

MGIT'S QUARTERLY

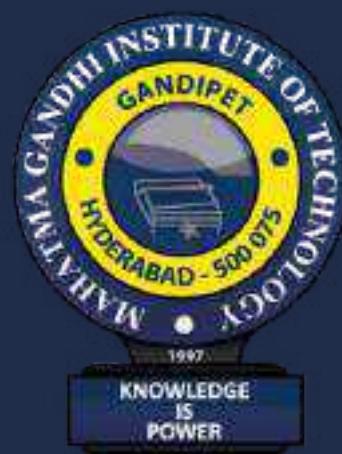
NEWS LETTER

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY



ABOUT US

MGIT envisions, inspires and motivates its students to imbibe knowledge with which they can excel and serve the nation with great elan. To nurture students into disciplined young citizens of irreproachable character, coupled with hands – on training and to make them readily employable by fostering social, cultural and environmental consciousness.



NSS ACTIVITIES

NSS ACTIVITIES

S. No	Date	Name Of the Event/Program	Program Details	No. of Participants
1	30-10-2024	Rashtriya Ekta Diwas	A pledge by the students and staff was conducted in	21
2	13-11-2024	Blood Donation Camp	Organized Blood Donation Camp in	57
3	20-11-2024	Health camp	Organized Health Camp in collaboration with Vijaya	30
4	26-11-2024	Constitution Day	Constitution Day also known as 'Samvidhan Diwas' was	21

NSS ACTIVITIES

30TH OCTOBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: RASHTRIYA EKTA DIWAS



NSS ACTIVITIES

નાકી

ఎంజీవట్టీలో ప్రత్యా దివస్

మనిషింది. కెల్ద మాణి పోంపుడై. ఇట్లు మనిషి సల్కుర్ పద్మఖాయి పెట్టి ఇయింపిన ప్పటప్పురింపుటని బాధారం గుడింపులీసి మహాత్ముగాంధీ జన్మిటుావ్ అంట తొల్లులే (ఎంతాలే) కణాలురో ఏక్కా దివును సెర్వ సొంచారు. ఈ సంచర్యాగా క్రైస్తియాల్ జి.సంద్రప్రాణానిర్దేశ మాట్లాడుతాఁ. దీఁ సముద్రం, సమైక్యశంక వ్యాసర్ పద్మఖాయి పెట్టిర్ ఎంతో కృషి చేశారన్నారు, దీఁఅం స్వాతంత్ర్యం రాణి పండితాది వంచ్చా సాలం ప్రాయ లెలంగాడును చేశంతో విలీనం చేయంచాలన్నారు. బ్రాహ్మణుము మన బలం అని వాటిప్పిన వ్యక్తి ఇయన అన్నాయి. దిగ్వాయులంబయ్యా మంగించా చమచ్చులు, తఱ, పొందల్లో రాయించి తీవుశంరో లత్తుడు స్వాసం లో శ్రీపదమాలన్నారు. ఎవ్వెన్నెని త్రైణాం ఆదూరి చాళ్కర్ కి.ఖారీరెడ్డి, పూర్వప్రేయ ద్వార్కర్ ఎం. రథచంద్రర్, భార్కర్ వి.హంచెల తదితయులు పూర్వసారు.



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Source : <https://epaper.sakshi.com/>

నమన్మతెలంగాణ

సర్కార్ పటేల్ సేవలు ఆదర్శానీయం

పుట్టింద, అట్టింద 80 : దీనిని సమగ్రక కొసం సర్వర్ పటీల్ దీనిన సేవలు అదర్చుటయిమని మహాత్మాగాంధి ఇంగ్లెండుల్లో అప్పి లొక్కాలప్పు ఎంపింగ్ కొంత క్రొంత ప్రిన్సిపాల్ జింపుమొహార్స్ నెడ్డి అన్నారు, బుధవారం పటీల్ అయింటి ఎట్టమాలను కొంత ప్రిన్సిపాల్ నిర్వహించారు. ఎడిన్ఫర్మెంట్ అర్టికారి పార్టీల్ కింది నిధారించాలు అధిష్టాన్ రిపబ్లిక్ అంటారు.

