



# MAHATMA GANDHI INSTITUTE OF TECHNOLOGY (Autonomous)

Kokapet(Village), Gandipet, Hyderabad, Telangana – 500075. [www.mgit.ac.in](http://www.mgit.ac.in)

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# NEWSLETTER

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**Oct - Dec 2023**  
**Issue 4**



**Sri Praveen D. Reddy,  
Chairman, CBES**

## Chairman's Message

I am extremely happy to learn that the Newsletter for the months of Jan-March 2023 is coming out shortly. It is indeed a pleasure to get a whole lot of information and new ideas in the form of this quarterly news magazine of MGIT.

At MGIT, Education springs new hopes and aspirations for a bright future, because of this, students have the opportunity to learn and get mentored by a highly qualified faculty for their further educational and research opportunities. Moreover, the Institute is proud to mention its well-equipped Laboratories and state-of-the-art facilities which remain as benchmark for science and engineering education in the country. The Institute feels that its students are the core of its existence and the institute always puts its best efforts and raises the bar to provide quality education to all the students by exploring innovative ideas and strategies for effective teaching and learning process.

I congratulate the entire team of the Newsletter on bringing out the present education and sincerity. Hope that it will inform and impress all the students, teachers, parents and alumni of MGIT.

**Sri Praveen D. Reddy,  
Chairman, CBES**



**Mr. J. Pratap Reddy,  
Secretary, CBES.**

## Secretary & Correspondent Message

Service to man is service to God. I urge all the teaching fraternity and the student community to walk the talk. It's not only thoughts that deliver but actions which need to be cultivated. Togetherness is the key to success. I believe the pandemic taught us the greatest lesson of all, i.e., to "stay united or perish". I started to ponder over the significance of humanity and its relevance in times of crisis. I can say that together we won the greatest battle of all, against the deadly

COVID. Once again we learnt that mankind can succeed against all odds with the willpower and perseverance.

Consistency is the key to success. For a student, a right balance of academics is the need of the hour. They need to look out for overall progress not neglecting the human ethics and values for better results. A good score is definitely a great advantage as it provides a basic foundation for the aspiring individuals. I hope all the students would live up to it. I urge all the students to gain right scholarship and erudition.

Best of Luck

**Mr. J. Pratap Reddy,  
Secretary, CBES.**



**Prof. G. Chandra Mohan  
Reddy,  
Principal, MGIT.**

## Principal's Message

I congratulate the Teachers and the students for bringing out another edition of the Newsletter. The Institution is abuzz with various academic and non-academic events giving impetus to the skills that the students possess leading to experiential learning. The main purpose

of the Newsletter is to plan, inform, engage, inspire and entertain a diverse readership-including Teachers, students, alumni, parents and others.

MGIT shares a unique culture of maintaining the clubs and cells through various activities which are conducted throughout the year making the college vibrant and fun loving. It is a pleasure to be part of a team which strives to bring out the best

**Prof. G. Chandra Mohan  
Reddy,  
Principal, MGIT.**

# EDITOR BOARD

## Chief Editors:

- Dr. G. Chandra Mohan Reddy
- Dr. K Sudhakar Reddy

## Faculty Editors

- Dr. V. Harileela
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## Student Editors

- M. V. Sai Prathusha, ECE
- Bulusu Akshit, ECE
- Kancherla Taruna, CSB

# Training & Placement Activities

## Department-wise Placements

S.No	CSE	ECE	EEE	IT	MECH	MCT	CIVIL	MME
1	20	20	5	5	9	1	0	1

## Details of Companies Visited

S.No	Name of the Company Visited	No of Students Recruited by the Company	Details of Package Offered(LPA)
1	DataInsight	0	18
2	DeltaX	1	7
3	Crowe	4	6
4	JSW	3	6.5
5	Databeat	18	5
6	Colorshine	17	3.5
7	Skillsoft	1	10
8	Accenture	16	5
9	Deloitte	3	2
10	Elenjical Solutions	1	7.15
11	E - Litmus	1	6.05
12	Deloitte	3	4.5
13	Unschool	9	5.3
14	Bluedanio Sea Services	12	6.25
15	Virtusa(Ongoing)	0	5.5

## R&D at MGIT

### FUNDED PROJECTS

**Name:** Dr. Archana Jain

**Title:** Development of achiral and iso-selective Alkaline-Earth Metal catalysts to produce highly stereo controlled biodegradable polymers.

