

MSME- TECHNOLOGY CENTRE, GUWAHATI TOOL ROOM & TRAINING CENTRE



Ministry of Micro, Small & Medium Enterprises, Govt. of India

COURSE NAME: e – Learning on Application of Solidworks. DURATION:2weeks (2hrs/day)

SL No.	Contents
1	 Online Software installation guidance with self-introduction and interaction Introduction to TRTC & its Courses Introduction to CAD/CAM/CAE
2	 Application of Solidworks and its importance in CAD Modelling. Introduction to Solid works interface. Demonstrations on various Sketching Tool & also sketching in solid works , Creating ,editing and Constraining a Sketch
3	 Introduction to Solid modeling and different solid modelling tools to create and modify the model Demonstrations on different solid Modelling tools (Ex-Extrude, Revolve, Loft, Sweepetc.) & Practice Exercises.
4	 Demonstrations of Fillet, Chamfer , Pattern , Mirror & Hole features Demonstration of Draft, Shell &create and Modification of Curve Features also Practice Exercises.
5	 Demonstration of some advance solid Modeling tools (Hole Wizard ,Revolved Cut , Revolve Boss , Swept Bossetc Reference geometry creation & Practice Solid modeling using above Tools, Practice Excercises.
6	 Introduction to Surface Modeling. Demonstration on creating and Modification of Thin extruded surface, Revolved Surface, sweep surface & Lofted surface etc.
7	 Different Surface Editing and modification Tools Fillet/Round, Offset, Radiate, Fill, Freeform, Ruled Surface, Mid Surface, Parting Surface Trim, Extend, Un-trim, Knit, Move/Copy, etc.& Practice Exercises
8	 Introduction to Assembly Design. Demonstration on top and Bottom down assembly, filtering, mating conditions, Component pattern, exploding views and components, Assembly drawings
9	 Work with simple mates for different assembly component. Work with mate command for motion Create assembly feature like extrude, mirror, hole etc. Sectioning and assembly exercise Practice.
10	 Introduction to Design Sheet Preparation (Drafting) Standard three views, Model view, and predefined view, standard section views Creating dimensions, Annotations, Notes and Surface Finish Symbols

11	 Geometric Tolerance to the Drawing Views, Add Center Marks and Center Lines to the Drawing Views, Add Center Marks and Center Lines to the Drawing Views. Create drawing formats & customizing an existing format, Also perform generative drawing on Solid Works
12	 Test and Question Discussion Review , Feedback session & Validation