

## Introduction

Design today has transformed from 'experience based' to digital 'software tools assisted'. Over the last decade, rapid advancement in computational power coupled with availability of high-end, low cost CAD/E software, has contributed largely to the development of digital prototyping or design. Hands-on-knowledge on these software is essential to meet the growing demand of the design industry for trained designers.

This course is designed to enhance the knowledge of participants from engineering institutions, who intend to adopt an integrated approach using CAD. The present course is a repeat of the successfully held earlier course and is aimed at familiarizing the participants with the use of Autodesk software tools (*AutoCAD and Inventor* mainly).

## Objective

CAD is an already established compulsory subject in the curriculum of all engineering institutes in India. However, there is a big gap between the theoretical concepts and practical applications, due to lack of computational facilities (commercial software and more so trained instructors).

This course is a repeat of the successfully held earlier course and aims at bridging this gap and enriching the future engineers and teachers by imparting knowledge of fundamentals, coupled with in-depth hands-on-experience through lab sessions on *AutoCAD and Inventor* software. This will help in building their knowledge base and give practical exposure to them in the modern day applications of CAD using *AutoCAD and Inventor* software. The overall aim being to contribute in the process of producing qualified, trained CAD professionals. This one week course will provide an opportunity to develop practical innovative designing skills.

## Course contents

- Introduction / Product Design Methodology
- **AutoCAD** based **2d Drafting**
- **AutoDesk Inventor** based **3d Solid modeling**
- **Assembly modeling** tutorials
- **Sheet metal** module
- Advanced Design tools from Autodesk / Product Design Case studies  
(Further details available on the course webpage)

All the lab sessions will be conducted by CAD industry experts.

The participants will be provided **online** access to various **Autodesk software tools and tutorials** as well as handouts/course material comprising of concise theory and step by step solutions / tutorials to a variety of general utility problems.

## Resource persons

The course instructors/faculty will be primarily drawn from MNNIT and CAD software training company CADD Concepts, Kanpur (an Autodesk Authorized Academic Partner).



## Participants

The program is open to UG/PG students, research scholars and faculty members of engineering institutions.

Number of participants will be limited to **60** on first come first serve basis.

## Registration

Registration fees –

**Rs. 3000/-** : Working Professionals / Faculty

**Rs. 2000/-** : Students

(A discount of 25% would be offered only to students of MNNIT Allahabad).

Payable in the form of a Demand Draft in favour of “**STCCADLAB - 2015**” payable at **Allahabad**.

Hard copy of the duly filled and signed registration form (enclosed or the one available on the course webpage) and duly approved by the Head of Department/ Institute, along with the registration fee should reach the coordinators on or before **May 3, 2015**. However, scanned advanced copy of registration form and DD may be sent through email for early registration. Fee in cash can also be paid by local participants.

### [Mail the application form to:](#)

**Dr. Mukul Shukla**  
Associate Professor

*Or*

**Dr. Samir Saraswati**  
Assistant Professor  
Department of Mechanical Engineering  
MNNIT, Allahabad – 211004, U.P.  
Email: mukulshukla@mnnit.ac.in  
samir@mnnit.ac.in  
Cell: 0-9451992782 / 08004926324

On prior request, accommodation may be provided to the participants on payment basis in the institute hostels / Guest House (EDC) (subject to availability). The participants have to bear their own travelling expenses.

## APPLICATION FORM

Self Sponsored Short Term Course  
on  
**Product Design  
with Autodesk Inventor**  
(May 4 – 9, 2015)

1. Name:
2. Date of birth:
3. Institution:
4. Educational qualifications:
5. Class / Branch (or)  
Designation / Department:
5. Address for correspondence:

Phone:

E-mail:

6. Prior exposure to CAD:
7. Accommodation required - Yes/ No

### Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course. I also agree to inform the Coordinators in case, I am unable to attend the course.

Place:

Date: Signature of the candidate

Mr/Ms/Dr -----  
is a student / employee of our institute and is hereby sponsored to participate in the **STC on PDAI**.

Place:

Date: Signature & Stamp of Head of Institution

Further details and the Brochure can also be downloaded from m-

<http://mnnit.ac.in/images/newstories/STC-on-PDAI-Brochure-MED-MNNIT-Allahabad.pdf>

### About MNNIT Allahabad

Motilal Nehru National Institute of Technology (MNNIT), Allahabad (formerly MNREC) is one of the oldest RECs setup in the country. Since 1964 it has been a centre of technological excellence in the state of UP in particular and the country in general. The institute is funded by the World Bank TEQIP scheme and has constantly been rated amongst the top 15-20 government engineering institutions of the country. The institute offers 9 B.Tech., 23 M.Tech., MCA, MBA, MSW, MSc (Mathematics and Scientific Computing) and Ph.D. programs. The institute has 9 engineering, 3 basic sciences and a humanities department, in addition to a school of management studies. The institute is a fully residential, networked campus. MNNIT Allahabad is well connected by rail, road and air.

### About Mechanical Engg. Department

Department of Mechanical Engineering is the leading department of the institute. It offers BTech (in Mechanical and Production and Industrial Engg), MTech (CAD-CAM, Design, Production, Product Design and Development and Thermal) and PhD. The department has 32 highly qualified faculty. More than 90 PhDs have been produced by the department which is also a QIP centre for PhD and MTech. The department has state-of-the-art laboratories and is equipped with latest software and equipments. The department also has liaison with reputed R & D organizations for imparting training and R & D services.

Self Sponsored

Short Term Course

## Product Design with Autodesk Inventor

on

(May 04 - 09, 2015)

**Patron**

**Prof. P. Chakrabarti**  
Director

**Chairman**

**Prof. R. K. Srivastava**  
Head, Mechanical Engineering Department

**Course Coordinators**

**Dr. Mukul Shukla**  
**Dr. Samir Saraswati**



Organized by

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



In technical association with  
**CADD Concepts, Kanpur**