

Event

CMTI TECHNOLOGY UPGRADATION TRAINING PROGRAMMES DURING NOV - FEB 2011

Course Code	Course Title	Duration (Days)	Date of commencement	Course Fee Rs.(#)
0360	CMM & Its Applications	5	14 th Nov 2011	12,500
<p>In industrial measurements, the advent of co-ordinate measuring machines has provided the capability for comprehensive measurements at one measurement station. Multi-axis CMMs' with associated computers and software not only reduce the inspection time, tooling (for measurement) costs, measurement costs, clerical work etc., but also improve the accuracy and reliability of measurements. Present day CMMs are capable of checking dimensions, positional relationships, geometrical errors, gear parameters, 2-D and 3-D surface measurements, batch measurements and a combination of all the measurement under teach and programmed CNC run.</p> <p>Target Group: Personnel in Metrology, Inspection & Quality Assurance Depts.</p>				
0520	Rapid Prototyping & Rapid Tooling	3	14 th Nov 2011	7,500
<p>Rapid Prototyping (RP) Technology is a new technology tool for engineers to produce prototypes out of Polymers and metal powders using 3D CAD model data. The RP process can produce virtually any complex shape. RP reduces time and cost of new product development. RP systems are available for producing direct metal moulds and parts. This is termed as Rapid Tooling, which can be applied in producing tooling for injection moulding, investment casting, sheet metal forming and die casting applications. The Rapid Prototyping Machine installed at CMTI incorporates the latest technology of laser sintering of metal powder developed by M/s EOS GmbH, Germany. The EOSINT M250 laser sintering system generates 3D part directly from CAD data. The prototype parts are built up in thin layers by local sintering of metal powder using a computer controlled laser beam. The 3D metal part / rapid tool obtained from the machine are suitable for tooling industry.</p> <p>Target Group: Manufacturing, Tooling Engineers, Product Development Engineers</p>				
0110	Part Programming for CNC Machines	5	21 th Nov 2011	12,500
<p>The course is intended to provide the basic knowledge to programme CNC machines manually. Part Programming for 2 axis lathe & trainer lathe and machining centre are dealt with. Participants are required to write programs and prove the programs of simple components on the machines available at CMTI. Systems like FANUC, SINUMERIK, HEIDENHAIN are dealt with. The course will be useful to organisations who have NC or CNC machines and intend to programme their parts manually.</p> <p>Target Group: Engineers/Supervisors with shop floor knowledge. (Operators likely to be shifted to CNC machine with knowledge of English language).</p>				

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0610	Finite Element Analysis	5	21th Nov 2011	12,500
<p>Finite Element Analysis is a method for analysing engineering design and testing to forecast problems and is helpful in finding approximate solutions. This technique results in improved prototype designs, increased accuracy, enhanced design and better insight into critical design parameters, virtual prototyping and simulation, fewer hardware prototype and a faster and less expensive design cycle. This course is intended to provide technical background followed by practical hands on experience in applying fem for engineering / structural analysis in the field of static deformation, stresses, vibrations, and heat transfer.</p> <p>Target Group: Design Engineers and Testing engineers</p>				
0370	Geometric Dimensioning & Tolerancing	5	12th Dec 2011	12,500
<p>Need for higher accuracy of components used in of vast category of products is increasing day by day due to various reasons like greater operational precision, automatic assembly, general interchangeability, reliable operation, miniaturization, etc. The basic definition of a part starts with its drawing and unambiguous representation in drawing is very important to avoid disastrous effects during production and assembly stages. Geometric Dimensioning & Tolerancing is a new tool that eliminates such ambiguities and enhances precision. GD&T, though being an effective tool, was not so popular among industries till recently. But, today's precision engineering industries have started using it more and more exhaustively to bring out the designer's intent very clearly in the engineering drawings The basic aim of this training course is to help new users of GD&T in clearly understanding the various aspects of GD&T and the various representations used in the engineering drawings. Fundamental dimensioning rules, basic tolerancing concepts, geometric tolerancing symbols, definitions and representations, positional tolerancing, reference datum, definition and usage of material condition modifiers etc., would be dealt in detail.</p> <p>Target group: Design, Manufacturing and Quality Control Engineers</p>				
0540	Introduction to Nano Manufacturing	3	12th Dec 2011	7,500
<p>The course on Nano Manufacturing a sub domain of Nano Technology covers top down approaches of nano manufacturing processes. It will also throw light on bottom up process. Laser micro/nano machining, ion beam machining, ultra precision diamond turning and nano finishing processes form part of the course content. MEMS/NEMS fabrication and its applications, Nano coating technologies including PECVD & PVD would also be covered. The program will have both theory and practical sessions on start of the art nano manufacturing facilities in nano manufacturing technology centre of CMTI.</p> <p>Target Group: Scientists / Engineers & Academicians interested in micro/nano machining, fabrication and micro/nano product development.</p>				
0380	Surface Engineering	3	26th Dec 2011	7,500

