

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.



1. TRAINING & PLACEMENTS

I. Placements and Training Activities

(i) Details of Placements:

Details of B.Tech. Placements								
S.No	CSE	ECE	EEE	IT	MEC	MCT	CIVIL	MME
1	82	58	33	16	11	5	7	19

(ii) Details of Placements placements:

S.No	Name of the Company visited	No of Students Recruited by the company	Details of package offered
1	MassMutual	5	5
2	PepsiCo	7	3
3	Satven	4	3.2
4	TMEIC	10	4.5
5	Midhani	7	4.08
6	JTP	1	24
7	Qapita Fintech	3	5.5
8	Intrainz	41	5
9	DMRL	1	2.4
10	Jindal Saw	1	4
11	TCS Salesforce	1	3.65
12	Proclink	1	3.5
13	CMR GreenTech	4	3.6

14	Human Cloud Technologies	7	3.5
15	Schlumberger	1	8.06
16	Sunglare Technologies	58	4
17	Cigniti	18	4.5
18	Cognizant GenC Next	2	6.75
19	M S Agarwal	2	3
20	PalTech	2	6
21	Global Aluminium	20	3.06
22	Giridhari Homes	3	4
23	Proctar & Gamble	14	9
24	Catalog	1	25





**M/S. COGNIDA.AI DRIVE PRE-PLACEMENT TALK
(III) DETAILS OF TRAINING ACTIVITIES GIVEN TO THE STUDENTS
TO SUPPORT THE PLACEMENTS:**

S.No	Details of the Training Activity/Workshop	Details of Training organization	Duration of Training
1	An Overview of the Technology Group at Franklin Templeton	Sri. Amresh Menedal (Director-Information Technology, Franklin Templeton)	29.02.2024 2:30PM to 3:30 PM 1 hour
2	Special program on “Cyber Security”	Mr. Praveen Kumar Tangella (President, ISACA Hyderabad)	05.03.2024 10:15 AM to 12:15 PM (2 hours)

2.NSS ACTIVITIES

S. No	Date	Name Of the Event/Program	Program Details	No. of Participants	Page Numbers
1	14-03-2024	Painting Competition	Organized painting competition with the theme Mera Pehla Vote Desh Ke Liye. Prizes and Certificates were distributed to the winners.	50	41-46
2	6/3/...	Mera Pehla Vote Desh Ke Liye	"Mera Pehla Vote Desh Ke Liye," program was organized to encourage students to understand their civic responsibility. Students learned the importance of voting and actively engaged in promoting democratic participation.	250	47-52
3	30-01-2024	Martyr's Day	Organized Martyr's Day program to honor the sacrifices of national heroes. Students participated in paying tribute, fostering patriotism, and remembering those who gave their lives for the nation's freedom.	250	53



DATE OF ACTIVITY: 06TH MARCH 2024

NO. OF STUDENTS PARTICIPATED: 250

NAME OF THE EVENT: MERA PEHLA VOTE DESH KE LIYE



ఎంజీఐటీ కళాశాలలో ఓటు హక్కుపై అవగాహన



విద్యార్థులతో ఓటు హక్కుపై ప్రతిజ్ఞ చేస్తున్న నిర్వాహకులు

నార్సింగ్, మార్చి 6 (ఆంధ్రజ్యోతి): మహాత్మా గాంధీ ఇనిస్టిట్యూట్ ఆఫ్ టెక్నాలజీ(ఎంజీఐటీ) కళాశాలలో ఓటు హక్కు వినియోగంపై బుధవారం అవగాహన కార్యక్రమం నిర్వహించారు. ముఖ్యఅతిథిగా హాజరైన కళాశాల ప్రిన్సిపాల్ చంద్రమోహన్ రెడ్డి ఓటు ప్రాధాన్యంపై విద్యార్థులకు అవగాహన కల్పించారు.

దేశ ఆర్థికస్థితిలో మెరుగుదలకు, ప్రగతికి మంచినాయకుడిని ఎన్నుకోవాలని సూచించారు. ఓటుతో మన దేశ ప్రగతిని మార్చవచ్చని ఆయన తెలిపారు. కార్యక్రమంలో డాక్టర్ రవిచందర్, డాక్టర్ సీహెచ్. శ్రీనివాసు, డాక్టర్ బర్బువాసి, డాక్టర్ రామకృష్ణ, వర్మ, డాక్టర్ సైదులు, మహేశ్, డాక్టర్ శ్రీహరి పాల్గొన్నారు.

సాక్షి

ముగిసిన ఓటరు అవగాహన కార్యక్రమం



ప్రతిజ్ఞ చేస్తున్న ప్రిన్సిపాల్, నిర్వాహకులు

రాజీంద్రవరం: కేంద్ర విద్య, యువజన వ్యవహారాల మంత్రిత్వ శాఖం సూచన మేరకు సీటీఐటీలో 'మేరా పేష్టా ఓటు దేశ కీ రియే' పేరిట నిర్వహించిన ఓటరు అవగాహన కార్యక్రమం బుధవారం ముగిసింది. దివంగత ముఖ్య అతిథిగా నార్సింగ్ మున్సిపాలిటీ కమిషనర్ ప్రదీప్ కుమార్ రెడ్డి హాజరై ఓటు, దాని విలువను వివరించారు. ప్రజాస్వామ్యంలో ఓటు అనేది వ్యత్యాసం అని పేర్కొన్నారు. కళాశాల ప్రిన్సిపాల్, ప్రొఫెసర్ సి.వి.సర్వేపాళయ్య ప్రజల వ్యాధి, ప్రజల కోసం అజ్ఞానం తొలగించే అన్న మాటల గురించి చెప్పారు. ప్రజాస్వామ్య దేశంలోని ప్రజలు ఎలాంటి ఒత్తిడి లేకుండా ప్రభుత్వాన్ని సెల్యుగా ఎన్నుకోవచ్చని పేర్కొన్నారు. కార్యక్రమాన్ని ఎన్నడూ ఆక్షరాస్యత క్షత-సీటీఐటీ నిర్వహించింది.

