



MAHATMA GANDHI INSTITUTE OF TECHNOLOGY (Autonomous)

Kokapet(Village), Gandipet, Hyderabad, Telangana – 500075. www.mgit.ac.in

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NEWSLETTER

ISSUE :





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.

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

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**



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.**

Training & Placement Activities

MGIT partners with CIGNITI, a world's leading AI & IP-led digital assurance and digital engineering company



Mr. Veera Reddy, Vice President & Global Head-Human Resources and Ms. Sirisha Kommireddi, AVP & Global Head-Talent Development from CIGNITI Technologies Ltd visited MGIT on 13/3/23. During the meeting, MGIT and CIGNITI agreed to collaborate with each other to provide students with valuable learning opportunities and industry experience. CIGNITI is a world's leading AI & IP-led digital assurance and digital engineering company, and this partnership will give students real-world challenges and hands-on experience to develop the necessary skills and knowledge required to succeed in their future careers.

MGIT Organizes Exclusive Seminar on Industrial Automation with Siemens Expert for B. Tech Students

The Training & Placements Cell of MGIT organized a seminar on “Industrial Automation” by Mr. Mohammed Akmal, Manager, SITRAIN, SIEMENS, on 15 March 2023 at 10.30 AM. The seminar was exclusively designed for B. Tech III/IV EEE, ECE, Mechanical & Mechatronics Students, where they were informed about the importance of PLC for making process automated, various layers of Automation Pyramid, introduction to Industry 4.0, its impact on manufacturing industry and latest technologies provided by SITRAIN.



MGIT Organizes Seminar on Energy Modelling & Digital Twins for Engineering Students



Training & Placements Cell, MGIT organised a seminar on “Energy Modelling & Digital Twins” by Mr. NCVK Srimannarayana, Head-Asia ICL Digital Twins, on 16 March 2023 at 11.15 AM. B.Tech III/IV CIVIL, Mechanical, Mechatronics & Metallurgy & Materials Engineering Students took part in the program.

Students were introduced to Energy modelling practices as well as the decarbonisation road map. The program even covered digital twins technology, which enables us to test and validate a product before it even exists in the real world.

Training & Placement Activities

Semiconductor Industry Veteran Shares Insights on VLSI Design at Exclusive Interactive Session with MGIT Students



The Training and Placement Cell (TPC) at MGIT organized an exclusive interactive session on VLSI. Sri DVR Murthy, a semiconductor industry veteran and Vice President of Strategic Initiatives at Moschip Technologies Limited, interacted with our third and final year ECE and EEE undergraduate students. During the session, he emphasized the importance of fundamental knowledge of VLSI and how it can be used to implement best design practices.

Soft Skill Coliseum Program by Mind Tree

Training & Placements Cell has conducted a “Training Session on Soft Skills in association with MindTree” on 08 February, 2023 for B.Tech III Sem CSE, CSM & CSD students. The session has benefited the Students regarding Resume Building and Effective Communication and its importance in Campus Placements.



RECRUITMENT

Soft Skill Coliseum Program Training Session on Soft Skills in association with MindTree for B.Tech III Sem CSE, CSM & CSD students on 08 Feb 2023.

Insights on VLSI Design Exclusive interactive session on VLSI. Sri DVR Murthy, a semiconductor industry veteran and Vice President of Strategic Initiatives at Moschip Technologies Limited, interacted with our third and final year ECE and EEE undergraduate students on 15 Feb 2023.

Seminar on Industrial Automation with Siemens Expert Seminar on “Industrial Automation” by Mr. Mohammed Akmal, Manager, SITRAIN, SIEMENS on 15 Mar 2023.

Seminar on Energy Modelling & Digital Twins Seminar on “Energy Modelling & Digital Twins” by Mr. NCVK Srimannarayana, Head-Asia ICL Digital Twins for Mechanical, Mechatronics & Metallurgy Students on 16 Mar 2023.