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<p>There is a continuous thrust in improving the life and performance of components under severe environmental conditions including wear, erosion, oxidation and corrosion etc., the life of components have been increased by applying coating by either PVD or CVD processes. Each process has its own merits and demerits. However, the coating performance depends on several factors like costing material, deposition process and parameters often dictate the costing microstructure features. The course covers the various coating process and characterization methods and exposure to the latest equipments like AFM, SEM and XRD, etc.</p> <p>Target Group: Scientists & Engineers involved in nano coating processes and characterization of surfaces.</p>				
0710	Programmable Logic Controllers	5	26th Dec 2011	12,500
<p>PLC is used for Machine control, Hydraulic control, Pneumatic control, Automation and Process control in general extensively. In CNC machines, integrated PLC is a Subsystem of CNC control system used for Operator panel, Machine Control Panel and Input/Output controls. This course provides an understanding of PLC architecture, PLC Subsystems / Components, Basics, Operations, Programming, Ladder logic development with Simulation/Animations, demos, exercises and case studies. The PLC Lab is equipped with Input/Output elements, Sensor kits, PLCs from Siemens, Unitronics, Messung and Festo. Integrated PLCs are also available as part of Siemens-840D and Fanuc-0i trainer racks for hands on exercises. The participants will be given Hands-on training on PLC systems.</p> <p>Target Group: ITI/Diploma/Degree holder in the field of Electrical/Electronics, Diploma/Degree holder in the field of Mechanical/Mechatronics, Academicians, Faculty of Mechatronics courses.</p>				
0120	CNC Part Programming through CAD/CAM (Unigraphics NX 7.5 software)	5	2nd Jan 2012	12,500
<p>The course covers manufacturing of a product through Computer Aided Manufacturing (CAM) system. Generating CNC programmes through high end CAD/CAM Systems (Unigraphics) for 3-Axis machining centers and turning centers. Participants generate the tool path and post process the same suitable to a particular machine and CNC System combination. The output is CNC part program. Hands on exposure will be given on a CAM system and for part cutting on machining centers. The course provides demonstrations on multi axis (5 axis) machining centers and exposure to tooling systems and CMM.</p> <p>Pre-requisite: Engineers / Supervisors with shop floor knowledge of CNC machines and exposure to a CAD system.</p>				
0360	CMM & Its Applications	5	13th Feb 2012	12,500
<p>In industrial measurements, the advent of co-ordinate measuring machines has provided the capability for comprehensive measurements at one measurement station. Multi-axis CMMs' with associated computers and software not only reduce the inspection time, tooling (for measurement) costs, measurement costs, clerical work etc., but also improve the accuracy and reliability of measurements. Present day CMMs are capable of checking dimensions, positional relationships, geometrical errors, gear parameters, 2-D and 3-D surface measurements, batch measurements and a combination of all the measurement under teach and programmed CNC run.</p> <p>Target Group: Personnel in Metrology, Inspection & Quality Assurance Depts.</p>				

EVENTS – INDIA

🌐 **23 Nov 2011**

Workshop on Lean Six Sigma - A Techno-Managerial Business Model

IMTA Technology Centre, Bangalore

Contact:

Saeesh Nayak IMTMA, BIEC,

10th Mile, Tumkur Rd, P: Madavara, Bangalore -123

Tel: 080 - 66246761/6600 Fax: 080-66246658 E-mail: nayak@imtma.in

Web:

www.imtma.in

🌐 **21 - 25 Nov 2011**

5 - Day Proficiency Improvement Programme on After-treatment Technology for Emission Control

Automotive Research Association

Contact:

Dr. K.C Vora, Head-ARAI Academy

ARAI, P O Box No. 832, Pune 411 004

Tel: 020-3023 1245/1248/1111 Fax: 020-30231104 E-mail: training.pga@araiindia.com

Web: www.araiindia.com

🌐 **01 - 03 Dec 2011**

National Quality Summit 2011- Creating Brand India Through Quality

Bangalore

Contact:

Greeta Varughese, Sr Director & Head - Institute of Quality, CII, Bharat Nagara 2nd Stage, Magadi Main Road, Vishwaneedam Post, Bangalore - 560 091

Tel: 080-23289390/91 Fax: 23289388/23580314 Web: www.cii.in; www.cii-iq.in

🌐 **06 - 09 Dec 2011**

5th Intl. Trade Fair for Motio, Drive and Automation (Hydraulics, Pneumatics and Electro-Mechanical Transmission)

Bangalore Intl. Exhibition Centre (BIEC), 10th Mile, Tumkur Rd., P: Madavara, Bangalore - 562123

Contact:

Event

Mr. Tushar Alekar, M: 91 22 40050681/82

Tel: 80-25594621/5572

Fax: 91-80-25597187 E-mail: info@hf-india.com Web:

www.mda-india.com

🌐 08 - 11 Dec 2011

Engg Expo - Trade Fair on Engg & Manufacturing

Chennai Trade Centre, Chennai

Contact:

Infomedia 18 Ltd., Mumbai

E-mail: expo@trade4india.co.in

🌐 10 - 11 Dec 2011

An International Conference on PRECISION, MESO, MICRO & NANO ENGINEERING (COPEN-7: 2011)

College of Engg, Pune

Contact:

Prof. B. B. Ahuja

Organising Secretary, COPEN-7 : 2011

**Prof. & Head., Prod. Engg. Dept., College of Engineering,
Shivajinagar, Pune - 411 005, Maharashtra, INDIA**

Tel.: +91-20-25541367, 25507282 Fax: +91-20-25507299

E-mail: copen2011@coep.ac.in; copen7.2011@gmail.com

Website : www.coep.org.in

🌐 14 - 16 Dec 2011

BioFach India 2011

Contact:

Bombay Exhibition Centre, Goregaon, Mumbai

Tel: +91-22-66652130, 9480686711

Web: www.nuernbergmesse.de

🌐 15 - 18 Dec 2011

26th Indian Engineering Congress 2011-IEC 2011,

Bangalore

Contact:

S K Singh, CEO Expoconsult - Team IEC 2011

Event

Mumbai : 6, Monalisa Apts., 1st Rd T.P.S. IV, Bandra (W), Mumbai - 400 050
Bangalore : Old Airport Road, Bangalore-560017
Mob : +91 98860 50823, +91 95900 50236 E-mail: sksingh@expoconsult.co.in,
Web: www.IEC2011.in

🌟 29 - 30 Dec 2011

Intl. Conf. On Futuristic Trends In Materials & Energy Systems

Velagapudi Ramakrishna Siddhartha Engg College

Contact:

Velagapudi Ramakrishna Siddhartha Engineering College Vasantha Nagar, Kanuru, Vijayawada - 7, AP

Web: www.vrsiddhartha.ac.in/files/ftme.pdf

🌟 04 - 06 Jan 2012

Intl. Conf. on Recent Advances and Challenges in Energy (RACE-2012)

Manipal

Contact:

Prof. Dr. Divakara Shetty, Chairman, RACE - 2012, Dept. of Mechanical and Manufacturing Engg, Manipal Institute of Technology, Manipal - 576 104