ఎన్ఎస్ఎస్ ఆధ్వర్యంలో..

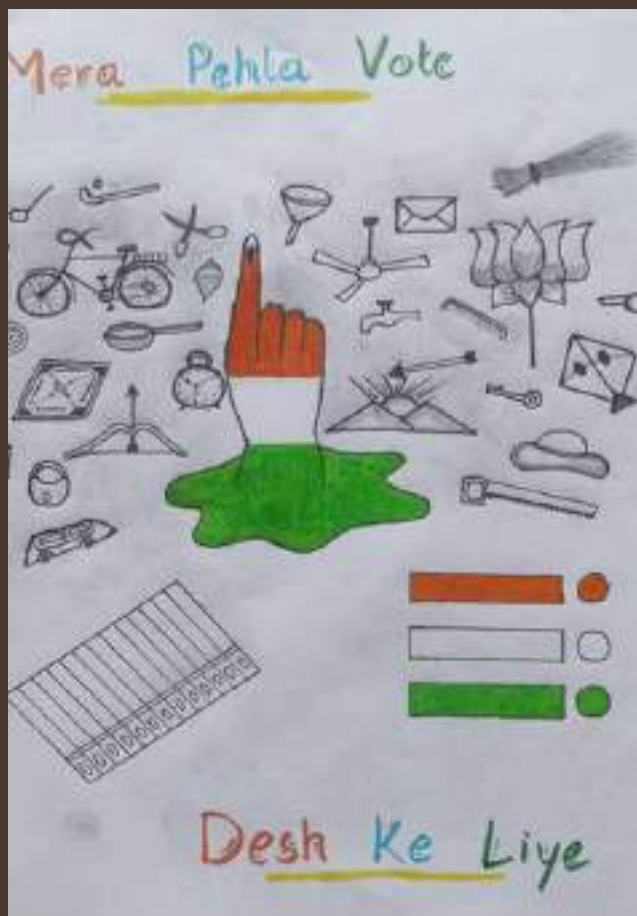
మహాత్మాగాంధీ ఇన్స్టిట్యూట్ ఆఫ్ టెక్నాలజీ కళాశాలలో ఎన్ఎస్ఎస్ యూనిట్ ఆధ్వర్యంలో భారత ప్రభుత్వ మంత్రిత్వ శాఖ ఇచ్చిన ఆదేశాలతో 'మేరా పేష్టా ఓటు దేశ కీ రియే' కార్యక్రమాన్ని బుధవారం నిర్వహించారు. ఈ సందర్భంలో కళాశాల ప్రిన్సిపాల్ డాక్టర్ జి.రంధ్ర మోహన్ ముఖ్య అతిథిగా పాల్గొని విద్యార్థులు, సిబ్బందిని ఉద్దేశించి ఓటు, దాని ప్రాముఖ్యతను వివరించారు. యువత తమ ఓటను జాగ్రత్తంగా వినియోగించుకుని సరైన నాయకుని ఎన్నుకోవాలని.. అప్పుడే దేశ ఆర్థికస్థితి సాధ్యమవుతుందన్నారు. అనంతరం ప్రతిజ్ఞ చేయించారు. ఎన్ఎస్ఎస్ ప్రాణం అదివారి డాక్టర్ జి.బాబీరెడ్డి, డాక్టర్ కె.ఎం.రవీందర్, డాక్టర్ సీహెచ్.శ్రీనివాస్, డాక్టర్ బర్బువాసి, డాక్టర్ ఎన్.రామకృష్ణ, వర్మ, డాక్టర్ సైదులు, మహేశ్, డాక్టర్ శ్రీహరి పాల్గొన్నారు.



Date of Activity: 14th March 2024

No. of students participated: 50

Name of the Event: Painting Competition



3. CLUB ACTIVITIES

3. Club Activities

a. Various activities organized by the student clubs

i. Events organized (Duration, No. of participants, Winners and Runners up details)

- Painting competition - The NSS unit in association with Arts club – MUSE organized a painting competition with the theme, “Mera pehla vote desh ke liye” as per the communication received from ECI secretariat through ministry of youth affairs and sports directorate of NSS Organized by MGIT on 14th March 2024 in B-303.
- FRESHSTYLE -VJIT Intercollege dance competition organized on UDHBHAV'2024 by Vidya Jyothi Institute of Technology, Hyderabad on 02-03-2024.
- Dance workshop by Beat – Cruisers, organized Dance workshop with a professional choreographer Mr. Michael Tej Raj in A-Block Auditorium, MGIT from 06-03-2024 to 12-03-2024.
- Live Jive Event NIRVANA-24 Dance Competition organized at Main Stage, MGIT on 23-03-2024.
- "JASHN-E-SAINMA" Dance Competition conducted by Department of Journalism & Mass Communication - Osmania University, Hyderabad, in association with the Department of Language and Culture, Government of Telangana Osmania University, Hyderabad on 28-03-2024. MGIT won the First prize in the Dance Competition.
- MUN-2-day event (Model United Nations) has been conducted in E-Block seminar hall (5th and 7th floor) on 18th-19th march 2024.

