



# GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Department of Electronics and Communication Engineering

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### Department's Monthly Report

Name of the Department: ECE

Date from: **01-08-2025 to 31-08-2025**

1. Guest Lectures / Webinar / etc... arranged.

| S. No | Name of the Resource person | Designation and Organization  | Topic covered  | Target Attendance                             | Proposed by (Name of the faculty) |
|-------|-----------------------------|---|--|---|-----------------------------------|
| 1     | Dr.A.Hymavathi,             | Professor,<br>S&H dept,<br>Sreyas College<br>of Engineering<br>and Technology | Natural resources<br>Date:23-08-2025<br>Mode: Online at GCET | All II B.Tech Students<br>and Faculty of GCET | Ms. A.R.L Padmaja<br>GCET         |
| 2     | Dr.A.Hymavathi,             | Professor,<br>S&H dept,<br>Sreyas College<br>of Engineering<br>and Technology | Natural resources<br>Date:30-08-2025<br>Mode: Online at GCET | All II B.Tech Students<br>and Faculty of GCET | Ms. A.R.L Padmaja<br>GCET         |

## 2. Student Development Programs/Value Added Courses Conducted

| S. No | Name of the program  | Target Audience              | Date(s) conducted             | No. of students attended | CO / PO attainment | Remarks  |
|-------|--|------------------------------|-------------------------------|--------------------------|--------------------|--|
| 1     | ASIC Front –end implementation flow using Synopsys tools   | III ECE students             | 02-08-2025 to 03-08-2025      | 120                      | -                  | Mr. G. Ramachandra Kumar, Assistant Professor<br>Mr. M. Chathar Singh, Assistant Professor |
| 2     | CLTR+SHIFT+SKILL (Srujunastra club) (online)               | II and III Year ECE students | 05-08-2025 to 06-08-2025      | 56                       | -                  | Coordinator:<br>Ms. M.Laxmi<br>Assoc. Professor  |
| 3     | Logic Quest  | II,III Year students         | 07-08-2025                    |                          |                    | Coordinator:<br>Dr.Appala Raju Uppala<br>Assoc. Professor                                  |
| 4     | Mind Zone 7.0(online)                                      | All ECE students             | 07-08-2025                    | 70                       | -                  | Coordinator:<br>Ms. M.Laxmi<br>Assoc. Professor  |
| 5     | Basic Programming Concepts for Arduino and Vega Processors | II ECE students              | 04-08-2025 for every Saturday | 30                       | -                  | Coordinator:<br>Mr. P. Chandra Prakash,<br>Sr. Assistant Professor                         |
| 6     | ROBOGEN (Hackathon)  | All branch students          | 21-08-2025 to 24-08-2025      | 45                       | -                  | Coordinators:<br>Mr. P. Chandra Prakash, Dr.M.Anand, Ms.S.Jyothirmayee                     |

### 3.Details of the Seminars/ Conferences / Workshops /Refresher Courses / Orientation Courses/ FDPs attended by faculty

| S.No | Name of the Faculty     | Nature of program attended:<br>conference/workshop/FDP etc. | Title of the Program   | Date(s) attended         | Sponsored body/institute   |
|------|-------------------------|---|--|--------------------------|--|
| 1    | Mr.Kaparapu Satish Babu | Six-Day National Level Online FDP                           | Re-Configurable and Compact Antennas: Enabling Real-Time Solutions in Wearable and Healthcare Technologies | 21.07.2025 to 26.07.2025 | Rajalakshmi Engineering College  |
| 2    | Mrs B.Sumithra          | FDP   | AICTE Training And Learning (ATAL) Academy Faculty Development Program                                     | 18.08.2025 to 23.08.2025 | Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) |

### 4..Details of Research Publications.

#### Conference Papers:

| S. No | List of Authors  | Title of the Paper  | Conference Name   | Year of Publication       | ISBN/ ISSN              | Indexing       |
|-------|------------------|---|---|---------------------------|-------------------------|----------------|
| 1     | Ms.S.Jyothirmaye | Revolutionizing CKD Prediction with Bayesian Optimized Light GBM for Clinical Decision Support. | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |

|   |                      |   |   |                           |                         |                |
|---|----------------------|---|---|---------------------------|-------------------------|----------------|
| 2 | Dr.G.Vallathan       | Revolutionizing CKD Prediction with Bayesian Optimized Light GBM for Clinical Decision Support. | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |
| 3 | Mr. G.Venkateswaralu | Multi-Modal Fusion for Spatial and Temporal Features for Radar Signal Sensing                   | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN:979-8-3503-9111-4  | Scopus-indexed |
| 4 | Dr.G.Vallathan       | Multi-Modal Fusion for Spatial and Temporal Features for Radar Signal Sensing                   | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN:979-8-3503-9111-4  | Scopus-indexed |
| 5 | Ms.M.Uma Rani        | Multi-Head Attention Mechanism in CNN-LSTM for Real Time ECG Arrhythmia Detection               | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |
| 6 | Dr.G.Vallathan       | Multi-Head Attention Mechanism in CNN-LSTM for Real Time ECG Arrhythmia Detection               | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |

|    |                     |   |   |                           |                         |                |
|----|---------------------|---|---|---------------------------|-------------------------|----------------|
| 7  | Ms.A.R.L.Padmaja    | Multi-Head Attention Mechanism in CNN-LSTM for Real Time ECG Arrhythmia Detection   | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |
| 8  | Ms.M.Uma Rani       | Energy-Efficient Routing with LSTM-Attention DQN for Anomaly Detection in Networks  | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |
| 9  | Dr.G.Vallathan      | Energy-Efficient Routing with LSTM-Attention DQN for Anomaly Detection in Networks  | International Conference on Emerging Technologies in Engineering Applications (ICETEA-2025) | 05-06-2025 and 06-06-2025 | ISBN: 979-8-3315-1485-3 | Scopus-indexed |
| 10 | Mr.A.Shankar        | Emotion Prediction Using Deep Learning  | 3rd International Conference on Intelligent and Secure Engineering Solutions (CISES-2025).  | 11-08-2025 to 13-08-2025  | Presented a Paper       |                |
| 11 | Dr.P. Vijai Bhaskar | An Interpretable Stacking Ensemble Model AB-CBLC for High-Accuracy Lung Cancer Detection using Clinical and Behavioral Data | 8th International Conference on Computing Methodologies and Communication (ICCMC 2025)      | 23-07-2025 to 25-07-2025  | Presented a Paper       |                |
| 12 | Dr.P. Vijai Bhaskar | Simulation and Analysis of ECG  | 5th Asian Conference on   | 22-08-2025 to 23-08-2025  | Presented a Paper       |                |

|  |  |   |   |  |  |  |
|--|--|---|---|--|--|--|
|  |  | Signal in Time Domain<br>and Frequency Domain | Innovation in<br>Technology<br>(ASIANCON) |  |  |  |
|--|--|---|---|--|--|--|

5. Students Higher Education Data.

| S. No | Roll No.   | Name of the student | Name of the program and University | TOEFL/ GRE/ GMAT/ IELTS Score, if any |
|-------|------------|---------------------|------------------------------------|---------------------------------------|
| 1     | 21R11A04F3 | Y.Uday Kiran        | MS in US                           | IELTES Score:6.5                      |
| 2     | 21R11A04E3 | S.Bhavya            | MS in UK                           | Not Required                          |

6. Details of Patent/ Ongoing Projects / Consultancy

| S.No | Title/ Description   | Principal investigator/Author Name | Duration/ time period/Published Journal Name | Sponsoring Organization             | Funding Amount | Start date/Month of Publishing | Remarks / Present Status |
|------|--|------------------------------------|--|-------------------------------------|----------------|--------------------------------|--------------------------|
| 1    | Cloud-based Machine Learning platform for personalized heart disease prediction using electronic health records. | Mr.Nangunuri Anjaneyulu            | Indian utility patent journal                | GCET                                | --             | 01-08-2025                     | Published                |
| 2    | Performance enhancement of SRM drive using Schmitt predictor and firefly optimization                            | Dr.M.Jagan Mohan Rao               | 12 Months                                    | GCET<br>(Seed Funding money scheme) | Rs. 2,00,000/- | December 2024                  | Ongoing                  |
| 3    | Development of a novel lidar inversion method for retrieval of mie lidar returns                                 | Dr. P. Sudhakar                    | 12 Months                                    | GCET<br>(Seed Funding money scheme) | Rs. 2,00,000/- | November 2024                  | Ongoing                  |

7. Details of Students Co-curricular/ Sports Achievements/ NSS Activities

i. Details of NSS activities taken place

| S. No. | Activity details   | Date(s)                      | Organized by College/University |
|--------|--|------------------------------|---------------------------------|
| 1      | MAD(Make a difference)   | 01-08-2025                   | NSS Unit, GCET                  |
| 2      | Recruitment of student volunteers 2025   | 05-08-2025 and<br>06-08-2025 | NSS Unit, GCET                  |
| 3      | Raksha Bandhan with<br>99 RAF Bettalian,hakimpet                                     | 09-08-2025                   | NSS Unit                        |
| 4      | NSS Orientation DAY celebrations 2025  | 13-08-2025                   | NSS Unit                        |
| 5      | Movie Screening in Thimmaipally village<br>(RAZAKAR)                                 | 24-08-2025                   | NSS Unit                        |
| 6      | Distribution of Lord Ganesh clay Idols in Yadgarpally village and Deans/HoDs of GCET | 26-08-2025                   | NSS Unit                        |
| 7      | Skit on Ganesh Jananam<br>In Yadgarpally Govt High School                            | 29-08-2025                   | NSS Unit                        |
| 8      | Interview session with Senior Journalist Mr.Suresh Kochattil                         | 30-08-2025                   | NSS Unit                        |
|        |  |                              |                                 |
| -----  |  |                              |                                 |

