



RGM RAYS



RESPLENDENT ACTIVITIES OF YESTER SEMESTER

THE INSTITUTE NEWSLETTER

**Rajeev Gandhi Memorial College of Engineering & Technology
(Autonomous) Nandyal - 518501**

Approved by AICTE-Accredited by NBA, Participated in World Bank TEQIP, Affiliated to JNTU, Anantapuramu

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Dr. M. Santhiramudu, Chairman,
RGM Group of Institutes, at the Inaugural
Ceremony of EV Laboratory in Dept. of EEE
on 18th August, 2025.



Sri B. Chetan Anand, International
Badminton Player, Inaugurating the Indore
Stadium on 06th December, 2026.
Sri. M. Sivaram, MD, RGM CET and other
delegates present @ the ceremony.



Chief Patron

Dr. M. Santhiramudu

Chairman - RGM
Group of Institutions
NANDYAL

EDITORIAL PANEL

Dr. T. Jayachandra Prasad
Principal

&

Dr. Y. Suneetha, Professor

Dr. AK. Gopi Krishna,

Asst. Professor, RGM CET.

RAYS STORY BOARD

❖ AWARDS & HONORS ❖ NICETIES OF THE DEPARTMENTS ❖ FACULTY ACHIEVEMENTS ❖ CAMPUS DRIVE ❖ NSS



PRINCIPAL'S DESK

I'm happy that the newsletter of RGM CET 'RGM RAYS' has been continuously presenting updates of each semester. This semester also ended on a very high note as our College achieving the prime position in the NIRF and NAAC rankings. Being an institution that never rests on its laurels, we continue to progress in our mission of developing and excelling in the areas of pedagogy, research, student progression and innovation. The scholastic initiatives at RGM CET such as Technical Symposia, FDPs, Workshops and Training programs represent a positive step in facilitating internalization and institutionalization of quality enhancement. I appreciate the hard work of the faculty members for their relentless efforts in teaching and research by balancing both domains.

We are moving forward with cutting edge facilities and unique technological features that introduce our students to the future. I would like to reiterate that the academic institutions should drive creativity, innovation, knowledge and community engagement through teaching and research. This will make students attain the best learning experience. Let us take pledge to continue the same efforts and encourage positive changes and innovative ideas.

In RGM CET, we strive to map academic excellence with co-curricular activities which would develop the overall personality of students. In this regard, RGM CET inaugurated the Electrical Vehicle Laboratory for students, it provides and improves EV technical qualities by providing hands-on learning, fostering 21st-century skills, and preparing students for STEM fields.

Best wishes

Dr.T.Jayachandra Prasad
Principal



Mr. B. Chinna Ankanna, Asst. professor, Dept. of Mechanical Engineering received Ph.D Degree from on JNTUA, Anantapuramu, on 05th Dec, 2025. He pursued his research work on **“Experimental Investigation and Numerical Modeling of Plasma Arc Welding Process.”** under the guidance of **Prof. K.Govindarajulu**, JNTUA, Anantapuramu.

Mr. P. Nagaraju, Asst. Professor, Dept. of Computer Science and Engineering received Ph.D Degree from VIT-AP University, Amaravati. He conducted his research work entitled **“Secure Data Outsourcing and Privacy Preserving in Fog Enabled Vanets with Resilient Routing Model and Dynamic Task Allocation”** under the supervision of **Dr. Srinivasa Reddy K**, School of Computer Science and Engineering, at VIT-AP UNIVERSITY, Amaravati on 23rd September, 2025.



Mr. B. Bhaskara Rao, HoD, Dept. of CSE - DS received Ph.D Degree from Visvesvaraya Technological University on 04th July, 2025. He pursued his research entitled “Identification of Suicidal Risk on Social Media Using Machine Learning Techniques” under the supervision of Dr. Chandrakant Naikodi, Professor and Chairman PG Studies, Department of Computer Science, Davanagere University, Davanagere and Dr. Suresh L, Professor and HOD, Department of ISE, RNS Institute of Technology, Bengaluru.

G. Chandana Swathi, Asst. Professor, Department of CSE AI&ML, received Ph.D degree from JNTUA, Ananthapuramu in October, 2025. She carried out her research work on **“An Ensemble of Classification Models for Detecting Botnet Attacks in IOT”** under the guidance of **Dr. G. Kishor Kumar**, HoD, Department of CSE AI&ML, RGM CET.



Engineering is the art of directing the great sources of power in nature for the use and convenience of man.
— Thomas Tredgold



Inauguration of Indore Stadium

Playing sports is a gate way to stay fit and healthy, mingle with people. At the same time sports develop team spirit. In this regard, RGM CET had taken an advance step in inauguration of Indore stadium for students and faculty to enhance fitness.



Sri B. Chetan Anand, International Badminton Player, attended as Chief Guest for the inauguration of the Indore Stadium on 06th December, 2025. **Mr. M. Sivaram**, MD, RGM group of Institutions, Principal **Dr. T. Jayachandra Prasad** and Dean of Administrations **Dr. D V. Ashok Kumar** also accompanied with the chief guest.

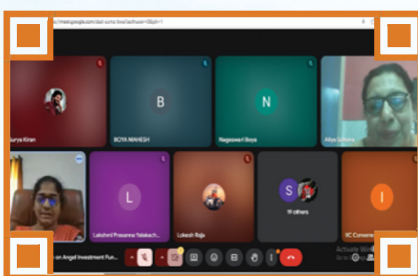
INSTITUTION'S INNOVATION COUNCIL Activities

The IIC conducted an online **“Value Proposition Fit & Business Fit”** program for 59 students on 26th July, 2025. This session focused on aligning a clear value proposition with a viable business models. **Ms B. Shaheen**, Manager of the Women Entrepreneurship Development Cell at Bangalore Bio-Innovation Centre, attended as resource person.



The National Education Policy (NEP) program organized for 125 students on 29th July, 2025. **Dr. P. Balamurali Krishna**, Dean of Research & Development and Professor at Chalapathi Institute of Technology, delivered an insightful talk on the key reforms and implementation strategies under NEP.

A One Day Workshop organized for 253 students on Incubation Opportunities for Students and Early-Stage Entrepreneurs on 30th July, 2025. **Dr. K. Swetha Kumari**, Professor, Padmavathi Mahila University, highlighted the various topics such as budding entrepreneurs, funding, and support systems.



An Online session titled as Angel Investment Funding Opportunity for Early-Stage Entrepreneurs organized for 60 students on 02nd August, 2025. **Dr. P. Jyothi Pattipati**, from Incubation Associate at AIC-SKU, attended and delivered the key aspects of angel funding and investment readiness.

Vanthena 8.0 program organized for students to enhance their innovation and entrepreneurship skills by **Dr. C. Chandramouli**, CEO, along with the team of AIC-SKU, in Anantapuramu from 08th to 12th September.





The IIC and R&D jointly organized a session for 150 students on Ethical Codes of Technical Writing on 24th October, 2025. **Dr. Suneetha Yadav**, Professor, Department of English, RGM CET, attended as speaker. She emphasized the importance of accuracy, clarity, honesty, and responsibility in presenting technical information to ensure reliability and ethical communication in this session.

The IIC Regional Meet initiated in RGM CET on 02nd December, 2025. This meet became a platform for various institutions to share their best practices, achievements, and innovations. During the meet, the RGM CET received the Best Poster Award, and **Dr. P. V. Gopi Krishna Rao** was honoured as the Best Innovation MIC Ambassador. In addition, three innovative projects presented at the regional meet.



The IIC in association with the ECE Department organized a Bootcamp program for 60 Govt. High School Students of Panayam (village) during 29th to 31st December, 2025, to build skills such as foundational skills, creativity, and innovation. The program was guided by **Dr. P. V. Gopi Krishna Rao**, Professor, Department of ECE, RGM CET.



By using this technology properly, we can unlock new possibilities for teaching and learning.

Dan Guo, Associate Director of the Center for Research, Teaching, and Learning at Loyola University New Orleans



Faculty Research Publications in International Journals

- **Dr. Raja Ram** published a paper titled as *“Development of New Ground Motion Prediction Equation for Strong Earthquakes in Iranian Plateau”* in Structures and Buildings, STTBU-2025-006-R2, <https://doi.org/10.1680/jstbu.25.00006>. (E-SCI)
- **Dr. G. Sreenivasulu** published a paper titled as *“Smart solar power Conversion: Leveraging Deep learning MPPT and hybrid cascaded h-bridge multilevel inverters for optimal efficiency”*, in Biomedical Signal Processing and Control, Elsevier, Vol: 105, 2025, 107582, ISSN: 1746-8094, <https://doi.org/10.1016/j.bspc.2025.107582>.(SCIE,IF: 4.9).
- **Dr. M. Sunandana Reddy** published paper titled as *“Application of Geospatial Technology and Water Quality Index in the Assessment of Groundwater Quality”* in Journal of Technology, ISSN: 1012-3407, Vol: 11, Issue:2, National Taiwan University of Science and Technology. <https://www.scopus.com/authid/detail.uri?authorId=57218143997> (Scopus)
- **Dr. Raja Ram** published a paper titled as *“Near-field Ground Motion Intensity Parameters of the Major February 06, 2023, Turkey Kahramanmaras earthquake sequences”* in Geohazard Mechanics in November, 2025. <https://doi.org/10.1016/j.ghm.2025.08.002> (Scopus)

Conferences Papers

- **Dr. K. Venkateswarlu**, presented a paper in 3rd International Conference on Construction Materials and Structures (ICCMS 2025) organized by the Department of Civil & Environmental Engineering, Indian Institute of Technology, Madras, on 03rd July, 2025.

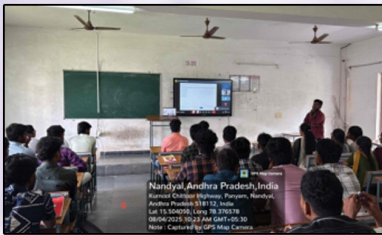
Guest Lectures/ Workshop/FDP's/Technical Quizzes/Field Visits/ Alumni Meet Organized

Organized a Guest Lecture on “Maintenance of Dams and Reservoirs - Role of Structural Engineer” on 19th July, 2025. Er. N. Kannaiah Naidu, Technical Advisor & Managing Director, M/S Balaji Hydro Mech Experts, Hyderabad attended as a resource person.



Organized a One-Day Educational Visit to Indian Space Research Organization (ISRO) (NRSC Outreach Centre) Hyderabad on 25th July, 2025.

Organized a Two-Day Workshop for 56 students on **“Geospatial Technologies in Resource Management (HYBRID)”** from 30th to 31st July, 2025. Mr. Harish Pesara, Scientist/Engineer ‘SF’, NRSC-ISRO, Hyderabad and **Dr. M. Muthu Kumar**, Director I/C, The Gandhigram Rural Institute, Tamil Nadu attended as resource persons.



A Guest Lecture conducted for students on **“BACTERIAL CONCRETE”** in Hybrid Mode on 4th August, 2025. **Dr. K. Vijay**, HoD, CE, Vishnu Institute of Technology, Bheemavaram, delivered the speech.



Organized **“AN ALUMNI 2K25-SHENA MILAN”** program on 14th Aug, 2025 in Civil Gallery. The HOD and faculty members felicitated the alumni students.



Organized a Two-Day Workshop on **“TEKLA SOFTWARE”** for students from 18th to 19th Aug, 2025. **R. Udayshankar**, Managing Director, B.T.R Construction, attended as a resource person.



Organized a Guest Lecture for faculty and students on **“An Overview of Indian Codal Provisions in Civil Engineering”** on 23rd August, 2025. **G. Prabhakar** from NPCIL, Mumbai, attended the program.



A Field Visit initiated for IV B.Tech students on 12th September, 2025. The visit included two industrial locations:
 1. *Ultratech Ready Mix Concrete Plant (Concrete Materials), Kowlur Village.*
 2. *Panyam Railway Station (Steel Components and Structures).*

A Quiz Competition conducted for II, III and IV B.Tech students on the occasion of **“58th National Engineer’s Day”** on 15th September, 2025. The winners received certificates from **Dr. G Sreenivasulu**, HoD.

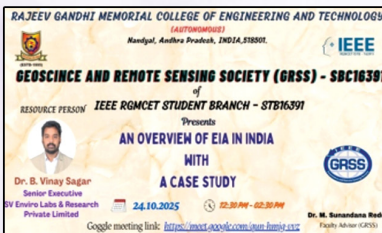


The Department organized a One Day Workshop on **“STAAD.Pro”** for Final Year Civil Engineering Diploma Students of E.S.C. Government Polytechnic, Nandyal on 20th September, 2025. **Dr. C. Raja Ram, Dr. K. Naveena and Dr. K. Venkateswarlu** attended as resource persons.



A One Day Seminar was organised on **“Entrepreneurship Awareness Program”** on 25th September, 2025. **Mr. P. Abdul Khader**, Deputy Manager, NSIC Technical Services Centre-Hyderabad attended as chief guest.

On the occasion of **“International Day for Disaster Reduction – 2025”** a talk was organized on **“Disaster Risk Reduction of Buildings”** on 13th October, 2025. **Dr. Shubham Singhal**, Assistant Professor, IIIT-Hyderabad, provided inputs to the students.



Organized a Webinar on **“An Overview of EIA in India with a Case Study”** in association with Geoscience and Remote Sensing Society (GRSS)-SBC16391E of IEEE RGM CET Student Branch – STB16391 on 24th October, 2025. **Dr. B.Vinay Sagar** was the resource person.

An industrial field visit was conducted for students to **Gorakallu Reservoir**, at on November, 2025. The faculty members are also accompanied with the students.