Department-wise Placements

S.No	CSE	ECE	EEE	IT	MECH	MCT	CIVIL	MME
1	27	16	4	6	9	17	11	1

Details of Company Visited

S.No	Name of the Company	No of Students Recruited	Package Offered (LPA)
1	Hyundai Transys	1	3.5
2	Stellantis	11	6
3	Toshiba Mitsubishi	10	4.5
4	Sattva	11	3.37
5	Franklin Templeton	4	6.12
6	Infor	7	6
7	Cyient	4	4.2
8	Mahindra&Mahindra	12	3
9	SticSoft E Solutions	17	5
10	PalTech	4	5
11	Magna Automotive	3	4
12	Brane Enterprises	5	5
13	Pie Infocomm	2	4.5

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

Funding Agency : SERB - TARE Scheme

PATENTS

Inventor Name : Ms. M. Nalini Devi

Title of patent: A Novel Design of Fuzzy logic based Sliding Mode Controller for Induction Motor

Status: Published

Inventor Name : Dr. A. Nagesh

Title of patent: Artificial Intelligence & Internet of Things Based Pedestrian Traffic Display (Design)

Status: Published

Inventor Name : Dr B. Prasanthi

Title of patent: A kind of encrypting emotion recognition framework based on deep learning

Status: Published

In-House Activities

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

Department of Civil Engineering

Event : Two day workshop on "Advanced software in Civil Engineering

Title : Revit and BIM software

Participants : Civil Engineering Department

Event: Guest lecture by Mr. GVSR Karthikeya

Title: Latest Technologies

Participants: III year students of ECE department.

Department of EEE

Event : A Guest Lecture by Mr. Sai Kumar Tara

Title : A Journey with IEEE from student to Volunteer

Participants : III year EEE students and staff.

Event : A Guest Lecture on Energy Transition by Dr. MVJJ Suresh

Title : Contemporary and Conventional Technologies for Power Generation

Participants : III year EEE students and staff.

Department of ECE

Event : 4-Day Hands-on Workshop

Title : Ethical Hacking

Participants : 65 Members of CSE department.

Event : Guest Lecture by Dr. N Raghu Kishore

Title : Cyber Security

Participants : II, III, IV year students of IT department.

Department of CSE and IT

Event : 5-Day Faculty Development Program

Title : Python

Participants : 14 faculty.

Event : A One Week National Level Short Term Training Programme

Title : DevOps

Participants : 75 Members.

Event : One week Short Term Training Program

Title : DevOps

Participants : III year CSE & IT students and staff.

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

Department of EEE :

Dr. P.Naga Sekhar Reddy presented a paper “Development of Programmed Autonomous Electric Heavy Vehicle: an Application of IoT” 2nd International IEEE conference on Electronics and Renewable Systems (ICEARS-2023) during 02-04-03-2023.

Department of ECE :

Dr.S.Praveena attended one week FDP “360 degree accreditation communications and accuracy: expectations and compliances”, Dr.MurganDas, Rubrics during 19-25 January 2023.

P. Durga Devi, attended one week FDP on “Python Programming”, during 30 Jan- 03 Feb 23, organised by MGIT.

M.Chandrakala, attended one week FDP on “Python Programming”, during 30 Jan- 03 Feb 23, organised by MGIT.

S. Swetha, attended 2 week FDP “Recent Trends in Antenna Engineering and its Applications” organised by E&ICT Academy NITW, Dept of ECE, RIT, Chennai, during 13-23 February 2023

Dr. G.Madhavi, attended one week FDP on “Recent Trends in High frequency Communication” organised by AnnantGyan Knowledge and Skills Private limited during 20-24 Feb 2023.

Dr.Ch.Raja, attended One week FDP on “Applications of computer vision and deep learning” Gudlavalleru Engineering college, AP on 20-25 February 2023

S. Swetha, attended FDP on “Recent Trends in High Frequency Communication” AnnantGyan knowledge and Skills Pvt. Ltd., on 20th to 24th February 2023.