8.Details of Industry visits organized/planned by the departments

| S No  | Dept | Associated Industry, Address          | Visit provided to<br>(Year / section) | Date of visit | Faculty Coordinator    | No. of students<br>visited | Remarks |
|-------|------|---------------------------------------|---------------------------------------|---------------|------------------------|----------------------------|---------|
| 1     | ECE  | VGS and Technologies in<br>Kushaiguda | II Year students                      | 04-08-2025    | Ms L.Uma<br>Maheshwari |                            |         |
| ----- |      |                                       |                                       |               |                        |                            |         |

9.Any other relevant/significant information:

Faculty Achievements:

1. Mr. Uday Kiran, a 2024 graduate, delivered a presentation on "RISC-V: Beyond the Basics for II,III and IV ECE students on 1st August 2025. The session was coordinated by Mr. G. Ramachandra Kumar and Ms. M. Umarani.

Faculty member in-charge

Overall Coordinator

Head of the Department

Mr.A.Shankar

Dr. Appala Raju Uppala

Dr.G.Sreelakshmi



Faculty meeting on 05/07/2025



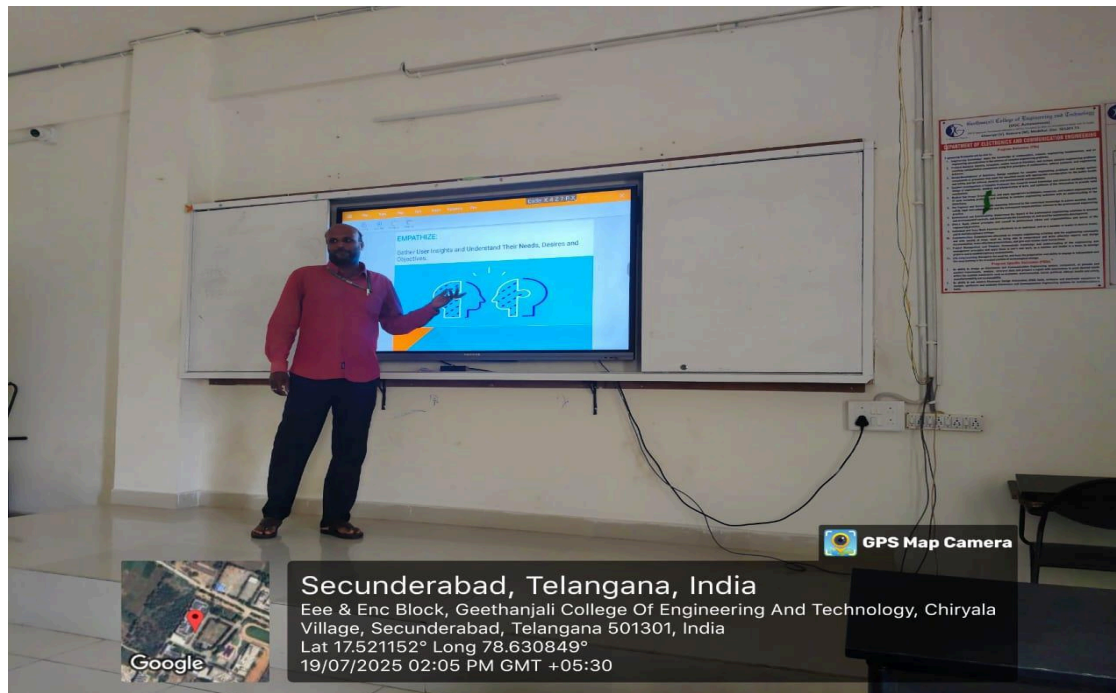


RH National seminar ON 09/07/2025



Faculty presentation on 12/07/2025





Faculty presentation on 19/07/2025



Carrier Guidance in Embedded systems for III year students



Carrier guidance by Ms.Manjula for 3rd year ECE students on 30/07/2025





Four students from ECE selected for Mistral solutions which is an core Embedded company on 30/07/2025



A session on Research Paper Writing was organized today from 2:00 p.m. to 3:50 p.m. A total of 44 students from IV ECE participated in the session.