**Funded Amount:** Rs.18,30,000/-

### PATENTS

**Name of the Faculty** : Dr S Madhava Reddy

**Title of patent** : Traffic sign signaling and Detection system using Radio Frequency Communication

**Status** : Published, dt.24/11/2023

**Name of the Faculty** : B. MEENAKSHI

**Title of patent** : Advancements In Wildlife Management: Machine Learning-Driven Sensor Data Fusion For Animal Monitoring

**Status** : Filed on 05.12.2023 & Published on 05.01.2024

# In-House Activities

## FDP/STTP/Workshop/Seminar/Guest Lecture etc. organised

### Department of Civil Engineering

**Event** : Seminar  
**Title** : Building the Future: Civil Engineers as Community Architects  
**Resource person** : Er. Nanda Gottiparthi, SNG & Associates, California, USA

### Department of Electrical and Electronics Engineering

**Event** : Guest Lecture  
**Title** : Campus Energy Monitoring  
**Resource person** : Dr.Y.Pradeep Kumar,Associate Professor, Dept. EEE, IIT Hyderabad

### Department of Information Technology

**Event** : Workshop  
**Title** : Network Simulation-NS2  
**Resource person** : Ms. Rasagnya Kadari, NS2 Technical Trainer, TASK

**Event** : Workshop  
**Title** : Java Foundation  
**Resource person** : Mr. Mutukuloju Pranay, JAVA Technical Trainer, TASK

### Department of Mathematics & Humanities

**Event** : Guest Lecture  
**Title** : Mathematical Modelling : Engineer's perspective  
**Resource person** : Dr. Srivaths, Head Modelling and Simulation, Scientist-G, DMRL

# **Faculty Participation in Conference/Workshop/Seminar/FDP/Webinar**

## **Department of Civil Engineering**

- S. Jayaprakash, attended International conference on "Condition Assessment, Rehabilitation & Retrofitting of Structures" on 11-13th December 2023, Indian Institute of Technology, Hyderabad.

## **Department of Mechanical Engineering**

- Dr. S. Madhava Reddy, presented a paper in International conference on Advances in Materials and Manufacturing Technology on "Experimental Investigations and Optimization of Process Parameter through High Speed Hard Turning Process on C45 Steel", organized by Department of Mechanical Engineering, CUIET-Applied Engineering, Chitkara University, Punjab.3 – 4 November, 2023.
- Dr. Srinivasa Rao, Keynote forum speaker for an article - Article Affiliation-Affiliated Country in "The 11th Annual World Congress of Ocean (WCO-2023)" – The 21st Conference on International Exchange of Professionals – Parallel Session in Japan and Cluster Meeting of Gala Technology 2023 on November 15-17, 2023.
- Dr. Srinivasa Rao, distinguished speaker for Synthesis of a Three - Degree of Freedom (3-PRS) Parallel Spatial Robot Manipulator in Global Congress on "Advanced Satellite Communications 2023" Organized by Peers Alley Media 2023 on November 16, 2023 .

## **Department of Electronics and Communications Engineering**

- Dr. S Praveena, presented a paper on "Early Prediction of Diabetes and its Risk Factors Based on ARIMA-ELMAN ANN Network" in 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT).
- Dr. S Praveena, presented a paper on "Prediction of Cardiovascular Disease Risk in the General Population: a GSA-ELM Approach" in third International Conference on Innovative Mechanisms for Industry Applications (ICIMIA 2023).

## **Department of Information Technology**

- Dr. D. Vijaya Lakshmi, presented a paper on "Healthcare Mobile App for Rural Areas and Recent Advancements" in 5th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA) organized by IEEE Hamburg, Germany 07-08 October 2023.
- J. Hima Bindu, presented a paper on "An Extensive Review of Intellegent Deep learning based Anomaly Detection and Classification of 3D MRI Brain Imaging Data" in 5th International Conference on Computer Networks , Bigdata and IoT (ICCBII-2023).
- Suba S, presented a paper on "Attention-CNN Model for COVID-19 Diagnosis Using Chest CT Images" in International Conference on Pattern Recognition and Machine Intelligence.

