## CAREER HUB TECHNOLOGY

SOLID WORK SYLLABUS			
Module	Session	Contents	
Introduction	1	SOLID WORK as a CAD software: - Concept of Parametric Modeling, Feature Based Modeling, User Interface, Mouse operations, File types and Management, drawing profiles. Major user industries of Solid Work. Why Solid Work is preferred?	
Sketcher	2	Sketcher: Profile toolbar, operation (corner, chamfer, relimitations, transformations, project 3D element), constraints, types of constraints, workbench.	
5	3 CAR	<b>Sketcher:</b> - sketch tools, tools(Sketch solving status, sketch analysis, output feature), visualization toolbar, user selection fillter.	
	4 15	Modeling of Machined component, Material Addition and Removal (Pad, Pocket, Shaft, and Groove), Sketch and Positioned Sketch, Types of Fillets, Types of Chamfer, Types of Hole.	
	5	Modeling of Machined component - 2.  Pattern (Rectangular, Circular, User), Thread/Tap, Datum Features (Plane, Axes, Points), Simple Draft. Frequently used commands for Machined components in Solid Work / Solid Work	

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Modelling of Machined Component (Part Modelling)	6	Advance Design features: - Axis System, Types of draft, Shell, Stiffener, rib slot, Multisection solid, Removed multisection solid, Apply Material, Measure, Render.
	7	Introduction To Multibody concept:- Copy Paste, Paste special, Insert body, Boolean Operations (Add, remove, Intersect), Transformation (Translation, Mirror, Scaling, Affinity).
	8	Multibody concept:- standard example, Negative body concept (Boolean Operations)
	9	Advance Features: - Parameters, Formula, Relations, and Design Table.
	CAR 10 T	Introduction To Drafting & Detailing Theory:- (types Generative – Interactive), Initial Drafting setting, Sheet Background, Views (ortho, ISO), Dimensions (Types- Generate Dimension & Create Dimension).
Drafting	11	Views:- (Aux, Section, Details, Clipping, Broken), View properties, DATUMS & Tolerance
	12	Annotations:- GD & T, Symbols, Note, Leaders, Table, Symbols (Machining, Roughness, Welding, Custom), Dress-up Toolbar.

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	13	Surfacing Modeling based Plastic Component:- Environment, Tool bars, Surface Creation (Extrude, Revolve, Sphere, Cylinder), Surface Modification, Surface Editing (Trim, Split, Shape Fillet, Close Surface, Thickness).
	14	<b>Surfacing:-</b> Offset(All 3 types), Fill, Blend, Join, healing, Project-Combine.
	15	Advanced Surfacing: - Adaptive Sweep, Sweep(ALL), Multisection Surface.
Wire-frame Modeling	16	Wire-frame Modeling:- Point, Line, Planes, Curves, Circle-Conic, STANDARD EXAMPLES. Use of wire frame modeling,
BIW Templates	17	BIW Templates:- What is BIW, Junction, Diabolo, Hole, Mating Flange, Bead, Blend Corner.
Assembly & Mechanism	18	Introduction to Assembly:- Types of assembly approach, Types of Constrains and DOF, placement of components in the Assembly, Manipulating Components, BOTTOM UP Approach
	19	TOP DOWN Approach: Part, Product, Component, Space Analysis, Reuse Pattern, Save management.
	20	Assembly Drafting:- Scene (Exploded View), Bill of material, Ballon creation, Graph Tree Reordering.