A Two Day FDP was organized on **“IS 1893:2025 Codal Interpretations and Research Direction: A Modern Approach”**, for faculty members from 8th to 9th December, 2025.

Patents

Ms. T. Shantala, Published a Patent on *“Zingier Officinal Leaf Extract As Corrosion Inhibitor For Reinforcing Steel In Concrete”*, application No. 202541035998A, on 09th May 2025.

Dr. M. Sunandana Reddy, Published a Patent on *“Cloud Guardians: Elevating Security with Probabilistic Graphical Models”*, application No. 202541108876A, on 28th November, 2025.

Workshop/FDP/Seminars attended

Dr. B. Naga Kiran, attended a FDP on *“Empowering NBA Documentation with AI (Smart Tools for Smart Accreditation)”* from 26th to 30th October, 2025, organized by Government Polytechnic College, Kamalapuram.

Mr. K. Bharath Kumar and **Mr. B. Girinath Naik**, attended a FDP on *“Next-Gen Civil Engineering: Trends, Tools & Technologies”* during 27th to 31st October, 2025, organized by Department of Civil Engineering, MVSR Engineering College, Hyderabad.

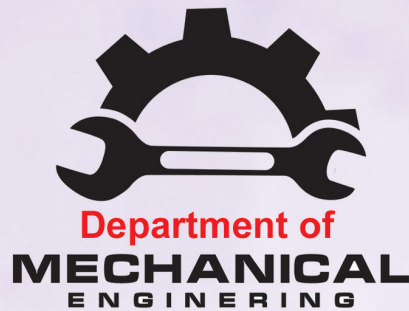
Dr. B. Nagakiran, attended a Five Day FDP on *“Classroom Management Challenges & State of the Art ABL”* held during 1st to 5th December, 2025, organized by Department of Management Studies, St. Joseph College of Engineering and Technology, Thanjavur.

Mr. M. Umamar Basha, attended a FDP on Acharya 10.0 from 9th to 11th December, 2025. The FDP was organized by Atal Incubation Center-Sri Krishnadevaraya University, Ananthapur, A.P.

**Any growth requires a temporary
loss of security**

Madeline Hunter





Faculty Research Publications in International Journals

- **K. Sudha Madhuri** et al. published a paper on *“Engine Response and Emission Optimization of Ceramic-Oxide-Doped Diesel Blends with Reclaimed Waste Energy”*, in the Journal of Fuels”, Vol: 6 Issue:3 on 15th September, 2025. <https://doi.org/10.3390/fuels6030070>. (WOS)
- **Chaithanya K,** et al. published a paper on *“Performance optimization of ethanol blends in diesel model using Taguchi and grey relational approach”*, on 15th October, 2025. <https://doi.org/10.1038/s41598-025-20009-6> (WOS)
- **Upendra Rajak,** et al. published a paper entitled *“Waste to power: Experimental investigation and prediction of fuel injection pressure effect on the outputs of DI-CI engine fed by ternary blends using artificial intelligence”*. In the Journal of Thermal Analysis and Calorimetry. Vol:150, pp.12479–12499, 2025. <https://doi.org/10.1007/s10973-025-14347-w>. (WOS)
- **Upendra Rajak,** et al. published a paper entitled *“Predict the characteristics of the DI engine with various injection timings by Glycine max oil biofuel using artificial neural networks”*. In the Journal of springer Nature, Vol: 32, pp. 19546–19561, 2025. <https://doi.org/10.1007/s11356-024-34429-w>
- **A. Prasanna Kumar,** et al. published a paper entitled *“Investigating the interaction of compression ratio and nanoparticle-doped waste plastic oil-diesel blends in a light-duty engine, Fuels for Sustainable Transportation”*, 1st Edition, Published in 2025 (ESCI)
- **Upendra Rajak,** et al. published a paper entitled *“Predict the characteristics of the DI engine with various injection timings by Glycine max oil biofuel using artificial neural networks”* in the Journal of Environ, Res: 32, pp:19546–19561, 2025. <https://doi.org/10.1007/s11356-024-34429-w>. (WOS)
- **K. Sudha Madhuri,** et al. published a paper entitled *“Mechanical characterization of jute/epoxy composites supplemented with g-C3N4 particles”*, AIP Conf. Proc. 3342, 070022, 2025. <https://doi.org/10.1063/5.0296199>. (Scopus)
- **Syed Altaf Hussain,** et al. published a paper entitled *“An investigation on machinability of titanium (Grade-5) alloy”*, AIP Conf. Proceedings, Vol. 3342, No. 1, Sep. 2025. doi.org/10.1063/5.0296189. (Scopus)

- **Mr. G.V. Satyanarayana**, published a paper entitled *“Energetic and Exegetic in investigation on vapor compression refrigeration system using Ag2O-R134a Nano Fluid as a Refrigerant”*, STM Journals (Journal of Polymer & Composites), ISSN(e): 2321-2810,2025. <http://stmjournalscom/Journal-of-Polymer-and-Composites.html>. (Scopus)

Conferences Papers

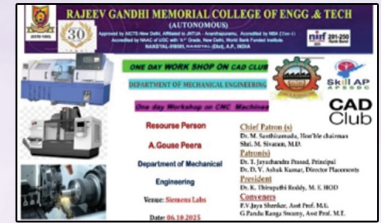
- **Dr. Manoj Panchal** presented a paper entitled *“Pothole Detection and Rule-Based Maintenance Prioritization Using YOLOv8”* at international conference on International Conference on Harnessing Artificial Intelligence for Healthcare & Climate Resilience Path to Sustainable Future (HACER 2025) at IIIT Vadodara.

FDP/ Seminar/ Workshop/ Conference Attended

- **M.Khaja Gulam Hussain** attended in the *“International Conference on Advances in Materials, Design and Manufacturing (ICAMDM-2025)”*, organised by the Department of Mechanical Engineering, SRM University-AP, Amaravati, from 12th to 14th December, 2025.
- **Dr. B. Sidda Reddy**, completed the Six Months AICTE-QIP-PG Certificate Programme in *“Block chain and Data Science”* during June to December, 2025. The program was organized by IIT Patna.
- **Dr. K. Sudha Madhuri**, attended a Six Day online National level Faculty Development Programme on *“Emerging Technologies in Mechanical Engineering towards sustainability”* held from 3rd to 8th November, 2025.
- **Dr. K. Sudha Madhuri**, and **Dr. Upendra Rajak** completed six months AICTE-QIP-PG Certificate Program in *“Cyber Security”* during June to December 2025. The program was conducted by IIIT Dharwad.
- **B. Chinna Ankanna**, attended a FDP on *“Quantum computing”*, from 11th to 18th August, 2025. The program was conjointly organized by RamraoAdik Institute of Technology, D Y Deemed to be University, Navi Mumbai & New Horizon college of Engineering, Bengaluru, Karnataka & KIIT University Bhubaneswar, Odisha.
- **B. Chinna Ankanna**, completed the Six Months AICTE-QIP-PG Certificate Program titled as *“Artificial Intelligence and Data Science”* from June to December, 2025. The program organized by IIIT Kottayam.
- **Mr. P.V.Jayasankar**, attended a Six Day Online National Level FDP on *“Emerging Technologies in Mechanical Engineering Towards Sustainability”* from 03rd to 08th November, 2025. The FDP was organized by Department of Mechanical Engineering, School of Engineering Annamacharya University, Rajampet,

FDP/ Seminar/Conference Workshops Organized

Organized a workshop on **“CAD CLUB”**, with association of APSSDC–SIEMENS TSDI for faculty and students on 06th October, 2025. **Mr. Gouse Peera**, faculty member attended as coordinator for this workshop.



Department organized a Seminar on **“Auto 2-Wheeler Foundation Level and Traffic Rules”** in association of APSSDC SIEMENS TSDI on 13th November, 2025.



Organized a Seminar on **“CNC MILL – Programming and Machining”** with the collaboration of APSSDC SIEMENS TSDI on 18th December, 2025.



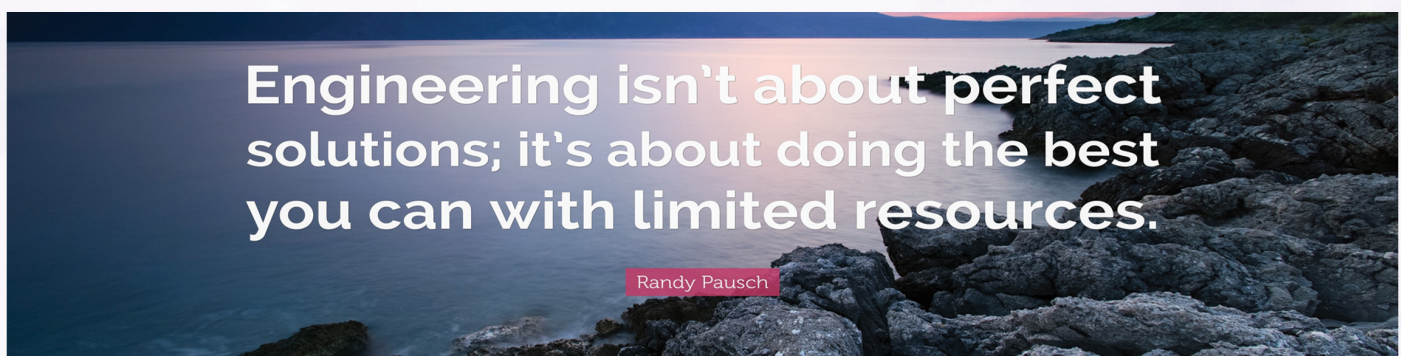
A Workshop organized on **“Advanced Part Drawing in Solid Edge”**, with association APSSDC–SIEMENS TSDI on 25th October, 2025. **Mr. G. Pandu Ranga Swamy** attended as coordinator for the program.



Mr. G.V. Satyanarayana, faculty conducted a One Day Seminar Program on **“Designed and Complex Parts by CNC Turning and Milling Machines using Sinumeric Software”**, on 31st October, 2025.

Book Chapter

Upendra Rajak et al., published Book Chapter entitled **“Performance and emission characteristics analysis of a light duty diesel engine operating on waste plastic oil blended with nanoparticles and diesel fuel (Fuels for Sustainable Transportation Advances, and Applications)”** with ISBN: 978-10-03534-679, on December, 2025, with CRC Press, Taylor Francis.





Department of ELECTRICAL & ELECTRONICS ENGINEERING

Faculty Research Publications in International Journals

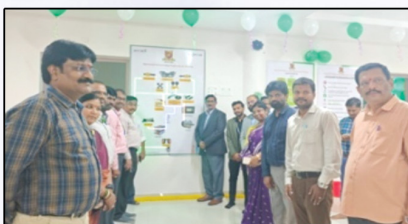
- **Dr. V Naga Bhaskar Reddy**, published an article titled as "*Development and validation of a multi-source bridge dc-dc converter for EV applications,*" in Journal of Engineering and Technology for Industrial Applications, on 31st July, 2025. (Scopus) DOI:10.5935/jetia.v11i54.2118
- **Dr. V Naga Bhaskar Reddy**, published a research paper titled as "*Optimal Sitting and Sizing of Renewable Energy Sources and Electric Vehicle Charging Stations in Smart Grids Using COA Approach*" in International Journal on Electrical Engineering and Informatics, Vol: 17, Number 3, in September, 2025. (Scopus) DOI:10.15676/ijeei.2025.17.3.1

Conference Paper

- **Mr. E. Narasimhulu**, et al., published a paper entitled "*Machine Learning Approach to Predict the Fault in Overhead Transmission Line*" in 11th International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, India, in August, 2025. DOI: 10.1109/ICCSP64183.2025.11089403.

Electrical Vehicle Laboratory Inauguration

An Electrical Vehicle Laboratory was inaugurated for the students and faculty on 18th August, 2025. The lab was inaugurated by the **Dr. M. Santhiramudu**, Chairman, RGM Group of Institutions. Principal **Dr. T. Jayachandra Prasad**, Director **Dr. DV. Ashok Kumar**, Dean **Dr. B. Rami Reddy and Dr. V. Naga Bhaskar Reddy** HoD of EEE, and other faculty members attended for the inauguration event.



Workshops/Conference/Seminars/Guest lectures organized

A One-Day Guest lecture on "*The Wonder Material Graphene*" on 11th December, 2025 in collaboration with IEEE. This event sharpened academic activities of the students. **Dr. Sunipa Roy**, Principal, Krishnagar Women's College, West Bengal was attended as a resource person for this program.





A Virtual Talk on *"Electrical Vehicle deployment strategies"* organized on 18th December, 2025 in collaboration with IEEE. This event sharpened academic activities of the students. **Dr. Pushpendra Singh**, Program Director and Professor, Energy Systems, Atria University, Bengaluru, was attended as a resource person for this program.

A One Day Seminar organized on *"Novel Control Strategies for MLI fed Induction Motor Drives"* on 23rd December, 2025 in collaboration with IEEE. **Dr. T Hima Bindu**, IEEE IES EXCOM Member, attended as a resource person.



A Five Day Value Added Course (VAC) on *"Hands-on Workshop on Power Electronics Converter Design, PCB Fabrication, and Real-Time Testing"* organized for III and IV Year students during 19th to 24th August, 2025.

The Department organized a Faculty Development Programme (FDP) on *"Accelerating Innovation: EV Systems & Smart Mobility"* during 19th to 24th August, 2025. A total number of 36 faculty from RGM CET and other college participated to upskill their knowledge in EV Technology.

Memorandum of Understanding

The MOU established in between EEE and Skyskill Academy, Bhubaneswar on 29th December, 2025 to Facilitate Mutual Collaboration and the Exchange of Training Activities.