## **Department of Emerging Technology**

- M. Rama Bai, presented a paper on “A Model for Automatic Recognition of Medicinal Plant Properties and its usage using Artificial Intelligence” in 1st International Conference on Computing for Science, Engineering & Artificial Intelligence (CSEAI) 2023 organized by Lendi Institute of Engineering & Technology, 17- 18th November 2023, Vizianagaram.

## **Department of Mathematics & Humanities**

- Dr. Gousia Sultana, attended and stood as best participant in Faculty Development Programme (FDP) on “Indian Knowledge System in the Context of NEP-2020” organized by Department of Humanities and Mathematics in association with IKS Research Centre-Samskruta Bharati, Telangana, at G.Narayanaamma, Institute of Technology & Science), Hyderabad, during 18 - 22 December 2023.
- Dr. V. Aparna Reddy, attended Faculty Development Programme (FDP) on “Indian Knowledge System in the Context of NEP-2020” organized by Department of Humanities and Mathematics in association with IKS Research Centre-Samskruta Bharati, Telangana, at G.Narayanaamma, Institute of Technology & Science), Hyderabad, during 18 - 22 December 2023.
- Ms. G. Maibu Rani, attended Faculty Development Programme (FDP) on “Indian Knowledge System in the Context of NEP-2020” organized by Department of Humanities and Mathematics in association with IKS Research Centre-Samskruta Bharati, Telangana, at G.Narayanaamma, Institute of Technology & Science), Hyderabad, during 18 - 22 December 2023.

## **Department of Physics and Chemistry**

- Dr. Archana Jain presented a paper on “Online Short-Term Training program Department of Chemistry, Vardhaman College of Engineering (Autonomous), Hyderabad” at Advancing Frontiers: Integral Role of Chemistry in Science and Technology (AF-IRCST 2023) from November 20th to 25th,2023.
- Dr. B. Venugopal Rao attended a conference on “Physics of Functional Materials and Devices” IIT KHARAGPUR during 24.07.23 to 13.10.2023

# Research Publications in National/International Journals

## Department of Civil Engineering

- K.Govind Goud, "Experimental investigations on high temperature properties of dual modified asphalt binders with PPA and PMB using rheological tests", AIP Conference Proceedings, Vol. 2855, Issue 1, Pg. 1-13, Dec. 2023, <https://doi.org/10.1063/5.0168221>.
- S.Jayaprakash Narayana, "Compressive Behaviour Of Geopolymer M50 Grade Concrete With Steel And Polypropylene Fibers" Material Science And Technology, Vol.22 No.11, Nov, 2023, Doi:10.10543/F0299.2023.41770

## Department of EEE

- Ch. Vinay Kumar, Dr. G. Madhusudhan Rao, Dr. A. Raghu Ram, "Sensor less BLDC Motor drive using a multi-sector space vector PWM method based on ANFIS", International Journal of Intelligent Systems and Applications in Engineering, Volume 12, Issue 7, pp:7-19, December-2023.
- Bugga Shailaja, N. Madhuri, "Modified Bridgeless Converter Fed EV Battery Charger with Improved Power Factor", Industrial Engineering Journal, Volume: 52, Issue 11, pp:419-433, November: 2023.

## Department of Mechanical Engineering

- Srinivasa Rao Pundru, " Workspace Analysis of Calibrated Multi-position Synthesized 3-Prismatic-Revolute-Spherical Manipulator", J. Inst. Eng. India Ser. C, <https://doi.org/10.1007/s40032-023-01017-9> on 04 December 2023.
- G Sandeep, P. V. Prasad Reddy, "Autonomous Rocker Bogie For Plant Irrigation System" Organization Development Journal, ISSN 0889-6402, Volume 29, Issue 11, page.150-157, November, 2023.
- Hari Krishna Polasa, K.Sirisha, Dr.R.Uday Kumar, "ATTITUDE CONTROL SYSTEM IN A FREELY FALLING BODY", Organization Development Journal, ODJ, Vol.29, Issue 11, page no. 136-149, November 2023.
- Bandapalli, C., B. Singaravel, and T. Niranjan. "Experimental Investigation on Single Point Incremental Forming Process Using Conventional Fluid and Solid Lubrication." NanoWorld J 9, no. S4 (2023): S356-S360. November, 2023.
- Chintala D, Madupolu AK, T. Niranjan, Singaravel B, Begori V. 2023. Performance of Hybrid Micro Textured Drill Tool and Nanofluid in Drilling of Aerospace Alloy. NanoWorld J 9(S4): S350-S355, November, 2023
- Thiruchinapalli, Niranjan. "Process parameters influence in micro hole drilling of electrochemical micromachining of stainless steel." In AIP Conference Proceedings, vol. 3006, no. 1. AIP Publishing, 2023, Dec - 2023.