4 (i) Departmental Activities

Civil

(I) DEPARTMENT ACHIEVEMENTS:

- WORKSHOPS, SEMINARS, CONFERENCES, GUEST LECTURES, TRAINING PROGRAMMES ORGANIZED:
- Inauguration of IE(I) Student Chapter on 05.01.2024 by Dr. G. Venkata Subbaiah, Chairman of the Institution of Engineers (India), TS Centre.



- Guest Lecture on Ground Granulated Blast Furnace Slag – GGBS (IS 16714) for Strong, Durable, Sustainable & Green Concrete Construction, 05.01.2024, Guest Lecture, 1. Soma Venkat, Asst. General Manager, JSW Cement. 2. J Narendra, Asst. Manager, JSW Cement.



- Industrial visit to National Institute of Rural Development & Panchayat Raj (NIRDPR), Rajendra Nagar, Hyderabad on 11.01.2024 for B.Tech IIIrd Semester students of Civil Engineering Department.



- Field visit to JSW RMC Plant, Basuragadi village, Gandimaisamma, Hyderabad on 9th January 2024 for B.Tech Vth Semester students of Civil Engineering Department.



- Tech Fests: CINFRA-2024, 21.03.2024, National Level Technical Symposium, 170 students have participated, including 80 students from outside MGIT



- Alumni activities (Placement assistance, invited talk, Extension of Technical collaboration, etc.): Alumni name, affiliation details, nature of support and date
- Alumni talk on “Vital Elements in the Analysis ,Design and Execution of Bulidings” by Mani Vikas,Structural Engineer,MA Consulting Pvt. Ltd., Hyderabad on 09 – 03 – 2024.

 **MAHATMA GANDHI**
INSTITUTE OF TECHNOLOGY (A)
Kotapet, Hyderabad, Telangana - 500075
www.mgit.ac.in

MOTIVATE INNOVATE EMPOWER 26 YEARS

Department of Civil Engineering

Organizes

Alumni Talk

“Vital Elements in the Analysis, Design and Execution of Buildings”

by

Mr. Mani Vikas
Structural Engineer
MA Consulting Pvt. Ltd., Hyderabad.



EEE

The Department has organized One Week Online Faculty Development Programmes on “3 D’s(Digitalization, De-carbonization and De regulation) in Electrical Engineering” from 11-03-2024 to 15-03-2024 by

1. Dr. B.Koti Reddy Scientific Officer, Dept. of Atomic Energy, Ashwapuram
2. Dr.D.Sreenivasa Rao, Associate Professor ,EED, NIT, Warangal
3. Mr.G.Mahesh Kumar,DE, TSSPDCL, Hyderabad
4. Mr.T.Sreedhar, ADE, TSSPDCL, Hyderabad,
5. Mr.A.Raj Kumar, Chief Manager, SRLDC, Bangalore

The Department has conducted Workshop on “Electric Vehicle Technology & Battery Management System” for IV & VI Sem EEE Students on 13-03-2024 & 14-03-2024 by EV Retron Energies India Pvt Ltd, Hyderabad.



INDUSTRIAL VISITS:

- The department has organised Site visit to Renewable Energy Systems Limited, Jeedimetla, Hyderabad for VI sem Students on 12-01-2024.



- The department has organised Site visit to EV Retron Energies India Pvt Ltd, Patancheru, Hyderabad for VI sem Students on 12-01-2024.



The department has organised technical fest-Potenzia 2024 on 21st march 2024.



Mechanical

(i) Department achievements:

- Workshops, Seminars, Conferences, Guest Lectures, Training programmes organized: Title, duration, Nature of the event, details of the speakers, No. of participants from outside MGIT and Inside MGIT.

Skill Development Program on Basic trades of Engineering Workshop conducted between 08-10 February, 2024.

S. No.	Date(s)	Department	Details of Seminar /Workshop/Guest Lecture	Name of the Eminent Person(s) and organization who have	Venue and Target Audience
1	8-10 February 2024	MCT	Skill Development program on Basic trades of Engineering Workshop	Teaching Staff	MGIT & All Non teaching Staff of MCT and MME



- A three day Skill Development Program on House wiring, Carpentry, Tin Smithy, Fitting, Welding, Black Smithy and Foundry for all Non-Teaching Staff from 08.02.2024 to 10.02.2024, was organised by in the department of Mechanical Engineering. The purpose of this training is to acquaint themselves of all trades being offered to the UG students. The program is supervised by Dr. S. Madhava Reddy, Mrs. M. Pratyusha, Mr.K.Sarupya Santhosh and Dr. T. Niranjana.
- Mr. A. Madhusudhan, Mr.A.Venkat Reddy, Mr.A.Ranga Reddy (Skilled Assistant) and Mr.L. Premdas, Mr.P.Narasimha, Mr. Malla Reddy, Mr.T.Venkatesh Raju, Mr. A. Shiva Kumar, Mr. B. Mahendhar and Mr.Y.Surendhar Reddy given practical demonstration on various tools for performing specified jobs in various trades like carpentry, Tin Smithy, House wiring etc.

CARPENTRY



TINSMITHY



FITTING AND BLACKSMITHY



WELDING



FOUNDRY



MACHINE SHOP AND PLUMBING



- New Staff Details: Name of the faculty, designation, date of joining
- Collaborative R&D activities (Joint Research Papers, Patents etc. published IEEE format): Author initials. Last name, “Article title,” Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.
- Research projects (Joint) : Title of the project, collaborating faculty details, funding agency details, amount of funding
- Consultancy Work (Joint): Title of the work, collaborating faculty details, client organization details, amount of consultancy.
- Tech Fests: Events organised, No of Participants etc.