Awards Received



Dr. V. Narasimhulu, received the Certificate of Excellence award from International Journal for Modern Trends in Science and Technology, ISSN 2455-3778 in association with Jay Technologies and Research Consultancy, Govt. of India in November, 2025.

Dr. D. V. Ashok Kumar, Professor, was honored with the prestigious award Education Change Maker on 30th December, 2025 at the Bridge 2025 conference organized by ICT Academy, Vijayawada.



Patents

Dr. A. Suresh Kumar, Asst. Professor, published a Patent on "AI-Integrated Smart Grid Controller for Adaptive Load Balancing & Energy Optimization" Application No. 202511066398 A, on 11th July 2025.

Dr. A. Suresh Kumar, Asst. Professor, published a Patent on "Smart Home Renewable Energy Control Device" Application No. 6478405, on 8th August, 2025.



DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

Faculty Research Publications in International Journals

- **J. Sofia Priya Dharshini**, et al., published a paper titled as *"Thermally regulated polymer PCM composites for efficient solar energy harvesting and storage"* Journal of Polymer and Composites, Vol. 13, on 4th July, 2025. <https://doi.org/10.37591/JoPC>. (SCIE)
- **Sayedu Khasim Noorbasha**, et al., published a paper titled as *"A comparative study of fault-tolerant multiplexer-based adders in CMOS 45 nm and QCA technologies."* in Analog Integrated Circuits and Signal Processing, Vol. 125, pp.28, in September. 2025. <https://doi.org/10.1007/s10470-025-02493-y>. (SCIE)
- **Ramanjaneyulu.N**, et al., published a paper titled as *"Optimizing Drain Thickness in Double Material Gate Charge Plasma TFET for Enhanced Vertical and Lateral Performance"* in Transactions on Electrical and Electronic Materials, pp. 1-10, in July, 2025. <http://dx.doi.org/10.1007/s42341-025-00653-5>. (ESCI)
- **Usen Dudekula**, et al., published a paper titled as *"Photovoltaic Performance of Lead-Free Cs2AgBiBr6 Solar Cell with Low Cost CuSCN as HTL from SCAPS Simulation."* Transactions on Electrical and Electronic Materials, pp. 1-10, in July. 2025. <http://dx.doi.org/10.1007/s42341-025-00658-0>. (ESCI)
- **N Ramanjaneyulu**, et al., published a paper titled as *"A Review of PVT analysis of various CMOS current mirror configurations in 180 nm technology"* in Proceedings of the Indian National Science Academy, Vol. 91, Issue.01, pp.1-13, in August, 2025. <https://doi.org/10.1007/s43538-025-00496-x>. (ESCI)
- **Shaik Kashif Hussain**, et al., published a paper titled as *"A Compressed Sensing and Image Encryption based on Adaptive Rossler Hyper Chaotic Encryption for Tamper Localization and Recovery Model."* in International Journal of Image and Graphics, pp.2750058, in August, 2025. <https://doi.org/10.1142/S0219467827500586>. (ESCI)
- **V.N.V. Satya Prakash**, et al., published a research paper titled as *"Efficient Design and Implementation of 21T Ternary Full Adder Based on Capacitive Threshold Logic and CNTFETs"* in Journal of Active & Passive Electronic Devices, Vol. 19, in December. 2025. (ESCI)

Conference Papers

- **Anchula Sathish**, et al., presented a paper titled as *"Analysis of Approximate Multipliers using FinFET"*, in IEEE International Conference on Electronics, Computing, Communication and Control Technology (ICECCC), pp. 1-7, in July 2025. <https://doi.org/10.1109/ICECCC65144.2025.11063810>. (Scopus)
- **P. V. Gopi Krishna Rao**, et al., published a paper titled as *"YOLOv8 Object Detection and Expert-Rule Voice Alerts in a Real-Time Hybrid Transportation Safety System for Multi-Hazard Road Monitoring"* in the 4th International Conference (ICACRS-2025), pp. 103-1031, ISBN: 979-8-3315-4885-8, in 2025. (Scopus)
- **Maheswari, M., J.** et al., presented a paper titled as *"DIBL effect compensation of self-biased CMOS voltage reference using adaptive VGS control"*, in Proceedings of International Conference Advancing Innovation through AI and Machine Learning Algorithms, pp. 164-169. CRC Press, in 2025. <https://doi.org/10.1201/9781003684589>. (Scopus)
- **Ponselvan**, et al., presented a paper titled as *"Detection of multiple artifacts through the application of adaptive scalp region selection and classifier fusion"* in Proceedings of International Conference Advancing Innovation through AI and Machine Learning Algorithms, pp. 307-312. CRC Press, in 2025. <https://doi.org/10.1201/9781003684589>. (Scopus)
- **Rangappa Palle**, et al., presented a paper titled as *"Aquatic image enhancement using weighted wavelet transform"* in Proceedings of International Conference Advancing Innovation through AI and Machine Learning Algorithms, pp. 224-230. CRC Press, in 2025. <https://doi.org/10.1201/9781003684589>. (Scopus)
- **V.Saraswathi**, et al., presented a paper titled as *"Enhanced Beam space Channel Recovery in 1mmWave MIMO Using Deep Neural Network, EAI Endorsed Transactions on Internet of Things"*, in 2025, <https://doi.org/10.4108/eetiot.10247>. (Scopus)
- **Basha, Shaik Asif**, et al., presented a paper titled as *"SVD-based method for high-fidelity color to grayscale image conversion"* in Proceedings of International Conference Advancing Innovation through AI and Machine Learning Algorithms, with CRC Press, 2025. <https://doi.org/10.1201/9781003684589>.

Patents

- **Dr. S V Ratankumar** et al., published a patent on *"Household energy consumption forcecasting and analysis using machine learning techniques"*, Application No. 202541049371, published on 20th June, 2025.
- **Dr. S V Ratankumar** et al., published a patent on *"Cross-Model transformer fusion framework for scalable human action recognition in dynamic environments"*, Application No. 202541070479, published on 01st August, 2025.

Workshops/Conference/Seminars/Guest lectures organized

A Guest Lecture on **“Verilog for ASIC Design: Challenges and Solutions”** organized for III & IV Year B.Tech students on 04th July, 2025. Dr. B. Naresh Kumar Reddy, Assistant Professor, Department of ECE, National Institute of Technology, Tiruchirappalli, Tamil Nadu-620015, India, attended as resource person for the event.

A Guest Lecture organized on **“Image Processing and Machine Learning for Classification”** for II & IV Year B.Tech students on 09th July, 2025. **Dr. R. Vijayarajan**, Associate Professor Grade II, School of Electronics Engineering, VIT Chennai, Tamil Nadu, India, delivered the lecture.



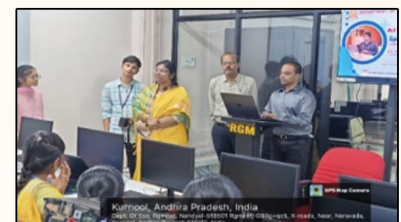
A Session on **“Exploring through Embedded Systems and IoT Applications”** conducted for II Year B.Tech students on 21st July, 2025. **Mr. N. Venkata Reddy**, Founder and CEO, Teckybot and Vihaan Electrix, India, facilitated the novel trends to the students.

A Guest Lecture conducted on **“Fundamentals for Fabrication of Semiconductor Devices”** for IV B.Tech students on 26th July, 2025. **Mr. A. Aditya**, Senior Design Engineer, Mirafra Technology Pvt. Ltd., Bangalore, India, graced the event as a resource person.



A Talk on **“MIMO Antennas for Vehicular and WBAN Applications”** was organized for IV Year B.Tech students on 12th August, 2025. **Dr. B. T. P. Madhav**, Professor and Additional Dean of Research, Koneru Lakshmaiah Education Foundation (KLEF), Andhra Pradesh, India, attended as resource person.

Organized Workshop on **“AI in Medical Applications”** for III & IV Year B.Tech students from 19th to 23rd August, 2025. **Mr. Sai Satish**, Founder and CEO, Indian Servers, Vijayawada, Andhra Pradesh, India, attended as resource person for this program.



The Department organized a Talk on **“Cadence for VLSI: From Schematic to Layout”** for IV B. Tech students on 19th August, 2025. **Mr. Rakesh B. R.** Professional, Entuple Technologies Pvt. Ltd., India, attended and enlisted the students on the topic.



The Engineers' Day celebrated on 15th September, 2025. **Er. G. Sailendra Kumar**, Principal, ESC Government Polytechnic College, Nandyal, graced the occasion and delivered keynote speech. The students, faculty members and HOD attended the program.

"Smart India Internal Hackathon-2025" program organized for all B. Tech students on 22-09-2025. **Dr. B. Rami Reddy**, Dean–Student Affairs, RGM CET, attended as the chief guest and guided the students.



Faculty Research Publications in International Journals

- **Dr. K. Subba Reddy**, et al, published a paper titled as **"Area-Aware Adaptive Image Compression using Dual- Background Classification for Optimized Data Preservation and Quality Enhancement"**, in Archives for Technical Sciences, in 2025. <http://dx.doi.org/10.70102/afts.2025.1833.114>. (ESCI)
- **Dr. M Sravan Kumar Reddy**, et al, published a paper entitled **"Holographic Counterpart technologies into Secure Internet of Things consumer devices to maintain security and Privacy of IoT devices"** in IEEE Transactions on Consumer Electronics (Early Access), ISSN: 0098-3063, on 13th August, 2025, DOI: 10.1109/TCE.2025.3598427. (SCI)
- **Dr. Nalavala Ramanjaneya Reddy**, et al, published a paper entitled **"Quantum secured blockchain framework for enhancing post quantum data security"**, in Scientific Reports, Vol. 15, pp. 1-29, on 23rd August, 2025. <https://doi.org/10.1038/s41598-025-16315-8>. (SCIE)
- **Dr. N Ramanjaneya Reddy**, et al., published a paper titled as **"Implementation of novel learning based energy efficient routing protocols in wireless sensor networks for internet of things use cases."**, in Discover Computing 28, in September 2025. <https://doi.org/10.1007/s10791-025-09718-8>, (SCIE)

- **Dr. N Ramanjaneya Reddy**, et.al, published an article entitled *"Overcoming the Cold-Start Challenge in Recommender Systems: A Novel Two-Stage Framework"*, in Open Computer Science 2025; 15: 20250038, <https://doi.org/10.3390/app14062505>, (ESCI)
- **Mr. V V Nagendra Kumar and Rajeswari D**, published an article entitled *"Machine Learning based Predictive Analysis of Obstructive Pulmonary Disease Progression using Chest X-Rays"*, in IEEE Xplore, 04th September, 2025. DOI:10.1109/SATC65530.2025.11137241, (IEEE Xplore).
- **Dr. N Ramanjaneya Reddy**, et al, published a research paper titled as *"Image-based Failure Detection and Visualization for Material Extrusion using Machine Learning"* in Recent Patents on Engineering Journal, ISSN: 2212-4047, on 03rd July, 2025. DOI:10.2174/0118722121380548250517165252. (Scopus)
- **Mr. C Hrishikesava Reddy**, et.al, published a paper entitled *"Blockchain-Enabled Collaborative Threat Intelligence in IoT Security Using a Hybrid Neural Network Model"* in International Research Journal of Multidisciplinary Scope, ISSN: 2582-631X Vol:6, Issue :3 pp. 889-901, DOI: <https://doi.org/10.47857/irjms.2025.v06i03.04288>. (Scopus)
- **Dr. R. Raja Kumar**, et al., published a research paper entitled *"Exploring Diverse Network Threats on Cyber-Physical Systems"* in Journal of Discrete Mathematical Sciences and Cryptography, ISSN: 2169-0065, on 09th July, 2025. DOI: 10.47974/JDMSC-2340. (WOS)

Conference Papers

- **Dr. Sravan Kumar Reddy M and L Sai Suma** presented a research paper titled as *"Anomaly Detection And Root Cause Analysis In Cloud-Native Micro-services Using Large Language Models And Bayesian Networks"* in the International Conference, on Sustainable Developments In Computer Engineering, Green Technology & Smart Systems (ICSDS-2025) during 20th to 21st December, 2025, organized by Hooghly Engineering & Technology College, Hooghly, West Bengal.
- **Dr. R. Raja Kumar and Kuppala MadhuSudhan** presented a research paper titled as *"Machine Learning-Based Handwriting Analysis for Early Alzheimer's Disease Identification"* in IEEE International Conference on Data, Energy and Communication Networks, 2025, organized by Oriental Institute of Science & Technology, Bhopal.

FDP/ Seminar/ Workshop/ Conference Attended

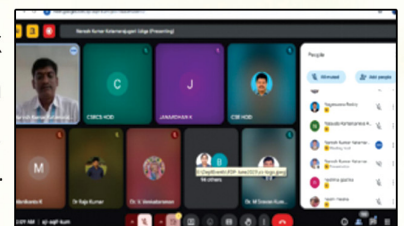
- **Mr. P. Naveen Sundar Kumar** attended in a Five-Day FDP on *"Machine Learning and Deep Learning"* organized by Department of Emerging Technologies in Computer Science and the Department of CSE, GPREC, Kurnool, in association with the Faculty Development Centre, JNTUA, Ananthapuramu, from 07th to 11th July, 2025.