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Source : <https://epaper.n1news.com/>



NSS ACTIVITIES

13TH NOVEMBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: BLOOD DONATION CAMP



NSS ACTIVITIES

13TH NOVEMBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: BLOOD DONATION CAMP



NSS ACTIVITIES

20TH NOVEMBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: HEALTH CAMP



NSS ACTIVITIES

20TH NOVEMBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: HEALTH CAMP

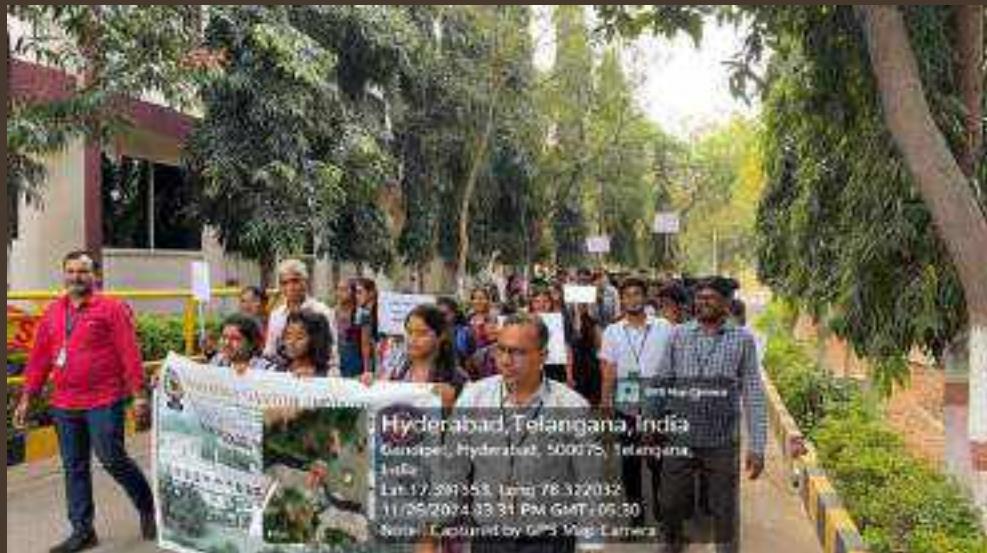


NSS ACTIVITIES

26TH NOVEMBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: CONSTITUTION DAY



NSS ACTIVITIES

26TH NOVEMBER 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: CONSTITUTION DAY



SPORTS AND CLUB ACTIVITIES

SPORTS ACTIVITIES

1. EKALAVYA - A three-day inter collegiate sports meet conducted by Sports Club – MGIT from 22nd – 24th November, 2024.



CLUB ACTIVITIES

Rangoli –Arts Club made art for the inauguration of ISTE student chapter at MGIT on 13th and 14th September 2024
- A block foyer



Rangoli –Arts Club made art for Dept. Technical fests at MGIT on 28th November 2024

Dance club students conducted Dance Verve – Auditions for Dance Club students – MGIT on 29-11-24



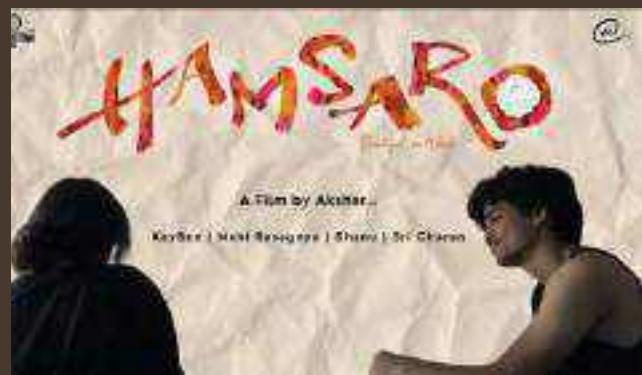
CLUB ACTIVITIES

Music Club students of MGIT participated in the Student Tribe event, St. GOT – The Ultimate Talent Discovery, on 23rd November, 2024.



Released Short Film “Entha Chithram” Spotlight - Drama and filmmaking club on 26th October 2024

Released Short Film “Hamsaro” Spotlight - Drama and filmmaking club on 24th November 2024



Drama and filmmaking club students have conducted College Street Interview in college to promote club Auditions Spotlight - Drama and filmmaking club on 27th November 2024

CLUB ACTIVITIES



Auditions 2024 for “Rangasthalam”
Spotlight - Drama and filmmaking club
Has conducted Auditions on 30th
November 2024

DoP Club- MGIT has actively participated and taken photographs at Bathukamma-24 festival conducted at MGIT on 06th October 2024



DoP Club- MGIT has taken photographs for IDEATHON by Idea Incubator on 20th October 2024

DoP Club- MGIT has taken photographs for the inaugural event of Pravarthak AI Club of MGIT on the 07th November 2024 and 08th November 2024.



CLUB ACTIVITIES



DoP Club- MGIT has taken photographs on Technical Day conducted in MGIT on 21st November 2024.



DoP Club- MGIT has taken photographs on Art Club Auditions in MGIT on 28th November 2024



DoP Club- MGIT has taken photographs at Spotlight Auditions in MGIT on 30th November 2024.