Technovation – 2024, Technical fest by Mechanical Engineering (Mechatronics) Department students conducted on 21-03-2024. The events like **Whisper Challenge, Robot Maze, Pictionary and Paper presentation** etc., are organized.

- IGNITO– 2024, Technical fest by Mechanical Engineering Department students on 21-03-2024. The events like Fusion 360, Tool Recognition, Assembly and Disassembly and Paper/Poster presentation etc are organized.
- The number of students participated from all branches in Technovation – 2024 and IGNITO– 2024 are 214

Paper Presentation



Whisper Challenge



Fusion 360



Tug of War



Find the word



Jenga Game



ECE

a)Events organized :

workshop on PCB designing Assembly:

- The Department of ECE recently organized its annual event, workshop on PCB assembly, with tremendous excitement and anticipation on 16th and 15th march 2024. This dynamic gathering provided students with a vibrant platform to showcase their technical skills, innovative ideas, and collaborative spirit. Nearly 80 students participated in PCB designing .
- The Department of ECE recently organized its annual event, Microcosm'24, with tremendous excitement and anticipation on 21st march 2024. This dynamic gathering provided students with a vibrant platform to showcase their technical skills, innovative ideas, and collaborative spirit. Microcosm '24 brought together a diverse mix of students, faculty members, and industry experts, fostering an atmosphere brimming with intellectual energy and creativity. Participants enthusiastically participated in various activities, including technical competitions, workshops, and interactive sessions.

- Throughout the event, the ECE department buzzed with lively discussions, coding challenges, and robotics demonstrations, as students proudly displayed their innovative projects and pushed the boundaries of technology. In addition to technical showcases, Microcosm '24 offered valuable networking opportunities, allowing students to connect with industry leaders and gain insights into their future careers. Moreover, the event emphasized the importance of teamwork and camaraderie, as participants collaborated on projects and celebrated each other's achievements.



CSE

(I) DEPARTMENT ACHIEVEMENTS:

- “AWS – CLOUD DEVELOPER ASSOCIATE”, 6-days, Workshop, K Pavan, Edcult Consulting Pvt. Ltd., 150 participants from outside MGIT and Inside MGIT.
- The Department of Computer Science and Engineering in association with EdCult Consulting Pvt. Ltd., has conducted one week industrial workshop on “AWS – CLOUD DEVELOPER ASSOCIATE” from 26 th February to 02 nd March 2024 (6-Days). The Participants are students of CSE, IT, ET and ECE departments from MGIT College. Total of 150 are shortlisted for workshop out of 225 registrations.





- “DevOps and Its Applications”, 6-days, FDP, Yasaswi Surabhi, Cloud Engineer in BrainO’ Vision Solutions India Pvt. Ltd, 75 participants from outside MGIT and Inside MGIT.
- The Department of Computer Science and Engineering has conducted one week Faculty Development Program on “DevOps and Its Applications” from 5 th February to 10th February 2024 (6-Days). The Participants are Faculty of CSE, IT, ET and ECE departments from MGIT College. Total of 60 staff are attended the workshop.



HACKSAVVY-24

1. "HackSavvy-24", National Level Hackathon, 20th-21st March 2024

"HackSavvy-24" Ideate Innovate Inspire- A 24 hours National Level Hackathon - Organized by all the Departments of MGIT. Themes- AI and ML/Cyber Security/IoT/Blockchain Technology/ Drone Technology/ Robotics/ Sustainable Infrastructure.

Students of various departments which include CSE, IT, ECE, MECH and EEE of All Over India actively participated. Over 750 students actively participated in building partial prototypes for their projects.

a. New Staff Details:

- Ms M Aruna joined as an Assistant professor in the department of CSE in February 2024.
- Mr S Prem Kumar joined as an Assistant Professor in the department of CSE in February 2024.
- Ms K Sunitha joined as an Assistant Professor in the department of CSE in March 2024.

b. Tech Fest: QUBIT-24

- Department of computer Science and Engineering conducts National lever tech fest every year with the name Qubit. In this event students from various colleges gather to showcase their technical skills and to display the working models. Students are encouraged to discuss their idea and networking opportunity provided with various stack holders like academia and Industry. We have conducted various Technical events and Non-technical events.



Departmental activities : IT

(i) Department achievements:

a. Workshops, Seminars, Conferences, Guest Lectures, Training programmes organized: Title, duration, Nature of the event, details of the speakers, No. of participants from outside MGIT and Inside MGIT.

- The Department of IT, in association with TASK, Mahatma Gandhi Institute of Technology, is organized a 3-day workshop on "Essentials of Data Science with R" from 27-02-2024 to 29-02-2024. The workshop will be conducted by Mr. Mutukuloju Pranay, a Technical Trainer from TASK, and will take place in room D-208. It is exclusively for TASK-registered students of VI Semester IT and CSB.
- The Department of IT, in association with TASK, Mahatma Gandhi Institute of Technology, is organized a 3-day workshop on "Database Programming with SQL" from 11-03-2024 to 14-03-2024. The workshop will be conducted by Mr. Vamshidhar Reddy and will take place in room D-208. It is exclusively for TASK-registered students of VI Semester IT & CSB and IV Semester IT & CSB.

- The Department of IT is organized a guest lecture on "Machine Learning in Finance: Transforming the Landscape" on 13-01-2024. The session will be delivered by Ms. Vaishnavi Yadavalli and is exclusively for I Semester IT & CSB students.
- The Department of IT is organized a guest lecture on "Search Engine Optimization" on 27-04-2024. The session will be delivered by Mr. Srujan Babu Yamasani, Software Developer at DLF (Co-Working Labs), Hyderabad, and is exclusively for II Semester IT students.

