



# TECHNO DIGEST

**Newsletter from Department of ECE**  
**Geethanjali College of Engineering and Technology**  
 (UGC Autonomous, Approved by AICTE and Permanently Affiliated to JNTUH)  
 (Accredited by NAAC at A<sup>+</sup> Grade and Accredited by NBA)

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## Patents

1. M. Anand published a patent titled “**Predicting the Stability of Perovskite Solar Cells with Advanced Machine Learning**” with Application No. 202511004211 A on January 31, 2025.
2. Dr. Y. Nagalakshmi published a patent titled “**Plant Leaf Diseases Detection and Classification using CNN Algorithm**” with Application No. 202541009820 A in February 2025.
3. Dr. B. Ramu published a patent titled “**Dynamic Model Optimization for Low-Power Machine Learning Applications in IoT Environments**” with Application No. 202531010142 A in February 2025.
4. Dr. B. Ramu published a patent titled “**Integrated Cloud and Machine Learning Approaches for IoT-Enabled Healthcare Monitoring Systems**” with Application No. 202521007825 A in February 2025.
5. Prof. B. Hari Kumar published a patent titled “**Integrating Cloud Computing and Machine Learning for Predictive Stress Management for Employees : A Psychological Behavior Analysis**” with Application No. 202511008459 A in February 2025.
6. Dr. G. Sreelakshmi was granted a patent titled “**Wireless Sensor Device for Environmental Monitoring using AI**” with Application No. 6426483 in March 2025.
7. Ms. A R L Padmaja published a patent titled “**AI Based Carbon Pollution Detecting Device**” with the Application No. 443930-001A in March, 2025.
8. Ms. M. Laxmi published a patent titled “**Deep Learning Model for Classification of Organic and Non-Organic Images**” with the Application No. 202541027037 on April 11, 2025.
9. Ms.V. Savithri Padmapriya published a patent titled “**A Smart IoT-Fuzzy Hybrid System for Disease Identification and Environmental Management in Mushroom Cultivation**” with the Application No. 202541026577 A on April 11, 2025.
10. Ms.S Jyothirmaye published a patent titled “**Content Based Medical Image retrieval system using Pattern Recognition**” with the Application No. 202541039003 A on May 16, 2025.

### Patents

11. Mr. M. Chathar Singh published a patent titled **“Automated Curriculum Optimization, Pedagogical Enhancement, and Teaching Strategy Personalization using Machine Learning and Data-Driven Learning Analytics”** with the Application No. 202531043076 A on May 16, 2025.
12. Ms. M. Sowjanya published a patent titled **“Block chain-Integrated AI System for Fraud Detection in Financial and E-Commerce Transactions”** with the Application No. 202541041337 A on May 23, 2025.
13. Ms. M. Laxmi published a patent titled **“Machine Learning based Approaches for Detecting Anomalies and Fraud in Bit coin Block chain Transactions”** with the Application No. 202541043550 on May 30, 2025.
14. Ms. B. Sreelatha published a patent titled **“Cloud-Integrated System and Method for Health Diagnostics using IoT Biomedical Devices and Machine Learning”** with the Application No. 202541043151 A in May 2025.
15. Dr. Y. Nagalakshmi published a patent titled **“Wireless Charging System for Electric Vehicles using Resonant Coupling”** with Application No. 202521050617 A on June 20, 2025.
16. Mr. A. Shankar published a patent titled **“Intelligent System for Digital Image Forgery Detection using Machine Learning and Artificial Intelligence Techniques”** with the Application No. 202541056864 A on June 27, 2025.
17. Mr. R. Odaiah published a patent titled **“Graph-Theoretical Approaches Integrated with Machine Learning for Enhancing Data Privacy in Cloud Systems”** with the Application No. 202541056864 A on June 27, 2025.

### Journal Publications

1. Dr. M. Anand published a paper titled **“Optimizing 5G Massive MIMO Systems using DNN and DSAC-T: A Scalable Adaptive Beamforming Framework”** in the in the journal of Applications of Modelling and Simulation (AMS), Vol. 9 (2025) in March 2025.
2. Dr. M. Shoukath Ali and Students: P. Uma Maheshwari, J. Siddhu Nayak, Sreeja Mandava published a paper titled **“Design and Implementation of 32-bit Advanced Microcontroller Bus Architecture-Advanced Peripheral Bus (AMBA-APB) Protocol using Cadence”** in the International Journal for Research in Applied Science & Engineering Technology (IJRASET), Pages 5094-5100, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 13, Issue IV April 2025.
3. Dr. Appala Raju Uppala published a paper titled **“Hardware Architecture of Efficient Image Dehazing Technique for Advanced Driving Assistance System”** in the journal of Computers and Electrical Engineering, Elsevier, ISSN: 0045-7906, Volume 126, SCI (Q1) H-Index-106, May 31, 2025, <https://doi.org/10.1016/j.compeleceng.2025.110493>.
4. Dr. Y. Naga Lakshmi published a paper titled **“High-Frequency Circuit Design For Power Electronics In Modern Communication Devices “** in the ESCI journal of Metallurgical and Materials Engineering Vol 31(No.5), May 2025, pg.419-429.
5. Mr. T. Venkata Chandra Shekar published a paper titled **“Large Fluctuations in Stochastically Perturbed Nonlinear Systems: Applications in Computing, Engineering, and Economics Modelling”** in the International Journal of Environmental Sciences and Technology (IJEST), ISSN: 2229-7359, Vol. 11 No. 14s, 2025, pg.656-666. <https://doi.org/10.64252/yh48hs95>.