## **Department of ECE**

- Mr. A Balaraju & Dr. S. P. Singh, “The Design and Analysis of the Sidelobe Reduction Filter for Polyphase Frank Codes” IETE Journal of Research, December 2023 <https://doi.org/10.1080/03772063.2023.2185307>.
- Dr.T.R. Vijaya Lakshmi, “Modeling and simulation of bacterial foraging variants: acoustic feature selection and classification”, Signal, Image and Video Processing, 5th October 2023. (Scopus) <http://doi.org/10.1007/s11760-023-02783-w>.

## **Department of P&C**

- Archana Jain, Himadri Karmakar, Peter W. Roesky, and Tarun K. Panda ”Role of Bis(phosphinimino)methanides as Universal Ligands in the Coordination Sphere of Metals across the Periodic Table” Chemical Reviews Vol. 123, issue 23, pp 13323–13373 0009-2665 (Print) December 2023.

## Faculty Achievements/Awards/Recognitions: Faculty members awarded Ph.D. in their respective areas of research:

- Dr.Swathi Paliwal , Assistant Professor, EEE Department, Awarded Ph.D from Amity University, U.P on “Performance Investigation of Series Compensated Induction Generator in Wind Energy Conversion System” during December 2023.
- Dr.Shyam Sunder Pabboju, awarded Instrumental Role as SPOC for NPTEL Local Chapter by NPTEL,IIT Madras.
- Dr V Subba Ramaiah, awarded Topper of 5% in Cloud Computing certification Course by NPTEL,IIT Madras.
- Dr.T.R.Vijaya Lakshmi, delivered a talk on “Empowering access to research - Altmetrics & Introduction to Latex”.
- Dr Hari Leela.V, Delivered Keynote address as Chief Guest for a conference on “Digital Transformation in the Business World” organized by Sridevi Women’s Engineering College on 23rd Dec 2023.

## Awards/Courses

- Dr.Shyam Sunder Pabboju, awarded Instrumental Role as SPOC for NPTEL Local Chapter by NPTEL,IIT Madras
- Dr V Subba Ramaiah, awarded Topper of 5% in Cloud Computing certification Course by NPTEL,IIT Madras

## Faculty Appointed

- Mr. K. Jayaramudu, Assistant Professor (English), Dept. of M&H, DOJ: 05.12.2023.

## Details of Extra-Curricular Activities of Students

- Young Artists camp – painting (eve of Independence Day celebrations) on June 28th 2023 conducted by Art club, MGIT
- CREATIVITY Contest - Navratri on 21/10/2023 organized by Arts club - MGIT
- Portrait Sketching Workshop on 19/12/2023 organized by Arts club - MGIT
- SYNAPSE - A two-day intra-college events from 28/12/2023 to 29/12/2023 organized by Idea Incubator club - MGIT
- NAAC Peer TeamVisit on 15/12/2023 organized by Music Club - MGIT
- FRESCO 2023 (MUSIC CLUB AUDITIONS) on 23/12/2023 organized by Music Club - MGIT
- EVENT EUPHONY @MGIT on 18/12/2023 organized by Music Club - MGIT

