J C BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY, YMCA, FARIDABAD

Brochure

of

TEQIP III SPONSORED ONE WEEK

Faculty Development Programme

"Energy Management and Sustainability"

From 19 August - 23 August 2019

Department of Mechanical Engineering

About the University

The J C BOSE University of Science and Technology, Faridabad has been accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade and a CGPA of 3.08 in the First Cycle of Accreditation.

JCB UST was established in 1969 as an Indo-German project, a joint venture of the National Council of YMCA India, the Government of Haryana and the Central Agencies for Development Aid, Bonn, Germany. In December 2009 it was awarded the status of state university by the State Government. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result our students are well accepted by the industries. The fact that many of them are entrepreneur with names of repute at national and international level establishes the same.

The university has also added new chapters in its glorious history i.e. M.B.A., M.C.A, M.Tech. (Computer Engineering, Electrical Engineering, Electronics Engineering & Mechanical Engineering), M.Sc. (Physics, Math's, Chemistry & Environmental Sciences), B.Sc. (Physics), M.A. (Mass Communication and Journalism) and Ph.D.

About the Department

The department of Mechanical Engineering has been in existence since inception of institute in 1969. It offered Post-Diploma courses with specialization in three streams viz. i) Machine Tools; ii) Refrigeration and Air-conditioning; iii) Fabrication, Welding and Sheet Metal Technology. The labs & workshops have been setup with the assistance of German expertise. In 1996, State Govt. of Haryana took complete control of the Institute and upgraded it to University status in Dec. 2009.

The Department of Mechanical Engineering offers courses at UG and PG level. At UG level, B.Tech. course in Mechanical Engineering, started in 1997 with an intake of 60 students and it has been increased 120 student at present. M.Tech. programme in Mechanical Engineering with specialization in Manufacturing Technology and Automation was started from the academic year 2003-04 and has an intake of 18 students. The University had started Ph.D. Course since 2010 and 57 students have registered themselves for the Ph.D. programme in the department.

The Department of Mechanical Engineering has a distinguished record in both teaching and research. The department was shifted to the new building in January 2009 with modern facilities and a dedicated technical and office staff to support the academic programs and research. The department is actively engaged in research work in the broad area of Design of Mechanical Equipment, Design & Manufacturing, Thermal, Energy Conservation, TQM, Product and Service Quality, Computer Integrated Manufacturing, Manufacturing, Industrial Engineering, Computer Aided Engineering, Just in Time, etc.

The departmental facilities include 16 labs, 3 workshops (Machine Tools, Refrigeration & Air conditioning, Fabrication & Sheet Metal Technology), 8 lecture halls, 1 conference room and 1 seminar hall with Wi-Fi facilities. Department has two centres of excellence in collaboration

with Danfoss Industries (P) Ltd. (for Climate and Energy) and Daikin Air-Conditioning (P) Ltd (for Air-Conditioning).

The department has highly qualified and experienced faculty including 9 professors, 4 Associate professors and 14 Assistant Professors. 23 of the faculty members are Ph.D. holders with average experience of 14 years approximately. During last 5 years, faculty members have published more than 500 papers in various National and International Journals and Conferences of repute in India and abroad.

The Mechanical Engineering Department is also highly active in co-curricular and technical activities. Two of its club namely MechNext Club and SAE India YMCA Collegiate Club are actively engaged in practising latest developments for innovative design of automobile vehicles and has won many prizes at National level.

About the TEQIP-III

Technical Education Quality Improvement Program (TEQIP) of Govt. of India is being implemented as a world bank project to improve the quality of technical education system in the country. The third phase of this project, TEQIP-III is a 4year Central Sector Scheme of MHRD for the duration 2017-2021. The objective of this project is to improve efficiency and effectiveness of the technical education management system in the states and institutions selected under the program and support development plans. The university has received TEQIP grant under sub-component 1.3 with a Project fund of Rupees 7 crores.

Chief Patron

Prof. Dinesh Kumar

Hon'ble Vice-Chancellor, JCBUST

Patron

Prof. Rajkumar

Registrar, JCBUST

Program Chair

Prof. Tilak Raj

Chairman (ME), Dean- Faculty E&T, JCBUST

Advisory Committee

Prof. Sandeep Grover

JCBUST

Prof. Rajesh Kr Ahuja

JCBUST

Prof. P.R. Sharma

JCBUST

Prof. Vikram Singh

JCBUST

Prof. Naresh Chauhan

JCBUST

Prof. MunishVashishth

TEQIP Coordinator, JCBUST

Prof. Komal Bhatia

JCBUST

Prof. Atul Mishra

JCBUST

Prof Arvind Gupta

Chairman (MBA),JCBUST

Coordinators

Dr. Nikhil Dev (ME, JCBUST)

Organizing Committee

Dr. Sanjeev Kumar, Assoc. Prof.

Mr. Naresh Yadav, Assoc. Prof.

Dr. Vasdev Malhotra, Assoc. Prof.

Ms. Sandhya Dixit, Asst. Prof.

Dr. Sanjeev Goyal, Asst. Prof.

Dr. Rajeev Saha (ME, JCBUST)

Dr. Bhaskar Nagar, Asst. Prof.

Dr. Rajesh Kumar Attri, Asst. Prof.

Dr. Krishan Verma, Asst. Prof.

Dr. Mahesh Chand, Asst. Prof.

Dr. Om Prakash Mishra, Asst. Prof.

Mr. Surender Singh, Asst. Prof.

Mr. Sanjay Kumar, Asst. Prof.

Dr. Shefali Trivedi, Asst. Prof.

Mr. Nitin Panwar, Asst. Prof.

About the Course

Efficient energy utilization is of great importance in many technical areas for better future and sustainability. Various technologies for energy conversion are in use, with their specific advantageous and disadvantageous features. The present course is to concentrate on energy conversion systems along with better resource utilization efficiency. Broadly following topics will be covered in the course:

1. Introduction to energy conversion systems
2. Different energy conversion systems
3. Thermal system reliability evaluation
4. Decision making in Thermal systems
5. Introduction to software’s

Target Participants
Faculty members/ Research Scholars from TEQIP funded or Non-TEQIP funded academic institutions (Approved by AICTE/UGC/MHRD) may attend the faculty development program. Participants will be provided with refreshments/Lunch during the sessions. However, no accommodation and TA/DA will be provided.

Duration: 19th August – 23rd August 2019 (One Week)
Venue: Department of Mechanical Engineering, Faridabad
Registration Fee:
Participant from TEQIP-III institutes: Nil
Participants from Non-TEQIP-III institutes: Rs.2000/-

Seats are limited to 30 participants.

Important Dates
Last date of Registration: 14th August 2019
Intimation of Confirmation: 16th August 2019