### Conference Journal Publications

1. Ms. V. Savithri Padmapriya presented a paper titled **“Enhancement of Ambulatory Monitoring Systems with Active and Passive Intelligent Reflecting Surfaces for Next-Generation Communication Systems”** in the 4<sup>th</sup> International Conference on Power, Control and Computing Technologies (ICPC2T 2025), organized by NIT Raipur, during January 20-22, 2025.
2. Ms. B. Sumithra, Dr. G. Vallathan, D. Venkata Rami Reddy presented a paper titled **“Secure and High Fidelity Medical Image Generation: A GAN Based Approach for Steganography”** in the 3<sup>rd</sup> International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2025), organized by Reva University, Bengaluru, during February 5-7, 2025.
3. Mr. D. Venkata Rami Reddy presented a paper titled **“Secure and High Fidelity Medical Image Generation: A GAN Based Approach for Steganography”** in the 3<sup>rd</sup> International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2025), organized by Reva University, Bangalore, during, February 5-7, 2025.
4. Dr. B. Ramu and M. Chathar Singh presented a paper titled **“Automated Detection of Brain Tumours in MRI Images using Image Processing Techniques”** in the International Conference on Recent Trends in Computer Science Technology Data Science and Applications (ICRTCTDA 2025), organized by Vidyasagar College of Arts and Science, Tamil Nadu, held on February 7, 2025.
5. Dr. G. Vallathan presented a paper titled **“Deep Learning for Facial Emotion Recognition: Insights from EmoNet”** in the 10<sup>th</sup> International Conference on Signal Processing and Communication (ICSC 2025), organized by Jaypee Institute of Information Technology (JIIT), Noida, UP, India, during February 20-22, 2025.
6. Dr. G. Vallathan presented a paper titled **“Optimizing Resource Utilization of Big Data in Healthcare for Cardiovascular Disease Prediction”** in the 10<sup>th</sup> International Conference on Signal Processing and Communication (ICSC 2025), organized by Dept. of ECE, Jaypee Institute of Information Technology (JIIT), Noida, UP, India, during February 20-22, 2025.
7. Dr. G. Sreelakshmi presented a paper titled **“Enhancing IoT Driven Home Security and Automation with a GCN Model”** in the 3<sup>rd</sup> International Conference on Integrated Circuits and Communication Systems (ICICACS-2025), organized by H.K.E. Society's Sir M Visvesvaraya College of Engineering, Raichur, during February 21-22, 2025.
8. Ms. A R L Padmaja presented a paper titled **“Medi Vault DApp: A Electronic Health Record Application using Blockchain Technology”** in the 2<sup>nd</sup> International Conference on Machine Learning and Autonomous Systems (ICMLAS2025), organized by Stamford International University, Thailand during March 10-12, 2025.
9. Mr. K. Satish Babu presented a paper titled **“Optimized Machine Learning Framework for Liver Disease Prediction Using Ensemble Learning and Feature Selection”** in the 2<sup>nd</sup> International Conference on Machine Learning and Autonomous Systems (ICMLAS 2025), organized by Stamford International University, Thailand, during March 10 -12, 2025.
10. Ms. K. Mamatha presented a paper titled **“Development of Machine Learning Based Safety Helmet Detection using Improved YOLOv8”** in the 2<sup>nd</sup> International Conference on Machine Learning and Autonomous Systems (ICMLAS 2025), organized by Stamford International University, Thailand during March 10-12, 2025.
11. Dr. B. Ramu presented a paper titled **“AI Powered Brain Tumor Detection using Hypergraph Neural Network in MRI Scans”** in the International Conference on Advances in Communication Networks & Systems (COACONS-2025), organized by Dept. of Networking & Communications, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Chennai, during March 26-27, 2025.

### Conference Journal Publications

12. Mr. M. Chathar Singh presented a paper titled **“Impulsive Cardiac Death Prediction Model using Machine Learning and Deep Learning”** in the International Conference on Data Science, Agents & Artificial Intelligence (**ICDSAIAI 2025**), organized by Chennai Institute of Technology, Chennai, India during March 28-29, 2025.
13. Dr. B. Ramu presented a paper titled **“A Deep Learning Method for Recognizing and Identifying Multiple Faces”** in the 2<sup>nd</sup> International Conference on Algorithms and Computational Theory for Engineering Applications (**ICACTEA-2025**), organized by Aditya University, Kakinada, during April 04-05, 2025.
14. Mr. K. Rama Rao presented a paper titled **“Medical Image-Based Cancer Diagnosis and Detection using Deep Learning”** in the International Conference on Communication Security and Artificial Intelligence (**ICCSAI-2025**), organized by Galgotias University, UP, during April 4-6, 2025.
15. Ms. A R L Padmaja presented a paper titled **“Multi-Modal Fusion of Spatial and Temporal Features for Radar Signal Sensing”** in the 6<sup>th</sup> International Conference on Devices for Integrated Circuits (**DevIC 2025**), organized by Kalyani Government Engineering College, Nadia, West Bengal, during April 05-06, 2025.
16. Ms. D. Ramya presented a paper titled **“An IoT -Based Home Automation using Node MCU: Future Home”** in the 5<sup>th</sup> International Conference on Trends in Material Science and Inventive Materials (**ICTMIM-2025**), organized by Rohini College of Engineering and Technology Kanyakumari, Tamil Nadu in association with IEEE Power and Energy Society, during April 07-09, 2025.
17. Dr. G. Sreelakshmi presented a paper titled **“Leveraging Attention Mechanisms in ResNet101 for Enhanced Facial Emotion Recognition”** in the 3<sup>rd</sup> International Conference on Advancement in Computation & Computer Technologies (**InCACCT-2025**), organized by Dept. of CSE, Chandigarh University, Punjab, India, during April 17-18, 2025.
18. Ms. V. Savithri Padmapriya presented a paper titled **“Integrated Active-Passive Intelligent Reflecting Surfaces for Real-Time Mobile Healthcare Monitoring in Future Wireless Networks”** in the 7<sup>th</sup> International Conference on Energy, Power and Environment (**ICEPE 2025**), organized by NIT Meghalaya, Saitsohen, Sohra (Cherrapunjee), during May 09-11, 2025.
19. Ms. M. Laxmi published a paper titled **“Enhancing Sustainable Agriculture with IoT- Based Soil Fertility and Crop Selection Using Hybrid Stacked Ensemble Models and Explainable AI ”** in the 6<sup>th</sup> International Conference of Emerging Technology (**ICET 2025**), organized by Jain College of Engineering (JCE) in Belagavi, Karnataka, India, during May 22-24, 2025.
20. Prof. B. Hari Kumar presented a paper titled **“Enhancing Student Engagement and Learning Outcomes in Higher Education through E-Learning and Restricted Boltzmann Machines”** in the 3<sup>rd</sup> International Conference on Data Science and Information System (**ICDSIS 2025**), organized by Dept. of Information Science and Engineering, Malnad College of Engineering, Hassan, India in association with IEEE Bangalore section, during May 16-17, 2025.
21. Dr. M. Anand presented a paper titled **“Multi Agent Proximal Policy Optimization with Clear Path Determination for Autonomous Drone Navigation”** in the International Conference on Wireless Communication and Internet of Everything (**ICWCIE-2025**), organized by Sharnbasva University, Kalaburagi, during May 23-24, 2025.