INSTITUTE LEVEL ACTIVITIES

The Mahatma Gandhi Institute of Technology (MGIT) hosted its annual Alumni Meet on December 28, 2024. The event served as a cherished homecoming, providing a platform for graduates to reconnect with former classmates, esteemed faculty members, and the institute that shaped their formative years. Attendees reminisced about their time at MGIT, sharing stories and laughter while rekindling bonds forged during their student days. The Alumni Meet also fostered valuable networking opportunities, allowing graduates to connect with fellow professionals across various industries, explore potential collaborations, and expand their professional horizons. The meet featured inspiring keynote speakers who shared insights on industry trends, captivating cultural performances showcasing the talents of current students and alumni, interactive networking sessions facilitated by industry experts, campus tours highlighting recent developments and advancements, and a celebratory dinner fostering camaraderie and conversation. The event proved to be an evening of camaraderie, celebration, and a reaffirmation of the enduring MGIT spirit.

DEPARTMENTAL ACTIVITIES

DEPARTMENTAL ACTIVITIES

CIVIL

- Civil Engineering Department has organised a workshop on “Internship to Entrepreneurship” by Sri P. Sudheer Kumar, APEX SDG for V and VII Semester UG students on 13th November, 2024.
- The Department has organized a workshop on “Internship to Entrepreneurship” by Sri P. Sudheer Kumar, APEX SDG for III Semester UG students on 11th November, 2024.
- Civil Engineering Department has organised a Alumni Guest lecture on “Career Opportunities after B.Tech” by Ms. S.Bhavya Sai Vaishnavi for V Semester Students on 18.12.2024.
- Civil Engineering Department has organised a National Level Technical Symposium -CINFRA-2k24 with the theme “Sustainable urban revitalization innovations for a greener future” on 21.11.2024 in which 250 students participated, including 180 from external institutions.



DEPARTMENTAL ACTIVITIES

EEE

1. The Department has organized a one day training Program on “ Solar Energy Technology” for I and III Sem students on 20-11-2024



2. The Department has organized a Technical Fest “Potenzia 2.0” 2024 on 22-11-2024.



DEPARTMENTAL ACTIVITIES

ECE

- Microcosm 2.0, the flagship national-level technical symposium organized by the Department of Electronics and Communication Engineering (ECE), MGIT, was a remarkable two-day event that attracted enthusiastic participation from students
- across Telangana. The symposium offered a platform for showcasing technical innovations, entrepreneurial ideas, and creative thinking through a variety of technical, non-technical, and entrepreneurial events. It featured engaging
- competitions, project demonstrations, workshops, panel discussions, and interactive sessions. This year, Microcosm 2.0 also incorporated Startup Spark 2024, focusing on innovation and entrepreneurship, with events like Shark Tank MGIT and a Panel Discussion on Women Entrepreneurship.



DEPARTMENTAL ACTIVITIES

ECE

- Guest lecture conducted on “Artificial Intelligence in Space Electronics Warfare” by Dr A.K.Singh, Sc-G & Project Director, DLRL, Hyderabad held on 28-12-2024 at A-Block auditorium



DEPARTMENTAL ACTIVITIES

CSE

- REMINISCENCE-2024
- The Alumni Meet 2024 was held on December 28, bringing together former students for a memorable reunion. The event provided a platform for alumni to reconnect, share experiences, and network with faculty and current students. Various interactive sessions and cultural programs were organized to celebrate their achievements and contributions. The gathering fostered a strong sense of belonging and strengthened the bond between the alumni and the institution.



DEPARTMENTAL ACTIVITIES

CSE

- Mr N RamaKrishna joined as an Assistant professor in the department of CSE in November 2024.
- Dr Ch Ramesh Babu joined as an Associate professor in the department of CSE in November 2024.
- The Department of CSE hosted QUBIT'24 on November 22nd and 23rd, bringing together the brightest minds from MGIT. The event featured a series of technical competitions, workshops, and keynote sessions designed to foster innovation and collaboration. Students had the opportunity to showcase their skills, exchange ideas, and engage with industry experts. The hackathons and coding challenges tested participants' problem-solving abilities, pushing them to think creatively. Overall, QUBIT'24 was a remarkable platform for aspiring technologists to learn, compete, and network.



DEPARTMENTAL ACTIVITIES

IT

- The Department of IT, MGIT, in association with TASK, is organized a 2-day TASK Training Program on Essentials of Data Science with R on 25th and 26th November 2024. The training will be conducted by Mr. Hemanth Krishna, a Technical Trainer from TASK, in D-Block, Room D-302, for V Semester IT (20) & CSB (11) students.
- On 22nd November 2024, the Department of IT, in association with ISTE and CSI Student Chapters, is hosted YUKTI 2.0, a National Level Technical Symposium in D-Block for 120 students.
- On 22nd November 2024, the Department of IT, in collaboration with ISTE and CSI Student Chapters, will be conducting TECHKRITI-2K24, another National Level Technical Symposium in D-Block with the participation of 272 students.



