

ABOUT AICTE

All India Council for Technical Education (AICTE) is a national level Apex Advisory Body for facilitating technical education and to promote development in the country in a coordinated and integrated manner.

ABOUT AICTE ATAL ACADEMY FDP PROGRAM

The Atal Academy Faculty Development Programme (FDP) intends to provide financial assistance to facilitate up-gradation of knowledge & skill and intends to provide opportunities for induction training to teachers employed in disciplines of Engineering & Technology, Pharmacy, Hotel Management & Catering Technology, Architecture, Town Planning and Applied Arts & Crafts, etc.

ABOUT GGITS JABALPUR

Gyan Ganga Institute of Technology & Sciences (GGITS), Jabalpur is a renowned institute that has carved a niche for itself in the field of technical education in a very short span of time, since its inception in 2003. GGITS is an ISO 9001:2008 certified technical institution affiliated to State Technical University, RGPV, Bhopal. It runs UG courses B.Tech./ B.E. in various disciplines like EC, EE, EX, ME, CE, CS & IT and also has PG courses like M.Tech. in VLSI Design & Embedded System and M.Tech. in Energy Technology, M.Tech. in Power System & Automation (Part Time Course), etc. Other post graduate courses include MCA & MBA. The Institute has been accredited with excellence by the National Board of Accreditation (NBA) for its ME, EC and EE courses. GGITS is also a prominent member of NASSCOM.

ABOUT MECHANICAL ENGG. DEPARTMENT, GGITS

Mechanical Engineering (ME) department of GGITS has been established in the year 2003 with an intake of 60 students in UG program. In year 2010 UG intake was increased to 120 and further in year 2013 to 180 seats. The department started PG program in year 2007 in Advance Production System and another PG program in Machine Design in the year 2009. The Mechanical Engineering department has been accredited with excellence by National Board of Accreditation (NBA), New Delhi till 30th June, 2021.

FACULTY DEVELOPMENT PROGRAM (FDP)

GGITS, Jabalpur, under the umbrella of AICTE ATAL academy has taken a step forward in organizing a five day FDP on "Advancement in Manufacturing Technologies for Industrial Applications"

to support the research scholars and faculty members in their research journey and development.

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Er. Shri V. K. Jain

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COORDINATOR

Dr. Vandana Arora

Mechanical Engineering Department, GGITS, JBP
Email: vandanaarora@ggits.org, Cell No. 8989541208

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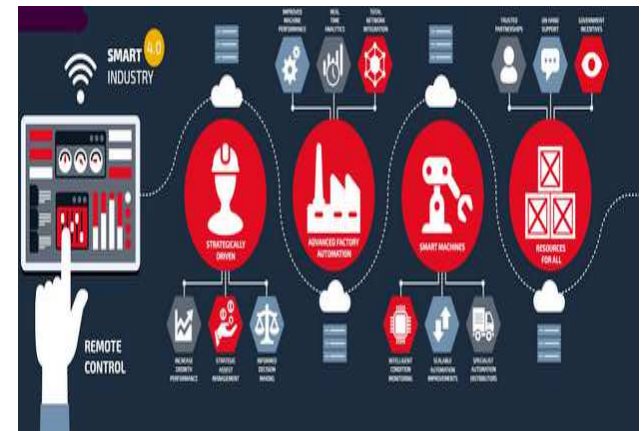
ATAL ACADEMY, AICTE SPONSORED



FACULTY DEVELOPMENT PROGRAMME (FDP)

ON ADVANCEMENT IN MANUFACTURING TECHNOLOGIES FOR INDUSTRIAL APPLICATIONS

AUGUST- 24th to 28th, 2020



ORGANIZED BY DEPARTMENT OF MECHANICAL ENGINEERING



Gyan Ganga Institute of Technology and Sciences,
Jabalpur
P.O. Tilwara Ghat, Near Bargi Hills, Jabalpur 482003

CONTACT INFO
Phone: 0761-2673654 / 55 / 56
Fax: 0761-2673605
Website – www. ggits.org