### Conference Journal Publications

22. Mr. G. Venkateshwarlu presented a paper titled **“Integrating Spatial and Temporal Characteristics for Enhanced Radar Signal Analysis”** in the International Conference on Emerging Technologies in Engineering Applications (**ICETEA 2025**), organized by Sri Manakula Vinayagar Engineering College, Puducherry, during June 5-6, 2025.
23. Ms. M. Umarani presented a paper titled **“Multi Head attention in CNN-LSTM for Real-Time ECG Arrhythmia Detection”** in the International Conference on Emerging Technologies in Engineering Applications (**ICETEA 2025**), organized by Sri Manakula Vinayagar Engineering College, Puducherry, during June 5-6, 2025.
24. Ms. S. Jyothirmaye presented a paper titled **“Revolutionizing CKD Prediction with Bayesian Optimized Light GBM for Clinical Decision Support”** in the IEEE International Conference on Emerging Technologies in Engineering Applications (**ICETEA 2025**), organized by Sri Manakula Vinayagar Engineering College, Puducherry, during June 05-06, 2025.
25. Ms. L. Uma Maheshwari presented a paper titled **“Feature Attention-Enhanced CNN-LSTM for Real Time Stress Prediction & Management”** in the 11<sup>th</sup> International Conference on Communication and Signal Processing (**ICCSP’25**), organized by Adhiparasakthi Engineering College (APEC), Melmaruvathur, Tamilnadu, India, during June 05-07, 2025.
26. Dr. Bonda Leelaram Prakash presented a paper titled **“Enhanced Lung segmentation via TransResUNet: A Deep Learning Approach with Residual Paths and VGG16 Encoder”** in the 6<sup>th</sup> International conference on Intelligent Communication Technologies and Virtual Mobile Networks (**ICICV 2025**), organized by Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, during June 17-19, 2025.
27. Ms. A R L Padmaja published a paper titled **“A Block chain and Reinforcement Learning-Based Adaptive Security Framework for IoT-Enabled Smart Homes”** in the International Conference on Smart & Sustainable Technology (**INCSST’25**), organized by K.L.E. College of Engineering, Belgaum District, Karnataka, during June 27-29, 2025.

### Value-Added Course (VAC)

A value-added course on **“Front-end Design For VLSI Circuits”** along with a lab, was conducted for B. Tech II-year ECE students during second semester of the AY 2024–25. Mr. G. Ramachandra Kumar & Mr. M. Chathar Singh were the coordinators for this course. The objective of the course was to prepare students for opportunities in VLSI-related placement drives. VLSI-related placement drives.

### Faculty interaction with outside world

1. Dr. Appala Raju Uppala served as a member of the Research Advisory Committee for Mr./Ms. Santosh Shirol at Visvesvaraya Technological University (VTU), Belagavi, on February 17, 2025.
2. Prof. OVPR. Siva Kumar, Dr. P. Vijai Bhaskar, Dr. B. L. Prakash and Mr. M. Anand visited Viven Embedded Academy, Hitech City, Hyderabad on March 19, 2025. This academy provides development and services for embedded networking product. It also trains students in embedded Linux based application development, preparing them for career opportunities in this field.
3. Dr. B. L. Prakash served as a judge for the paper and poster presentations at the national-level student symposium, AZURA 2025, held at CMRCET, Hyderabad on April 4, 2025.
4. Prof. OVPR Siva Kumar, Dr. P. Vijai Bhaskar, Dr. B.L. Prakash, and Mr. M. Anand attended the “QNX Everywhere in Education” launch event, which took place in Bengaluru, India.

### Guest Lectures Organized

1. A guest lecture on **“IIT Program In semiconductor Technology and Chip Design for a Career in VLSI Design”** was organized by the department of ECE under the CoE in VLSI Design for all B. Tech (ECE) II & IV year students on January 22, 2025. The resource person was Dr. A. G. Krishna Kanth, Founder and CTO, MOSart Labs, Hyderabad. Mr. G. Ramachandra Kumar and Mr. M. Chathar Singh were the coordinators for this lecture.
2. A guest lecture on **“Design Thinking: Concepts and Practice”** was organized by the department of ECE for all B. Tech (ECE) II year students on February 04, 2025. The resource person was Mr. Badarinath, Director, Tripod Knowledge Systems Consultancy Services, Hyderabad. Mr. N. Anjaneyulu and Ms. B. Sumithra were the coordinators for this lecture.
3. A guest lecture on **“Unveiling Innovations in 5G”** was organized by the department of ECE for all B. Tech (ECE) II & IV year students on February 21, 2025. The resource person was Mr. Dakuri Chiranjeevi, Technical Manager, 5G Tech Solution, Pvt. Ltd., Hyderabad. Ms. V. Savithri Padma Priya was the coordinator for this lecture.
4. A guest lecture on **“Advancements in Biomedical Image and Signal Processing: Techniques and Applications”** was organized by the department of ECE for all B. Tech (ECE) II year students on February 24, 2025. The resource person was Ms. Dr. Saladi Saritha, Associate Professor, VIT, Amaravati. Dr. P. Sudhakar was the coordinator for this lecture.
5. A guest lecture on **“Global issues in Professional Ethics”** was organized by the department of ECE for all B. Tech (ECE) II year students online on March 01, 2025. The resource person was Dr. A. Hymavathi, Professor, Sreyas Engineering College, Hyderabad. Ms. A R L Padmaja was the coordinator for the lecture.
6. A guest lecture on **“Inter Satellite Communications”** was organized by the department of ECE under Communications Group and IEEE-SB for all B. Tech (ECE) III year students on April 26, 2025. The resource person was Ms. Radha Nayani, Engineer-G, NRSC/ISRO, Hyderabad, Ms. V. S. Padma Priya and Ms. S. Jyothirmaye were the coordinators for this lecture.