DEPARTMENTAL ACTIVITIES

IT

- A 3-day Workshop on HTML and CSS will be held on 9th, 16th, and 23rd November 2024, organized by the Department of IT, Mahatma Gandhi Institute of Technology. The sessions will be led by Mrs. R. Vijaya Lakshmi, Assistant Professor, Dept. of IT, MGIT, in C-Block, Room C-002, for III Semester IT (45) students.
- From 4th to 6th November 2024, the Department of IT, MGIT, in association with TASK, is conducting a 3-Day TASK Training Program on JAVA Foundations. The training will be delivered by Ms. M. Kalpana, a Technical Trainer from TASK, in D-Block, Room D-208, for TASK-registered students of V Semester IT (32) & CSB (12).
- A 3-month Certification Program on C Essentials 1 course through CISCO NETWORKING ACADEMY will be held from 1st October 2024 to 31st December 2024. The course will be instructed by Mrs. U. Chaitanya, a CISCO Networking Academy Instructor & Assistant Professor, Dept. of IT, MGIT, and will be conducted online for III Semester IT (32) & CSB (6) students.



DEPARTMENTAL ACTIVITIES

IT

- From 2nd September 2024 to 1st December 2024, the Department of IT, MGIT, is offering a 3-month Certification Program on Java Fundamentals through ORACLE ACADEMY via TASK. The program will be instructed by Mrs. U. Chaitanya, a Certified ORACLE ACADEMY Instructor & Assistant Professor, Dept. of IT, MGIT, and will be conducted online for TASK-registered VII Semester IT (16) students.



DEPARTMENTAL ACTIVITIES

ET

- New Staff Details:
- Mr Sunil Kumar joined as an Assistant professor in the department of ET in October 2024.
- 1. ACM Registered CSE, CSM & CSD Students have attended the ACM India Regional Chapter Summit 2024 at KL University Bachupally on 18th October 2024.



- The Department of Emerging Technologies (ET) at Mahatma Gandhi Institute of Technology (MGIT), has successfully conducted the inauguration of the AI Club - Pravartak AI, and a Two-day workshop on "Convolutional Neural Networks (CNN), Natural Language Processing (NLP), and Computer Vision (CV)" from November 7 to November 8, 2024. This event was organized in collaboration with Indian Servers, a renowned technology solutions provider at the A-Block Auditorium, MGIT. In this workshop, around 150 students actively participated. At the end of the program a competition has been conducted and winners were recognized with prizes that are sponsored by Indian Servers.

DEPARTMENTAL ACTIVITIES

ET

- The inauguration program of the AI Club featured a structured schedule comprising key events and addresses by esteemed dignitaries. The event commenced with the lighting of the lamp and an invocation, followed by a welcome address by the Principal and an introduction to the institute by the Vice Principal. Insights on the AI Club and its objectives were presented by the Chairperson of AI Club, Prof. M. Rama Bai. This was followed by, a talk on AI for Science & Technology and R&D by Prof. N. Eswara Prasad, Director, R&D.
- The Guest of Honour, Sri Sai Satish, CEO of Indian Servers, and the Chief Guest, Dr. JVR Sagar, an outstanding scientist and Associate Director at DRDL, Hyderabad, addressed the audience on AI advancements and industry relevance. The event also included the honour of Artificial Intelligence Medical and Engineering Researchers Society membership certification, a MoU agreement ceremony, and concluded with a vote of thanks by the AI Club Student Ambassador, Mr. S Karthik Balaji.



FACULTY ACHIEVEMENTS

FACULTY ACHIEVEMENTS

CIVIL

- a. Dr. V.Venkat Ramayya, Associate Professor & Head, Civil Engineering Dept. Article accepted for Publication in Journal of Traffic and Transportation Engineering (English Edition) entitled “Synergistic enhancement of Bituminous concrete mixture performance with Polypropylene Granule modified binder and Rice Husk Ash as mineral filler substitute”. Elsevier - SCI Q1 – Impact Factor 7.4.
- b. Dr. V.Venkat Ramayya, Associate Professor & Head, Civil Engineering Dept. received recognition by JNTUH as Research Supervisor.
- c. Dr. M.Padmaja, Assistant Professor received Doctor of Philosophy on 22.10.2024 from JNTU Anantapur for the Thesis entitled “Removal of Heavy metals from Textile industry effluents using vetiveria adsorbent”.

