



► MECHANICAL

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COURSE COMPLETION CERTIFICATE



Master Diploma



IN : Master Diploma in Product Design and Analysis

AWARDED TO : Shreyas

AT : CADD Centre Training Services, Bangalore, Chamarajpet

DURING : August-2018 STUDENT ID No. : M170497818

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MANAGING DIRECTOR

Vasu S

CENTRE HEAD

29 - 10 - 2018

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An ISO 9001 - 2015 Certified Company

STUDENT NAME: ShreyasSTUDENT ID No.: M170497818CERTIFIED IN : **Master Diploma in Product Design and Analysis**

Topics Covered

surface features

views & details

Kaizen

Paradigms shift

MUDA & MURI

Engagement

MECHANICAL

Introduction to Finite Element Analysis	Generative and interactive Drafting	NX Sheetmetal Design	HyperMesh Solver Interfaces	Creating and editing
FEA process	Real time Rendering and materials properties	The operation navigator	Independent project work with expert Assistance	Creating drawing
Linear Static Analysis in 1D, 2D and 3D element	GD&T basics	Manufacturing operations and postprocessing	Introduction to Kinematics	Introduction to
Contact and Gluing Analysis between bodies	Tolerance dimensioning	Wizards and shop documentation	Basic Mechanism Process	Paradigms,
Thermal Analysis to find temperature and stress distribution	IT grades	Planar milling - introduction and profiling	Creating joints	Kaizen Principles
Nonlinear Analysis on geometric and material nonlinearity	Introduction to 'ASME Y14.5M-1994'	Engrave text	Editing joints	Understanding
GUI of ANSYS Workbench/ANSYS	GD&T rules	Face milling	Motion transfer Joints	The 5s Campaign
CAD modeling using ANSYS	Maximum material condition of a feature of size	Cavity milling	Rotating joints	Seiton
Generating the mesh	Least material condition of a feature of size	Z-Level milling	Complex joints	Seiso
Optimizing the model to refine mesh	Concept of virtual condition	Thread milling	Converting constraints into Joints	Sieketsu
Static Structural Analysis	Concept of bonus tolerance	Radial cutting	Generating Mechanism	Employee
Modal,Buckling,Thermal Analysis	Datums	Surface area cutting	Simulating Mechanism	
Buckling Analysis	Geometric Symbols and Modifiers	Contour profiling	Evaluating Mechanism	
Thermal Analysis	Sketcher essentials	Rough and finish turning	Mechanism Analysis	
Coupled Field (Thermal Stress) Analysis	Creating fundamental curves	Centerline drilling	Creating and using component interfaces	
Post Processing	Creating part features	Groove and thread operations	Creating and using flexible components	
Wireframe Design	Assemblies clearance analysis	Multiple spindles and IPW	Using assembly features and shrinkwrap	
Surface Design	Assembly revisions and component replacements	Introduction to FEM	Understanding simplified reps	
Advanced Swept Surfaces	Assembly sequencing and motion	Brief on Meshing	Creating sketcher geometry	
Sheet Metal design	Constraining sketches	Basic interaction with HyperMesh	Creating cross-sections, display styles, and combined views	
Data Exchange and V4 Integration	Creating dimensions, notes and labels	Preparing geometry for meshing	Creating part features	
CATIA Graphical User interface	Datum features	Creating the Midsurfaces	Substituting components by rep, envelope, and model	
Complete Sketcher Workbench	Deformable components	Shell meshing	Creating and using assembly structure and skeletons	
Part Design and Dress Up Features	Drawings and views	Tetra meshing	Creating datum features	
Duplicating and Editing Features	Editing parts and features	Creating hexa and penta mesh	Creating sheet metal design	
Multi-Body Methods and Analysis tools	Part families	Quality - Checking and Editing Mesh	Relations and parameters	
Knowledge Tools	Synchronous Modeling Tools	Assemblies: welding and swapping parts	Layers, Family tables & UDF	
Assembly Design	Surface Designing Tools	Analysis Setup	Creating & exploding assemblies	

Project : Independent project work with expert assistance

Concept/Software taught : Ansys , CATIA , GD & T , NX CAD, NX CAM, HyperMesh , CATIA Kinematics , Creo Parametric , ESDP , Operational Excellence

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