## Alumni Activities

- Ms. Nikitha Lohia, 2019, Mechanical Engineering, Research Scholar (Ph.D), Indian Institute of Technology, (IITH), Hyderabad gave lecture on "Latest Research in Mechanics, Physics, Rheology", 16.12.2023.
- Mr. Dhruva Rao, 2018, Mechatronics Engineering, Business Development Director, M/s Athena Edtech Pvt. Ltd, Hyderabad, Guest Lecture on " Entrepreneurship and Building your own start up", 20.10.2023.
- The Alumni Association aka Alumni Activities Center, MGIT has staged the MGIT Alumni Meet & Greet in the evening of August 26, 2023 in the Institute premises. The prime objective of conducting the event is to reconnect with the Alumni and celebrate their professional accomplishments in various fields and also to create an opportunity for the alumni to catch up with each other and relive old memories. Professor G. ChandraMohan Reddy garu, Principal, MGIT welcomed all the Alumni of the Institute and the event was graced by the honorable Chairman, Sri Praveen D Reddy garu. The Homecomers (Alumni) have addressed the undergraduate students and held fruitful interactions with them with respect to career moulding, professional development and Academic progression The spectacular dance performance by the students of Dance Club and the melodious singing performance by the students of Music Club were feast to the eyes and ears.
- The MGIT Alumni Association has staged the Institute Alumni Reunion on December 22, 2023 in the Institute premises. The event was graced by the honourable Chairman, Shri Praveen D Reddy. The Home comers (Alumni) reached their alma mater by 5.00 PM. Dr. G. Chandramohan Reddy, Principal MGIT, Dr. K. Sudhakar Reddy, Vice-Principal, MGIT and the Convener Dr. RVSM. Ramakrishna welcomed all the Alumni and thanked for being a part of the occasion. HoDs of all the Departments, Functional Heads, staff and students of MGIT were among the participants. Alumni had a fruitful interaction with the current final year students and shared tips pertaining to higher studies, the career guidance and placements. Alumni also clarified the doubts asked by the students about current job opportunities. The evening was filled with fun-filled activities (cultural performances) by the current students of MGIT

## Students' Participation / Achievements (Co-Curricular/Extracurricular)

- Boda Sanghavi (21261D2011) was awarded Outstanding Thesis(masters) by Indian Concrete Institute, IAS officers club, Begumpet, Hyderabad.
- K. Adarsh Rao (22265A0216) completed a course on “Business Communication Skills by Intenshala”.
- K. Adarsh Rao (22265A0216) completed a course on “Data Transfer Instructions by Mind Luster”.
- K. Adarsh Rao (22265A0216) completed a course on “Python for data analytics and fundamentals by Mind Luster”.
- K. Adarsh Rao (22265A0216) completed a course on “Graphic Design Photoshop”.
- K. Adarsh Rao (22265A0216) completed a course on “3D Printing Technologies by Mind Luster”.
- K. Adarsh Rao (22265A0216) completed a course on “Communication Circuits Experiments”.
- K. Adarsh Rao (22265A0216) participated in e-pledge on “Khadi Mahotsav by MyGov”.
- K. Sharanya (22261A0221) participated in treasure hunt conducted by “Ransack Rookies by Nova-The Literary club at MGIT”.
- K. Nandan Varma (22261A1418) participated in “IOT and Robotics, BITS, Hyderabad”.
- AV Sai Vardhan (22261A0301) participated in “IOT and Robotics, BITS, Hyderabad”.
- K Venkata Sriram, Anoop Dorepally, Abhishek Sharma, Jayanth Dharmapuri, Nitish Akula, Pavan Kumar, Deepika Rathod, ElectroForge Innovations won a Rs 1,00,000 cash prize as a capital investment at Founders Fest 2023.
- Yedida Phani Sri Sathvik (20261A04H9) participated in Webinar on “ the Impact of 5G: Creating New Value across Industries and Society”.
- Yedida Phani Sri Sathvik (20261A04H9) participated in internship on “Course on “Data Analytics”, Teachnook”.
- Sai Phanindra (22261A0422) participated in internship on “Electronics Workshop, IETE Student forum, MGIT”.
- S.SAIKRISHNA BANGAR (23261A04B1) participated in “Electronics Explorer Bootcamp”.
- Polishetwar Sravani (21261A04H3) participated in “Full stack java workshop”.
- UPPUTHELLA ANUSHA (22265A0420) participated in “Develops for web development, Devtown”
- UPPUTHELLA ANUSHA (22265A0420) participated in “Internship on VLSI”.