



## ► MECHANICAL

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Toll Free No: 1800 425 0405 | [www.caddcentre.com](http://www.caddcentre.com)

# CERTIFICATE OF COMPLETION



IN : Diploma in Product Design and Analysis

AWARDED TO : Prateek Patel

AT : CADD Centre Training Services, Ranchi, Lalpur

DURING : August'2017 STUDENT ID No. : M170630062

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MANAGING DIRECTOR

Niraj Kumar Singh

CENTRE HEAD

12 - 09 - 2017

DATE OF ISSUE



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# CADD CENTRE®

Driving Digital Designs!

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An ISO 9001 - 2008 Certified Company

STUDENT NAME: **Prateek Patel**STUDENT ID No.: **M170630062**CERTIFIED IN : **Diploma in Product Design and Analysis****Topics Covered**

General Procedure involved in FEA  
 GUI of ANSYS Workbench/ANSYS  
 CAD modeling using ANSYS  
 Defining and Assigning Materials  
 Generating the mesh  
 Optimizing the model to refine mesh  
 Working with different boundary conditions  
 Surface and Line Models  
 Static Structural Analysis  
 Modal, Buckling, Thermal Analysis  
 Coupled Field (Thermal Stress) Analysis  
 Post Processing  
 Introduction to GD&T  
 Benefits of GD&T  
 Understanding Dimensions and types of Dimensions  
 Introduction to Tolerances, & Ways of Expressing Tolerances  
 IT Grades  
 GD&T Rules  
 Material and Virtual Conditions, Concept of Bonus Tolerances  
 Datums  
 Geometric Symbols and Modifiers  
 CATIA Graphical User interface  
 Complete Sketcher Workbench  
 Part Design and Dress Up Features  
 Duplicating and Editing Features  
 Multi-Body Methods and Analysis tools  
 Knowledge Tools  
 Assembly Design  
 Generative and interactive Drafting  
 Real time Rendering and materials properties  
 Wireframe Design

Surface Design  
 Advanced Swept Surfaces  
 Sheet Metal design  
 Data Exchange and V4 Integration

**Project :** Independent project work with expert assistance**Concept/Software taught :** Ansys , CATIA , GD & T

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