Dr S P Singh delivered an Expert lecture on “Radar signal design, application and future challenges” in a Two day All India Seminar on “Emerging Signal Processing Application”, organised by The Telangana State Centre of the Institution of Engineers (India) during 24th & 25th February 2023.

Dr.Ch.Raja attended 5 day Faculty Development Program on "Deep Learning Application Development, Tools and Research", organized by the Dept. of Artificial Intelligence and Data Science, VIIT, Pune during 28 Feb- 04 Mar 2023

Dr. V. Saidulu attended one week FDP "Design of High-Frequency Antennas for Real-time Applications (DHARA-23)" organized by Dept. of ECE of GMR Institute of Technology, Rajam and the Dept. of ECE of VR Siddhartha Engineering College, Vijayawada, Andhra Pradesh during 14-18 March 2023.

D.V.S.Nagendra Kumar attended "Deep Learning Application Development, Tools and Research", organized by the Dept. of Artificial Intelligence and Data Science, VIIT, Pune during 28 Feb- 04 Mar 2023.

K. Raghu attended FDP on "Deep Learning Application Development, Tools and Research", organized by the Dept. of Artificial Intelligence and Data Science, VIIT, Pune during 28 Feb- 04 Mar 2023.

Dr. Ch. Raja attended 3 day FDP on "Research Grants, Publications and consultancy skills for academicians", organized by Dept. of ETE & Skill Development Centre, Bangalore Institute of Technology, Bangalore, on 06-08 March 2023.

Dr. Ch. Raja attended Webinar on "Discuss Education on the Implementation of Academic Bank of Credit", on 09 March 2023.

Dr. Ch. Raja attended One week FDP on "Recent Trends in Cognitive Science & its Applications" organized by Dept. of CSE, VNRVJIET &SOC, IPS Academy, Indore, on 13-18 March 2023.

Department of Mechanical Engineering

Dr. T Niranjan attended Online Webinar "Designing Course Outcomes and Outcome-focused Questions" organized by INPODS Ed-Tech on 07 Jan 2023.

Mr. V Pramod attended an event "Values and Spirituality in Education for a better tomorrow" Gachibowli, Hyderabad on 07 Jan 2023.

Dr. S. Madhava Reddy attended 7 Day National Level Online Faculty Development Program "Outcome Based Education (OBE)" organized by S.E.S College, Sreekandapuram, in association with The Kerala State Higher Education Council (KSHEC) during 18 - 25 January 2023.

Dr. T Niranjan Completed AICTE approved one week FDP "Communication Skills Modes & Knowledge Dissemination" conducted by NITT on 05.02.2023.

Dr. T Niranjan completed AICTE approved one week FDP "Student Assessment and Evaluation" conducted by NITT on 11.02.2023.

Dr. T Niranjan attended 2 day conference “Experimental Study on Effect of Process Characteristics during Electronic Discharge Machining of Titanium alloy using Multi Hole Tool Electrode” organised by Department of Mechanical Engineering Bapatla Engineering College (A), Bapatla, AP during 03 & 04-03-2023.

Dr. S. Madhava Reddy attended “IP Awareness/Training program”, organized by Intellectual Property Office and MoEs Innovation cell, India, under National Intellectual Property Awareness Mission on 13-03-2023.

D. T Niranjan attended One day UGC-sponsored webinar “NEP-2020 Implementation Plan: Integrated Higher Education System”. organised by JNTU Hyderabad on 13-03-2023.

Dr. S. Madhava Reddy attended national virtual seminar Value Engineering and Design Thinking for Product and Process” conducted, organized by Vidya Jyothi Institute of Technology under AICTE-DCP scheme on 15th March 2023.

Dr. S. Madhava Reddy attended national virtual seminar “Value Engineering and Design Thinking for Product and Process” conducted organized by Vidya Jyothi Institute of Technology under AICTE-DCP scheme on 15th March 2023, .

Dr. T Niranjan completed AICTE approved one week FDP “Institutional Management & Administrative procedures” conducted on 12.02.2023 by NITT.

