

ABOUT THE INSTITUTION

Mahatma Gandhi Institute of Technology (MGIT) was established by the Chaitanya Bharathi Educational Society (CBES) in 1997 and since inception it maintained good academic track record and stood among the top engineering colleges in Telangana. The primary objective of CBES is to create temples of knowledge so as to impart value-based education to the present and future generations of our country. MGIT is affiliated to JNTU, Hyderabad and all eligible courses are Accredited four times by National Board of Accreditation (NBA), New Delhi. The Institute is also accredited by NAAC with A++ grade and recognized by UGC under 2(f) and 12(b). The institute offers eleven UG Programs in Engineering and five PG Programs with a total intake of 1230. MGIT has 230 well qualified faculty members with 91 PhD holders and remaining faculty members are pursuing PhD with reputed institutions. The institute was ranked among the best Engineering colleges in the band of 251-300 by MHRDs NIRF in the year 2022. CSR-GHRDC rated MGIT as one of the top emerging engineering colleges of excellence from Telangana at all India level. The Week Magazine has rated MGIT among top 100 engineering colleges in India.

ABOUT THE DEPARTMENT

Department of Mechanical Engineering offers two courses in B.Tech, Mechatronics and Mechanical Engineering. Mechatronics is a unique and emergent discipline was started with the inception of Mahatma Gandhi Institute of Technology (MGIT) in the year 1997, MGIT is the only institute in the state and in the country to have started for the first time such an innovative discipline of engineering. Mechatronics is an integrated technology involving synergetic consideration and fusion of concepts of Mechanical Engineering, Electronics, Electrical, Computer Science and Control Engineering with the key element being the integration of these areas through the design process. Mechatronics syllabus is in line with the current as well as future needs of the industry such as IOT, IIOT, Industry 4.0. The passed-out students were placed in reputed R & D laboratories and companies. The department also offers M. Tech. course in Mechatronics.

The department has thirty six well qualified faculty with good number of supporting staff and the department is endowed with adequate infrastructure facilities, beyond the prescribed norms with spacious and well-ventilated classrooms, drawing halls, tutorial halls and administrative space besides twelve well established independent laboratories including SCADA based Computer Aided Instrumentation and Control Systems lab, Advanced CAD/CAM lab, CNC Machines & Robotics lab, Kinematics and Dynamics lab, Machine Tools lab, Production Technology lab, Motion Control Design lab, all of them equipped with the state of art equipment. The department is also having advanced measurement equipment like FARO gage portable CMM and 3D printing Lab, the AICTE sanctioned a MODROBS project to the department for modernization of CNC & Robotics lab and also sanctioned grant in aid for organizing two-week FDPs and one-week STTP programs. UGC, TEQIP II by JNTUH and DRDO also sanctioned research projects to the department.

Students work with various clubs/ professional chapters like ASME, SAE, Robotics, ISTE, and Innovation Club, AI TEC Club. They showcase their potential knowledge in the form of development of product and organize various workshops/seminars/conferences. Indian National Academy of Engineers (INAE), New Delhi has awarded Best Innovative Undergraduate Projects at National Level in the area of Agricultural Robots during the Academic Years 2016-17 & 2018-19. Recently one of our students has been listed in Forbes magazine 30 under 30.

Both UG programs in Mechatronics and Mechanical Engineering are accredited by National Board for Accreditation (NBA), New Delhi.

INTRODUCTION

India Design Week (IDW) 2025 is the largest Design Event for budding engineers who will come together to learn and design for a problem statement. The 6th Edition of IDW 2025 event aims to foster young talent minds in technical design and expose them to all aspects of product design process using the Autodesk FUSION 360 software. IDW2025 is open for ICT Academy member Engineering Colleges & Universities of Tamil Nadu, Andhra Pradesh, Karnataka, Telangana & Delhi NCR State. There is no registration cost for this Training and competition. Great opportunity to express your creative ideas and meet Industry Experts. Team work is most important for this competition

Fusion 360 is a cloud-based 3D modeling, CAD, CAM, CAE, and PCB software platform for professional product design and manufacturing. It is an open source for the student community. It is user friendly to work in Cloud Collaborative Environment. Industrial Designers, Mechanical Engineers, Electrical Engineers, Machinists and startups use Autodesk Fusion 360.

CHIEF PATRONS

Smt. N. Padma
Chairman, CBES

Sri. J. Pratap Reddy
Secretary & Correspondent, CBES

PATRONS

Prof. G. ChandraMohan Reddy
Principal, MGIT

Prof. K. Sudhakar Reddy
Vice Principal, MGIT

RESOURCE PERSONS

Mrs. Kotha Kalyani
ICT Academy, Chennai

CONTENTS TO BE COVERED IN WORKSHOP

Day 1 - Fusion 360 sketch & Solid Modeling

- Kick-off Meet
- Fusion 360 Introduction
- Hands-on practice

Day 2 - Assembly Modeling and Drawing

- Joints
- Contact sets
- Motion Studies
- Hands-on practice

Day 3

- Overview of Simulation and Generative Design
- Static Stress Analysis
- GD setup, solving & Filtering



MAHATMA GANDHI
INSTITUTE OF TECHNOLOGY (Autonomous)
Kokapet(Village), Gandipet, Hyderabad, Telangana - 500075. www.mgit.ac.in

MOTIVATE 27
INNOVATE YEARS
EMPOWER

Hands on Workshop on Fusion 360
In association with ICT Academy, Chennai

Sponsored by **AUTODESK**

12 February 2025

Coordinators:

Mr. B. Rama krishna

Ms K. Sirisha, Assistant Professor

Ms YVN Chandana, Assistant Professor

Department of Mechanical Engineering



ORGANIZED BY

Department of Mechanical Engineering
Mahatma Gandhi Institute of Technology (Autonomous)
Gandipet, Hyderabad, Telangana - 500075

CONTACT DETAILS:

Dr. K. Sudhakar Reddy
Professor & Head
Department of Mechanical Engineering,
Mahatma Gandhi Institute of Technology
Kokapet (Village), Gandipet (Mandal),
Chaitanya Bharathi (PO) Ranga Reddy Dist.
Hyderabad - 500075, Telangana
Phone No: +91-9866686434
Email ID - mct@mgit.ac.in