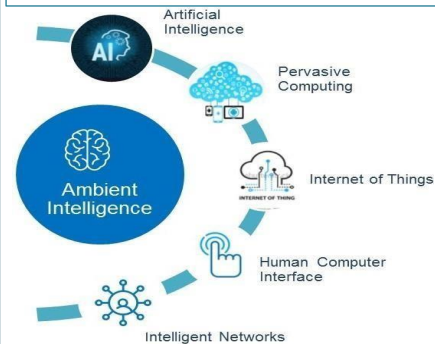
A.Hari Krishna,  
Asst.Professor

Student Members:

- 1.D.Yashwanth(III ECE)
- 2.Sk.Muthahar(III ECE)
- 3.P.CharanKumar(II ECE)
- 4.K.Sri Varshini(II ECE)

## Ambient Intelligence:

In computing, ambient intelligence (AmI) refers to electronic environments that are sensitive and responsive to the presence of people. Ambient intelligence was a projection on the future of consumer electronics, telecommunications and computing that was originally developed in the late 1990s by Eli Zelkha and his team at Palo Alto Ventures for the time frame 2010–2020. Ambient intelligence would allow devices to work in concert to support people in carrying out their everyday life activities, tasks and rituals in an intuitive way using information and intelligence that is hidden in the network connecting these devices.



## ISSUE: JULY-DEC

## Faculty Contributions -Publications/Workshop/Industrial Visit:

- P. Rahul Reddy published a paper with the title of An energy-efficient reconfigurable accelerators in multi core systems using PULP-NN in Applied Nanoscience, ISSN No. 2190-5517, in the month of sep-2021, (<https://doi.org/10.1007/s13204-021-02069-y>)
- P. Rahul Reddy, published a paper with the title of Design and Development of Graphene FET Biosensor for the Detection of SARSCoV-2, in Silicon Journal, ISSN No. 5913-5921, in the month of sep-2021, (<https://doi.org/10.1007/s12633-021-01372-1>)
- Usthumuri Penchalaiah published a paper with the title of, "Design and implementation of low power and area efficient architecture for high performance ALU" I Parallel Processing Letters Journal in ISSN No. 0129-6264, Vol.32, in the month of Oct-2021, (<https://www.worldscientific.com/doi/abs/10.1142/S0129626421500171>).
- Usthumuri Penchalaiah published a paper with the title of Low Energy, Long Sustainable And High-Speed FIR Filter Based On Truncated Multiplier With SCG-HSCG Adder in Materials Today: Proceedings Journal, ISSN No. 2214-7853, in the month of Oct.2021, (<https://www.sciencedirect.com/science/article/pii/S2214785321082572>)
- Dr.P.Rahul Reddy, published a paper with the title of "Bat: Deep learning methods on network intrusion detection using the Nsl-Kdd dataset" in International Journal of Developments in Technology and Science, ISSN No. 2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- Shaik Yasmeeen published a paper with the title of Design and analysis of a textile antenna for wearable microwave medical imaging applications in International Journal of Developments in Technology and Science, ISSN No. 2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>)
- R.Mahendhar published a paper with the title of Robot with voice controlled feature for assisting physically challenged people in International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June 2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- K.Radhika published a paper with the title of Detection of cardio vascular diseases using multi domain feature fusion and multichannel heart sound signals in International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- G.KiranKumar, published a paper with the title of Vehicle to vehicle communication using LI-FI, International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>)
- U.Penchalaiah published a paper with the title of Vehicle to vehicle communication using LI-FI, International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>)
- P.Rahul Reddy, published a paper with the title of Vehicle to vehicle communication using LI-FI, International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- K.ChandraSekhar, published a paper with the title of Vehicle to vehicle communication using LI-FI, International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- M.N.L. Narayana Singh, published a paper with the title of Vehicle to vehicle communication using LI-FI, International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- I.Vidyasagar, published a paper with the title of Vehicle to vehicle communication using LI-FI, International Journal of Developments in Technology and Science, ISSN No.2581-9119, in the month of June-2022, (<http://www.ijdts.com/volume4-issue-2.html>).
- Mr. Allam Harikrishna attended FDP on "Advanced Signal Processing, Communications using AI and ML Techniques" Jointly organized by department of ECE of GMR Institute of Technology and Sri Sairam Institute of Technology from 21<sup>st</sup> to 25<sup>th</sup> March, 2022.
- Ms. Kareti Sravani Kumari Attended FDP on "Embedded Systems" in APSSDC online, during 16.08.2021 to 04.09.2021.
- DR. Sk. Mahaboob Basha, Attended FDP on "Wearable Devices" from 15-02-2022 to 19-02-2022, at Narayana Engineering Collage, Gudur.
- Mr. P. Ragava Reddy Attended FDP on "Wearable Devices" from 15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.
- Mr.K. Chandra Sekhar Attended FDP on "Wearable Devices" from 15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.

