

**SELF FINANCED  
SHORT TERM COURSE**

**On**

**Digital Prototyping with Autodesk Tools  
(DPAT - 2015)**

**February 27-March 4, 2015**

**Organized by**



**Department of Mechanical Engineering  
Motilal Nehru National Institute of Technology Allahabad  
Allahabad – 211004, India**



In technical association with

***CADD Concepts, Kanpur***

*([www.caddconcepts.co.in](http://www.caddconcepts.co.in))*

**Patron****Prof. P. Chakrabarti, Director MNNIT Allahabad****Chairman****Prof. R K Srivastava, Head, Mechanical Engineering Department****Course Coordinators****Dr. Mukul Shukla, Mechanical Engineering Department****Dr. Samir Saraswati, Mechanical Engineering Department****Treasurer****Dr. Dharmendra Kumar Shukla, Mechanical Engineering Department****Advisory committee****All faculty members of Mechanical Engineering Department****About Autodesk®**

(www.autodesk.com), founded in 1982 and headquartered at San Rafael, California, USA is a leading developer and provider of computer-aided design (CAD) software for the desktop across vertical industries, including manufacturing, architecture, and infrastructure (land/transportation). With over six million users, Autodesk dominates the 2D world with its core AutoCAD product, which is prevalent as the standard CAD format. It has been able to amass leading market share in verticals such as architecture, infrastructure, manufacturing, and media/entertainment.

Autodesk Inc. Best known for its flagship product AutoCAD® for general design, has now wide range of solution specifically for each industry type including the following:

- Platform Solutions – AutoCAD, Raster Design
- Architecture Engineering Construction (AEC) – Revit Architecture, Revit MEP, Revit Structure, AutoCAD Architecture, Civil 3D
- Geospatial – Autodesk Map, Map Guide Enterprise, Map Guide Studio
- Manufacturing – Autodesk Inventor, AutoCAD Mechanical, AutoCAD Electrical
- Media & Entertainment - 3DS Max, Maya, Motion Builder, Combustion
- Education / Authorised Training

### **About City:**

The city of Allahabad is among the largest cities of Uttar Pradesh. It is situated at the confluence of three rivers- Ganga, Yamuna and the mythological Saraswati. The sacred meeting point is known as *Sangam*. It is a city having rich tradition of Academics, Religion and Politics. The city better known as *PRAYAG* has many governmental institutions which include MNNIT Allahabad, High Court of UP, Allahabad University & tourist places like Sangam, Anand Bhawan, Narayan Ashram etc. MNNIT Allahabad is one of the premier institutes of the city offering Quality Technical Education. Allahabad city is well connected via Air, Rail and Road routes with major cities of India.

### **About The Institute:**

Motilal Nehru National Institute of Technology (MNNIT) Allahabad is an Institute with total commitment to quality and excellence in academic pursuits. It was established as one of the seventeen Regional Engineering Colleges of India in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh, and was an associated college of University of Allahabad, which is the third oldest university in India. With over 45 years of experience and achievements in the field of technical education, having traversed a long way, on June 26, 2002 MNREC was transformed into National Institute of Technology and Deemed University fully funded by Government of India. With the enactment of National Institutes of Technology Act-2007, the Institute has been granted the status of institution of national importance w.e.f. August 15, 2007.

The Institute now offers nine B.Tech., nineteen M.Tech. Degree Programmes (including part-time), MCA, MBA, M.Sc. (Mathematics and Scientific Computing) and Master of Social work (M.S.W.) programmes and also registers candidates for the Ph.D. degree. The Institute has been recognized by the Government of India as one of the centres for the Quality Improvement Programme for M.Tech. and Ph.D. The Institute has a very progressive policy towards extending all possible facilities to its faculty members to acquire higher degrees and receive advanced training. As a result, majority of the faculty members possess Ph.D. degrees. The Institute has been selected as a Lead Institution under World Bank funded Govt of India Project on Technical Education Quality Improvement Programme (TEQIP).

### **About the Department:**

The Department of Mechanical Engineering is one of the oldest and the largest department of MNNIT Allahabad. The department offers B.Tech., M.Tech. and Ph.D. programmes with a wide choice of specializations, electives and research areas. The department offers two Bachelor of Technology programmes in the area of Mechanical Engineering and Production & Industrial Engineering. The department is running four semester Master of Technology programmes in Mechanical Engineering with the specialization areas of Computer Aided Design and Manufacturing, Design, Production Engineering and Product Design and Development. The department is having 32 highly qualified and experienced faculty in almost all streams of Mechanical Engineering. About 80% of the faculty members have doctoral degree and the rest are pursuing the Ph.D. programme.

## Course Content

DAY	Sessions	Session Detail
DAY 1	Session - 1	Inauguration, Introduction to 3D parametric designs and Inventor, Creating Project File, Creating parametric sketches
	Session - 2	Part Modeling - Sketch, Creation of 3D part
DAY 2	Session - 3	Creation of 3D part (Contd...), Modification of 3D part
	Session - 4	Using various Work Features, Pattern tool etc
DAY 3	Session - 5	Introduction to Assembly , top - down, down to top, Introduction to D.O.F.
	Session - 6	Create component, Constraints
DAY 4	Session - 7	Presentation module
	Session - 8	Creation of Manufacturing ready Drawings
DAY 5	Session - 9	Introduction to Sheet Metal
	Session - 10	Introduction to various Advanced Tools and Features
DAY 6	Session - 11	Certification Test/Valedictory function

### Program Faculty:

The resource persons for the program shall include faculty from CAD Industry and MNNIT Allahabad.

### Eligibility for Participation:

The training program is open to UG/PG students, Research scholars and Faculty members.

### Registration Fee:

The registration fees for the program shall be **Rs. 2000/-** for the participants. A discount of 25% would be offered only to students of MNNIT. On prior request, accommodation may be provided to participants on payment basis subject to the availability. The participants have to bear their own travelling expenses. The registration fees should be sent in the form of a Demand Draft in favour of "DPAT - 2015" payable at **Allahabad**.

**Autodesk Certification Fee per student (OPTIONAL) – Rs. 1500 /-**

### Registration Procedure:

Hard copy of the duly filled and signed registration form duly approved by the Head of Department/Institute, along with registration fee should reach the coordinator on or before **February 24, 2015**. However, scanned advanced copy of registration form and demand draft may be sent through email for early registration.

The number of participants will be limited to **60** in number on first come first serve basis.