1. **New Staff Details:** Name of the faculty, designation, date of joining
2. **Collaborative R&D activities (Joint Research Papers, Patents etc. published IEEE format):** Author initials. Last name, "Article title," Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.
3. **Research projects (Joint) :** Title of the project, collaborating faculty details, funding agency details, amount of funding
4. **Consultancy Work (Joint):** Title of the work, collaborating faculty details, client organization details, amount of consultancy.
5. **Tech Fests:** Events organised, No of Participants etc.
6. **YUKTI-2024-:** Events organised-8, No of Participants-109
7. **TECKRITI-2024-:** Events organised-8, No of Participants-122
8. **Alumni activities (Placement assistance, invited talk, Extension of Technical collaboration, etc.):** Alumni name, affiliation details, nature of support and date

- On 13-01-2024, a session on "Machine Learning in Finance: Transforming the Landscape" was conducted by Ms. Vaishnavi Yadavalli, an alumna of the IT Department. The session provided valuable insights into the applications of machine learning in the financial sector, benefiting 32 participants.

ET

“Prolog Programming”, 12th Feb 2024 to 17th Feb 2024 (1 Week), National Level Faculty Development Programme,

- Resource Person - Mr. E. Krushnaraj,
- Team Lead & Technical Trainer
- Consensus Academy & Six Phrase
- Chennai, Tamil Nadu
- 42 participants

Writeup:

- Prolog programming centers on logical inference and rule-based reasoning, creating a continuous loop when in developers iteratively establish rules, pose queries, and derive logical conclusions. This iterative cycle highlights the collaborative essence of Prolog, essential for ongoing enhancements in the software development lifecycle. Through this logical loop, solutions can be refined and improved via repeated logical reasoning, rendering Prolog a potent instrument for crafting accurate, dependable, and flexible software solutions.





"HackSavvy-24", National Level Hackathon, 20th-21st March 2024

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Students of various departments which include CSE, IT, ECE, MECH and EEE of All Over India actively participated. Over 750 students actively participated in building partial prototypes for their projects.







a. New Staff Details:

1. Dr. Barnali Gupta Banik, Associate Professor, February 2024.
2. Ms. K. Divija, Assistant Professor, February 2024.
3. Ms. Mahammed Nazini, Assistant Professor, February 2024.
4. Mr. K. Vikas, Assistant Professor, February 2024.

TECH FESTS – CSM & CSD

COGNIVERGE- 2024 , 21st March 2024

- COGNIVERGE - 2024, the technical fest for students hosted by CSM branch under the department of Emerging Technologies on 21st March 2024, at MGIT, is an electrifying gathering designed to bring together like-minded individuals for a day of thrilling events and invaluable networking opportunities. Established in 2023, Think of "cogni" coming from "cognitive," like the mental processes involved in learning and thinking (think AI!). "Verge" is similar to words like "converge" - it implies the cutting edge or the outer limits. Fun events: Fun events like , IPL auction, anime mania, reel tagger, smash karts league, techie carnival engage students in entertaining yet mind boggling ride of memorable experiences. Competitions and Challenges: Test your skills and knowledge in a variety of competitions, ranging from Project expo, Robbery Bob, poster presentation, Mystery hack, unravelling escape, coding contests and generative AI to technical quizzes and rapid fire, designed to inspire innovation and excellence.



NEXPLORA- 2024 , 21st March 2024

- NEXPLORA - 2024, the technical fest for students hosted by CSD branch under the department of Emerging Technologies on 21st March 2024, at MGIT
- "Established in 2023, "NEXPLORA-2024" is our esteemed institution's flagship departmental fest, designed to epitomize the spirit of exploration and discovery. The word "NEXPLORA" is derived from the fusion of "Next" and "Exploration," symbolizing the journey towards the future through continuous exploration and innovation. Every year, NEXPLORA-2024 promises to be an exhilarating extravaganza, encompassing a plethora of events catering to both technical and non-technical enthusiasts. With a wide array of events, including Poster Presentation, PPT Presentation, Project Expo, Code Quest, Visual Aptitude, Flip mate, Under/Over 7, Memescape Madness, BGMI, Archery, Movie Madness, and Four Fun Fest, NEXPLORA-2024 aims to provide a platform for students to unleash their potential, broaden their horizons, and foster a culture of learning beyond the confines of traditional academia. Join us on this journey of exploration and discovery at NEXPLORA-2024!"

 **MAHATMA GANDHI**
INSTITUTE OF TECHNOLOGY
Kannur - 690 004, Kerala - 690 004, India

MOTIVATE 26
INNOVATE
EMPOWER YEARS

DEPARTMENT OF EMERGING
TECHNOLOGIES PRESENTS

NEXPLORA 2024



TECHNICAL EVENTS

- CODE QUEST
- VISUAL APTITUDE
- POSTER PRESENTATION
- PROJECT EXPO
- PAPER PRESENTATION

NON TECHNICAL EVENTS

- FLIPMATE
- UNDER/OVER 7
- MEMESCAPE MADNESS
- BGM
- ARCHERY
- MOVIE MADNESS
- FOUR FUN FEST

Chairman NEXPLORA:
Dr. M Rama Raju-HOD,ET
Associate Professor:
Dr. K. Mahesh Kumar-9866880478

Student coordinators:
Kannan Mandhekar: 739655546
D.Bharathi: 8143918999

Assistant professors:
Dr. B Yadaiah: 9030067577
Mr. K. Srinivas : 9600660028



MME

(i) Department achievements:

- Details of Workshops, Seminars, Conferences, Guest Lectures, Training programmes organized

I. Title: Recent Advances in Materials and Manufacturing Processes (RAMMP-2024).

- Nature of the Event: One Day Conference

Speakers:

- Dr. Jai Gautam, Dean, SEST, UoH, Dr. T. Muthu Kumar, Director, Production, MIDHANI, Dr. Komal Kapur, CEO, NFC, Hyderabad, Prof. B S Murty, Director, IIT/Hyd., Dr. Tata Narasinga Rao, ARCI Hyderabad, Dr. Joydip Joardar, ARCI Hyderabad, Dr. Satyam Suwas, IISc Bangalore, Dr. Arup Dasgupta, IGCAR Kalpakkam.