### Industrial Visit

| S.No | Name of Industry visited and place             | Date of Visit | No. of Students / Faculty Accompanied | Target audience        |
|------|------------------------------------------------|---------------|---------------------------------------|------------------------|
| 1    | LED Chip Indus Pvt. Ltd, Kusaiguda             | 29/01/2025    | Students - 53<br>Faculty - 02         | II- ECE Students       |
| 2    | ICOMM, Cherlapally                             | 30/01/2025    | Students - 50<br>Faculty - 02         | III- ECE Students      |
| 3    | CIA MSME EXP-2025, MSME Unit, IDA, Cherlapally | 07/03/2025    | Students - 50<br>Faculty - 02         | II & III -ECE Students |



### Activities organized under Center of Excellence in VLSI Design and ES & IoT

| S. No | Name of the Event                                                   | Category           | Date of activity                    | Target Audience                                         | Organized by                        | Faculty Coordinators                            |
|-------|---------------------------------------------------------------------|--------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------------------|
| 1     | Fundamentals of Programming for Arduino & Vega Processors           | Workshop           | 01-03-2025 to 22-03-2025 (weekends) | ECE-II Students: 30                                     | CoE-ES& IoT                         | P. Chandra Prakash Reddy                        |
| 2     | ASIC Front-end Implementation Flow using Synopsys Tools             | Workshop           | 25-01-2025                          | ECE-III Students:38                                     | CoE-VLSI                            | G.Ramachandra Kumar & M.Chathar Singh           |
| 3     | Navarith Pradarshan 2025                                            | Project Exhibition | 29-01-2025                          | Students of St.Andrew's School, & Govt. School,Cheeryal | ECE in association with CoE-ES& IoT | B. Sreelatha M. Laxmi P. Chandra Prakash Reddy, |
| 4     | Digital & Analog Design Flow using Cadence Tools from RTL to GDS II | Workshop           | 24-02-2025 to 01-03-2025            | ECE-III & IV, & EEE-III Students: 35                    | CoE-VLSI                            | G.Ramachandra Kumar & M.Chathar Singh           |
| 5     | Design Thinking Ideas and Projects Expo 2025                        | Project Expo       | 26-04-2025                          | ECE-II year Students                                    | ECE with IEEE CAS SBC & IIC         | Prof. OVPR Siva Kumar & N. Anjaneyulu           |



### Academic Toppers (Academic Year 2024-25, Semester I)

| S. No. | Year | Roll Number | Name of the Student  | SGPA | Rank |
|--------|------|-------------|----------------------|------|------|
| 1      | II   | 23R11A04F6  | Chirasani Gnana Sree | 8.84 | I    |
| 2      |      | 23R11A04E8  | Badi Rajini          | 8.63 | II   |
| 3      |      | 24R15A0405  | Dornala Swathi       | 8.47 | III  |
| 4      | III  | 22R11A04G0  | Gunnala Jahnvi       | 8.91 | I    |
| 5      |      | 22R11A0484  | Pannala Jhansi       | 8.77 | II   |
| 6      |      | 22R11A0446  | Talagama Rupitha     | 8.73 | III  |
| 7      | IV   | 21R11A04D1  | Machani Poojitha     | 8.65 | I    |
| 8      |      | 21R11A04E2  | Ponagati Pooja Sree  | 8.60 | II   |
| 9      |      | 22R15A0404  | Batthula Nandini     | 8.55 | III  |

### FDPs/Workshops/Conferences/Webinars Attended by Faculty

| S. No | Name of the Faculty                                                                                      | Nature of program | Title of the Program                                                              | Date(s)                  | Organized by/Venue                                       |
|-------|----------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------|
| 1     | Mrs. B. Sumithra                                                                                         | ATAL FDP          | Developing Low-Power Wireless IoT Applications Using MRuby                        | 20-01-2025 to 25-01-2025 | Jerusalem College of Engineering                         |
| 2     | Ms. S. Jyothirmaye<br>Ms. A R L Padmaja<br>Dr. B. L. Prakash<br>Ms.V.S.Padma Priya<br>Mr. K. Satish Babu | ATAL FDP          | Recent trends in 5G/6G Wireless Communication                                     | 06-01-2025 to 11-01-2025 | Samskruti College of Engineering & Technology, Hyderabad |
| 3     | Six ECE faculty members                                                                                  | Workshop          | Implementation of NEP-2020                                                        | 20-01-2025 to 24-01-2025 | IQAC, GCET                                               |
| 4     | Mr. A. Shanker<br>Mr. R. Odaiah                                                                          | ATAL FDP          | Research Advancements in Machine Learning for Engineering Applications            | 20-01-2025 to 25-01-2025 | Sasi Institute of Technology & Engineering, A.P          |
| 5     | Ms.S. Jyothirmaye                                                                                        | ATAL FDP          | Next Gen Communications for IoT and Industrial Automation                         | 20-01-2025 to 25-01-2025 | HMITS, Hyerabad                                          |
| 6     | Dr. G. Vallathan<br>Mr.G.Vekateshwarlu<br>Mr. K. Satish Babu                                             | ATAL FDP          | Driving the Future 2025-2030 : Smart Cities and Urban Mobility                    | 20-01-2025 to 25-01-2025 | IFET College of Engineering, Tamil Nadu                  |
| 7     | Mr. D. Venkata Rami Reddy                                                                                | ATAL FDP          | Cyber Security and Intrusion Detection Forensics                                  | 20-01-2025 to 25-01-2025 | Don Bosco Institute of Technology, Bangalore, Karnataka  |
| 8     | Ms. B. Sumithra                                                                                          | ATAL FDP          | Developing Low- Power Wireless IoT Applications using MRuby                       | 20-01-2025 to 25-01-2025 | Jerusalem College of Engineering,Chennai, Tamil Nadu     |
| 9     | Mr. P. Chandra Prakash Reddy                                                                             | ATAL FDP          | Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture | 20-01-2025 to 25-01-2025 | HITM, Hyderabad                                          |
| 10    | Mr. A. Shanker                                                                                           | FDP               | Basics of Python                                                                  | 31-01-2025               | Infosys Spring board                                     |
| 11    | Dr. B. Ramu                                                                                              | FDP               | Innovative Techniques for Crafting and Publishing Research Papers                 | 10-02-2025 to 14-02-2025 | Velammal Institute of Technology, Panchetty, Chennai     |
| 12    | Dr. U. Appala Raju                                                                                       | ATAL FDP          | Next Gen Communications: Fundamentals and Future Perspective                      | 10-02-2025 to 15-02-2025 | Tirumala Engineering college, Narasaraopet, A.P          |
| 13    | Dr. P. Sudhakar                                                                                          | Workshop          | Utility of PolaRx5S Scintillation Monitoring Receiver for Advanced Research       | 14-02-2025 to 15-02-2025 | CBIT, Hyderabad                                          |