- **Mr. M. Ravi Kumar, Dr. S Subba Lakshmi, Mrs. P Sucharitha** and **Mrs. D Sravanthi** participated in a One Week National Level Faculty Development program on **"Cloud-Enabled Deep Learning with Enhanced Security Protocols"** organized by the Dept. of CSE & Cyber Security RGM CET, from 23rd to 27th June, 2025.
- **Mr. B V Chandra Sekhar, Dr. B. Rama Subbaiah,** and **Mr. M. Ravi Kumar** attended a FDP on **"Cloud Computing"** organized by the J B Institute of Engineering & Technology, Hyderabad and GITA Autonomous College, Bhubaneswar, from 14th to 18th March, 2025.
- **Mr. M. Ravi Kumar,** and **Mr. B V Chandra Sekhar** participated in a One Week National Level Faculty Development Program on **"Quantum Computing"** organized by the New Horizon College of Engineering, Bengaluru, Karnataka, in Collaboration with ExcelR Edtech Pvt. Ltd., during 11th to 18th August, 2025.
- **Dr. R Raja Kumar,** attended FDP on "QT-07 Quantum Sensing" in July, 2025. The program was jointly organized by various Academic organizations and funded by MeitY and endorsed by DST - NQM / AICTE / UGC.
- **Mr. V V Nagendra Kumar** attended a Webinar on **"Generative AI Applications in Engineering"**, organized by Dept. of ME, Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam in association with Pencilbitz, on 28th October, 2025.
- **Mr. M. Ravi Kumar** and **Mr. K. Janardhan** participated in Five Day National Level Faculty Development Program on **"Frontiers of Quantum Computing: Innovations and Applications in Contemporary Science and Engineering"** organized by Dept. of CSE, Annamacharya Institute of Technology & Sciences, (Autonomous), Kadapa, from 03rd to 07th November, 2025.
- **Dr B Rama Subbaiah** participated in a Six Day National Level FDP on **"Emerging Trends and Challenges in Cyber Security"** organized by Department of Computer Science and Engineering, Gurunanak Institute of Technology, Ibrahimpatnam, Telangana, from 10th to 25th November, 2025.
- **Mr.C Hrishikash Reddy,** participated in a Six Day FDP on **"LLM's and Gen AI"** organized by Dept. CSE (AI & ML), CVR College of Engineering, Telangana, from 17th to 22nd November, 2025.

Workshops/Conference/Seminars/Guest lectures organized:

The Dept. of CSE and Cyber Security jointly organized a One Week National Level Online FDP on "Cloud Enabled Deep Learning with Enhanced Security Protocols", held from 23rd to 27th June, 2025. Dr. C. Shoba Bindu, JNTU, Ananthapuramu, Dr. K. Nagaraju, IIITDM – Kurnool, Dr. Dharmendra Singh Rajput, VIT-Vellore, Dr. G. Bala

Murugan, SRM University, Chennai, Dr. K. E. Naresh Kumar, GITAM, Vizag attended as resource persons for the program. The total of 210 participants attended for the FDP. Dr. M. Sravan Kumar Reddy and Dr. R. Kaviarasan, attended as a faculty coordinators for the event.





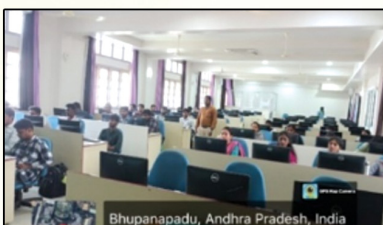
A One Day workshop on **"Hands-on Session on Emerging Technologies in Cloud Computing"** organized for Eight Two students on 26th September, 2025. **Dr. K. K. Baseer**, Associate Professor in CSE, GITAM, Bangalore attended as a resource person.

A Two Week Workshop on **"SAP S/4 HANA-ABVP-"** organized for Fifty II & III B. Tech students from 10th to 24th December, 2025. **Mr. Ganapathi Adimulam**, Corporate Trainer, attended as resource person.



A One Day Online Guest Lecture held on **"Automation CI/CD Optimization"** for III & IV B. Tech students on 26th July, 2025. **Mr. Murali Krishna**, Technical Lead and Product Owner, Present Company: Mercedes-Benz, Bangalore, was attended as resource person.

A One Day Guest Lecture was conducted on **"Foundations & Future of Robotics with IoT Integration"** for III & IV B. Tech students on 24th July, 2025. **Mr. S. Sunil Kumar**, Managing Director, UNIFIRST Robotics, Bangalore, attended and delivered the lecture.



A One Day Guest Lecture was held on **"Secure Data Transmission in IOT-Enabled MANET's"** for IV B. Tech students on 02nd August, 2025. **Dr. L Raghavendra Raju**, Associate Professor, Department of CSE, Matrusri Engineering College, Hyderabad, attended and give away the inputs.

A One Day Online Guest Lecture organized on **"Designing for Agility: Principles and Practices of High-Quality Software Design in Agile Teams"** for II B. Tech students on 22nd August, 2025. **Dr. Manoj H.M.**, Associate Professor, Dept. of AIML, BMS Institute of Technology and Management, Bengaluru, attended and delivered talk for students.



A Ten Day Guest Lecture program conducted for I B. Tech students from 25-11-2025 to 04-12-2025 on **"Introduction to Programming"**. Mr. Shyam Sundar, BYTES, Coimbatore, at CSE Labs in association with IEEE Computer Society, attended as a resource person and **Dr. K Subba Reddy**, HOD, attended as a Convener for the event.

A Two Day Training Program on **"Foundation models of GEN-AI Real world Applications"** organized for Eighty IV B. Tech, from 24th to 25th July, 2025. **Mr. M. Gangadhar Reddy**, CEO Kydre software solutions Pvt., Ltd. attended as the resource person and Mr. K. Viswanath, attended as a Coordinator for the program.



A Two Day Training Program organized for II and III B. Tech students on 11th and 12th August, 2025, on **"Industrial Applications through Mern Stack"**. **Mr Ajith Kumar Gurram**. ORCADE HUB Pvt. Ltd. from Hyderabad, trained the students and **Dr. R. Raja Kumar**, attended as a Coordinator for the event.

A One Day Training Program on **"Scope for MCA Post-Graduates in MNCs & Awareness on Preparation of Resume"** conducted for III B. Tech students on 09th October, 2025. **Mr. Rajendra Chenna**, Test Engineer, QualityKiosk Technologies Pvt. Ltd., Bangalore, Alumni student of MCA, RGM CET, delivered the speech and Mr. V V Nagendra Kumar, attended as a coordinator for this event.



The Department of CSE and MCA collaboratively organized a Training Program on **"Path to Placements"** for the 160 CSE & CSE AIML students, on 09th October, 2025. S. Pradeep and **S. Sai Sandeep**, ECE of SPARC Foundations & GSA Program Head of AP, attended as resource persons and Mr. P. Naveen Sundar Kumar & Dr. M. Sravan Kumar Reddy, attended as program coordinators for this program.



A One Day Talk organized on **"Career Path and Job Opportunities with AI in the Next Five Years"**, for Seventy Eight II B. Tech and MCA students on 6th December, 2025. **Mr. Ajeet K Goyal**, Deputy General Manager - India, Redington, CSE Labs in association with EduSkills, attended as resource person.



A One Day Career Talk organized for the Sixty Two II B. Tech students on **"From Degree to Employability: Skills That Get You Hired in India"** on 22nd December, 2025. **Mrs. Pratibha Singh**, Business Development Lead- India- Education Programs Strategy & Field AWS Training and Certification, at CSE Labs in association with EduSkills, guided students.





A One Day Career Talk on *“You Should be CoPilot to Business”*, conducted for II B. Tech & MCA students on 24th December, 2025. **Mrs. Prerna Ranjan**, Vice President Global Partnership & Business HR Head, DAAMCO, at CSE Labs in association with EduSkills, attended as resource person.

Books and Book Chapters Published

- **Dr N Madhusudhana Reddy**, et al., published a Book on *“Data Warehousing and Data Mining”*, with ISBN: 978-93-47231-06-3, on December, 2025.
- **Dr. M. Ayyavaraiah**, published a Book entitled *“Mastering Machine Learning: Tools, Techniques, and Applications”*, with ISBN: 978-8-19-865617-9, VAAGA Publications, August, 2025.
- **Mr. Alabazar Ramesh**, et.al., published a Book Chapter on *“Advancing Innovation through AI and Machine Learning Algorithms”* in AI Powered Facial Recognition for Secure Banking Authentication, with ISBN:978-1-04-116427-2, pp. 24-27, in 2025. DOI: <https://doi.org/10.1201/9781003684589>.
- **Mr. K. Janardhan**, et al., published a Book Chapter on *“PhishGuard – Fake Website Detection Using Machine Learning”*, in Advancing Innovation through AI and Machine Learning Algorithms, with ISBN: 9781041164272, pp. 43–48, in 2025.
- **Mr. K. Viswanath**, et al., published a Book Chapter on *“Prediction of chronic kidney disease using machine learning”* in Advancing Innovation through AI and Machine Learning Algorithms, with ISBN: 9781041164272, pp. 49–56, in 2025.
- **Mr. G Rajasekhar Reddy**, et al., published a book chapter on *“Voice enabled desk assistant for the visually impaired ”*, in Advancing Innovation through AI and Machine Learning Algorithms, with ISBN: 9781003684589, pp.150–155, in 2025.
- **Mr. K R Harinath**, et al., published a Book Chapter on *“End-to-end AI framework for soil fertility,crop growth and disease mitigation”*, in Advancing Innovation through AI and Machine Learning Algorithms, with ISBN: 9781041164272 , pp. 1–8, in 2025.
- **Mr.K R Harinath**, et al., published a Book Chapter on *“Highly accurate calories burn prediction using XGBoost regression model”*, in Advancing Innovation through AI and Machine Learning Algorithms (Routledge), with ISBN: 9781041164272, pp. 9–14, in 2025.
- **Mr. V. Ravi Kanth**, et al., published a Book Chapter on *“Real time Driver Drowsiness Detection And Alert System Using Dlib And Opencv”*, in Advancing Innovation through AI and Machine Learning Algorithms (Routledge), with ISBN: 9781041164272, pp.368–37, in 2025.

- **Dr. P Prathap Nayudu**, et al., published a Book Chapter on *“Performance comparison of machine learning algorithms in predicting telecom customer attrition”*, in Advancing Innovation through AI and Machine Learning Algorithms (Routledge), with ISBN: 9781041164272, pp.30-36, in 2025.
- **Mrs. B. Swetha**, et al., published a Book Chapter on *“Enhancing Autonomous Safety”* in Advancing Innovation through AI and Machine Learning Algorithms (Routledge), with ISBN: 9781041164272, pp. 57-61, in 2025.
- **Dr. K. Narasimhulu**, et al., published a Book Chapter on *“A Comparative Analysis of Supervised Machine Learning Algorithms for Heart Attack Prediction”*, Advancing Innovation through AI and Machine Learning Algorithms (Routledge), ISBN: 9781041164272, pp. 67-72, in 2025.

Awards and Honours

- **Dr K Subba Reddy**, HoD of CSE, received an awarded titled *“Google Certified Educator”* on 04th December, 2025.
- **Dr. B. Rama Subbaiah**, Faculty received an award titled *“Jyestha Acharya-Recognizing Exemplary Contribution of Research & Education Sector- 2025”* from Bharat Education Excellence Awards, presented by Brain O Vision in November, 2025.

Patents

- **Dr K Subba Reddy**, et al., published a Patent on *“Intelligent medical imaging diagnosis using deep learning”*, Indian Patent Application No: 202541080032, on 29th August, 2025.
- **Dr. N Madhusudhana Reddy**, et al., published a Patent on *“Intelligent traffic flow optimization using real-time machine learning algorithms,”* Indian Patent Application No: 202541074344 A, on 22nd August, 2025.
- **Dr. Rajaboina Raja Kumar**, et al., published a Patent on *“A machine learning based predictive maintenance system for industrial Equipment Health Monitoring”*, Indian Patent Application No: 202541075033 A, on 22nd August, 2025.
- **Dr. M. Sravan Kumar Reddy**, et al., published a Patent on *“Anomaly Detection in IoT Networks using ensemble machine learning models”*, Indian Patent Application No: 202541075032 A, on 22nd August, 2025.
- **Dr Ayyavaraiah M**, et al., published a Patent on *“Intelligent AI-Based Predictive Maintenance System for Industrial Equipment”*, Indian Patent Application No. 202541074345 A. on 22nd August, 2025.
- **Dr. P. Sreedevi**, et al., published a Patent on *“AI-driven real-time traffic flow optimization and incident detection system”*, Indian Patent Application 202541075339, on 29th August, 2025.

- **Dr. K. Narsimhulu**, et al., published a Patent on *“Smart wearable health monitoring system with AI-driven alerts,”* Indian Patent Application No. 202541077989, on 29th , August, 2025.
- **Mr.V V Nagendra Kumar**, et al., published a Patent on *“AI-Based Pest Infestation Monitoring cameras”*, by UK Design, Intellectual Property Office, Application No. 6490800 on 18th December, 2025.
- **Mr. B.V. Chandra Sekhar**, et al., published a Patent on *“Rank-E++: An Enhanced Explainable AI Framework for Detecting Multi-Stage Persistent Threats in Enterprise Networks”*, Application No. 202541106082, Indian Patents, in December, 2025.

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING



Faculty Research Publications in International Journals

Books Published

- **Dr. G. Kishor Kumar**, published the Book titled as Exploring Data Science: Concepts, Techniques and Tools on Machine Learning, published by IIP on 28th July, 2025. <https://amzn.in/d/0b2qTmN7>

Conference Paper

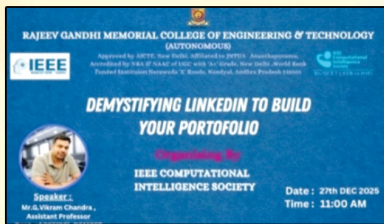
- **Dr. G. Chandana Swathi** presented paper on *“Development of an Interactive Simulation Platform for BB84 and E91 Quantum Cryptography Protocols with Integrated Security Analysis”* in 6th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS), organized by T. John Institute of Technology, Bengaluru during 15th to 17th December, 2025.