No. of participants from outside MGIT and Inside MGIT: 150 Members



II. Title: AI/ML in Engineering and Sciences

- Speakers: Saswath Bhattacharya, Head, MSME, IIT/Hyd.
- Participation: Faculty and students of MGIT and Research Scholars of IIT/H -- 30 Nos.
- New Staff Details: Nil

a. Collaborative R&D activities

- Dr. MP Phaniraj, Associate Professor, MME is collaborate with DMRL, IIT/Hyd. and IIT/B on different projects:
- Project on ML model to predict deformation behavior after nanoindentation of coated SS316L Restarted the projects jointly with IITH/DMRL) & IITM.
- Effect of Titanium alloying on kappa carbide formation & strength of Fe7Al ferritic steel jointly with IITH/DMRL
- Effect of boride additions (TiB₂ & ZrB₂) on strength of Fe7Al steel jointly with IITH
- ML model to predict creep rupture life of IN718' jointly with IITM

b. (Joint Research Papers, Patents etc. published IEEE format): Author initials. Last name, "Article title," Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.

- Dr. RVSM. Ramakrishna, "Review on Electrodeposited Ni-W Based Composite Coatings in High-Temperature Applications Concerning Oxidation Behavior", Metals and Materials International, Springer Publications, Volume 30, pages 1441-1458
- M. P. Phaniraj et.al, "The Role of Molybdenum on Room Temperature Tensile Behavior of Recrystallized Fe₃₀Mn₅Al₁CxMo Lightweight Austenitic Steels", Trans Indian Inst Met, 12 March 2024, <https://doi.org/10.1007/s12666-024-03310>

c. Research projects (Joint) : Title of the project, collaborating faculty details, funding agency details, amount of funding NIL

d. Consultancy Work (Joint): Title of the work, collaborating faculty details, client organization details, amount of consultancy.

e. Tech Fests: Events organised, No of Participants etc.

Title: Metallon 24

- Nature of the Event: National Level Technical Fest
- Chief Gues: Mr. Naresh, Scientist ISRO and Alumnus 2008 MME
- Participation: Students from MME, JNTUH, JNGP, and IIIT Basara
- Number of Participants: 100 to 130



- Alumni activities (Placement assistance, invited talk, Extension of Technical collaboration, etc.): Alumni name, affiliation details, nature of support and date

Mr. Naresh, Scientist, ISRO (2008 MME Alumni) --- Chief Guest for National Level Student Technical Fest Metallon 24

Mr. Aneshay Raj, MD, Exclusive Magnesium (2011 MME Alumni) – Sponsored Rs. 25,000/- to the student Fest Metallon 24.



P&C

(i) Department achievements:

- Workshops, Seminars, Conferences, Guest Lectures, Training programmes organized: Title, duration, Nature of the event, details of the speakers, No. of participants from outside MGIT and Inside MGIT.
- A guest lecture is organized from Department of P&C, MGIT on “The Importance of doing Research”, on 29th February by Dr. A. K. Singh, DMRL at E-301 – Seminar Hall, MGIT. Nearly 150 students of Final year and third year students of MGIT were participated.
- Consultancy Work (Joint): Title of the work, collaborating faculty details, client organization details, amount of consultancy.
- Dr. G Srinivas Reddy obtained research consultancy work on “Green synthesis of silver nano particles for enhanced electrode performance and other applications” with RVK Laboratories, Hyderabad of amount 24780/- w.e.f. 02/03/2024.

4(ii) - Faculty Achievements

CIVIL

- Mrs.P.Neeraja, Assistant Professor Received best paper award for the paper titled “Durability and mechanical properties of Self Healing, Fiber Reinforced Concrete” in International conference titled “International Conference on Materials Innovation and Sustainable Infrastructure (ICMISI-2024 organized by Vishnu Institute of Technology, Bhimavaram, AndhraPradesh. from 02.02.2024 to 03.02.2024
- Dr.V.Venkat Ramayya, Associate Professor, Civil Engineering Dept., Reviewed research article titled “Performance Comparison of conventional and Bio polymer modified asphalt mixtures for Airport Pavement” for Jordan Journal of Civil Engineering,February-2024.
- Dr.V.Venkat Ramayya, Associate Professor, Civil Engineering Dept., Reviewed research article titled “Modeling of Traffic Noise Along Urban Arterials” for Jordan Journal of Civil Engineering,January-2024.

EEE

Research Activities by the Faculty:

- Dr.P.Nagasekhar Reddy published a paper on “An intelligent speed control of BLDC motor”, in Journal of Non linear Analysis and Optimization(JNAO), January 2024.
- Dr.P.Nagasekhar Reddy published a paper on “Field oriented control of DFIG based wind energy system using batter system storage”, in OD Journal, January 2024.
- Dr.P.Ram Kishore Kumar Reddy published a paper on “Adaptive sliding mode control for speed control of BLDC motor”, in Industrial Engineering Journal, February 2024.
- P.Pradyumna published a paper on “17 level Inverter formed by cascading flying capacitor and floating capacitor H-bridges”, in Complexity International Journal, February 2024.

