



► MECHANICAL

COURSE COMPLETION CERTIFICATE



Master Diploma



IN : Master Diploma in Product Design and Analysis

AWARDED TO : KUNDAN KUMAR

AT : CADD Centre Training Services, Jaipur, Bapu Nagar

DURING : June-2018 STUDENT ID No. : M170923754

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MANAGING DIRECTOR

Anil Kumar Verma

CENTRE HEAD

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STUDENT NAME: **KUNDAN KUMAR**STUDENT ID No.: **M170923754**CERTIFIED IN : **Master Diploma in Product Design and Analysis**

Topics Covered

Ansys

Introduction to Finite Element Analysis
FEA process
Linear Static Analysis in 1D, 2D and 3D element
Contact and Gluing Analysis between bodies
Thermal Analysis to find temperature and stress distribution
Nonlinear Analysis on geometric and material nonlinearity
GUI of ANSYS Workbench/ANSYS
CAD modeling using ANSYS
Generating the mesh
Optimizing the model to refine mesh
Static Structural Analysis
Modal, Buckling, Thermal Analysis
Buckling Analysis
Thermal Analysis
Coupled Field (Thermal Stress) Analysis
Post Processing

CATIA

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

GD & T

GD&T basics
Tolerance dimensioning
IT grades
Introduction to 'ASME Y14.5M-1994'
GD&T rules
Maximum material condition of a feature of size
Least material condition of a feature of size
Concept of virtual condition
Concept of bonus tolerance
Datums
Geometric Symbols and Modifiers

SolidWorks

Surface Modeling & Editing
Advance assembly tools
Drafting & detailing
Working with views, dimensions and annotations
Creating and managing projects using PDM
Design table/library features
Import/export of files
Working with mates

Bottom-up assembly
Top-down assembly
Exploded assembly
Simulation/ detailing
BOM, balloon tool
Sheet metal
PDM Works
Weldment

AutoCAD 2D

Introduction to CAD industry
Drawing settings
Orthographic drawings
Isometric drawings
Editing the drawings
Annotations and dimensions
Layer management
Project planning and management: an overview
Creating and updating repeated elements
Parametric drawings
Preparing joinery details / BOM
Presenting the project
Layout management
Scale setting and plotting
Import and Export

Project : **Independent project work with expert assistance**

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