### FDPs/Workshops/Conferences/Webinars Attended by Faculty

| S. No | Name of the Faculty                      | Nature of program          | Title of the Program                                                                           | Date(s)                  | Organized by/Venue                                                         |
|-------|------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------|
| 14    | Dr. B.L.Prakash                          | NEP 2020                   | NEP 2020 Implementation: Benchmarking and Grading Higher Education Institutions                | 17-02-2025               | IQAC Cluster India in collaboration with White Code                        |
| 15    | Six ECE faculty members                  | Online FDP                 | Intricacies of Analog and Mixed Signal Design                                                  | 17-02-2025 to 28-02-2025 | Electronics & ICT Academy, NIT Patna                                       |
| 16    | Dr. G. Sreelakshmi                       | ATAL FDP                   | Supercomputing (High-Performance Computing, AI, Quantum Computing)                             | 17-02-2025 to 22-02-2025 | Amrita Vishwa Vidyapeetham, Coimbatore Campus                              |
| 17    | Dr. Appala Raju Uppala                   | Online FDP                 | New Age AI Usage- English Language Teaching & Learning- Tools & Techniques                     | 23-02-2025 to 28-02-2025 | Writer's Voice International online Literary Platform                      |
| 18    | Dr. U. Appalaraju                        | Online FDP                 | Future Trends In Machine Learning And Data Science-Driven IoT Applications (FTMLDSA-IoT-2025)  | 10-03-2025 to 17-03-2025 | Budge Budge Institute of Technology (BBIT), Kolkata .                      |
| 19    | Ms. M. Laxmi                             | FDP                        | Revolutionizing Data Analytics: Tableau, Power BI, AI, and Optimization Techniques.            | 12-03-2025 to 16-03-2025 | SR University, Warangal, Telangana                                         |
| 20    | Mr.K Rama Rao<br>N.Nagalakshumma         | FDP                        | Exploring Deep Learning Techniques for Signal Processing Applications                          | 02-04-2025 to 09-04-2025 | CVR College of Engineering, Hyderabad                                      |
| 21    | Mr.R.Odaiah                              | FDP                        | Recent Trends in Bio electromagnetic Research and Applications                                 | 03-04-2025 to 09-04-2025 | VIT-AP                                                                     |
| 22    | Ten ECE faculty members                  | FDP                        | Advances in 6G Wireless Communication Network                                                  | 28-04-2025 to 07-05-2025 | Ministry of Electronics & Information Technology in Association with GCET. |
| 23    | Mr.K.Satish Babu                         | FDP                        | AI Mastery for Educators                                                                       | 15-05-2025 to 07-06-2025 | Vishlesan i-HUB IIT Patna                                                  |
| 24    | Dr. Y. Nagalakshmi<br>Dr P.Vijai Bhasker | Teacher Training Programme | Malaviya Mission-Teacher Training Programme - "NEP 2020 Orientation & Sensitization Programme" | 02-06-2025 to 13-06-2025 | UGC-MM TTC, University of Kerala, Kariavattom, Thiruvananthapuram          |
| 25    | Mr.N.Anjaneyulu                          | ATAL-FDP                   | Recent Trends in VLSI Design and Modeling using Cadence Tools                                  | 16-06-2025 to 21-06-2025 | VBIT, Hyderabad                                                            |

### NPTEL Course Certifications by Faculty

| S.No | Name of the Faculty          | Name of the course                                        | Duration     | Score |
|------|------------------------------|-----------------------------------------------------------|--------------|-------|
| 1    | Mr.K. Satish Babu            | Deep Learning-IIT Ropar                                   | Jan-Apr 2025 | 75%   |
| 2    | Dr. Appala Raju Uppala       | Deep Learning - IIT Ropar                                 | Jan-Apr 2025 | 57%   |
| 3    | Dr. Appala Raju Uppala       | Natural Language Processing                               | Jan-Apr 2025 | 49%   |
| 4    | Dr. B.L. Prakash             | Natural Language Processing                               | Jan-Apr 2025 | 62%   |
| 5    | Mr. K. Satish Babu           | Python for Data Science                                   | Jan-Feb 2025 | 71%   |
| 6    | Ms.B. Sreelatha              | Machine Learning For Engineering and Science Applications | Jan-Apr 2025 | 84%   |
| 7    | Mr.R. Odaiah                 | Machine Learning For Engineering and Science Applications | Jan-Apr 2025 | 69%   |
| 8    | Ms.M. Sowjanya               | Machine Learning For Engineering and Science Applications | Jan-Apr 2025 | 78%   |
| 9    | Mr. P. Chandra Prakash Reddy | Machine Learning for Soil and Crop Management             | Jan-Apr 2025 | 69%   |
| 10   | Mr. P. Chandra Prakash Reddy | Sensors and Actuators                                     | Jan-Apr 2025 | 58%   |
| 11   | Mr. N. Anjaneyulu            | VLSI Physical Design                                      | Jan-Apr 2025 | 52%   |
| 12   | Ms. J. Mrudula               | Data Analytics with Python                                | Jan-Apr 2025 | 76%   |
| 13   | Ms. D. Ramya                 | Deep Learning for Natural Language Processing             | Jan-Apr 2025 | 66%   |
| 14   | Mr. M. Anand                 | Deep Learning for Natural Language Processing             | Jan-Apr 2025 | 62%   |
| 15   | Ms. A R L Padmaja            | Deep Learning for Natural Language Processing             | Jan-Apr 2025 | 56%   |
| 16   | Mr. D. Venkata Rami Reddy    | Cryptography and Network Security                         | Jan-Apr 2025 | 73%   |
| 17   | Ms. N. Nagalakshumma         | Problem Solving Through Programming in C                  | Jan-Apr 2025 | 55%   |
| 18   | Ms. S. Jyothirmaye           | CMOS Digital VLSI Design                                  | Jan-Mar 2025 | 51%   |
| 19   | Ms. S. Jyothirmaye           | Deep Learning for Natural Language Processing             | Jan-Mar 2025 | 51%   |
| 20   | Ms. M. Umarani               | Cloud Computing                                           | Jan-Apr 2025 | 72%   |
| 21   | Ms. V. S. Padma Priya        | Cloud Computing                                           | Jan-Apr 2025 | 75%   |
| 22   | Mr. Shanker Aleti            | Introduction to Machine Learning                          | Jan-Apr 2025 | 56%   |
| 23   | Mr. Shanker Aleti            | Deep Learning-IIT Ropar                                   | Jan-Apr 2025 | 83%   |
| 24   | Ms. M. Laxmi                 | Machine Learning For Engineering and Science Applications | Jan-Apr 2025 | 78%   |
| 25   | Ms. L. Uma Maheswari         | Programming in Java                                       | Jan-Apr 2025 | 66%   |
| 26   | Mr. K. Rama Rao              | Bio Medical Signal Processing                             | Jan-Apr 2025 | 54%   |
| 27   | Mr. K. Rama Rao              | Deep Learning                                             | Jan-Apr 2025 | 61%   |
| 28   | Ms. D. Madhavi Latha         | Introduction to Database Systems                          | Jan-Apr 2025 | 55%   |

