





			<u>, Surface Modeling, Sheet Metal Model</u>
			<u>PMI, GD&amp;T, Render Studio)</u>
Course	Duration	:	40 Hrs.
Course	overview		
0	Intended au	dience	
	<ul> <li>This enging</li> <li>man</li> </ul>	course neers, a	is suited for designers, engineers, manufacturing pplication programmers, NC programmers, CAD/CAM
0	Prerequisite	s	na system managers who need to manage and use two.
0	■ <u>Educ</u> one o	<i>ation</i> : D of follov	viploma completed or Degree 2 <sup>nd</sup> year completed in any ving Streams.
	•	Aero Mech Mani	nautical, Automobile, Civil, Industrial, Marine, nanical, Mechatronics, Metallurgy, Production and ufacturing Engineering.
	- <u>30/10</u>	<u>vare:</u> Si Work	ring knowledge of the following:
	•	vvoir	<ul> <li>NX interface.</li> </ul>
		•	<ul> <li>Sketching and constraining techniques.</li> <li>Assemblies &amp; constraining assembly components.</li> <li>Feature-based solid modeling.</li> <li>Using the Part Navigator</li> </ul>
0	Course obie	tives	
	<ul> <li>After</li> <li>•</li> <l< th=""><th>success Impo Set u Grou Creat Utiliz Perfo Creat Creat</th><th>sfully completing this course, you should be able to: ort and Export the CAD file to various formats. p default standards and creation preferences. ping the history in part navigator te and edit parametric solid models. e additional sketch techniques. orm unplanned design changes using synchronous mode te and edit splines and other curves. te and edit primary and transition surfaces using free es and faces</th></l<></ul>	success Impo Set u Grou Creat Utiliz Perfo Creat Creat	sfully completing this course, you should be able to: ort and Export the CAD file to various formats. p default standards and creation preferences. ping the history in part navigator te and edit parametric solid models. e additional sketch techniques. orm unplanned design changes using synchronous mode te and edit splines and other curves. te and edit primary and transition surfaces using free es and faces
	•	Use S adva Use t shee Creat Visua	Sheet Metal tools to create base features and add more nced features to them. The Sketch Task Environment to create and edit profiles t metal parts. The Dimensions & Tolerances to part model (2D & 3D) The Rendering of part model

- Customize User preferences
- Import and Export the CAD file to various formats







- Part Navigator history grouping
- Synchronous sketching Synchronous Modeling
- Modify Face
- Detail Feature
- Delete Face
- Reuse commands
- Synchronous Modeling relationships
- Dimension commands
- Adaptive Shell
- Edit Cross Section and Edit Section
- Sweeping geometry to create part features
- Through Curve surfaces
- Through Curve Mesh surfaces
- Swept surfaces and bodies
- Section surfaces and bodies
- Bridge surfaces
- Face and Soft Blends
- N-Sided surfaces
- Analyze curves and faces.
- Sheet Metal workflow
- Establish basic part characteristics
- Define the basic shape of the part
- Constructing base features
- Sheet Metal corners
- Sheet Metal cut-outs
- Sheet Metal deform features
- Flat Solid and Flat Pattern
- Analyze Formability One step
- PMI to 3D Models
- Insert Table
- Dimension to Drafting views
- Annotations to Drafting views
- Setup Visual Materials
- Add text, Image to 3D models