- Dr. P.Chandrasekhar, Dr.P.Ram Kishore Kumar Reddy published a paper on “Control and Management of Electrical Locomotive connected to Micro grid Stations”, in Journal of Non linear Analysis and Optimization(JNAO), March 2024

Mechanical

- Research Papers published (IEEE format):Author initials. Last name, “Article title,” Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.
- M A Alim Ahmed and S Madhava Reddy,IoT-Based Smart Hydroponic System and Monitoring of Plant’s Health through Image Processing, International Journal of All Research Education and Scientific Methods, Volume 12, ISSN: 2455-6211, Issue 1,Pp.985- 989, January 2024.
- S. Seenivasan, D.F. Melvin Jose, R.J. Golden Renjith Nimal, S. Madhava Reddy, M. Maniyarasan, S. Balasubramani and R. Girimurugan, Study on the Mechanical Behavior of Aramid Epoxy Composites with Coal Ash Filler, NanoWorld J 10(S1), S250-S258, March 2024, 10.17756/nwj.2024-s1-045. Indexed In Scopus: Scopus ID: 21100926589. Open Access Journal.
- R. Manivannan, T. Niranjan, S. Maniraj, R. Thanigaivelan, “Optimization of the Parameters of the Electrochemical Micromachining Process Using Artificial Neural Network (ANN) Models to established a Simple Relationship Between Machining Rate (MR), Overcut (OC) and Input Data”, Journal of New Materials for Electrochemical Systems, 27, no. 1 (2024)(01.01.2024)
- K Santosh Kumar, P Shashidar, C. Sucharitha “BLENDING VIRGIN WITH RECYCLED POLYPROPYLENE CHAIRS ANDOPTIMIZATION OF INJECTION MOULDING PROCESS PARAMETERS” Industrial Engineering Journal,Volume: 53, Issue 3, No. 2, Page no:19-27, March: 2024, ISSN: 0970-2555
- K Santosh Kumar, P Shashidar*, B. Govinda Reddy, “DESIGN AND FABRICATION OF NON-WOVEN NEEDLE PUNCHING MACHINE” Industrial Engineering Journal,Volume: 53, Issue 3, No. 3, Page no:120-127, March: 2024, ISSN: 0970-2555.

- P Shashidar, C. Sucharitha “STUDY AND FABRICATION OF OPTIMIZED DIP RESIN BATH” Industrial Engineering Journal, Volume: 53, Issue 2, No. 4, Page no:58-64 February: 2024, ISSN: 0970-2555

1. Research Projects: Title of the project, faculty details, funding agency details, amount of funding
2. Consultancy works: Title of the work, faculty details, client organization details, amount of consultancy
3. Patents: granted / published Inventor name, Initials. (Year). Title of patent (Country/Region Patent No. Number). Issuing Body. URL

ECE

International Journals:

- Archana Yadav, “Indoor Dead Reckoning System”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, p-ISSN: 2347-6710, Volume 13, Issue 2, February 2024. Impact Factor: 8.423. DOI:10.15680/IJIRSET.2024.1302032.
- Archana Yadav, S. Sai Swaroop, T. Nagendra Babu, “AI Based Automatic Robbery/Theft Detection using Smart Surveillance in Banks”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, p-ISSN: 2347-6710, Volume 13, Issue 1, January 2024. Impact Factor: 8.423. DOI:10.15680/IJIRSET.2024.1301016.

SCI / Web of Science Journals:

- D.Subhashini, Srilatha Indira Dutt V.B.S , “Integrated approaches for road extraction and de-noising in satellite imagery using probability neural network”, AIP Advances, 9 February 2024, (SCI-E). <https://doi.org/10.1063/5.0188523>.



ECE Dept. conducted an Alumni talk on “Circuit Chronicles : A Journey into VLSI Awareness” for undergraduate students on 10-05-2024 by B.Tejasri, Senior physical design engineer, SoCtronics technology pvt ltd.



CSE

- Dr A Ratna Raju has been awarded Ph.D. from JNTU Hyderabad for his contribution in the field of Medical image processing - “Brain Tumor classification through Hybrid and Semantic Segmentation using CAR-UNET Architecture” in March 2024.
- Dr. K. Srikala was honoured for Excellence in Research at the TAPA & Women’s Day event on 10th March 2024.
- Dr P Shyam Sunder has been awarded Ph.D from Osmania University Hyderabad for his contribution in the field of Cloud Computing –“Efficient Task Scheduling in cloud computing Environment using Metaheuristic Algorithms” in January 2024.

IT

- Research Papers published (IEEE format): Author initials. Last name, “Article title,” Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.
1. J. Hima Bindu, Assistant Professor in the Department of IT, presented and published a research paper titled "Classification of Brain Tumor Images Using Segmentation and Transfer Learning" at the 5th International Conference on Mobile Computing and Sustainable Informatics, held on 18th – 19th January 2024. The paper was included in the conference proceedings.
- Research Projects: Title of the project, faculty details, funding agency details, amount of funding
 - Consultancy works: Title of the work, faculty details, client organization details, amount of consultancy
 - Patents: granted / published Inventor name, Initials. (Year). Title of patent (Country/Region Patent No. Number). Issuing Body. URL
1. Meenakshi's patent, titled "Advancements in Wildlife Management: Machine Learning-Driven Sensor Data Fusion for Animal Monitoring," was published on 05-01-2024.
 2. J. Hima Bindu's patent, titled "Embedded Wireless Sensor-Based Sleep Monitoring System," was published on 08-03-2024.
 3. M. Varalakshmi's patent, titled "Deep Learning and AI for Enhanced Image and Video Analysis," was published on 08-03-2024.

