

CONVENOR

Dr. N. M. Rao
H.O.D. Mechanical Engineering Department

COORDINATORS for REGISTRATION

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FEES

UG or PG students: INR. 2000/-

Faculty from Academic Institutions: INR. 3000/-

The above fee includes all instructional materials.

Number of participants for the course will be limited to Fifty (50).

HOW TO REACH

Nearest Railway station: Vidyavihar West (1.3 kms)

Nearest Bus stop: Don Bosco (outside the college building)

Bus Numbers: – 62, 308, 323, 426, 613 (from Vidyavihar railway station) 433 (from Santacruz)

PATRONS

Fr. Colbert da Silva
Rector, Don Bosco Center for Learning (DBCL)

Fr. Mario Vaz
Executive Director, MMS, DBCL

Fr. Cyril de Souza
Campus Minister, DBCL

Fr. Joseph Braganza
Executive Director, Mass Media, DBCL

Fr. Roy Noronha
Administrator, DBCL

Dr. S. Krishnamoorthy
Advisor, Don Bosco Institute of Technology (DBIT)

Dr. Prasanna Nambiar
Principal, Don Bosco Institute of Technology

PROGRAMME SCHEDULE

SEPTEMBER 3 - 7, 2019
Keynote Address: September 3, 2019 at 9:15 AM
Scheduled Time: 9:00 AM to 5:00 PM (each day)
Venue: Department of Mechanical Engineering



AICTE-ISTE Approved
Short Term Training Programme

on
Advanced Machining

September 3 - 7, 2019



Organized by
Department of Mechanical Engineering
Don Bosco Institute of Technology
Premier Automobiles Road, Kurla-West, Mumbai 400 070
Website : www.dbit.in

ABOUT DBIT

Don Bosco Institute of Technology (DBIT) is a Christian minority institute established and managed by the Salesians of Don Bosco. The college is approved by AICTE, New Delhi and Government of Maharashtra, and is affiliated to the University of Mumbai. It got certified NAAC B++ grade. It offers undergraduate courses in Mechanical Engineering, Computer Engineering, Electronics & Telecommunication Engineering and Information Technology. It aims to impart premium quality technical education to young people in an academic environment. DBIT provides equal educational opportunities which empower students to become productive and ethical in a technology oriented society. The Salesian philosophy of education which emphasizes the intellectual, spiritual and emotional growth of every individual student, is evident in all facets of campus life.

DEPARTMENT OF MECHANICAL ENGINEERING

The vision of the department is to aspire to be an eminent destination recognized globally to its stake holders to generate professionals, entrepreneurs and offer consultancy to cater the needs of industry, research organizations & society through excelling in academics, innovation and research. We develop faculty and resources to achieve excellence in teaching-learning and research that will enhance student education, consultancy and research activity of the department. The department collaborates with industry, social and R&D organizations to develop innovations and sustainable technologies and serve as a catalyst for societal development.

The Department has a MoU with SVERI, Pandharpur which works closely with BARC. The Department provides consultancy to Coolflo Engineers Pvt. Ltd., Gammon India Ltd. etc. The Department has state of the art equipment such as Ultimaker extended 3D printing machine.

WHY TO ATTEND?

Globally and domestically, the need of the hour for high-tech industries is precise machining of advanced materials with complex shape which are hard to machine such as composites, ceramics, titanium alloys, etc. The faculty need to be aware of the demand for accurate machining, high production rates, better finishing (mirror finish) and lower manufacturing costs, and the recent developments in machining processes so that they can make engineering students industry ready. Keeping this objective in mind, DBIT Mechanical Engineering Department has taken steps to bring eminent researchers who have contributed immensely in this area, on one platform and conduct a programme to benefit faculty. This in turn will benefit students at large to improve their job opportunities with lucrative salary package.

OUTCOME OF THE COURSE

After attending the course participants will be able to

- Select the best suitable advanced manufacturing process for processing of unconventional materials employed in modern manufacturing industries
- Analyse the parametric influences during processing of materials using developed models
- Demonstrate the inter-relationship between cutting parameters and machining performance measures like power requirement, cutting time, tool life and surface finish
- Model the material removal in various modern manufacturing processes
- Solve the various problems for the given profiles to be imparted on the work specimens

STTP OBJECTIVES

The primary objectives of proposed STTP on 'Advanced Machining' are:

- To impart and share the fundamental knowledge of machining processes
- To provide exposure on various advanced machining processes like focused Ion Beam Machining, Laser Machining, Micro EDM, Diamond Turn Machining, Nano and sub-nano finishing, Photo Chemical Machining, Micro-machining
- To inculcate specialized knowledge and skill in advanced manufacturing processes using the principles and methods of engineering analysis and design
- To discuss modeling of machining processes including Molecular Dynamic Simulation, Multi Scale Modelling, Artificial Intelligence & Machine Learning
- To cultivate the ability to develop and implement new improved manufacturing processes resulting in creation and distribution of value in engineering applications

STTP CONTENT

- Focused Ion Beam Machining
- Laser Machining
- * Micro EDM
- * Diamond Turn Machining
- * Nano and sub-nano finishing
- * Photo Chemical Machining
- * Micro-machining

KEY RESOURCE PERSONS

- Dr. Balasubramaniam (Head, Precision Machining Section, BARC)
- Dr A K Suri (CEO, Sinergy Nano System)
- Dr. P. K. Brahmkankar (Professor Emeritus, COEP, Pune)
- Dr. D. Datta (Head, Radiological Physics & Advisory Division, BARC)
- Dr. Nitin Misal (Vice-Principal, SVERI, Pandharpur)
- Dr. Srinivas Iyer MD, Interface Design Associates Pvt. Ltd. (IDAPL)
- Dr. Prabhat Ranjan (BARC)
- Dr. Ramesh Singh (Professor, Dept. of Mech. Engg. IIT Bombay)
- Dr. Rakesh Mote (Asso. Professor, Dept. of Mech. Engg., IIT Bombay)



Don Bosco Institute of Technology
(Approved by AICTE & Affiliated to University of Mumbai)
ISO 9001:2015 Certified, NAAC B++ Grade

AICTE-ISTE Approved
Short Term Training Programme

on

“ Advanced Machining”

Organized by

Department of Mechanical Engineering

REGISTRATION FORM

Name: _____

Designation: _____

Institute: _____

Address: _____

Mobile No: _____ Email: _____

Are you member of ISTE? (Yes/No) If yes. Membership No. _____

Details of payment: Cash/DD/Cheque should be made in favour of “Don Bosco Institute of Technology” at Mumbai..

DD/CHQ No.

Bank Name:

For Online transfer: Bank Name: Bank of Baroda, A/C No.: 104895863
A/C Name: “Don Bosco Institute of Technology”, IFSC: BKDN0460461

Signature of Applicant

Date:

Place: _____ Head of the Institute