### Faculty Achievements

1. Mr. B. Sreelatha completed a course titled “**Short Term Training from Python to AI**”, hosted by Nextera Unitech, during January 1-2, 2025.
2. Dr. M. Anand was awarded a Ph. D. degree for his thesis titled “**Comparative Analysis of Soil Properties to Predict Crop Selection using Machine learning Algorithms**” in May 2025. He completed his research in the department of ECE at Lovely Professional University, Punjab, India.
3. Mr. P. Chandra Prakash Reddy won the **Best Mentor** award at the national Virtual Innovative Hackathon 4.0, organized by Embedded and Software Solutions Pvt. Ltd. on February 1, 2025.
5. Dr. Appala Raju Uppala received the **NPTEL Discipline STAR** award in Computer Science Engineering for the January–April 2025 session.
6. Dr. Appala Raju Uppala has been appointed as a **Research Supervisor for Ph.D. scholars** by JNTUH, Hyderabad (Reg. ID: 5441-150409-115721), effective from 10th March 2025.

### Activities under Professional Bodies ISTE, IETE, IEEE, Srujanastra Club

#### ISTE :

1. Department of ECE under ISTE SBC conducted an online live quiz “**SMARTINIS-4**” for all B. Tech students on April 30, 2025. Around 164 students participated. Ms. M. Sowjanya was the coordinator for this event. **K. Saichand Reddy (21R11A04H9), Rathlavath Krishna (21R11A0440), and Sakshi Chandesurye (21R11A05E4)** were the winners of the event.

#### Srujanastra Club :

1. The Department of ECE under Srujanastra Club conducted an inter-college online quiz competition “**MIND ZONE 6.0**” for all B. Tech ECE students on February 22, 2025. A total of 94 students from various colleges participated. **Sai (23R11A0407), Samprithi (22R11A04D4), Vardhan (22R11A0485)** were the top three winners of the event. Ms. M. Laxmi was the coordinator for this event.
2. The Department of ECE under Srujanastra Club conducted the event “**F3 (Find-Fit-Finish)**” for all B. Tech II & III year students on March 3, 2025. A total of 130 students actively participated. Ms. M. Laxmi was the coordinator for this event.
3. The Srujanastra Club of GCET organized an inter-college event titled “**GS-Model United Nations 2K25 – Bringing People Together**” for all B.Tech students on April 2–3, 2025. The event aimed to raise awareness about global crises. It provided a platform for students to enhance their public speaking, negotiation, teamwork, writing, and problem-solving skills. Around 200 students actively participated. Ms. M. Laxmi was the coordinator for this event.



### Activities under Professional Bodies ISTE, IETE, IEEE, Srujanastra Club IEEE :

| S. No | Name of the Event                                           | Category           | Date of activity          | Target Audience          | Organized by                | Faculty Coordinators / Speakers                                               |
|-------|-------------------------------------------------------------|--------------------|---------------------------|--------------------------|-----------------------------|-------------------------------------------------------------------------------|
| 1     | IoT for Engineering Applications                            | Workshop           |                           | ECE-III                  | ECE with IEEE RAS SBC, GCET | <b>Coordinators:</b><br>M. Umarani & A R L Padmaja                            |
| 2     | 5G- Communications & Implementation using Hands on Sessions | 5-day workshop     | 28-04-2025 to 02-05-2025  | ECE-II& IV Students:30   | ECE with IEEE SBC GCET      | <b>Speaker:</b><br>Mr. D. Chiranjeevi, Manager, 5G Tech Solutions, Hyderabad. |
| 3     | BBG 1.0 Bit Battle Grounds                                  | 48-Hours Hackathon | 22-03-2025 and 23-03-2025 | All B. Tech Students: 81 | IEEE SBC, GCET              | S. Jyothirmaye<br>D. Venkata Rami Reddy                                       |

### IETE:

Department of ECE under IETE Student Forum (ISF) conducted an online live quiz “**Quizoholic 5.0**” for all B. Tech students on February 2, 2025. Around 300 students participated. Dr.Appala Raju Uppala was the coordinator for this event. Students from CMR Technical Campus , CVR, College of Engineering and AVN Institutes of Engineering and Technology were declared winners of the event.