ET

- Ms. D.Deepika, Dr. G. Rekha, “ Highly accurate EEG Signal classification using Multiple Feature Extraction and LSTM networks” “Journal of Biomedical Photonics and Engineering” Scopus indexed Journal, Vol 10, No 1, DOI: 10.18287/JBPE24.10.010304 , Mar 2024- Scopus Indexed Journal.
- Ms. Sreedevi Jasthy, “Comparative Analysis of Machine-Learning Algorithms for Accurate Diagnosis of Lung Diseases Using Chest X-ray Images: A Study on Balanced and Unbalanced Data on Segmented and Unsegmented Images”, The Cureus Journal of Medical Science, Vol 16, Issue 1, DOI:10.7759/cureus.53282 – Jan 2024, Web of Science, PubMed.
- Dr. Barnali Gupta Banik has elevated to the grade of IEEE Senior Member on 27th Jan 2024.



- Ms. D.Deepika has successfully cleared the TalentNext certificate assessment and is recognized as a mentor for project-based learning (PBL) in Java Full Stack. Digital Skills Readiness Program Wipro Certified Faculty on 12th February 2024.



MME

- Research Papers published (IEEE format): Author initials. Last name, “Article title,” Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.
- Research Projects: Title of the project, faculty details, funding agency details, amount of funding
- Consultancy works: Title of the work, faculty details, client organization details, amount of consultancy
- Dr S Santhi, has received a consultancy project on Materials for Liquid Ramjet Engine from Defence Research and Development Laboratory, Hyderabad for an amount of Rs 3,00, 00
- Patents: granted / published Inventor name, Initials. (Year). Title of patent (Country/Region Patent No. Number). Issuing Body. URL NIL

M&H

The following faculty members of M&H, have published / presented papers in both National and International Conferences / Seminars:

- Mr. K. Jayaramudu, published a paper titled, “Archetypal criticism” in the novel “The God of Small Things” Google Scholar (IIP).

The following faculty members participated in National and International Conferences / Seminars / Workshops/ FDPs:

- Dr. V. Aparna Reddy, participated in One-Day National Level Workshop on “National Education Policy (NEP_-2020: A Workshop for Educators”, organised by the department of English, Central University of Kashmir, Ganderbal, J&K on 15 March 2024.
- Dr. Gousia Sultana, participated in One-Week Online FDP on “Literary Landscape of India’s Northeast Writings”, organised by Career Development Cell (CDC), Gokul Global University, Siddhpur, Gujarat, 4 – 10 March 2024.
- Dr. Gousia Sultana, participated in One-Day National Level Workshop on “National Education Policy (NEP_-2020: A Workshop for Educators”, organised by the department of English, Central University of Kashmir, Ganderbal, J&K on 15 March 2024.
- Dr. V. Srinivasa Rao, participated in One week online FDP on “Research Methodologies and Publication Strategies” from 12th to 16th February, 2024, organized by School of Management Studies, C.B.I.T.

P&C

- Research Papers published (IEEE format): Author initials. Last name, “Article title,” Journal Name, vol. Volume, no. Number, pp. Page range, Month Year, DOI.
1. E. G. Satish, N. Mahesh, R. R. Al-Fatlawy, G. Srinivas Reddy and S. K. S, Remote Sensing Image Scene Classification Based on an Enhanced Attention Module 2024 SJB Institute of Technology, Bangalore, on 15 & 16.03.2024. IEEE conference International Conference on Distributed Computing and Optimization Techniques (ICDCOT), Bengaluru, India.
 2. Dr G. Kumaraswamy, Assistant Professor, Dept. of P&C attended a workshop on “ORCID and INFLIBNET services for scholarly communities” through online.
-
- Patents: granted / published Inventor name, Initials. (Year). Title of patent (Country/Region Patent No. Number). Issuing Body. URL
1. Dr. Srinivas Reddy Golkonda. Prof. (Dr.) B.K Sarkar Mr. Pawan Kumar Singh. Prof. (Dr.) Vandana Singh. Prof. (Dr.) Reena Singh obtained patent on (2024) Digital Solar Panel with patent no. 405475-001 (Design Patent).
 2. Dr. Satish Kumar Maragani, Manivel Muralidaran Velumani, Lakshmanan Sorakka Arunagiri, Dr. Venkatasamy Sundararaj Nishok, Virendra Jain, Dr. Srinivas Reddy Golkonda obtained patent on (2024) “device for stabilising electric voltage” by UK Govt. Design Patents.

4 (iii) Student Achievements

MECH

- Academic achievements of the students (Prize winning or Recognitions only):
Name of the student, event attended, date and venue, details of the recognition received
- Co-curricular achievements of the students (Prize winning or Recognitions only):
Name of the student, event attended, date and venue, details of the recognition received

ECE

- CO-Curricular Achievements of the students:
 1. B Charitha yadav ((23261A0469) won First prize in Cinephile challenge MGIT,HYDERABAD.
 2. M Ruthik((23261A04B1) won First prize in Elecro fusion MGIT,HYDERABAD
 3. S.Sai Krishna((23261A04B4) won First prize in Elecro fusion MGIT,HYDERABAD.
 4. G.Chethan(21261A0487)won First prize in Event on memory Hungama,MGIT,HYDERABAD

Students achievements: IT

- Academic achievements of the students (Prize winning or Recognitions only):
Name of the student, event attended, date and venue, details of the recognition
- Co-curricular achievements of the students (Prize winning or Recognitions only):
Name of the student, event attended, date and venue, details of the recognition received