Tel: +91-820-2925462 Fax: +91-820-2571071

E-mail: race2012.mit@gmail.com

Web: www.racemit2012.com

🌟 18 - 20 Jan 2012

IVth Global Conf. & Exhibition- 'flotek.g' titled "Towards Smarter And Greener Flow Measurement and Control - Oil, Gas, Water"

Fluid Control Research Institute (FCRI), Palakkad, Kerala

Contact:

K. G. Siva Prakash, Chief Research Engineer,
Co-ordinator, F C R I, Kanjikode West, Palakkad, Kerala - 678623

Tel: 0491-2566206, 2566120 Fax: 0491-2566326

E-mail: customercare@fcriindia.com, fcri@fcriindia.com,

Event

flotek.g@fcriindia.com

Web: www.fcriindia.com, www.flotekg.com/

🌐 19 - 24 Jan 2012

International Seminar on Forming Technology 2012/ IMTEX Forming 2012

Bangalore

Contact:

M. G. Srinivas,

Senior Director, IMTMA, BIEC, Madavara post, Bangalore

Tel: +91-080-66246600

Fax: 662466661

E-mail: imtma@imtma.in

Web: www.imtma.in

🌐 20 - 23 Jan 2012

Intl. Conf. On Nanoscience and Technology

Hotel Taj Krishna, Hyderabad Andhra Pradesh

Contact:

Dr. Tata N. Rao

Tel: 040-24443170

Web: www.iconsat2012.com

🌐 28 - 30 Mar 2012

CIRP DESIGN 2012 - Sustainable Product Development 22ND CIRP Design Conference

National Science Seminar Complex, Indian Institute of Science, Bangalore, India

Contact:

Prof. Amaresh Chakrabarti, Centre for Prod. Design and Mfg., Indian Institute of Science, Bangalore

Tel: +91 80 2293 3406 Fax: +91 80 2360 1975

E-mail: ac123@cpdm.iisc.ernet.in

Web: cpdm.iisc.ernet.in/cirpdesign2012

🌐 18 - 20 Jul 2012

International Conference on Technology Management - 2012 - "Driving the Economy through Innovation and Entrepreneurship: Emerging Agenda for Technology Management"

IISc, Bangalore

Contact:

Event

Tel: 080-22932379, 3266, 2378
E-mail: ictm@mgmt.iisc.ernet.in
Web: www.mgmt.iisc.ernet.in/ictm

🌟 **27 - 30 Jul 2012**
8th Amtex-2012 Exhibition

New Delhi

Contact:

Mr Prakash Rao, Triune Exhibitors Pvt. Ltd, Vasanthanagar, Bangalore - 560 052
Tel: 080-43307474 Fax: 080-22352772
E-mail: prakash@tepl.net

EVENTS – INTERNATIONAL

🌟 **30 Nov - 2 Dec 2011**

3rd Intl. Symposium on Digital Manufacturing 2011- (Innovative Engineering System Creation with Computer-based Technology)

RIHGA Royal Hotel Kokura, Kitakyushu, Japan

Contact:

Conference Secretariats: Prof. Xian Chen, Dept. of Mechanical Engg., Yamaguchi University, Ube, Yamaguchi, 755-8611, Japan
Tel: 81-836-85-9146 Fax: 81-836-85-9101
E-mail: isdm2011@yamaguchi-u.ac.jp
Web: www.ijdmonline.net

🌟 **01 - 03 Dec 2011**

Inno Design Tech Expo 2011

Hong Kong Convention & Exhibition Centre, Hong Kong, China

Contact:

Hong Kong Trade Development Council Unit 13, Expo Galleria, Hong Kong Convention Hong Kong - China
Tel: 852-2-25844333 Fax: 852-2-28240026
Web: www.tradeshowalerts.com/miscellaneous/inno-design-tech-expo-2011.html

Event

🌐 **18 - 20 Dec 2011**

9th Intl. Conference on Mechanical Engineering

Dhaka, Bangladesh

Contact:

Prof. Mohammad Ali, Member Secretary, ICME2011, Dhaka, Dept of Mechanical Engg, BUET, Dhaka-1000, Bangladesh.