### Students’ Placement of 2021-25 Batch

| S. No | Name of the Company | No of students placed | Salary Package | Date of Visit |
|-------|---------------------|-----------------------|----------------|---------------|
| 1     | TECH MAHINDRA BPS   | 01                    | 2.60LPA        | 09-05-2025    |
| 2     | NALSOFT             | 01                    | 5.00LPA        | 22-04-2025    |
| 3     | TRYSOL IT SOLUTIONS | 01                    | 3.50LPA        | 02-04-2025    |
| 4     | BRAKES IND PVT LTD  | 20                    | 2.40LPA        | 25-02-2025    |
| 5     | AUGUST              | 01                    | 3.00LPA        | 12-02-2025    |
| 6     | MGH INFRA SOLUTIONS | 01                    | 6.00LPA        | 13-02-2025    |
| 7     | SKYDE SOLUTIONS     | 15                    | 3.00LPA        | 04-02-2025    |
| 8     | SOFTSUAVE           | 01                    | 3.50LPA        | 01-02-2025    |
| 9     | AMAZON              | 04                    | 4.00LPA        | 23-01-2025    |
| 10    | AURUS               | 05                    | 4.00LPA        | 14-01-2025    |

### FDPs Organized

An Online FDP on “**Advances in 6G Wireless Communication Network**” was conducted from 28<sup>th</sup> April to 7<sup>th</sup> May 2025. The FDP was organized by the Electronics & ICT Academy, NIT Warangal, in association with the E & ICT Academy (Spoke), NIT Raipur, and Geethanjali College of Engineering and Technology (GCET), Hyderabad. Dr. M. Jagan Mohan Rao was one of the coordinators of the FDP. The Programme was sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India.

### Students' Achievements

1. Sanjana Devi (22R11A0449) and Kandukuri Aishwarya(22R11A0471), third-year students, won second prize in **NEXORA 25, a National Level Technical Fest**, for their poster presentation on "Wireless Technology ." The event was organized by G. Narayanamma Institute of Technology, Shaikpet, Hyderabad, on January 23, 2025.
2. Six third-year students participated in **IDEATHON 2025, an innovators' hackathon** organized by AIC T-Hub, Hyderabad, in collaboration with Aditya University, Surampalem, Kakinada, Andhra Pradesh, held from January 30–31, 2025.
3. Raghavendra Reddy (21R11A0415), a fourth-year student, published an article titled "**Human Safety Device-To Monitor Kids, Elderly, and Sick**" in Electronics for You Express Magazine in February 2025. Link to the Article: <https://drive.google.com/file/d/1RLixmaf2fbo8ZzzPx6E7Bkc5G9hFayti/view?usp=sharing>.
4. Appala Nikhil, Arroju Sravani, Boini Sushma, and Gona Venkata Siva Priya, third-year ECE students, presented their project "Ride Sentry: Intelligent Passenger Load Monitor" at **IGNITE-2K25, a national-level project expo** held at Narasimha Reddy Engineering College, Hyderabad on February 21, 2025. Their presentation was recognized with an appreciation award.
5. TSSRSB Harateja, a fourth-year student, won first prize in **SUDHEE-2025, "VIGYAN KAUSHALAM", a students' national technical fest** for a paper presentation on "Recognition of Voice Signals in Noisy Environments." The event was held at Chaitanya Bharathi Institute of Technology, Hyderabad, during March 4-5, 2025.
6. T. Girish Kumar, N. Naveen, N. Sai Chetan, and B. Narender Reddy, second-year students won first prize in **Startupedia'25, a national-level startup event**, for their project presentation on "**IoT Battery System.**" The event was organized by E-Cell, IPE at the Shamirpet Campus in Hyderabad during March 20–21, 2025.
7. L. Anil, A. Ruchika, P. Jhansi, M. Manisha, B. Ajay, K. Joel Francis, K. Aishwarya, and A. Sanjana Devi, third-year students, presented their poster at "**AAKRUTHI 2025**", **an annual technical and innovation fest**, held on March 21, 2025. The event was organized by Anurag University, Hyderabad.
8. Yashika Agarwal, A. Yasuwardhan, A. Chandrasekhar, and Nishita Maruvada, second-year students, presented their project at "**HackSaavya-25**", **a 24-hour national-level hackathon** held from March 26-27, 2025. The event was organized by Mahatma Gandhi Institute of Technology (MGIT) in collaboration with T-Works (India's Largest Prototyping Center) and Knowvation Learnings.
9. D. Naveen, T. Girish Kumar, and Kagh Vikram Seervi, second-year students, presented their project at "**GenNext Vision 2025**", a project fest for innovators held on March 29, 2025. The event was organized by IFET College of Engineering, Gangarampalayam, Tamil Nadu.
10. Adepu Pranav (23R11A0497), a second-year student won first prize in **Krithoathon 3.0**, a Hackathon held at VNRVJIT, Hyderabad during April 25–26, 2025.
11. Boddu Ajay ( Reg.No.:EC25S61513510) qualified in Gate 2025 with a AIR of 21375.
12. Chilley Ramya ( Reg.No.:EC25S61511255) qualified in Gate 2025 with a AIR of 23982.

## Students' Achievements

### Student Journal Publications:

1. TSSRSB Harateja, a fourth-year student, published a paper titled “**Hardware Programming-Based Embedded System Design Methodology**” in the International Journal of VLSI System Design and Communication Systems (**IJVDCS**), Volume 10, Jan–Dec 2025, Pages 12–20, ISSN: 2322-0929.
2. TSSRSB Harateja, a fourth-year student, published a paper titled “**Recognition of Voice Signals From A Noisy Environment**” in the International Journal of VLSI System Design and Communication Systems (**IJVDCS**), Volume 10, Jan–Dec 2025, Pages 29–32, ISSN: 2322-0929.