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OVERVIEW OF THE PROGRAM

Due to a number of contributing economic, political, and market factors across the globe, there's a significant revolution that's underway within the manufacturing industry which involves use of innovative technology to improve products or processes. The revolution, involving various advanced manufacturing technologies, is commonly being referred to as Industry 4.0 or Smart Manufacturing. Advanced manufacturing industries increasingly integrate new innovative technologies in both products and processes. The rate of technology adoption and the ability to use that technology to remain competitive and add value defines the advanced manufacturing sector. A combination of several major technology innovations, all maturing at the same time, are expected to significantly shift the landscape of the manufacturing industry. These technologies, such as advanced robotics, artificial intelligence, sophisticated sensors, cloud computing and big data analytics, etc., all exist in manufacturing today in some form, but as they integrate with one another, the physical and virtual worlds will interlink and transform the industry.

OBJECTIVES OF THE COURSE

The proposed FDP intends to enhance the awareness level of young research community and engineering faculty members in the areas of latest advancements in manufacturing technologies. The FDP has been planned with the following objectives:

- 1) To present a bird's eye view of latest trends in various areas of manufacturing and material processing technologies.
- 2) To familiarize the participants with the engineering processes, practices, technology and applications of latest advancements in manufacturing technologies.
- 3) To encourage the participants to carry out research in areas such as manufacturing systems, material handling, simulation, group technologies, rapid prototyping, 3D printing, advanced robotics, artificial intelligence, sophisticated sensors, cloud computing, big data analytics, etc.

COURSE CONTENTS

- 1) Advancements in Manufacturing Technologies.
- 2) Traditional machinery and automation equipment.
- 3) Latest Manufacturing Systems.
- 4) Rapid Prototyping and 3 D Printing.
- 5) Interfaces and Sensors- LCD/Touch Interfaces, Visual Sensors, RFID Sensors, Magnetic Strips, Camera & Imaging Systems, Semiconductor based Sensors, etc.
- 6) Industry 4.0 technologies – Automation / Robotics, Real Time Data Processing, Advanced Algorithms, Internet of Things, Artificial Intelligence, Machine Learning, Additive Manufacturing, etc.
- 7) Industry 4.0 Solutions - Modularized Production, Multi Operations Machines, Logistics Automations, Self Diagnostics Machines, Smart Products, Unitary Part Tracking, Smart Environment Recognition, Interactive Robotics, Predictive Maintenance, Industrial Big Data, Augmented Reality, Self Optimizing Systems, Mobile Device based Machine Controls, etc.
- 8) Recent research directions in advanced manufacturing technologies.

EXPECTED OUTCOME

- On completion of the proposed FDP, participants will have better understanding about the current needs and requirements of industries and nations in respect of latest manufacturing technologies.
- They will have exposure to the latest or upcoming technological solutions.
- The knowledge updating and industrial interaction during the program will help in identification of useful industrial projects and areas of research & development.

WHO CAN ATTEND

The FDP is open to faculty members from all engineering colleges and universities affiliated to AICTE. Industry personnel working in the allied disciplines and research scholars may also apply.

CONTACT US

Dr. Vandana Arora

Mechanical Engineering Department

GGITS, Jabalpur

Email: vandanaarora@ggits.org, Cell No. 8989541208

Website: www.ggits.org

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RESOURCE PERSONS

- Prof. J. Ramkumar, IIT Kanpur
- Prof. A.M. Kuthe, VNIT Nagpur
- Prof. Puneet Tandon, IIITDM Jabalpur
- Prof. V. K. Gupta, IIITDM Jabalpur
- Prof. D. S. Ingole, RMITR Badnera
- Dr. P. K. Jain, IIITDM Jabalpur
- Dr. P. K. Kankar, IIT Indore
- Dr. Amandeep Singh, IIT Kanpur

REGISTRATION

Registration may be done using the registration form available on following web link : -

<https://www.aicte-india.org/atal>