FACULTY ACHIEVEMENTS

EEE

- Dr.P.Ram Kishore Kumar Reddy, Published an article “Introduction to Distributed Energy Storage Systems in Digital Power Systems” in Distributed Energy Storage Systems for Digital Power SystemsSCI(Q1) in October 2024.
- Dr.P.Nagasekhar Reddy, published an article “ Machine Learning based Fault Detection in Solar Photovoltaic Systems for Improved Reliability ”, in Electric Power Components and Systems in October 2024.
- Mrs.S.Sudha Rani, published an article “Smart Control for Solar PV Grids to enhance Power Quality using Deep Neuro Auto Inverter Model”, in International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC 2024), IEEE Conference BIET Davangere, Karnataka in October 2024.
- Mrs.S.Sudha Rani, published an article “Control and Analysis of UPQC for Power Quality Improvement in Renewable Energy Sources: Advancing Wireless Power Transfer and Energy Harvesting technologies”, in International Conference on Technological Advancements in Computational Sciences (ICTACS-2024), IEEE Conference Amity University, Tashkent, Uzbekistan in November 2024.
- Mr.S.Abhisek Reddy, published an article “A Review of switching overvoltage modelling in UHV AC transmission lines”, in Electric PowerResearch SCI(Q1) in November 2024.

FACULTY ACHIEVEMENTS

- Dr.P.Ram Kishore Kumar Reddy, Published an article “Novel Control method for Wind-Hydrogen Battery based Standalone Micro-Grid under faults on Distribution” in International Conference on Advances in Computer Science, Electrical Technologies in December 2024.
- Dr.P.Ram Kishore Kumar Reddy, Published a paper on “AI-Powered Smart Grids: Energy Optimization” in Nano Technology Perceptions (Q4 Journal) in December 2024.
- Dr.P.Nagasekhar Reddy, Published a paper on “AI-Powered Smart Grids: Energy Optimization” in Nano Technology Perceptions (Q4 Journal) in December 2024.

ECE

Dr S Siva Reddy presented a paper in Two Day All India seminar in Two Day all India Seminar on “Role of Artificial Intelligences in Technological Advancements in Aerospace and Defence industry”.

Archana yadav, Asst professor presented a paper in Two Day All India seminar in Two Day all India Seminar on “ The Application of Artificial Intelligence in Aerospace Engineering”.

1. Dr S Siva Reddy, Dr S P Singh, Ms. Archana Yadav, Dept. of ECE, MGIT, Hyderabad, presented a paper on “Role of Artificial Intelligence in Technological Advancements in Aerospace and Defence Industry”, in Two Day All India Seminar on “Role of Artificial Intelligence in Technological Advancements in Aerospace and Defence Industries”, organized by The Institution of Engineers (India) from 27th to 28th December, 2024.

FACULTY ACHIEVEMENTS

2. Venkata Sriram K, Anoop Dorepally, and A Bala Raju, Dept. of ECE, MGIT, Hyderabad, presented a paper on “AI & IoT Driven Disaster Management System for Indian Defence Applications”, in Two Day All India

Seminar on “Role of Artificial Intelligence in Technological Advancements in Aerospace and Defence Industries”, organized by The Institution of Engineers (India) from 27th to 28th December, 2024.

. Ms. Archana Yadav, Dr S P Singh, FIE and Dr S Siva Reddy, Dept of ECE, MGIT, Hyderabad presented a paper on “The Application of Artificial Intelligence in Aerospace Engineering”, in Two Day All India Seminar on

“Role of Artificial Intelligence in Technological Advancements in Aerospace and Defence Industries”, organized by The Institution of Engineers (India) from 27th to 28th December, 2024.

FACULTY ACHIEVEMENTS

CSE

a) Research Papers published (IEEE format):

1. Dr. A. Nagesh, Madhavi A, Dr A Govardhan, "Sentiment-Based Hierarchical Deep Learning Framework Using Hybrid Optimization for Course Recommendation in E-learning", Annals of Data Science, December/2024, DOI: [10.1007/s40745-024-00580-x](https://doi.org/10.1007/s40745-024-00580-x).

2. Dr. K. Sreekala, Saka Uma Maheswara Rao, Pulluri Srinivas Rao, Nalla Shirisha, Gunnam Srinivas, Erry Sreedevi, "Plant disease classification using novel integration of deep learning CNN and graph convolutional networks", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 36, No. 3, December 2024, pp. 1721~1730 (Scopus).

3. Dr. K. Sreekala, A Suresh Kumar, VS Narayana Tinnaluri, R Dharani, Evance Leethial R, Sabarinathan G, "An Early and Precise Diagnosis of Alzheimer Disease", International Research Journal of Multidisciplinary Scope (IRJMS), 5(4):668-678 (Scopus).

b) Patents: granted / published

1. Dr. K. Rajitha, (2024). AN AI BASED METHOD FOR EARLY DETECTION OF CERVICAL CANCER (India Patent No. 202441088441).

National Patent.