## ISSUE: JULY-DEC

- Mr. A. Hari Krishna Attended FDP on “Wearable Devices” from,15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.
- Mr. M. Siva Krishna, Attended FDP on “Wearable Devices” from,15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.
- Ms. Sk. Yasmeen, , Attended FDP on “Wearable Devices” from,15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.
- Mr. G. Kiran Kumar , Attended FDP on “Wearable Devices” from,15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.
- Mr. P.V.Krishna Rao , Attended FDP on “Wearable Devices” from,15-02-2022 to 19-02-2022 at Narayana Engineering Collage, Gudur.

#### Student Achievements:

#### Prizes Won/PPT/Poster/Workshop/Online Courses:

- 212U1A0458 Mavilla Usha Rani Participated in Online Certification Courses on GUINNESS WORLD RECORDS Attempt For "Most Users To Tak Organized by Guvi Geekon 26/6/2021.
- 212U1A0454 Madana Bharath Participated in Others on The Guinness World Record Event-Most Users To Take An On Organized by Guvion 28/8/2021
- 212U1A0460 Mocharla Dinesh Participated in Online Certification Courses on Coursera Organized by Coursera @YaleUniversityon 30/7/2021
- 212U1A0455 Maddipati Siva Shanker Participated in Online Certification Courseson Introduction To Sustainable Development In Asia And The Pa Organized by Adb Institute (Asian Development Bank Institute) on 1/7/2021
- 212U1A0461 Mopuri Obaiah Participated in Webinars on NATIONAL LEVEL Workshop On Artificial Intelligence-30 \*A Organized by pantech E-Learning on1/7/2021
- 212U1A0467 Naraga Hemapriya Participated in Online Certification Courses on Green Investments: Renewable Energy Organized by Adb Institute (Asian Development Bank Institute) on 3/9/2021.
- 212U1A0470 Nune Pravallika Participated in Webinars on Workshop On Robotic Vision Organized by Pantech Elearning on 5/7/2021.
- 212U1A0471 Ojja Bhargavi Participated in Online Certification Courseson Governing Sustainable Finance Organized by Adb Institute (Asian Development Bank Institute) on 21/9/2021
- 212U1A0478 Penudhota Gayathri Participated in Online Certification Courses on

- Google Analytics Individual Qualification (Iq) Certif Organized by Google on 5/10/2021
- 212U1A0493 Rapuru Anitha Participated in Online Quizon Power Electronics And Drives Organized by on 17/9/2021
- 212U1A0494 Sagiraju Akhila Participated in Webinars on Workshop On Embedded Systems Organized by Pantech E Learning on 17/9/2021
- 212U1A0496 Sarvepalli Shamitha, 182U1A04B0 Participated in Webinars on Webinar On AR & VR Organized by Dept Of CSE, Geetanjali Institute Of Science And Technology on 18/9/2021
- 212U1A0458 Mavilla Usha Rani Participated in Online Certification Courses on GUINNESS WORLD RECORDS Attempt For "Most Users To Tak Organized by Guvi Geekon 26/6/2021.
- 212U1A0454 Madana Bharath Participated in Others on The Guinness World Record Event-Most Users To Take An On Organized by Guvion 28/8/2021
- 212U1A0460 Mocharla Dinesh Participated in Online Certification Courses on Coursera Organized by Coursera @YaleUniversityon 30/7/2021
- 212U1A0455 Maddipati Siva Shanker Participated in Online Certification Courseson Introduction To Sustainable Development In Asia And The Pa Organized by Adb Institute (Asian Development Bank Institute) on 1/7/2021
- 212U1A0461 Mopuri Obaiah Participated in Webinars on NATIONAL LEVEL Workshop On Artificial Intelligence-30 \*A Organized by pantech E-Learning on1/7/2021
- 212U1A0467 Naraga Hemapriya Participated in Online Certification Courses on Green Investments: Renewable Energy Organized by Adb Institute (Asian Development Bank Institute) on 3/9/2021.
- 212U1A0470 Nune Pravallika Participated in Webinars on Workshop On Robotic Vision Organized by Pantech Elearning on 5/7/2021.
- 212U1A0471 Ojja Bhargavi Participated in Online Certification Courseson Governing Sustainable Finance Organized by Adb Institute (Asian Development Bank Institute) on 21/9/2021
- 212U1A0478 Penudhota Gayathri Participated in Online Certification Courses on Google Analytics Individual Qualification (Iq) Certif Organized by Google on 5/10/2021
- 212U1A0493 Rapuru Anitha Participated in Online Quizon Power Electronics And Drives Organized by on 17/9/2021.
- 212U1A0494 Sagiraju Akhila Participated in Webinars on Workshop On Embedded Systems Organized by Pantech E Learning on 17/9/2021
-

