

DECLARATION

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for entire duration; I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the course. On provisional selection, I will submit the registration fee on or before 27-11-2017

Place:

Date: Signature of the applicant

SPONSORSHIP CERTIFICATE

Certified that Dr/Mr/Ms _____ is an employee of our institute and is hereby sponsored for the FDP on "Recent Advances In Design and Development of Mechatronics & Robotic Systems" at MGIT, Hyderabad to be held during the period 4 –16 December, 2017. Our institute is approved by AICTE. He / She will be permitted to attend the FDP, if selected.

Place : Signature of the Sponsoring Authority

Date: with seal

The duly sponsored application should be mailed to:

Dr. K Sudhakar Reddy

Coordinator, FDP

Professor & Head

Department of Mechanical Engg (Mechatronics)

Mahatma Gandhi Institute of Technology

Chaitanya Bharathi (Post)

Gandipet, Hyderabad, Telangana- 500 075

Email: fdpmech@mgit.ac.in

08466997011, 09866686434

ELIGIBILITY

The course is open to faculties of polytechnics and Engineering colleges approved by AICTE with specialization in Mechanical/ Mechatronics/ Production/ Automobile/Aeronautical/ Electrical/ Electronic Engineering streams having interest in Automation related systems are eligible to apply. No course fee is charged for participants sponsored by AICTE approved institutions. However, Rs. 1000/- caution money has to be sent by the provisionally selected participants, which will be returned only after successful participation in FDP. Participants from industries are also eligible to attend the FDP, provided they meet their T.A and D.A and pay a course fee of Rs 5000/. All payments must be made in the form of a DD drawn on any nationalized bank in favor of "Coordinator, MECH FDP 2017" Payable at Hyderabad.

FINANCIAL ASSISTANCE

Limited number of participants from the AICTE recognized institutions will be eligible for III-A.C to and fro railway fare/Bus fare via shortest route from the place of work and free lodging and boarding during programme period. Only the candidates attending the full programme will be eligible for TA and DA.

BOARDING AND LODGING

Free Boarding and lodging facilities will be provided for the selected candidates from AICTE approved institutions during Programme period.

IMPORTANT DATES

The number of delegates aimed for the program is limited. Selection of candidates is based on qualification and experience.

Last date for submission of filled in Registration form : 20th Nov, 2017

Intimation of Provisional Selection (By Email) : 22nd Nov, 2017

Last date of receipt of confirmation with registration fee : 27th Nov, 2017

Considering postal delay, it is advised that a scanned copy of registration form duly counter signed by the Head of the Institution be sent by email to fdpmech@mgit.ac.in

PATRONS

Sri P Prabhakar Reddy

Chairman, CBES

Sri D Kamalakar Reddy

Secretary & Correspondent, MGIT

'Kavikireeti' Dr. V Malakonda Reddy

Advisor MGIT & President CBIT

Smt D Sandhya Sree

Chairperson, Development & Purchase

ORGANISING COMMITTEE

Chairman

Dr. G Chandra Mohan Reddy

Principal, MGIT

Coordinator

Dr. K Sudhakar Reddy

Professor & Head

Department of Mechanical Engg.(Mechatronics)

Members

Faculty & Non – Teaching Staff of the Department



AICTE SPONSORED



TWO WEEKS

FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

**RECENT ADVANCES IN
DESIGN AND DEVELOPMENT OF
MECHATRONICS & ROBOTIC SYSTEMS**

4-16 December, 2017

Coordinator

Prof. K Sudhakar Reddy



Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING
(MECHATRONICS)**

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY

(ESTD IN 1997)

(Chaitanya Bharathi Educational Society)

Permanently Affiliated to JNTUH and

Accredited by NBA Recognized under UGC 2(f) & 12 (b)

Gandipet, Hyderabad – 500 075

Phone: 08466997011, Fax: 040-24193067

Email: fdpmech@mgit.ac.in

www.mgit.ac.in

ABOUT THE INSTITUTE

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 Andhra Pradesh and Telangana. The primary objective of this society is to create temples of knowledge so as to impart value-based education to the present and future generations of our country. MGIT is permanently affiliated to JNTU, Hyderabad and accredited twice by National Board of Accreditation (NBA), IEI and also recognized by UGC under 2(f) and 12(b). The college offers UG Programmes in eight branches of Engineering with a total intake of 900 (CSE, ECE, EEE, IT, MCT, MEC, Civil and MMT) and six branches of PG with a total intake of 108.