<https://drive.google.com/file/d/1Jo5QWCXfcI5vzkomhGM9wcwfKBJUvdnM/view?usp=sharing>.

FACULTY ACHIEVEMENTS

2. Dr. K. Sreekala, (2024). GENETIC INNOVATIONS AND MACHINE LEARNING FOR ENHANCING CROP TRAITS AND PROMOTING SUSTAINABLE AGRICULTURE (India Patent No. 202441088290). National Patent. . Ms. Archana Yadav, Dr S P Singh, FIE and Dr S Siva Reddy, Dept of ECE, MGIT, Hyderabad presented a paper on “The Application of Artificial Intelligence in Aerospace Engineering”, in Two Day All India Seminar on “Role of Artificial Intelligence in Technological Advancements in Aerospace and Defence Industries”, organized by The Institution of Engineers (India) from 27th to 28th December, 2024.

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c) Others

1. P Poornima , Reviewer for “ National Academy Science Letters (SCLE)” Journal, 26th Dec, 2024.

2. Dr. Gousiya Begum was the resource person for a guest lecture on "Cloud Computing," organized by the Department of CSE, JNTUH UCER, on 17th December 2024.

3. Dr. Gousiya Begum has been awarded Ph.D. from Jawaharlal Nehru Technological University, Ananthpur for her thesis entitled “Detecting Intrusion to ensure security in Big Data Systems” in November 2024.

4. Dr. K. MadhuBabu, Reviewer of "SNAPP", Springer Nature Journal (26th November 2024).

5. Dr. K. Sreekala, is Reviewer for "International Journal of Data Science and Analytics", Springer Nature Journal (13th November 2024).

6. Dr. K. Sreekala, is Reviewer for "Scientific Reports", Springer Nature Journal (13th November 2024).

FACULTY ACHIEVEMENTS

CSE

7.Dr. Gousiya Begum was the resource person for a guest lecture on "Cloud Computing," organized by the Department of CSE, JNTUH UCER, on 29th October and 3rd December 2024.

8.Dr. K. MadhuBabu has been awarded Ph.D. from SRM University in the Faculty of Engineering, Computer Science Engineering, for his thesis entitled "Hybrid Model for finding and maintaining optimal path in VANET for Intelligent Transportation System" in October 2024.

IT

1.D. Vijaya Lakshmi, "Handwritten Character Recognition and Vehicle Number Recognition using OCR Method," in Trends in Electrical, Electronics & Computer Engineering, School of Electrical and Electronics Engineering, REVE University, Nov. 7–8, 2024. Paper presented and published.

JOURNAL

2.Ch. Prem Kumar, "An Intelligent FL-based Vehicle Route Optimization Protocol for Green and Sustainable IoT Connected IoV," Internet of Things, vol. 27, pp. 1–23, Oct. 2024. ISSN: 2542-6605. [Online].

3.Ch. Prem Kumar, "EDSSR: A secure and power-aware opportunistic routing scheme for WSNs," Scientific Reports, pp. 1–20, Nov. 19, 2024. [Online]. Available:

4.Ch. Prem Kumar, "Energy-efficient and secure routing strategy for opportunistic data transmission in WSNs," Journal of Cyber Security Technology, Taylor & Francis Group, pp. 1–36, Dec. 5, 2024. [Online].

5.Ch. Prem Kumar, "Secure cloud computing: Leveraging GNN and leader K-means for intrusion detection optimization," Scientific Reports, pp. 1–25, Dec. 28, 2024. [Online].

FACULTY ACHIEVEMENTS

5.A. V. Lakshmi Prasuna, "Classification and prediction of Parkinson's disease using machine learning algorithms," International Journal of Innovative Research in Technology, vol. 11, no. 7, pp. 2506–2510, Dec. 2024. ISSN: 2349-6002. [Online]. Available:

5.A. V. Lakshmi Prasuna, "Classification and prediction of Parkinson's disease using machine learning algorithms," International Journal of Innovative Research in Technology, vol. 11, no. 7, pp. 2506–2510, Dec. 2024. ISSN: 2349-6002. [Online]. Available: a. Research Papers published (IEEE format): Author initials. Last name, "Article title," Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.

Conference

1.D. Vijaya Lakshmi, "Handwritten Character Recognition and Vehicle Number Recognition using OCR Method," in Trends in Electrical, Electronics & Computer Engineering, School of Electrical and Electronics Engineering, REVE University, Nov. 7–8, 2024. Paper presented and published.

JOURNAL

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2. Ch. Prem Kumar, "EDSSR: A secure and power-aware opportunistic routing scheme for WSNs," Scientific Reports, pp. 1–20, Nov. 19, 2024. [Online]. Available: <https://doi.org/10.1038/s41598-024-77852-2>.