Workshops/Conference/Seminars/Guest lectures organized

The II National Level Student Technical Symposium – **RIPPLE 2K25 AMOGHA** organized from 19th to 20th September, 2025. The event provided platforms for showcasing technical innovations, research presentations and interactive workshops for 600 students. **Dr. G. Kishor Kumar**, HOD, attended as a convener for the program

A Session organized on *“MS for Career Growth: Specializations, Skills and Future Trends”* on 19th December, 2025 in association with IEEE Computational Intelligence Society. **Mr. Sameer**, MS in US as attended and provided inputs to the students.





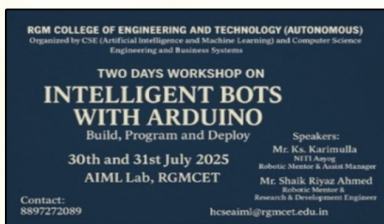
A Session structured on **“Demystifying LinkedIn to Build Your Portfolio”** in association with the IEEE Computational Intelligence Society on 27th December, 2025. **Mr. G. Vikram Chandra**, Assistant Professor, as attended as resource person.



A session was conducted on **“Awareness on Software Placement Readiness”** on 29th December, 2025, for III B.Tech students in association with IEEE Computational Society. **Dr. B. Thimma Reddy**, Associate Professor, GPREC, Kurnool, attended as resource person.



A One Day session was organized on 30th December, 2025, in association with IEEE Computational Society on **“Postman Essentials Hands On Api Testing For Future Engineers”** for III B.Tech students. **Mr. A.Venkata Subbaiah**, Full Stack Developer attended as a resource person.



A Two Day workshop was organized on **“Intelligent Bots with Arduino: Build, Program and Deploy”** for II B.Tech students from 30th and 31st July, 2025. **Dr. G.Kishor Kumar**, HOD, was the coordinated for the program.



A One Day Work Shop on **“In-House Training Session on DOBOT MAGICIAN”** on 27th December, 2025 in association with IEEE Computational Intelligence Society. **Dr. G. Kishor Kumar** attended as resource person and provided insights to the students in this workshop.



“Technoxian World Cup 2025 9.0”
Dr. G.Kishor Kumar and Mr. V.P.Hara Gopal, attended the program along with students held at Noida, New Delhi from 30th August to 2nd September, 2025.

Mr. V.P. Hara Gopal and Ms.K.Jabeen attended in ROSCon India 2025 Robotics conference at COEP Technological University (COEP Tech), Pune, from 18th to 20th December, 2025.

DEPARTMENT OF CSE CYBER SECURITY



Faculty Research Publications in International Journals

- **R. Kaviarasan**, et al., published an article titled as *“Improved Grasshopper Optimization With Distance Vector Hop Relay Model for Effective NLOS Localization in VANETs”* in International Journal of Communication Systems, Vol: 20, in March, 2025. DOI: <https://doi.org/10.1002/dac.70063>. (SCIE).
- **R. Kaviarasan**, et al., published an article titled as *“Monochromatic LeafAdaptNet (MLAN): An adaptive approach to spinach leaf disease detection using monochromatic imaging”*, in World J Microbiol Biotechnology, Vol: 41, Issue: 255, on 08th July, 2025. <https://doi.org/10.1007/s11274-025-04442-3>. (SCIE)

FDP/ Seminar/ Workshop/ Conference Attended

- **Mr. Syed. Muzibuddin, Mr. D. Abhishek Victor and Mr. G C Kesava Reddy** attended a Six Day FDP on *“Prompt Engineering and ChatGPT Utilization”* organized by KKR & KSR Institute of Technology and Science, in Association with Techno Future India, during 14th to 19th July, 2025.
- **Mr. Muneiah Tellakula** attended a FDP on *“GEN AI and AGENTIC AI”* organized by the MIT Academy of Engineering Alandi, Pune, and Ramaiah Institute of Technology-Department of Management Studies, Bangalore with ExcelR Edtech Pvt. Ltd from 09th to 27th June, 2025.
- **Dr. D. Raghunath Kumar Babu**, attended a One Week Online FDP on *“Reimagining Media Education: The Role of Artificial Intelligence in Transforming Educational Practices”* organized by Institute of Media Studies, SRMU college, Lucknow, from 14th to 19th July, 2025.
- **Mr. Syed. Muzibuddin** attended a One Day FDP on *“Lean Six Sigma white Belt training Program and Quantum Computing AI, Cybersecurity, ML and IoT”* organized by JNTU Anantapur, on 12th August, 2025.
- **Mr. Muneiah Tellakula**, attended a FDP on *“Foundation of Quantum Computing and Application”* organized by APSCHE, MNIT Jaipur and ICT Academy from 18th Aug, to 11th Sep, 2025.
- **Mr. S Muzibuddin**, attended a Two Day FDP on *“Introduction To Quantum Technologies and Applications”* held at JNTUA, from 14th to 15th October, 2025.

- **Mrs. C K. Indira** attended a 12 Week NPTEL-AICTE Faculty Development Program on **“Cyber Security and Privacy”**, from July to October, 2025.
- **Mr. S Muzibuddin, Mr. G Chenna Kesava and Ms. K. Srujana** participated in a Five Day FDP on **“Augmented Reality and Virtual Reality”** organized by Dept. of CSE (Cyber Security), RGM CET, from 06th to 10th October, 2025.
- **Mr. S Muzibuddin, Mr. G Chenna Kesava and Mr. D Victor Abhishek** attended a Five Day FDP on **“Frontiers of Quantum Computing: Innovation and application in contemporary science and engineering”** organized by Annamacharya Institute of Technology and Science Kadapa, from 03rd to 07th November, 2025.
- **Mr. Deva Victor Abhishek and Mr. G Chenna Kesava** attended a Five Day National Level FDP on **“Next-Gen Farming: Leveraging Quantum Technologies for Agri- Innovation”** organized by Annamacharya Institute of Technology and Science, Kadapa, from 17th to 21st November, 2025.
- **Mr. D. Victor Abhishek**, attended a 12 Week NPTEL-AICTE Faculty Development Program on **“Cloud Computing course”** from July to Oct 2025.
- **Mr. G Chenna Kesava**, attended a Ten Day Online International FDP on **“Transforming Research into Quality Publication: Tools, Techniques & Practices”** organized by Annamacharya University, Kadapa, from 30th Oct. to 08th Nov. 2025.

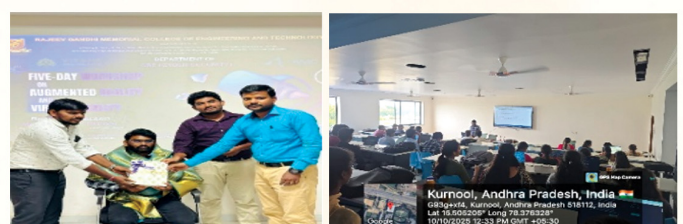
Workshops/Conference/Seminars/Guest lectures organized

An Online Session organised on **“Introduction to Cyber Security and Best Practices”** for II & III year students on 10th July, 2025. **Dr. T. Sampath Kumar**, Associate Professor & Associate Dean, Dept. of CS, SR University, Warangal, Telangana, attended as a resource person and guided the students.



One Day an Online talk organised for 80 II, III & IV students on **“Securing Drone networks: A game theoretic perspective”** on 11th September, 2025. **Dr. A. Ilavendhan**, Assistant Professor, School of Computer Science and Engineering, VIT, Chennai Campus, attended as a resources person.

A Five Day Workshop on **“Augmented Reality and Virtual Reality”** organised from 06th to 10th October, 2025 in in association with Visha Tech Solutions, Hyderabad.



An Online Session conducted on ***“Click Safe, Code Smart and get Placed”*** for II & III year students on 09th September, 2025. **Dr. R. Kalaiyaran**, Associate Professor, Department of ECE, Sri Manakula Vinayagar Engineering College(A), Puducherry, attended as resource person and delivered insights to the students.

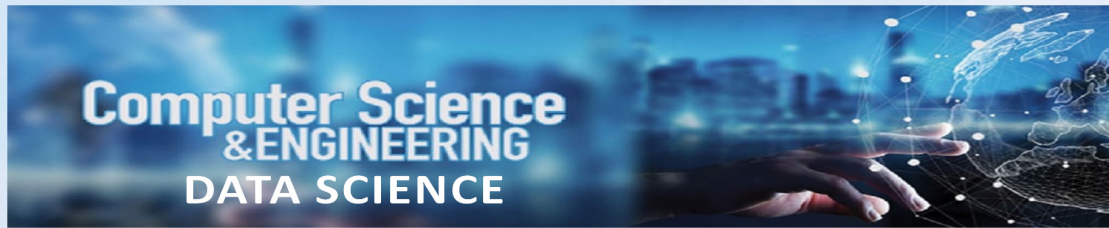
An Online Session organised on ***“Cyber Threat Intelligence & Incident Response OSINT (Open-Source Intelligence) for Cybercrime Investigations”*** for II, III & IV year students on 7th October, 2025. Mrs. P. Suriya, Teaching Cum Research Officer (IT/Cyber Security), Rashtriya Raksha University, Puducherry Campus, attended as a resource person.

Patents Published

- **Dr. R. Kaviarasan**, published a Patent on ***“AI-Powered Virtual Assistant for Real-Time Exam Preparation”***, Application No.202541077967, on 29th August, 2025.
- **Dr. D. Raghunath Kumar Babu**, published a Patent on ***“AI-Driven Synthetic Biology designing Novel Organisms for Environmental Remediation”***, on 22nd August, 2025.

Books Published

- **Mr. Deva Victor Abhishek and Mr G C Kesava Reddy** published a Book Chapter titled ***“A Study On Customer Behavior Towards Online Shopping”*** on 15th August, 2025, in book India @75 Multidisciplinary reflections on past, present & future, with ISBN : 978-81-987676-4-6, with Eagle Leap Publications.
- **Mr.Muneiah Tellakula** contributed a Book Chapter on ***“Indian Knowledge Systems: A Multidisciplinary Approach”*** in September, 2025, in the book A study of Awareness towards Digital Payments Among Customers, with ISBN:978-81-990084-9-6.
- **Dr. R. Kaviarasan**, published a Book Chapter on the topic ***“Internet Of Things (Iot) Data Visualizations For Business Insight In Finance Industry”*** in the book AI-Powered Cyber security for Banking and Finance How to Enhance Security, Protect Data, and Prevent Attacks in December, 2025, with ISBN: 9781032980669, in Taylor and Francis Group.
- **Mr. G C Kesava Reddy**, published a Book Chapter titled ***“Smart Sensors And Iot-Enabled Devices For Real-Time Monitoring In Environmental, Biomedical, And Civil Engineering With Data Analytics And Machine Learning”*** in Advanced Materials for Biomedical Devices Insights from AI and Nanotechnology, ISBN: 9781041096931, Taylor and Francis Group.



Faculty Research Publications in International Journals

- **Dr. M. Sri Raghavendra** published a paper entitled *“Knowledge Improve Hybrid Driven DNN-KAN Framework for Intrusion Detection in Wireless Sensor Networks”*, in IEEE Access, in July, 2025. DOI: 10.1109/ACCESS.2025.3586783
- **Dr. P. Kiran Rao**, published a paper entitled *“AI-Driven Dynamic Resource Allocation for IoT Networks Using Graph-Convolutional Transformer and Hybrid Optimization”*, in IET Software, in July, 2025.
- **Dr. B. Bhaskara Rao and Mr. P. Kiran Rao**, published a research paper titled as *“AI for Equitable Urban Water Distribution: A Synthetic Data-Driven Approach for Smart Indian Cities”*, in Proceedings of IEEE INDISCON, pp. 21–23, in August, 2025. DOI: 10.1109/INDISCON66021.2025.11251777
- **Dr. P. Kiran Rao**, published a paper entitled *“CasualX-Net: Causality-guided explainable segmentation network for brain tumors”*, Frontiers in Medicine, in 2025. (SCI)
- **R. Arshiya**, published a paper entitled *“Area-Aware Adaptive Image Compression Using Dual-Background Classification for Optimized Data Preservation and Quality Enhancement”*, in Archives for Technical Sciences, in September, 2025. DOI: <https://doi.org/10.70102/afts.2025.1833.114>
- **Mr. P. Kiran Rao**, published a paper titled as *“Enhancing Computation and Security in MEC-Aided IoT for Medical Imaging with QCNNs and Post-Quantum Cryptography”* in Internet of Things, ISSN: 2542-660, on 30th October, 2025. (Elsevier) DOI: <https://doi.org/10.1016/j.iot.2025.101810>
- **C. Supraja**, published a paper entitled *“Optimizing Financial Forecasting: The Power of Reduction Approach. Applied Finance & Technology Studies”*, in Original Scientific Article, ISSN: 2233-0046, on 30th October, 2025. DOI: <http://dx.doi.org/10.70102/afts.2025.1833.453>
- **P.V. Prasanna Kumari**, published a paper titled as *“Artificial Intelligence Techniques for Optimizing Solar and Wind Energy Production Based on Weather Patterns”* in Journal of Mines and Fuels, in December, 2025. DOI:10.18311/jmmf/2025/50187
- **Dr. Samunnisa**, published a paper titled as *“Cyber Security Threat Modeling for Machine Learning Systems: An Asset-Centric Approach with Trust Boundaries and ownership Roles”* in Journal of Hacking Techniques, on 25th December, 2025.

FDP/ Seminar/ Workshop/ Conference Organized

A One Day Seminar organised on **“Data Quality and Ethics in the Real World”**, for II B.Tech students on 21st July, 2025. **Mr. N. Kalyan Kumar**, Associate Data Scientist and Snowflake Certified Professional, attended as a resource person.