- 212U1A0496 Sarvepalli Shamitha, 182U1A04B0 Participated in Webinars on Webinar On AR & VR Organized by Dept Of CSE, Geethanjali Institute Of Science And Technology on 18/9/21.
- 
- 202U1A0404 Allam Sriram Participated in Online Certification Courses on Android Application Development Organized by Geethanjali Institute Of Science And Technology on 6/7/2021
- 202U1A0410 Avadhanam Sandhya Sri Participated in Student Workshops on Android Application Development Organized by Andhra Pradesh State Skill Development Corporation on 6/7/2021.
- 202U1A0433 Devasani Bindu, Participated in Student Workshops on Android Application Development Organized by Apsdc on 6/7/2021
- 202U1A0445 Guduru Kundana Priya Participated in Webinars on Webinar On R Programming Organized by Pan tech ELearning on 6/8/2021
- 202U1A0467 Kanneti Pavan Kumar Participated in Webinar son Webinar On My sql With Python Organized by Pantech ELearning on 6/9/2021 & BLOCK CHAIN Organized by Pantech ELearning on 6/11/2021.
- 202U1A0469 Kasivarapu Mahendra Kumar Participated in Online Quiz on National Quiz Competition Organized by A 5 Day National Online Quiz-Spark on 14/8/2021
- 202U1A0493 Mathe Granny Smith, Participated in Online Quizon National Quiz Competition Organized by A 5 Day National Online Quiz-Spark on 26/10/2021
- 202U1A04A6 Nellore Teja Kumar Participated in OnlineQuiz on National Quiz Competition Organized by A 5 Day National Online Quiz-Spark 2021 on 27/10/2021
- 202U1A04C0 Pichuka Venkata Vasantha Kumar Participated in Online Quiz on Android App Development Organized on 22/10/2021.
- 212U1A0467 Naraga Hemapriya Participated in Online Certification Courses on Green Investments: Renewable Energy Organized by Adb Institute (Asian Development Bank Institute) on 3/9/2021.
- 212U1A0470 Nune Pravallika Participated in Webinars on Workshop On Robotic Vision Organized by Pantech Elearning on 5/7/2021.
- 212U1A0471 Ojja Bhargavi Participated in Online Certification Courseson Governing Sustainable Finance Organized by Adb Institute (Asian Development Bank Institute) on 21/9/2021
- 212U1A0478 Penudhota Gayathri Participated in Online Certification Courses on Google Analytics Individual Qualification (Iq) Certif Organized by Google on 5/10/2021
- 212U1A0493 Rapuru Anitha Participated in Online Quizon Power Electronics And Drives Organized by on 17/9/2021
- 
- 212U1A0470 Nune Pravallika Participated in Webinars on Workshop On Robotic Vision Organized by Pantech Elearning on 5/7/2021.
- 212U1A0471 Ojja Bhargavi Participated in Online Certification Courseson Governing Sustainable Finance Organized by Adb Institute (Asian Development Bank Institute) on 21/9/2021
- 212U1A0478 Penudhota Gayathri Participated in Online Certification Courses on Google Analytics Individual Qualification (Iq) Certif Organized by Google on 5/10/2021
- 202U1A0445 Guduru Kundana Priya Participated in Webinars on Webinar On R Programming Organized by Pan tech ELearning on 6/8/2021
- 202U1A0467 Kanneti Pavan Kumar Participated in Webinar son Webinar On My sql With Python Organized by Pantech ELearning on 6/9/2021 & BLOCK CHAIN Organized by Pantech ELearning on 6/11/2021.
- 202U1A0469 Kasivarapu Mahendra Kumar Participated in Online Quiz on National Quiz Competition Organized by A 5 Day National Online Quiz-Spark on 14/8/2021
- 202U1A0493 Mathe Granny Smith, Participated in Online Quizon National Quiz Competition Organized by A 5 Day National Online Quiz-Spark on 26/10/2021.
- 212U1A0471 Ojja Bhargavi Participated in Online Certification Courseson Governing Sustainable Finance Organized by Adb Institute (Asian Development Bank Institute) on 21/9/2021
- 212U1A0478 Penudhota Gayathri Participated in Online Certification Courses on Google Analytics Individual Qualification (Iq) Certif Organized by Google on 5/10/2021
- 212U1A0493 Rapuru Anitha Participated in Online Quizon Power Electronics And Drives Organized by on 17/9/2021.