3. Ch. Prem Kumar, "Energy-efficient and secure routing strategy for opportunistic data transmission in WSNs," Journal of Cyber Security Technology, Taylor & Francis Group, pp. 1–36, Dec. 5, 2024. [Online]. Available: <https://doi.org/10.1080/23742917.2024.2431355>.

FACULTY ACHIEVEMENTS

4.Ch. Prem Kumar, "Secure cloud computing: Leveraging GNN and leader K-means for intrusion detection optimization," *Scientific Reports*, pp. 1–25, Dec. 28, 2024. [Online]. Available: [https://doi.org/10.1038/s41598-024-81442-7...](https://doi.org/10.1038/s41598-024-81442-7)

Books published:

- 1.Ch. Premkumar, Explainable AI: Methods, Frameworks, and Tools for Healthcare 5.0. Springer, 2024.
- 2.Ch. Premkumar, Security, Privacy, and Trust Management of IoT and Machine Learning-Based Smart Healthcare Systems. Elsevier, 2024.
- 3.Ch. Premkumar, Fog Computing: Cloud and Fog Optimization-Based Solutions for Sustainable Developments. CRC Press, 2024.

ET

Conferences:

1. Ms. A. Swapna has presented a paper titled “ Leveraging the power of Deep Learning, Machine Learning, Artificial Intelligence, and Big Data in finance and Education” in an International Conference on Technological Advancements in computationsal Sciences organized by AMITY University from 13th November to 15th November 2024.

Journal Publications:

1. Ms.Sreedevi has published a paper titled “ Advancing Composite 3D Printing : Deep learning-optimized rheology-modified polymers with continuous carbon fiber reinforecement” in the Journal “ Progress in Additive Manufacturing/ ESCI”, October 2024.

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Dr. B Yadiyah has published a paper titled “Cyber Security and Artificial Intelligence for Predicting Crime Rates” in Journal of Environmental Protection and Ecology/ Vol. 25 Issue-5, Pages 1395-1404.

3. Ms. D.Deepika has published a paper titled “A hybrid capsule attention-based convolutional bi-GRU method for multi-class mental task classification based brain-computer Interface” in Computer Methods in Biomechanics and Biomedical Engineering/ SCI, October 2024, Pages 90-106.

Achievements

1. Ms. D.Deepika has successfully completed the SWAYAM-NPTEL 4 credit course “Programming in Python” in December 2024

2. Dr. Barnali Gupta Banik has Delivered 2 hours session on “Fundamentals of classification analysis in Machine Learning Hands on – Classification Modeling using IoT sensor data” in a Faculty Development Program on Innovating with Machine Learning & IoT” organized by Chitkara University and funded by IIT Roorkee on December 16 ,2024.

3. Dr. Barnali Gupta Banik has Delivered 1 hour session on “Sustainable Journey of Cotton: From Farm To Fabric” in 3rd International Conference on Education and Environment organized by Higher School of Education and Training- Oujda, Morocco on December 3, 2024



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Patents:

1. Published , Ch Shiva Krishna Chary, October 2024, IoT based plastic waste disposal, Patent No: 435725-001, Issuing Body. Aira Academy (Niti Ayog) & IPR India.

P&C

1.Jyoti Sharma, Suman Das, Archana Jain* and Tarun K. Panda* “Structural Diversity of Cadmium Complexes with N-Heterocyclic Carbene-Isothiocyanate Zwitterionic Ligand” Zeitschrift für anorganische und allgemeine Chemie (ZAAC) e202400169 0044-2313 (print); 1521-3749 (web) Nov-2024

2.Albert, H. M., Kavitha, D., Lawanya, T., Sreedhar, V. B., Thakur, S., Bireddy Srinivas Reddy., Gonsago, C. A. “An overview of crystallization, structural, optical, dielectric, and thermal characterization methods for amino acid chloride crystals and their technological uses” Phase Transitions, 97, 10, 641-664, ISSN 0141-1594, Nov. 2024

3.Rajrani Narvariya, Himadri Karmakar, Devadkar Ajitao Kisan, Ishita Paul, Archana Jain, Tarun K. Panda “Efficient cyanosilylation of carbonyls using a well-defined dimeric sodium complex” Journal of Organometallic Chemistry 1020, 0022-328X, 123350, Oct -2024