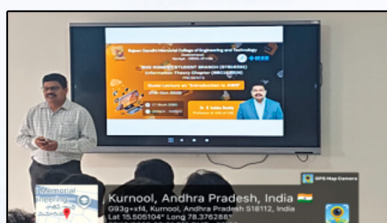
A One Day Seminar organised on **“Blockchain in Supply Chain Traceability and Transparency”**, for IV. B.Tech students, on 04th August, 2025. **Dr. S. M. Farooq**, Asst. Prof, VIT University, Vellore, attended as a resource person.

A One Day Workshop organised on **“Real-World Experience with Grafana and Prometheus in a Micro services World”**, for III B. Tech students, on 11th August, 2025. **Mr. D Manjunath**, Senior DevOps Engineer, Redica Systems and Mr. G Kedarnath, Senior DevOps & SRE-TransUnion, attended as resource persons.



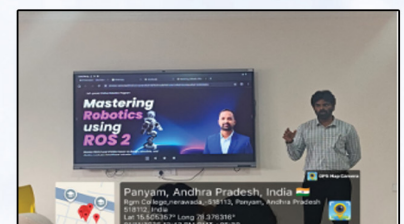
A One-Day Session organised on **“FOSS Workshop Series”** for III B. Tech students and faculty on 08th October, 2025. **Mr. Sai Rahul Poruri**, CEO, FOSS, was attended as a resource person and guided the students and faculty members.

A One-Day Workshop organised on **“From Prompts to Autonomy: Building Intelligent Agent Workflows”** on 14th October, 2025. **Dr. Narasimhulu Yeggoli**, NXTGen R&D, TCS, attended as a resource person.



A One Day Seminar conducted on **“Introduction to AWS”** for students on 27th October, 2025. **Dr. K. Subba Reddy**, Professor, CSE & IEEE Senior Member, attended as a resource person.

A One Day Workshop organised on **“ROS in Action: Robot with Magician”** for III B. Tech students on 01st November, 2025. **Dr. G. Kishore Kumar**, HOD of AI ML, and discussed the robotic techniques in the program.



A Two Day a Session organised on **“a2-Day Bootcamp focused on the foundational and cutting-edge topics of Generative AI, Retrieval-Augmented Generation (RAG) Systems, and Agentic AI”** on 19th and 20th December, 2025 for II and III Year students. **D.S. Mr. Sadhu Sreenivas**, Scientist E, C-DAC Hyderabad, enlighten the students on the topic.



“RIPPLE ADVITYA 2K25”

A National Level Technical Symposium organised on 17th October, 2025. On this occasion, events such as Quizon, Papervate, Posterium, Devnest, and Graphinity conducted for students.

An Industry–Institute Interaction: CONNECT with LPDG – Leadership organised with **Mr. Matthias Hinkelmann**, Managing Director and **Mr. N. Ranjith**, Director, Bigdata+Data Science from LPDG, Germany on 15th November, 2025. The faculty members and students took part in this interaction.



An **Industry–Institute Interaction program** was inaugurated in association with the UiPath Student Development Centre (SDC) on 19th August, 2025. **Mr. Abhijit Sreenivas** (UiPath Academy, APJ) and **Mr. Kalyan Raghavan** Iranganti (UiPath Hyderabad) attended as industry experts. This interaction emphasized the UiPath Academic Alliance initiatives, certification pathways, and industry applications of Robotic Process Automation (RPA).

An Industry–Institute Interaction organised with Women in Data Science (WiDS) on 13th August 2025. The industrial experts **Mrs. Radhika Kannan** (Intuit) and **Ms. Usha Rengaraju**, Chief Data Scientist attended as resource persons and given insights on real-world applications of data science, industry expectations, career pathways, and emerging trends and practical data-driven problem solving to strengthen collaboration between academia and industry.



Fifteen members of student team attended a workshop on PyCon India 2025 held at Bengaluru from 12th to 15th September, 2025. The team presented a poster titled as **“Qubits Meets Heartbeats”** on this occasion, and the students explored to the Python programming, data science, AI, machine learning, cloud computing, automation, and open-source technologies through keynote sessions.



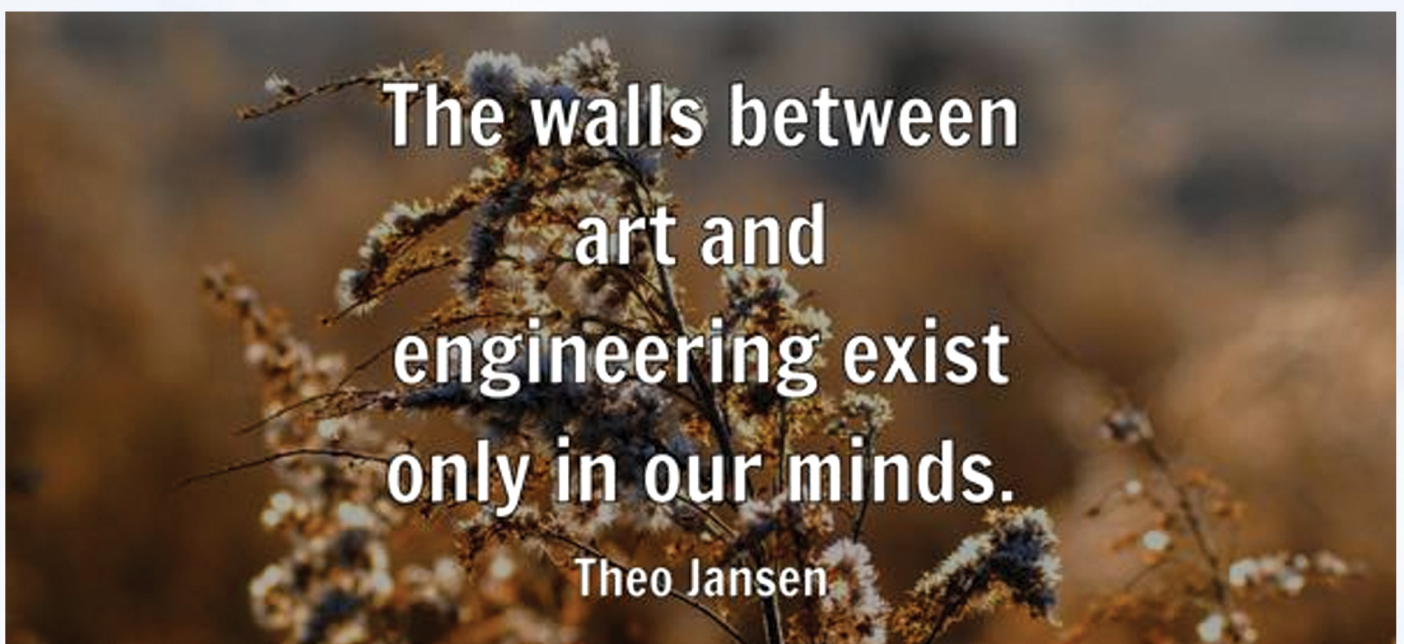


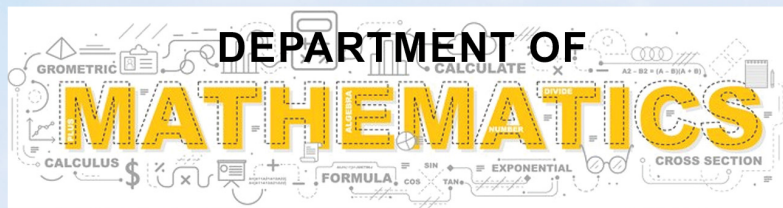
A student team titled **“Eternal Unite”** participated in Vanthena 8.0 an Entrepreneurship Development Program organized by AIC-SKU, Sri Krishnadevaraya University, Ananthapuram. The program was mentored by **Ganesh Iyer, Helen Bikes, Dr. Mouli, Srujana, Dr. Sujitha Chaitanya, Dr. Zahoorulla** (CIO, ALEAP, Hyderabad), **Yaseen Shareef, Raman** (CEO, KL Incubation Foundation), and **Dr. Jyothi**.

Three students from the Dept. participated in GDG DevFest 2025 on 12th October, 2025, organized by Google Developer Groups (GDG) at the Novotel Hyderabad Convention Centre & HICC, Hyderabad. The eminent speakers namely **Mrs. Atulpriya Sharma**, Senior Developer, **Mr. Patrick Tobler**, Founder of Masumi, **Mr. Pankaj Rai**, Google Developer Expert – Firebase and **Mr. Jayesh Ranjan**, IAS officer taken a part and shared the viewpoints.



An Industrial visit to Hyderabad organized for students for practical exposure to advanced computing technologies, real-world industry practices, and research-driven solutions, enhancing their technical understanding and industry readiness on 08 August, 2025. Faculty members **Mr. G. Vikram Chandra** and **Dr. B. Bhaskara Rao** are accompanied the students.





Faculty Research Publications in International Journals

- **P. Sudarsana Reddy and P. Sreedevi,** published a paper entitled *“Thermally Radiative Nano–Encapsulated Phase Change Materials Heat Transport Proficiencies in Latent Heat Thermal Energy Storage Device Filled With Permeable Media and Microorganisms”* in the Journal of Porous Media, in 2025, DOI:10.1615/JPorMedia.2025055514. (SCI)
- **P. Sudarsana Reddy and P. Sreedevi,** published a paper entitled *“Ternary Magnetic Nanofluid Heat Transfer Analysis inside a Closed Chamber with Thermal Radiation”* in World Journal of Engineering (ESCI), 2025.
- **P. Sudarsana Reddy and P. Sreedevi,** published a paper entitled *“Heat Transfer Investigation of Thermally Radiative Nano–Encapsulated Phase Change Materials (NEPCMs) in a Thermal Energy Storage Device With Heat Source and Microorganisms”* in International Communications in Heat and Mass Transfer, Vol. 169, 2025. (Elsevier)
- **P. Sreedevi and P. Sudarsana Reddy,** published a paper entitled *“Entropy Generation Analysis of Radiative Nanofluid Flow Inside a Permeable Chamber With Heat-Generating Source”* in World Journal of Engineering in 2025. (ESCI)
- **G Ramasekhar,** published a paper entitled *“Computational Role of Blood-Based Casson Fluid Flow Through a Stenotic Artery: An Application to Cardiovascular Issues”* in Thermal Science, pp. 129–129, in 2025. DOI: 10.2298/TSCI250429129S. (SCI)
- **G Ramasekhar,** published a paper entitled *“Enhanced Heat Performances of Penta-Hybrid Nanofluid Flow Across a Stretching Surface Employing the Homotopy Perturbation Method: An Artificial Neural Network Approach”* in Physics of Fluids, Vol:37, Issue:7, in 2025. DOI: 10.1063/5.0271553. (SCI)
- **G Ramasekhar,** published a paper entitled *“Linear Regression Analysis of Williamson Hybrid Nanofluid Flow With Thermal Radiation: Numerical Simulation”* in the International Journal of Thermofluids, in 2025. DOI: 10.1016/j.ijft.2025.101343. (Scopus)
- **G Ramasekhar,** et al., published a paper entitled *“Homotopy Semi-Numerical Modeling of Williamson Nanofluid Flow Over a Cone and Wedge With Entropy Generation”* in Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, in 2025. DOI: 10.1007/s40010-025-00945-8. (SCI)

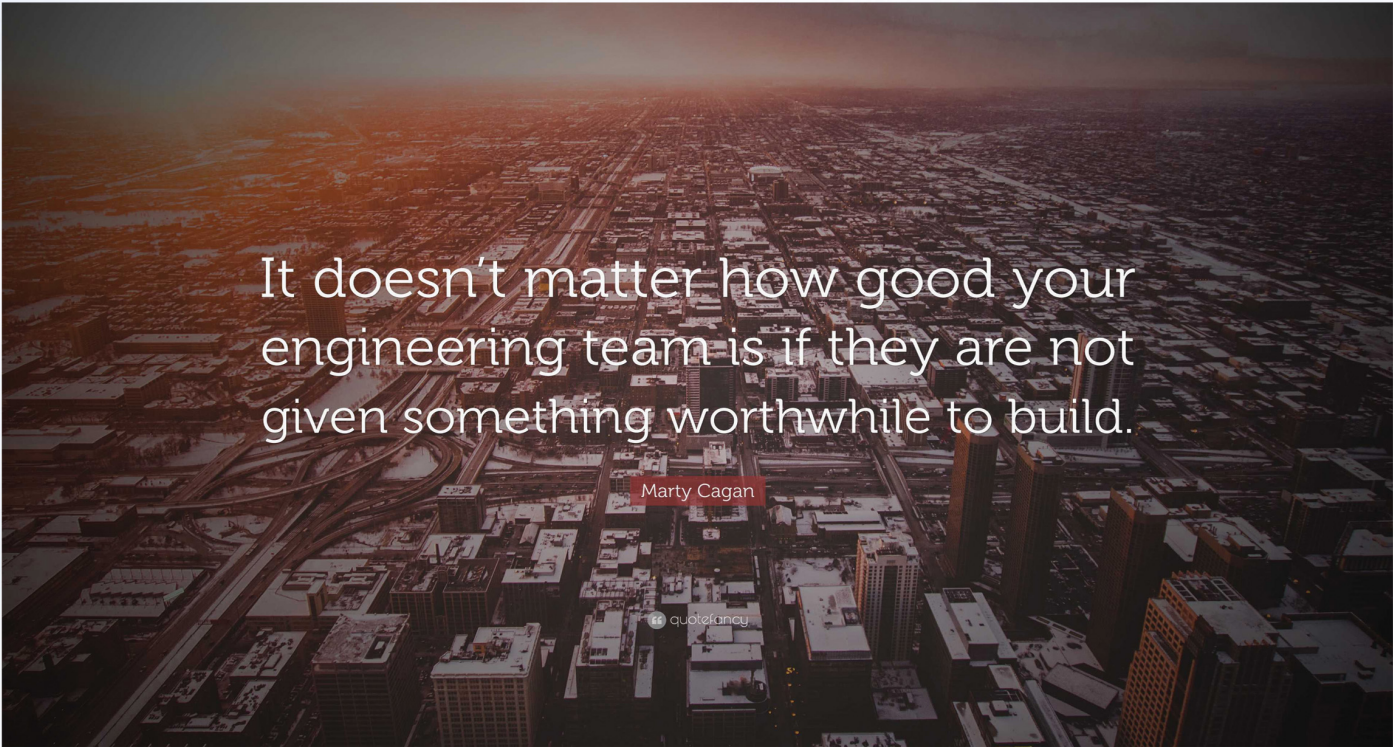
FDP/ Seminar/ Workshop/ Conference Attended