## Events Organized

### A Six Day Workshop On “AWS cloud computing - solution architect workshop

A Six day workshop on Amazon Web Services was organized by the department of ECE, from 22<sup>nd</sup> December 2021 to 23<sup>rd</sup> January 2022 (Three Weeks one week for each section) in collaboration with APSSDC. The experts from APSSDC explained various concepts of Amazon Web Services related aspects right from the fundamentals for III year B.Tech ECE students.



### One Week Workshop on “Emerging trends in VLSI Design”

One Week Workshop on “**Emerging trends in VLSI Design**” was organized under the department of Electronics and Communication Engineering at Geethanjali Institute of Science & Technology From 13-09-2021 & 18-09-2022 in association with IETE sub center, Tirupati



### One Week Workshop on Emerging trends in Communication Systems and Signal Processing

One Week Workshop on “Emerging trends in Communication Systems and Signal Processing” was organized under the department of Electronics and Communication Engineering at Geethanjali Institute of Science & Technology From 13-09-2021 & 18-09-2022 in association with IETE sub center...



### PRASARA BARATHI DOORDARSHAN KENDRA TIRUPATI

92 Students of III Year ECE Geethanjali Institute of Science and Technology-Nellore have visited Doordarshan Kendra Tirupati on 30-04-2022., accompanied by 5 faculty members. The Prasara Bharathi Doordarshan Kendra is known to satisfactorily cater to the demands of its customer base.





### One Week Workshop on Emerging trends in Iot & Embedded Systems

One Week Workshop on “Emerging trends in Iot & Embedded Systems” was organized under the department of Electronics and Communication Engineering at Geethanjali Institute of Science & Technology From 13-09-2021 & 18-09-2022



### Two Days Industrial Visit to IIITB & Tech Summit 2K22, Bangalore On 17-11-2022 & 18-11-2022

The department of Electronics and Communication Engineering organized Two Days Industrial Visit for IV B.Tech ECE-A,B&C Students to “IIITB & Tech Summit 2K22, Bangalore” on 17-11-2022 & 18-11-2022. IIITB is established on 18 September 1998 with its campus at International Tech Park, Bangalore.



### University examinations Results 2020-21 Odd Semester:

#### II Year Toppers

Roll No:	Name of the Student	SGPA
202U1A0422	CHAKKA VENKATA THANUJA	9.16
202U1A0480	MADALA BHARGAVI	9.26
202U1A04E8	SHAIK MUSSAVEERA	8.74

#### III Year Toppers

Roll No:	Name of the Student	SGPA
192U1A0414	BOGALA SUCHARITHA	8.86
192U1A0494	NANDAM AAKARSHA LEKHANA	9.14
192U1A04D8	SHAIK ARSHIYA	8.86

#### IV Year Toppers

Roll No:	Name of the Student	SGPA
182U1A0462	KANDIKATTU SRAVAN KUMAR	8.64
182U1A0486	MEESALA DEVI PRIYA	8.64
192U5A0408	LAKSHAVAKAM JAISHEELA	8.77