STUDENTS ACHIEVEMENTS

STUDENTS ACHIEVEMENTS

EEE

1. P. Ramya Ranjini (22261A0229) secured the 1st Prize in the POTENZIA 2.0 (2024) – Paper Presentation event held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
2. R. Anirudh (23265A0221) secured the 1st Prize in the POTENZIA 2.0 (2024) – Paper Presentation held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
3. T. Achuth Balaji (23261A0250) secured the 1st Prize in the POTENZIA 2.0 (2024) – Poster Presentation conducted on 22/11/2024 at Mahatma Gandhi Institute of Technology.
4. M. Vishal Reddy (23261A0233) secured the 1st Prize in the POTENZIA 2.0 (2024) – Poster Presentation held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
5. Sreeja (21261A0203) secured the 1st Prize in the POTENZIA 2.0 (2024) – Fun Spark event held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
6. Vinay (21261A0211) secured the 1st Prize in the POTENZIA 2.0 (2024) – Fun Spark conducted on 22/11/2024 at Mahatma Gandhi Institute of Technology.
7. Shyam (22265A0205) secured the 1st Prize in the POTENZIA 2.0 (2024) – Fun Spark event on 22/11/2024 at Mahatma Gandhi Institute of Technology.
8. B. Raghavendra (21261A0204) secured the 1st Prize in the POTENZIA 2.0 (2024) – Funectron event held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
9. R. Yaswanth (21261A0245) secured the 1st Prize in the POTENZIA 2.0 (2024) – Funectron conducted on 22/11/2024 at Mahatma Gandhi Institute of Technology.
10. S. Sivani (23261A0248) secured the 1st Prize in the POTENZIA 2.0 (2024) – Circuit It Up event on 22/11/2024 at Mahatma Gandhi Institute of Technology.
11. A. Anusha (23261A0201) secured the 1st Prize in the POTENZIA 2.0 (2024) – Circuit It Up held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
12. B. Bangaru Babu (24265A0217) secured the 1st Prize in the POTENZIA 2.0 (2024) – Ampere Search conducted on 22/11/2024 at Mahatma Gandhi Institute of Technology.
13. S. Kaushik (24265A0213) secured the 1st Prize in the POTENZIA 2.0 (2024) – Ampere Search held on 22/11/2024 at Mahatma Gandhi Institute of Technology.
14. B. Siddardha (21261A0205) secured the 1st Prize in the POTENZIA 2.0 (2024) – Electro Phoria event on 22/11/2024 at Mahatma Gandhi Institute of Technology.

STUDENTS ACHIEVEMENTS

ECE



Students giving demo of their project during “Project Expo” on 22-11-2024 conducted by Department of ECE, MGIT as part of MICROCOISM 2.0(Yearly department Fest).

Two Domains, Two Achievements – ECE MGIT Excels at Hacktronics-2025

The students of the Department of Electronics and Communication Engineering (ECE), MGIT, have once again demonstrated their excellence on a national platform. At Hacktronics-2025, a 24-hour national-level hackathon organized by the Department of ECE, Anurag University, our students secured prestigious prizes in two distinct domains: VLSI and Embedded Systems & IoT.

STUDENTS ACHIEVEMENTS

With over 300 teams participating in the competition, five teams from ECE MGIT and IETE Student Forum MGIT took on the challenge. Four teams competed in the Embedded Systems & IoT category, while one represented the VLSI domain. Their efforts and dedication resulted in remarkable success.

VLSI Domain – FPGA Implementation with AI

A team comprising Mr. K. Venkata Sriram (4th Year ECE), Mr. Anoop Dorepally (3rd Year ECE), and Mr. C. Sri Harsha (3rd Year ECE) distinguished themselves with their project on “FPGA Implementation with AI.” Their innovative approach in integrating AI with FPGA-based hardware acceleration earned them recognition in the VLSI category.

Embedded Systems & IoT – Smart Parking Optimization

Another commendable achievement came from the team led by Mr. K. Saathvik Vardhan (3rd Year ECE), along with Mr. Sahith Reddy, Ms. Saanvi Salla, and Mr. Ananda Theertha (2nd Year ECE). Their project, “IoT-Based Smart Optimization of Parking Lots,” introduced an AI-driven real-time parking management system, securing a prize in the Embedded Systems & IoT domain.

A Remarkable Achievement for ECE MGIT

STUDENTS ACHIEVEMENTS

CSE

a) Co-curricular achievements of the students

ACM

On 18th October 2024, MGIT Students attended the ACM India Regional Chapter Summit 2024 hosted by the KLH Bachupally ACM student chapter. The session provided valuable insights from ACM council members on various aspects of ACM's values and principles. It also offered an excellent networking opportunity for like-minded computing enthusiasts. The Q&A session on research was particularly helpful for aspiring researchers. We look forward to hosting similar events in the future.

ET

1.S.Adithi (21261A6701), Rishav (21261A6753) - Students of Final Year CSD stood 2nd Runner in VJHackathon organized by VNRVJIET on 20th October 2024.