### National Service Schemes (NSS) Activities

| S. No | Name of the Activity                                                                             | Date of the Activity           | Organized by / Collaborating Agency / Resource person          | Number of Students/Faculty participated |
|-------|--------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------|-----------------------------------------|
| 1     | Survey for Village Vocational Training                                                           | 24-01-2025                     | NSS unit, GCET                                                 | Students: 25<br>Faculty: 02             |
| 2     | 15 <sup>th</sup> National Voter's Day Celebrations at GHMC, Hyderabad                            | 25-01-2025                     | NSS Unit, GCET in association with JNTUH                       | Students: 25<br>Faculty: 02             |
| 3     | Visit to Bhoodan Pochampally                                                                     | 01-02-2025                     | NSS unit, GCET                                                 | Students: 105<br>Faculty: 15            |
| 4     | Session on Understanding Water Quality: “Safe Drinking Practices and benefits of Alkaline water” | 08-02-2025                     | Environmental Club in association with NSS Unit and IQAC, GCET | Students: 30<br>Faculty: 05             |
| 5     | Pariksha Pe Charcha 2025                                                                         | 10-02-2025                     | NSS unit, GCET                                                 | Students: 15<br>Faculty: 05             |
| 6     | Village Survey ( Under Unnat Bharat Abhiyan - UBA )                                              | 12-02-2025                     | NSS unit, GCET                                                 | Students: 31<br>Faculty: 02             |
| 7     | Teaching Sessions by GCET Students at Govt. Primary Schools in Thimmaipally & Cheeryal           | 07-02-2025<br>&<br>14-02-2025  | NSS unit, GCET                                                 | Students: 20<br>Faculty: 02             |
| 8     | Developing a Model Nutrition and Lifestyle Risk Surveillance System                              | 11-03-2025                     | NSS Unit with ICMR – National Institute of Nutrition (NIN)     | Students: 50<br>Faculty: 01             |
| 9     | Cardiovascular Disease Risk Assessment Camp                                                      | 12-03-2025                     | NSS unit in association with Care Foundation                   | Students: 10<br>Faculty: 02             |
| 10    | Promoting Equal Access to Education for All Students                                             | 08-04-2025                     | NSS Unit in association with JNTUH                             | Students: 05<br>Faculty: 01             |
| 11    | Drug Abuse Awareness Program                                                                     | 28-04-2025<br>to<br>02-05-2025 | NSS Unit in association with JNTUH                             | Students: 05<br>Faculty: 02             |

### College Level Events (Bhaswara - 2K25)

The 18<sup>th</sup> National Level Technical and Management Fest was held on April 15<sup>th</sup> and 16<sup>th</sup>, 2025. The fest featured various events, including paper presentations, project expos, startup pitches, and department-specific competitions. As part of this fest, the Department of ECE hosted six events, coordinated by Dr. U. Appala Raju and Mr. R. Odaiah. Mr. Sravan VMN Medapati, Director of DCX Academy – L&D at Capgemini, Hyderabad, was the chief guest for the event .

#### Winners of the ECE Department Events at Bhaswara'25

| S. No | Date       | Name of the Event                       | Name of the Event Coordinators                    | Prize | Name of the Student   |
|-------|------------|-----------------------------------------|---------------------------------------------------|-------|-----------------------|
| 1     | 15/04/2025 | Paper presentation                      | Dr. M. Jagan Mohan Rao<br>V. Savithri Padma Priya | II    | D. Pranay             |
|       |            |                                         |                                                   | III   | K. Bhavya             |
| 2     | 15/04/2025 | Poster presentation                     | Dr. P. Sudhakar<br>Ms. L. Umamaheswari            | I     | Tanmayi Sri           |
|       |            |                                         |                                                   | II    | V. Hasini             |
|       |            |                                         |                                                   | III   | B. Sai and P. Akshaya |
| 3     | 15/04/2025 | Tech Tangle                             | Mr. A. Shankar<br>Ms. N. Nagalakshumma            | I     | Thummanapelli Punith  |
|       |            |                                         |                                                   | II    | Siddam Soumya         |
|       |            |                                         |                                                   | III   | Indaram Sri Charitha  |
| 4     | 15/04/2025 | Volt Vision                             | Mrs. M. Laxmi                                     | I     | P. Harika             |
|       |            |                                         |                                                   | II    | R. Madhavi Sri        |
| 5     | 15/04/2025 | Electronic-3D<br>Debug Decode<br>Design | Dr. G. Vallathan<br>Ms. B. Sreelatha              | I     | Rhagavendra Reddy     |
|       |            |                                         |                                                   | II    | Sai kiran and Manohar |
|       |            |                                         |                                                   | III   | Abhishek & Sai Pranav |



#### TECHEXPO-2K25:

As part of Bhaswara-2025, the Department of ECE, under IEEE RAS SBC GCET, organized **TECHEXPO'25—a National Level Project Exhibition** on April 15, 2025. The event showcased innovative projects developed by B. Tech students as part of their Mini and Major Projects. Ms. S. Jyothirmaye and Mr. M. Anand were the coordinators for the Tech Expo. Dr. Koduru Ashok Kumar, Associate Professor at Bhoj Reddy Engineering College for Women, graced the event as the distinguished judge. A total of nineteen student teams participated in the Expo, out of which three outstanding projects were selected. Prize money was awarded to the winning teams, and the details are given in the table.

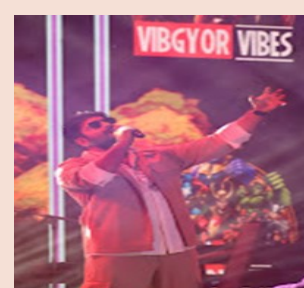
### College Level Events (Bhaswara - 2K25)

| S. No | College Name | Roll Number | Student Name            | Title of the Project                                   | Prize |
|-------|--------------|-------------|-------------------------|--------------------------------------------------------|-------|
| 1     | GCET         | 21R11A04G7  | Pranay Diddi            | Advanced attendance tracking system using Raspberry Pi | I     |
| 2     | GCET         | 21R11A05K0  | R. Harinath Reddy       | TLP Feedback App                                       | II    |
| 3     |              | 21R11A6925  | Abhinav                 |                                                        |       |
| 4     | GCET         | 22R11A04K2  | Yashika Agarwal         | EV battery thermal and health management system        | III   |
| 5     |              | 23R15A0418  | A. Chandra Sekhar Reddy |                                                        |       |
| 6     |              | 22R11A04H1  | Nishitha Maruvada       |                                                        |       |



### VIBGYOR - VIBES – 2K25:

As part of the Annual Day Celebrations, VIBGYOR & VIBES – Cultural Fest organized by the institute from April 16–17, 2025. VIBGYOR 2025 featured a variety of cultural events, including a live performance by popular singer and Indian Idol winner Mr. L.V. Revanth, along with DJ sets by Mrs. Nikita and Mr. AFTERAll. Prof. B. Hari Kumar, Dean - School of Electrical and Communication Engineering, served as the Convener of VIBES 2025, and Dr. G. Sreelakshmi, Associate Professor and Head of the ECE Department, was the Co-Convener. During VIBES'25, prizes were distributed to the winners of cultural events, sports, and academic toppers.



### Departments' Achievements

ECE department has received an extension of NBA Tier-I accreditation for the academic years 2025-2026 to 2027-2028, valid up to 30-06-2028.