IoT and Manufacturing: methods, Processes, Applications and Technology

COURSE CONTENTS

OBJECTIVES The course is designed to impart knowledge and skills related to IoT Introduction, technologies, applications & types - equipment and to develop application in day to day life using integration with Digital manufacturing environment.

LEARNING OUTCOMES: Internet of Things is an interdisciplinary area of Mechanical, electronics and Electrical controls. After completion of this course, the students will be able to know about basics of IoT, their approaches, applications and modern methods of usages and processes in Various applications of IoT today.

DETAIL CONTENTS
- Introduction to IoTs and programming
- Laboratory visits
- IoT equipment, design and control process parameters, Electronics, faults and troubleshooting, process design & applications
- Laboratory work -1
- IoT in Manufacturing
- Laboratory work - 2
- Application in developmental process & design issues of IoT
- Laboratory work - 3
- Modern application of IoT in day to day life & entrepreneurship
- Laboratory work - 4
- Advancement in IoT & closure

About Varanasi:
The holy city of Varanasi is the oldest living city in the world which is also known as the Capital of the Spiritualistic world. The city has a great historical and cultural importance. This religious and cultural capital of India is situated at the bank of the holy river Ganges and is famous for temples of Lord Shiva, Buddha (Sarnath) and Sankat Mochan etc. Varanasi is the premiere & mostly place of oriental learning and simultaneously keeping pace with modern advanced knowledge. The vibrant city with its multiple dimensions of knowledge and liberation has a magnetic attraction for people all over the world.

About Institute:
The Indian Institute of Technology (Banaras Hindu University) owes its existence to Mahamana Pandit Madan Mohan Malviya, Bharat Ratna-the founder of the first residential university of modern India, the Banaras Hindu University. The three of the erstwhile engineering colleges of BHU, namely BENCO, MINMET and TECHNO, were merged to form the Institute of Technology (IT-BHU) in 1968 to provide an integrated educational base. IT-BHU has been admitting students through the JEE conducted by the IIT's since 1972, and has been consistently ranked amongst the top few engineering institutions of the country. IT-BHU became IIT (BHU) in June 29, 2012 by an Act of Parliament. The Institute has maintained high academic standard since its inception. It has turned out luminary engineers and administrators who served the nation with great distinction. ME department is oldest one which started in 1919.

Patron:
Prof. Amit Patra, Director
Indian Institute of Technology (BHU) India

Course Coordinator:
Dr. Santosh Kumar
Professor (HAG), Dept. of Mech. Eng.
Indian Institute of Technology (Banaras Hindu University)
Email: santosh.kumar.mec@iitbhu.ac.in   Ph.: +91 7080794851 (M