Course Code	18DCC003J	Course Name	TECHNOLOG	SY DESIGN FOUNDATION	Course Category	Е		Minor		L 1	P 4	C 4
Pre- requisite Courses Course Offeri	Nil	SRM Inno	Co- requisite Courses vation and Incubation Center	Nil Data Book / Codes/Standards	Cour	ssive ses	lil					
			rpose of learning this course i			Learning	J	Program Learning Outcom	mes (PLO)			

Course Learning Rationale (CLR): The purpose of learning this course is to:				Program Learning Outcomes (PLO)														
CLR-1: Designed to explores mindset, skill set and toolset associated with design					1	2	3	4	5	6	7	8	9	10	11	12	13	14 1
CLR-2: Designed to work with guided applications to framing and solving problems from the perspectives of both business and engineering writing	(u	(%)	(0		a			earch					¥					
CLR-3: Exposing students diverging to generate solutions and converging to select among them	90	, S	(%		ğ		i i	S					Vor		nce			
CLR-4: Design methods to create concept generation methods, concept selection methods, imagining alternative futures					田 EngineeringKnowledge	.si	opme	ın,Re	sage	മ			TeamWork	_	æ	gu	ı	
	LevelofThinking (Bloom)	ExpectedProficiency	Attair		ngKn	naly)evel	Desig) loc	Sulture	Ψ.Ξ		& Te	catio	yt.&Finar	earning.		
Course Learning Outcomes (CLO): At the end of this course, learners will be able to:			ExpectedAttainment(%)		Engineeri	ProblemAnalysis	Design&Development	Analysis,Design,Re	ModernTool Usage	Society&(Environm Sustainab	Ethics	Individual &	Communication	ProjectMgt.	LifeLongLe	PS0-1	PSO-2
CLO-1: Students will be able to learn and understand technology design concepts	1	80	85		Н	-	-	-	-	-	-	Н	-	-	-	-	-	-
CLO-2: Students will be able to learning mindset, skillset and toolset associated with design					Н	Η	-	-	Н	-	-	Н	-	-	Н	-	-	-
CLO-3: Students will be able to identify the best solutions and converging to select among them.					Н	-	-	Н	-	-	-	Н	-	-	-	-	-	-
CLO-4: Students will be able to understand concept generation methods, concept selection methods, imagining alternative futures	2	80	75	Ī	Н	Н	-	-	Н	-	-	-	-	-	-	-	-	-

Duration (hour)	6	6	6	6	6
S-1 SLO-1 SLO-2	Introduction to Design Methodology	Prototyping	User Assessment	Value Proposition Design	Business Model
S-2 SLO-1 SLO-2	Design Frameworks	Prototyping Planning	Usability Test	Value Proposition Design and Mapping,	Business Model Canvas
S-3 SLO-1 SLO-2	Engineering Design Problem Solving	Concept Refinement and Storyboard	Understanding Users	Prototyping & Competitor Study	Business pitch
S-4 SLO-1 SLO-2	Developing Design Solutions	Envisioning Future	Learning about Customer	Competitors/ Complementors Map	Pitching strategies
S-5 SLO-1 SLO-2	Making Design Solutions	Conceptual design	Clustering & Abstract Laddering	Design Methodologies	IP and Partnerships
S-6 SLO-1 SLO-2	Evaluating Design Solutions	Creative Matrix, Morphological Synthesis, Concept Poster	User Testing	Capital Budgeting: Risk Analysis with Scenarios	Forecasting Financial Statements
S-7 SLO-1 SLO-2	Project Introduction and Team formation	Basic Presentation	Project Discussion with Teaching Team	Project Discussion with Teaching Team	Project Discussion with Teaching Team
S-8 SLO-1 SLO-2	Stakeholder Map	Project Discussion with Teaching Team	Project Discussion with Teaching Team	Project Mini-showcase	Final Project Presentation
S-9 SLO-1 SLO-2	Brainstorming	Usability Test Demo	Project Discussion with Teaching Team	Project Discussion with Teaching Team	Design Showcase

Learning	Foundations of Engineering & Technology, 7th Edition by Dr. R. Thomas Wright, Dr. Greg J.	4.	Innovation Engineering; a practical guide to creating anything new by ikhlaqsidhu
Resources	Strimel, and Dr. Michael E. Grubbs		

	Bloom's Level Continuous Learning Assessment (100% weightage)												
	of Thinking	CLA – 1 (25%)		CLA – 2 (2	5%)	CLA - 3 (20	0%)	CLA - 4 (30	0%)				
	or miliking	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice				
Level 1	Remember			30 %			30 %		30 %				
Level I	Understand	40 %	-	30 /0	-	•	30 //	-	30 /0				
Level 2	Apply	40 %	-	40 %	-	_	40 %	-	40 %				
Level 2	Analyze	40 /0							40 70				
Level 3	Evaluate	20 %		30 %		_	30 %		30 %				
LEVEL 3	Create	20 /0	-	30 /0	-	_	30 /0	-	30 70				
	Total	100 %		100 %		100	0 %	100 %					