Department of Physics & Chemistry

Ms. Archana Jain attended 7 Day National Level Online Faculty Development Program “Outcome Based Education (OBE)” organized by S.E.S College, Sreekandapuram, in association with The Kerala State Higher Education Council (KSHEC), on 18 - 25 January 2023,

Research Publications in National/International Journals

Department of P&C :

Faculty : Dr. M. Ravi Chandar

Publication : Asian Journal of Chemistry; No. 2, Vol. 35, Jan 2023, pp. 431-434, ISSN0970-7077, [tps://doi.org/10.14233/ajchem.2023.26998](https://doi.org/10.14233/ajchem.2023.26998), International

Title : Synthesis of Novel Biaryl Fused Thiazolo [3,2-b][1,2,4]triazol-2- amines from Thiazole Amine Involving Suzuki Coupling Reaction under Microwave Irradiation

Date : Jan 2023

Faculty : Dr. Archana Jain

Publication : A binuclear aluminium complex as a single competent catalyst for efficient synthesis of urea, biuret, isourea, isothiourea, phosphorylguanidine, and quinazolinones **Title** : RSc Advances, Vol.13, pp. 3020-3032, ISSN 2046-2069 (Online),

DOI : <https://doi.org/10.1039/D2RA07714K>, International.

Date : Jan 2023

Department of Mechanical Engineering

Faculty : Dr. B Ramakrishna
Publication : Ecology, Environment and Conservation, Volume 29, Supply Issue-2, Jan-2023; pp. (S424-S431)
Title : Control exhaust emissions of insulated diesel engine fuelled with biogas and cottonseed biodiesel
Date : Jan-2023

Department of EEE :

Faculty Name : Dr. P. Ram Kishore Kumar Reddy
Publication : Power Quality Enhancement by Using UPFC
Title : Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 14, Issue 01,
Date : Jan-2023

Faculty Name : Dr.P.Nagasekhar Reddy
Publication : Modeling and Control of Bidirectional Buck-Boost Converter for Electric Vehicles Applications
Title : Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 14, Issue 1, January 2023, Page No.135-145
Date : Jan-2023

Faculty : Mrs. N. Madhuri
Publication : Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 14, Issue 1, January 2023, Page No.135-145
Title : Modulation of a Bidirectional Buck-Boost Current-Fed Isolated DC-DC Converter
Date : January 2023

Faculty : Mrs.P.Veera BhadraKumari
Publication : Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume14,Issue 1, January 2023 Page No.99-108
Title : Design and Development of 7-swithced multilevel inverter 15 Level Using Fuzzy Logic algorithm
Date : January 2023

Faculty : Mrs. N. Madhuri
Publication : Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume14,Issue 1, January 2023 Page No.123-134
Title : Single-Phase Switched-Capacitor Integrated-with Five-level boost Inverter
Date : January 2023

Faculty	: Mrs.N.Madhuri
Publication	: Single-Phase Switched-Capacitor Integrated-with Five-level boost Inverter
Title	: Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 14, Issue 1, January 2023 Page No.123-134
Date	: Jan 2023
Faculty	: Mrs.N.Madhuri
Publication	: Modulation of a Bidirectional Buck-Boost Current-Fed Isolated DC-DC Converter
Title	: Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 14, Issue 1, January 2023, Page No.135-145
Date	: Jan 2023
Faculty	: Mrs. P. Veera Bhadra Kumari
Publication	: Design and Development of 7-swithced multilevel inverter 15 Level Using Fuzzy Logic
Title	: Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 14, Issue 1, January 2023 Page No.99-108
Date	: Jan 2023
Faculty	: Mr.D.Vamshy
Publication	: Latest Trends and their Adoptions in Electrical Power Systems- An Industrial Perspective
Title	: Indonesian Journal of Electrical Engineering and Computer Science, Vol 29, Issue No. 1, Page No-8-14 January-2023
Date	: Jan 2023

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

Dr. G. Srinivas Reddy is awarded doctorate by Osmania University, Hyderabad, in January, 2023

Dr. V. Vijayabhasker is awarded doctorate by Acharya Nagarjuna University in February, 2023

Dr. Sk. Irfan Babu is awarded doctorate by Acharya Nagarjuna University in February, 2023

Dr. C.Sudha is awarded doctorate by Annamalai University in March, 2023

Dr. N. Sree Divya is awarded doctorate by KLEF Deemed to be University in March, 2023

Awards/Courses

K. Bapayya as a Mentor won 1st & 3rd prize in 48-HOUR HACKATHON organized by GRIET, Hyderabad, during 27- 28 January 2023.