MGIT has 250 well qualified faculty members with 44 Ph.D holders, 70 faculty members registered for Ph.D with reputed Institutions and 163 qualified non teaching staff. The Institution was ranked among the best Engineering Colleges in the band of 150-200 by NIRF, MHRD in the year 2017. CSR-GHRDC rated MGIT as one of the top emerging engineering colleges of excellence from A.P. and Telangana at all India level. The *Week Magazine* has rated MGIT among top 100 engineering colleges in India. ISTE chapter of MGIT has been adjudged as the best chapter of A.P. for the year 2012. Ministry of steel, Government of India sanctioned "Ministry of Steel Chair Professor" to Department of Metallurgy and Materials Engineering, MGIT. AICTE has funded the IIPC, RPS and EDC, MODROBS projects and also sanctioned grant in aid for organizing FDP Programs. MGIT is accredited by TCS for campus placements. Many Multinational companies regularly visit MGIT for campus placements.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering (Mechatronics) offers UG and PG courses in Mechatronics and also a UG course in Mechanical engineering. The Department has well qualified faculty members viz. 5 Professors, 3 Associate Professors and 32 Assistant Professors and supported by qualified & experienced non teaching staff. The department has well established independent laboratories like SCADA based Instrumentation & Control systems, Computer Aided Motion Control design, CNC & Robotics, Advanced CAD/CAM Lab with Licensed software, Machine tools Lab with CNC-EDM. The Department is also having advanced Measurement equipment like FARO gage portable CMM and 3D printing Lab. The AICTE has sanctioned a MODROBS project to the department for modernization of CNC & ROBOTICS Lab and also sanctioned grant in aid for organizing FDP Programs. UGC has also sanctioned a research projects to the Department. Mechatronics students were awarded by Indian National Academy of Engineers (INAE), New Delhi for Best Undergraduate Projects at National Level in the area of Agricultural Robots in the Academic Year 2016-17.

Mechatronics a very unique and emerging discipline was started in the year 1997. MGIT is the only College in the State and in the country to have started for the first time this innovative discipline of engineering, which is an integrated technology involving synergetic fusion of concepts of mechanical engineering, electronics, computer science and control engineering and the key element being the integration of these areas through design process.

ABOUT THE FDP

The present day industrial requirements demand volume, accuracy and precision. These demands can be met by adopting Mechatronics systems. The FDP is aimed at creating an opportunity to learn the advances in Mechatronics & Robotic Systems. The programme includes elaborated in-depth lectures with experts from industry, R&D and reputed academic institutions apart from field visits to the industry and hands on training using modern equipment with simulation software.

Department of Mechanical Engineering (Mechatronics) is having well equipped laboratories and infrastructural facilities for conducting a two week Faculty Development Programme (FDP) on "Recent Advances in Design and Development of Mechatronics & Robotic Systems" during 4-16 December, 2017. This workshop will provide an opportunity to the faculty to share their experience and collaborative ideas to gain knowledge.

COURSE CONTENT

- Fundamental Issues in Robot Kinematics and Dynamics
- Mobile Robots
- Machine vision in Robotics
- Control Techniques
- Sensors and Actuators
- SCADA and PID Controls
- Industrial Control Systems, PLC Programming using Ladder Logic
- Design, Control and Applications of Mechatronic Systems in Engineering
- Pneumatics and Electro-Pneumatic systems
- Hydraulics and Electro Hydraulic systems
- Advancements in CNC Machines
- MAT Lab

LABORATORY SESSIONS

- Robot programming
- Coordinate Measuring Machine
- Pneumatic and Hydraulic Simulators
- PLC Programming
- CNC Programming
- MAT Lab
- SCADA

RESOURCE PERSONS

The course lectures will be delivered by the faculty members, scientists and industrial experts from the following reputed institutions. IIT Hyderabad, NIT Warangal, IIIT Hyderabad, Research Center Imarat (RCI), DRDO SIEMENS, FANUC, BITS Hyderabad, FESTO Controls Central Institute of Tool Design (CITD) BOSCH, Advanced Training Institute, Hyderabad GI Automations, Hyderabad

COURSE MATERIAL

Each of the participants will be provided with the course material and lecture notes.

AICTE SPONSORED

TWO WEEKS FACULTY DEVELOPMENT PROGRAMME (FDP) ON "RECENT ADVANCES IN DESIGN AND DEVELOPMENT OF MECHATRONICS & ROBOTIC SYSTEMS" 4-16 DECEMBER, 2017

Organized by
DEPARTMENT OF MECHANICAL ENGINEERING (MECHATRONICS)
MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
Gandipet, Hyderabad, Telangana, 500 075
www.mgit.ac.in

REGISTRATION FORM

1. Name (Block Letters) :
2. Designation :
3. Organization :
4. Address for Correspondence :
5. Tel: (O) (M)
E-mail:
6. Academic Qualification (Please ✓):
M.Tech () Ph.D ()
7. Specialization:
8. Experience (In years):
Teaching () Industrial () Research ()
9. Amount of TA requirement as per entitlement mentioned in the brochure (only for AICTE approved colleges) Rs.
10. Gender: Male () Female ()
11. Accommodation requirement: Yes () No ()

Please register me for the course "Recent Advances in Design and Development of Mechatronics & Robotic Systems" to be held at MGIT, Hyderabad during 4-16 December, 2017.

Date:

Signature of the Applicant