Tel: +880 29665636, +880 29665650-80

Fax: 880-2-8613046, 880-2-8613026.

E-mail: icme2011@me.buet.ac.bd

Web: www.buet.ac.bd/me/icme/icme2011/index.

🌐 **01 - 04 Jan 2012**

Dalian Machinery Fair 2012

Dalian World Expo Center, Dalian, China

Contact:

China Foreign Trade Centre No. 380, Yuejiang Zhong Road, 510335, China - Guangzhou - China

Tel: 86-20-26088888 web: www.tradeshowalerts.com/hand-machine-tools/dalian-machinery

🌐 **05 - 07 Jan 2012**

ESCIANO 2012 - International Conference on Enabling Science and Nanotechnology (ESciNano)

Persada Johor Convention Centre, Johor Bahru Malaysia

Contact:

Secretariat ESciNano2012, Faculty of Electrical Engineering, University Teknologi Malaysia

Tel: 07‐5536230 E-mail: escinano@fke.utm.my

Web: www.fke.utm.my/mine/escinano2012/

🌐 **30 Jan - 1 Feb 2012**

1st CIRP Conference on Surface Integrity (CSI)

Atlantic Grand Hotel Bremen, Germany

Contact:

Dipl.-Biol. Daniel Meyer

Tel: +49 421 218 51149

Fax: +49 421 218 3272 E-mail: info@cirp-csi.com Web:

www.cirp-csi.com

Event

🌐 **13 - 15 Mar 2012**

Composites Manufacturing 2012

Phoenix Marriott Mesa

Mesa AZ USA

Contact:

Tel: 800.733.4763. E-mail: service@sme.org Web: www.sme.org

🌐 **11 - 13 Apr 2012**

2012 Intl. Manufacturing Engg Conf. (IMEC 2012)

International Convention Center, Shanghai, China

Contact:

Web: www.aiesd.org/meetings-and-conferences/upcoming-conferences.php

🌐 **11 - 13 Apr 2012**

2nd International Symposium on Sustainable Manufacturing (ISSM)

International Convention Center, Shanghai, China

Contact:

Web: www.aiesd.org/meetings-and-conferences/upcoming-conferences.php

🌐 **25 - 27 Apr 2012**

Electronics and Communications. Nanotechnology-2012

Sochi Russia

Contact:

CJSC Soud Sochi Exhibitions

Tel: (8622) 62-26-93, 62-30-15,62-1

E-mail: sochi@soud.ru Web: www.soud.ru

🌐 **22 - 24 May 2012**

ANGEL 2012: 2nd Conf. on Laser Ablation and Nanoparticle Generation in Liquids

TBD, Izu-Hakone Japan

Contact:

Angel Conference

E-mail: orga@angel-conference.org

Web: www.angel-conference.org/

Event

🌐 7 - 11 May 2012

TMCE 2012: Ninth Intl Symposium on Tools and Methods of Competitive Engineering

Karlsruhe, Germany

Contact:

E-mail: info@tmce.org Web: www.tmce.org

🌐 4 - 8 Jun 2012

12th International Conference of the European Society for Precision Engineering & Nanotechnology

Nacka Strandsmassan, Nacka Strand, Sweden

Contact:

Miss Lorina Desborough, Conference Secretary Building 30, Cranfield University Campus, Bedfordshire, MK43 OAL, UK

Tel: +44 (0) 1234 754146 Fax: +44 (0) 1234 754080

E-mail: lorina-desborough@euspen.eu

Web: www.euspen.eu

🌐 7 - 9 Jun 2012

5th Intl Conf. on Design Computing & Cognition- DCC12

Texas A&M University, College Station, Texas USA

Contact:

E-mail: dcc12@gmu.edu

Web: mason.gmu.edu/~jgero/conferences/dcc12

🌐 25 - 27 Jul 2012

nanoMan 2012- 3rd Intl Conf on Nano Manufacturing

Suzuki Umetaro Hall of Bioscience Building

Contact:

Secretary

E-mail: secretary@nanoMan2012.net

Web: www.nanoman2012.net ■