B. Roopa, completed online Course on “Instruction Planning and Delivery” , organized by NITT, Govt. of India, during Sep-2022 to Feb-2023.

Dr.G.Madhavi completed Internship on “Image Processing”, organized by NITK STEP & Pantech E learning during 06 Mar to 07 Apr 2023.

B. Roopa completed online Course on “Communication skills, modes and knowledge dissemination” on Sep-2022 to Feb-2023 venue NITT, organization Govt. of India, venue Online.

B. Roopa, online course on “Technology enabled Learning and Lifelong Self Learning” organized NITT, Govt. of India, on Sep-2022 to Feb-2023.

In House Student Extra-Curricular Activities

- Idea Incubator Club organized “Design Thinking Contest”, on January 5th 2023.
- Dance Club auditions conducted by dance club students, on January 6th 2023.
- Spot Light club organized “Rangasthalam” club auditions, on 11 Feb 2023 .
- aDope club participated in “Poster Making” on the eve of International Women’s Day organized by MGIT, during 01-06 Mar 2023 .
- Art Club participated “Painting (G20 Presidency)” on 15 Feb 2023.
- Dance club students participated in “Pramana: Raw an Real Dance Competition”, on 16 Feb 2023.
- Music club students organized “FRESCO- Musical club auditions”, on 17 Feb 2023,
- Idea Incubator Club conducted “Auditions”, on 17 Feb 2023.
- A session on “Achieving problem-solution fit and product- market fit”, was conducted on Feb 20th 2023.
- “Intra Institutional Innovation Competition” was conducted on Feb 25th 2023.

- Students participated in “E Plexus” organized by SWAYAM student chapter of ED cell, on February 25th 2023.
- Women Development Cell in association with photography club released “Women’s day Teaser” on 06 Mar 2023.
- Dance Club students performed “Traditional Mob”, on March 6th 2023.
- Photography club students participated in Women’s Day, on March 8th 2023.

Industry-Institute Interaction

Dept. of EEE entered into a MOU with Hyderabad Institute of Electrical Engineers (HIEE) on 04.02.2023,

Dept. of EEE organized Industry Visit for its students to “Physitech Power Systems Pvt.Ltd.”, Hyderabad, on 25-03-2023,

Other Important Events / Activities

Dr. S. Madhava Reddy acted as Judge for the National Level Technical Paper contest- Mechanicaa-2023, organized by Mechanical Engineering Department, CBIT, Hyderabad on 31.01.2023.

Dr. T. Niranjan, delivered a guest lecture on supply chain management at Department of Mechanical Engineering, Vignan Institute of Technology and Science, Deshmukhi, Hyderabad on 02.03.2023.

Dr. T. Niranjan, lead a technical session as Chairperson in AMMIE 2023 conference being organized by Vellore Institute of Technology Chennai during 23-24 Mar, 2023.

43 ECE Alumni participated in Annual Alumni Reunion , “REMINISCENCE – 2022” on 23 Jan 2023.

MGIT ALUMNI MEET

(REMINISCENCE - 2022)



Club Activities

Rangasthalam



Department of Metallurgical and Materials Engineering has organized an Alumni Talk on February 03, 2023. Mr. Satyendra Kumar (Alumnus, 2004 MMT) has delivered a Guest Talk.



Department of Metallurgical and Materials Engineering has organized an Alumni Talk on January 27, 2023.



Four-day hands-on workshop on “Ethical Hacking”