- **Dr P. Sreedevi and P Madhu Sravanthi**, attended a FDP on *“Recent advances in computational Mathematics and Machine learning (RACMML-2025)”* organized by JB Institute of Engineering and Technology, Hyderabad from 04th to 8th August, 2025.
- **Dr. R. Chandra Sekhar Reddy**, attended a FDP on *“QT-03 and QT-04”* organized by Electronics and ICT Academy, MNIT Jaipur and AP State Council for Higher Education (APSCHE) from 27th to 29th November, 2025.
- **Dr. D. Dastagiri Babu**, attended a Workshop on *“Quantum Technologies”* organized by JNTUA, Ananthapuramu on 12th August, 2025.
- **Dr. D. Dastagiri Babu**, attended a Workshop on *“Introduction to Quantum Technologies & Applications”* organized by JNTUA, Ananthapuramu from 14th to 15th October, 2025.
- **Dr. Y. Raja Obula Reddy**, attended a FDP on *“Mathematics for Sustainable Development in Research”* organized by St. Joseph's College (Arts & Sciences), Kovur, Chennai from 24th to 29th September, 2025.
- **Dr. Y. Raja Obula Reddy**, attended a One Day workshop on *“Quantum Technologies”* organized by JNTUA, Ananthapuramu on 12th August, 2025.
- **B. Sreenivasa Reddy**, attended a FDP on *“Contemporary Topics in Mathematics and its Applications”* organized by Lakireddy Balireddy College of Engineering, L.B.Reddy Nagar, Mylavaram, from 28th July to 1st August, 2025.
- **B. Sreenivasa Reddy**, attended a FDP on *“Recent advances in computational Mathematics and Machine learning (RACMML-2025)”* organized by JB Institute of Engineering & Technology, Hyderabad from 04th to 8th August, 2025.
- **Dr. A.G. Mallikarjuna**, attended a FDP on *“Recent Trends and Advances in Mathematics (RTAM-25)”* organized by Acharya Institute Of Technology, Bengaluru from 04th to 10th August, 2025.
- **Dr. A.G. Mallikarjuna**, attended a FDP on *“R-Programming”* organized by CSSR & SRRM Degree & PG College, Kamalapuram, YSR District from 18th to 23th August, 2025.
- **E.V.Raghava and Y. Akhila**, attended a FDP on *“Recent advances in computational Mathematics and Machine learning (RACMML-2025)”* organized by JB Institute of Engineering And Technology, Hyderabad from 04th to 8th August, 2025.
- **Y. Akhila**, attended a FDP on *“Under Wireless Communication Networks: Concepts, Challenges and Optimization”* organized by Motilal Nehru National Institute of Technology Allahabad, Prayagraj from 29th September to 03rd October, 2025.

- **N. Ravali**, attended a FDP on *“Recent advances in computational Mathematics and Machine learning (RACMML-2025)”* organized by JB Institute Of Engineering And Technology, Hyderabad from 04th to 8th August, 2025.
- **N.Ravali and M.Jayanthi** attended an online FDP on *“Quantum Computing”* organized by Excelr, RamRao Adik institute of technology, Mumbai from 11th to 18th August, 2025.
- **K. Hemavathi**, attended a FDP on *“Introduction to Quantum Computing: Quantum Algorithms and Qiskit”* organized by IIT, Madras from 11th to 18th August, 2025.
- **M.Jayanthi**, attended a FDP on *“Recent advances in computational Mathematics and Machine learning (RACMML-2025)”* organized by JB Institute of Engineering And Technology, Hyderabad from 04th to 8th August, 2025.

Conference Paper

- **Dr. Gunisetty Ramasekhar**, presented a paper on *“Blood Flow and Thermal Analysis of Casson Fluid Flow Through a Stenotic Artery: An Application to Cardiovascular Issues”* in International Conference on Mathematical and Statistical modeling, Simulation, and Optimization of Energy Systems (ICMSOES 2025) organized by The University of Bengkulu, Indonesia during 17th to 18th June, 2025. Hyderabad from 04th to 8th August, 2025.



It doesn't matter how good your engineering team is if they are not given something worthwhile to build.

Marty Cagan

quote fancy

Department of Chemistry



Faculty Research Publications in International Journals

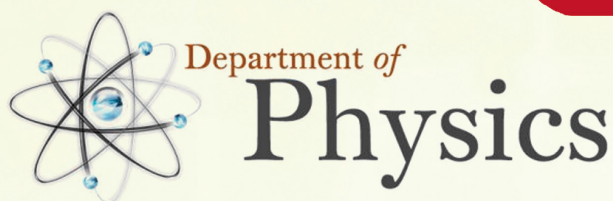
- **Balakrishna Avula**, et al., published a paper on *“Influence of La-Ti co-doping on structural, photocatalysis and magnetic performance of YbFeO₃ nanoparticles derived from sol-gel method”* in the Journal of Solid State Communications, in November, 2025. <https://doi.org/10.1016/j.ssc.2025.116265>
- **Balakrishna Avula**, et al., published a paper entitled *“Rare-earth (Er³⁺) modified ZnO photocatalyst: Dual action in organic dye degradation under UV/solar light and microbial suppression”* in the Journal of Journal of Water Process Engineering, in 21st November, 2025. <https://doi.org/10.1016/j.jwpe.2025.109188>
- **G. S. S. Anjaneya Vasavi**, et al., published a paper entitled *“Surfactant Influence on Morphology, Optical, Photocatalysis and Magnetic Performance of KBiFe₂O₅ Nanomaterials Obtained via Sol-Gel Method”* in the Journal of ECS J. Solid State Sci. Technol, in 2025. DOI 10.1149/2162-8777/adfe1c.
- **G. S. S. Anjaneya Vasavi**, et al., published a paper on *“Green Synthesis Of Silver Nanoparticles Using Coscinium Fenestratum — A Threatened Medicinal Climber — And Evaluation Of Its Antibacterial Activity”* in International Journal of Environmental Sciences, Vol:11, Issue:22s, in 2025. <https://theaspd.com/index.php>.
- **K Raja**, et al., published a paper on *“Pd-Functionalized β-Ketoenamine COF for Efficient Hydrogen Sensing Under Ambient Conditions”* in the Journal of Mater. Chem. Front in 2025. DOI: 10.1039/D5QM00681C.

Patent

- **Avula Balakrishna**, published a Patent on *“Nano-Enabled Antimicrobial Agents for Targeted Pathogen Neutralization in Healthcare and Agriculture”* Application No.202541078054 A, on 29th August, 2025.

FDP/ Seminar/ Workshop/ Conference Attended

- **Dr. K. Raja**, attended a Two-Day Faculty Upskilling Programme on *“Introduction to Quantum Technologies & Applications”* held at JNUTA, Ananthapuramu on 14th and 15th October, 2025.
- **Dr. K. Raja**, attended a workshop on *“Emerging Technologies Empowering Gen Next”* held at JNUTA, Ananthapuramu on 12th August, 2025.



Faculty Research Publications in International Journals

- **Dr. N Ravi**, et al., published a paper entitled *“Influence of high-k La₂O₃ interfacial oxide layer on the performance of GaN based Schottky barrier ultraviolet-B and A photodetection sensors”*, in Optical Materials in 2025.
- **Dr. N Ravi**, et al., published a paper titled as *“Optimizing energy transfer in Er³⁺/Yb³⁺ Co-doped heavy metal oxide bismuth borate glasses for C-band optical amplifiers”*, Optical Materials in 2025.
- **Dr. N Ravi**, et al., published a paper titled as *“Improved ultraviolet photodetection and oxygen gas sensing performance using CeO₂ rare-earth oxide thin films deposited on GaN”*, in Physica B: Condensed Matter, 2025.
- **Dr. N Ravi**, et al., published a paper entitled *“MnO₂-doped tellurite glasses: Potential and performance in faraday rotator technologies”*, Journal of Non-Crystalline Solids, in 2025.
- **Dr. N Ravi**, et al., published a paper titled as *“Gd (OH)₂ NO₃ rare earth ions functionalized reduced graphene oxide: a promising material for supercapacitor electrode applications”*, in Journal of Alloys and Compounds in 2025.
- **B.C. Jamalaiah**, published a paper entitled *“Er³⁺ -doped oxyfluoroborosilicate glass ceramics with embedded CaF₂ nanoparticles for 1.53 μm broad band applications”* in 2025 in Optics Communications in 2025. <https://doi.org/10.1016/j.optcom.2024.131243>.
- **B.C. Jamalaiah**, published a paper entitled *“Tm³⁺ doped CaF₂ based oxyfluoroborosilicate glasses and glass ceramics for visible and NIR lasers”* in Journal of Luminescence in 2025. <https://doi.org/10.1016/j.jlumin.2024.120978>.
- **B.C. Jamalaiah**, published a paper entitled *“Nd³⁺-doped B₂O₃-SiO₂-AlF₃-NaF-CaF₂ glass ceramics for 1.06 μm emission”* in Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy in 2025. <https://doi.org/10.1016/j.saa.2024.125405>.
- **B.C. Jamalaiah**, published a paper entitled *“Upconversion and optical thermometry traits of Tm³⁺/Yb³⁺ co-doped B₂O₃.SiO₂ based oxyfluoride glass ceramics”* in Ceramics International in 2025. <https://doi.org/10.1016/j.ceramint.2025.03.459>.
- **B.C. Jamalaiah**, published a paper entitled *“Effect of Pr³⁺ concentration on its luminescence in TeO₂+WO₃+GeO₂+Pr₆O₁₁ glasses”* in Journal of Molecular Structure in 2025. <https://doi.org/10.1016/j.molstruc.2025.143408>.

- **B.C. Jamalaiah**, published a paper entitled *“Green fluorescent Ho³⁺-doped TeO₂+WO₃+GeO₂+Ho₂O₃ glasses for lighting devices”* in Journal of Materials Science: Materials in Electronics in 2025. <https://doi.org/10.1007/s10854-025-15609-x>.
- **B.C. Jamalaiah**, published a paper entitled *“Structural and optical properties of Sr₃Gd(PO₄)₃:xHo³⁺ single phased phosphors for photonic applications”* in Materials Today Communications in 2025. <https://doi.org/10.1016/j.mtcomm.2025.114069>.
- **B.C. Jamalaiah**, published a paper entitled *“Erbium doped P₂O₅-BiF₃-MgO-ZnO-KF glasses for green laser applications”* in Physica Scripta in 2025. <https://doi.org/10.1088/1402-4896/ad9fb9>.
- **Dr. R. Ravanamma**, et al., published a paper entitled *“Improved Ultraviolet Photodetector Performance using Sol–Gel Spin Coated Cost-Effective TiO₂ Nano Belts on p-Si”*, Silicon, (2025) 1-13.
- **Y Dana Rao**, et al., published a paper titled as *“Photoinduced birefringence studies in CuO doped Pb₃O₄-Bi₂O₃-B₂O₃ glass ceramics using femtosecond laser”*, in Optik, 2025. (Scopus)

Patents

- **Dr. S. Farooq**, published a Patent entitled *“Quantum Computing Architecture with Superconducting Qubit Arrays”*, Application No. 202541099440 on 28th November, 2025.
- **Dr. V. B. Sreedhar**, published a Patent entitled *“Quantum Information Processing Platform Using Superconducting Technology”*, Application No. 202541106227 on 03rd November, 2025.

FDPs/Seminars/workshops attended

- **Dr. N. Ravi**, attended a FDP on *“QT-00 & QT-01: Foundations of Quantum Computing and Applications”*, from August 18th to 11th September, 2025 organized by Electronics and ICT Academy, MNIT Jaipur and AP State Council of Higher Education (APSCHE).
- **Dr. N. Ravi**, attended a FDP on *“QT-02 - Foundations of Quantum Technologies”*, organized by Electronics and ICT Academy, MNIT Jaipur and AP State Council of Higher Education (APSCHE) from 19th Sept. to 19th Oct. 2025.
- **Dr. N. Ravi**, attended a FDP on *“QT-03 & QT-04 APSCHE: Basic Quantum Programming and Technologies Lab”*, organized by Electronics and ICT Academy, MNIT Jaipur and AP State Council of Higher Education (APSCHE) from 27th October to 19th November, 2025.

Ph. D. Award

- **Mr. Y. Paramesh Goud** received Ph.D. from JNTUA Anantapuramu on 31st, October, 2025. He pursued his topic entitled *“Comprehensive Study on Physical, Structural, Magnetic and Optical Properties of Multifunctional Tellurium Dioxide Glasses Doped with Magnetic and Rare Earth Elements”*, under the supervision of Dr. N. Ravi, Professor, Department of Physics, RGM CET.

Department of



Faculty Research Publications in International Journals

- **Dr. G. Kiran Kumar Reddy**, published a paper entitled *“Technology -Enhanced Learning Methods-Current Trends and Practices”* in International Journal of Supportive Research, ISSN: 3079-4692, Vol. 3, Issue. 2, in December, 2025.
- **Dr. P. Kousar Basha**, published a paper on *“Eco-Criticism, and Administrative discourse on tobacco risks and cancer: A case study of Edward Albee’s Who’s Afraid of Virginia Woolf?”* in the Journal of Lex localis-journal of local self-government ISSN:1581-5374 Vol. 23, No. S5, 2025.
- **Dr. A.K.Gopi Krishna and Dr. P.Kousar Basha**, published a paper entitled *“Exploration of Ethical Perceptions from the Story ‘The Gift of the Magi’: A Contemporary Study”* in International Journal of Gradiva Review Journal, ISSN:0363-8057, Vol.11, Issue:9, in September, 2025. DOI:10.37897.GRJ.2025.V11i9.25.514322
- **Dr. Y. Suneetha**, published a paper entitled *“Meta-Textual Adaptations of Popular Mythological Fiction into Film: A Study with Reference to Kalki 2898 A.D.”* in an International Journal of Engineering Technology and Management Science, ISSN: 2581-4621 DOI:10.46647/ijetms.2025.v09i03.035
- **Dr. G. Kiran Kumar Reddy**, published a paper entitled *“Resistance and Hybridity in IGBOS, GIKUYUS and PARAJAS - A Study of Things Fall Apart The River Between and The Ancestor”* in International Journal of Academic Research , ISSN 2348- 7666, Vol.12, Issue 3, July- September 2025.
- **Dr. G. Kiran Kumar Reddy**, published a paper entitled *“Thematic Concerns of Diaspora in the novels of Beniyamin’s Goat Life and V.S. Naipaul ‘s The Mimic Men - A study”* in Journal of English Language and Literature (JOELL) , ISSN 2349-9753, Vol.12, Issue3, July- September 2025.
- **Dr. C. Sankar Goud**, published a paper titled as *“New Media in Contemporary Indian English Literature”* in International Journal of English and Studies (IJOES), ISSN: 2581-8333, Vol.7, Issue. 7, in July, 2025. DOI:10.47311/IJOES.2025.18.07.499
- **Dr. C. Sankar Goud**, published a paper on *“Fostering Moral Values and Cultural Traditions through Language Education: A Holistic Approach”*, in Quaderns Journal, ISSN: 1138-5790, Vol. 13, Issue: 4, in 2025.

Conference Papers

- **Dr. Y.Suneetha**, presented a paper titled as *“The Intersection of Human and Machine: The Evolution and Implications of Artificial Intelligence in the Modern Era of English Language”* organized by Adithya College, Kakinada, during 23rd to 24th September, 2025
- **Dr. G. Kiran Kumar Reddy**, presented a paper entitled *“Thematic Diaspora perceptions in The Goat Life Movie: A Study”* in an International Conference ICCPE-2025 during 26th to 27th September, 2025 organized by Chandigarh University.
- **Dr. G. Kiran Kumar Reddy**, presented a paper titled as *“Problems and Prospectives of Modernization of Agriculture with Special Reference to Prem Chand’s Godan – A Study”* in a One Day National Seminar on ‘Revisiting Sardar Patel’s Legacy: Agrarian Reform and Social Justice in Contemporary India’ at Ramaiah University of Applied Sciences (MSRUAS, Bangalore on 23rd August, 2025.

Book Chapter

- **Dr. G. Kiran Kumar Reddy**, published a Book Chapter on *“Innovative AI- Driven Data Annotation Techniques”* in Adaptive Artificial Intelligence: Fundamentals, Challenges and Applications, in 2025. <https://doi.org/10.1002/97811394389070.ch15> (WILEY, Scopus)

Patent

- **Dr.Y. Suneetha** published a patent entitled *“Sensor-Based Language Training Spectacles”* Design No. 6464805 on 19th August, 2025 under Certificate of Registration for a UK Design, United Kingdom.

FDP/ Seminar/ Workshop/ Conference Attended

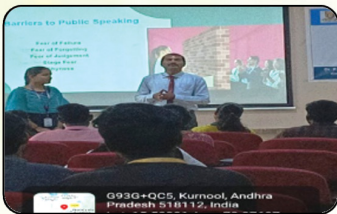
- **Dr. P.Kousar Basha** attended a National Conference on *“India@2047: Role of Higher Education in Making India a Developed Nation”* at Taj Krishna, Hyderabad on 29th August, 2025.
- **Dr. P.Kousar Basha** attended a One Week FDP on *“AI in Education”*, organized by the Dept. of English St. John College Palayamkottaai in association with English Axis: A Review of Literature and Language, on 10th October, 2025.
- **Dr.A.K.Gopi Krishna** attended a One Day Workshop on *“Innovation Ambassador (AI) training ‘Foundation Level”* through online-mode MoE’s” sponsored by Innovation Cell & AICTE during the IIC calendar year 2024-25, organized by JNTUA, Anantapuram, on 12th September, 2025.
- **Dr.Y.Suneetha** participated in FDP on *“A Systematic Way of Research Paper Writing”* from 01st to 08 August, 2025 organized by Research Foundation of India.

Guest Lecture Delivered

• **Dr. G. Kiran Kumar Reddy**, delivered a Guest Lecture on the topic *"Essential Twenty first Century Skills for Engineers"* for B.Tech students of CSE and AI discipline on 10th November, 2025 at Rayalaseema University, Kurnool.

Workshops Organized

A One Day Workshop was organized on *"Public Speaking – A Practical Session"* on 16th July, 2025. **Dr. C. Raghavendra** CEO Skill Trax, Chennai attended as resource person for this program. 200 engineering graduate from various branches have attended for this workshop.



A One Day Workshop was organized for 166 students in association with R&D Cell & IQAC & IIC Cell on 24th October, 2025 titled as *"Ethical Codes of Technical Writing"*. **Dr.Y. Suneetha** attended as a resource person and Dr.A.K. Gopi Krishna, attended as coordinator for this workshop.



NPTEL Course Attended

• **Dr. C. Sankar Goud**, completed a NPTEL (12 week course) Online Certification on *"English Language for Competitive Exams"* from January to April, 2025

Book Chapter

• **Dr. C. Sankar Goud**, published a Book Chapter titled as *"V.S. Naipaul and the Diasporic Experience: Identity, Displacement, and Home in A House for Mr. Biswas"* with ISBN: 978-81-987676-4-6, in August, 2025, in Eagle Leap Publication.



Faculty Research Publications in International Journals

- **Dr. S. Sowjanya** published the paper titled as *“Social Media's Influence On Consumer Buying Behavior: Exploring The Mediating Role Of Brand Awareness In Purchase Decisions At Bengaluru City”* in 16th International IEEE Conference on Computing Communication and Networking Technologies, on 30th July, 2025.
- **Dr.M.Sudheer Kumar**, published the paper titled as *“Performance Optimization of ethanol blends in diesel model using Taguchi and grey relational approach”* in the Journal Scientific Reports, Nature Portfolio, in September, 2025. <https://doi.org/10.1038/s41598-025-20009-6>.

FDP/ Seminar/ Workshop/ Conference Attended

- **Dr.Y.Mallikarjuna Achari**, attended a Five Day FDP titled *“Research Paper drafting and refinement from Idea to Publication”* organized by St.Joseph College Arts and Science, during 10th to 14th November, 2025.
- **Dr.Y.Mallikarjuna Achari**, attended a Two Day Workshop titled *“Cross Functional Management Analytics for Business Success”* organized by Yogi Vemana Univeristy, on 05th & 06th December, 2025.

FDP/ Seminar/ Workshop/ Workshops Organized



An online One Day Workshop organised for students on *“Angel Investment funding opportunity for Early-Stage Entrepreneurs”*, on 02nd August, 2025. **Dr. P.Jyothi**, AIC-SKU, Anantapuram, attended as a resource person.

A One Day Workshop organised on *“Angel Investment funding opportunity for Early-Stage Entrepreneurs”*, on 23rd August, 2025. **Mr. Vikram Chandra**, CSE-DS, Assistant Professor, RGM CET, attended as a resource person.





A One Day Workshop organised for students on **“Angel Investment funding opportunity for Early-Stage Entrepreneurs”**, on 23rd August, 2025. **Dr.Y.Suneetha**, Professor and **Dr. A.K. Gopi Krishna**, Asst. Professor, Dept. of English Department, RGM CET, attended as resource persons.

A Talk and Interactive Session organised with **Dr. Jeevana**, HR Executive at Udayananda Hospital on 24th August, 2025. The resource person shared her insights on **“Global Market and Entry Strategies”** with students and faculty.



Memorandum of Understanding

The MOU established in between MBA and Frontlines Edutech on 17th October, 2025. The Principal, HOD of MBA, Mr. M. Krishna and Mr.G. Upendra Founder and Co-founder of Frontlines Media, Hyderabad, attended at that time of MOU.



WOMEN EMPOWERMENT CELL ACTIVITIES



The Faculty Members attended an interactive session on **“Digital Empowerment for Sellers – Tools, Trends & Transformation”** on 11th July, 2025 organized by AVM Empowerment, Nandyal.

An Awareness Program conducted on **“Cyber Aware: Digital Vigilance for Women”** on 19th July 2025. The session was led by **Mr. Ramakrishna Prasad V.V.**, Cyber Security Engineer and **V. Leelavathi Devi**, Women & Child Welfare – Women Empowerment Officer, Nandyal, and 200 participants attended the program.



Women Faculty and students attended an **Awareness Program & Outreach Activity on Women Welfare and Rights** organized by Collector Office on 22nd July, 2025. A lecture was delivered by the State Women’s Commission Chairperson, **Mrs. Rayapati Sailaja**, and **Smt. Rajakumari Guniya**, District Collector of Nandyal, on the occasion.



A Interactive Session conducted for faculty and students on **“Gender Barriers: Building a Balanced Future”** on 28th July, 2025. **Dr. V. B. Chitra**, Director, WEC In-charge, JNTUA, Ananthapur, attended as an expert and emphasized the significance of gender equity and strategies for fostering an inclusive environment.

The **“Swasth Nari Shasakth Parivar Abhiyan”** a Govt. oriented program organized on 26th September, 2025 for girl students and faculty in the campus. **Dr. D. Fathima Bee**, MS, OBG, FMAS, Nandyal, joined as a resource person and discussed the women’s health and family well-being issues.



An awareness program organized on **“Cancer Awareness and Prevention – Early Detection Saves Lives”** on 23rd October, 2025. The expert speaker **Dr. J. Karthiki**, MBBS, MD OBG, SRMC, Nandyal, attended a resource person and bring out the awareness on cancer Prevention and Detection.



NSS ACTIVITIES

The NSS Units I & II conducted the following Activities



A **Kargil Vijay Diwas** program was organized in the Campus on 26th July, 2025. The Patriotic Speeches delivered by the students on this occasion. 80 students participated in this program.

The NSS organized an Ignite **Power through Yoga program** on 30th August, 2025 for 75 students. The Yoga trainer **Mr. Nageshwar Rao** train the students on the occasion.



The **Engineer's Day** was celebrated to mark the Birth Anniversary of **Sir Mokshagundam Visvesvaraya** on 15th September, 2025. The faculty deliberated the significance of Engineer's Day on the event.



An Awareness Program on Significance of Donating Blood organized on 22nd October, 2025. **Prof. M. Janaki**, SRMC, Nandyal, attended as resource person. **Dr. D.V. Ashok Kumar**, Director of Administrations, NSS coordinators **Dr. VNV. Sathya Prakash**, Dept. of ECE and **Dr. A. Suresh Kumar**, Dept. of EEE attended the program.



The NSS Units organized an Awareness Program on **Nasha Mukta Bharath Abhiyan** on 18th November, 2025. **Mr. K. Krishna Murthi**, Circle Inspector, Excise Department, Nandyal, attended as resource person and discussed the health issues on addiction of Drugs and Alcohol.

The **National Constitution Day** was organized on 26th November, 2025 in the campus. The Coordinators of NSS and Students promote the constitutional values, honor the Constituent Assembly, and highlights fundamental duties of Indian Citizens.



*Where there is Civil Engineering,
there is a way.*



Following other programs were organized by NSS Unit I & II

S. No.	Date	Activity Conducted Under NSS Unit-I	Area	No. of Volunteers Participated
1.	27-11-2025	Awareness on Various Welfare Schemes introduced by the Government.	Balapanur (Village), Panyam (Mandal), Nandyal	50
2.	28-11-2025	Clean and Green Programmes <ul style="list-style-type: none"> • Awareness Rally on Clean and Green Programme • Cleanliness Drive at Govt. School • Tree Plantation Drive at Govt. School 		50
3.	29-11-2025	<ul style="list-style-type: none"> • Awareness on importance of Higher Education • Yoga & it's benefits to Mankind 		50
4.	09-12-2025	Clean and Green Programme	KOWLURU (Village), Panyam (Mandal), Nandyal	50
5.	10-12-2025	<ul style="list-style-type: none"> i) Awareness Programme on Latest technologies in the field of Agriculture ii) Tree Plantation Programme. 		50
6.	11-12-2025	<ul style="list-style-type: none"> i) Awareness on Super GST & Super Savings. ii) Awareness on No Plastic use and distribution of cloth bags 		50



Glimpses of NSS Activities

Philanthropy@ RGM CET

A huge amount of **Rs. 91K** was collected to provide medical assistance to the college **driver Mr. Hanumanthu**, who met with an accident. Funds raised by the Dept. of English through the Principal Office. All the faculty members generously contributed for the victim.

Co-Driver is receiving the cash behalf of Mr. Hanumanthu from Dr. Y. Sunnetha Yadav, Dept. of English, RGM CET.

