22MCIN04		IDEATION SPRINTS	SE	SEMESTER V							
PRE-REQUIS		ITE:	CATEGORY	L	Т	P	С				
			EE	0	0	2	1				
Course Objectives:											
1. To offer a systematic and structured process to hack a solution using available tools & resources											
2.	2. To identify the challenge/opportunity, derive insights from the customer/user interviews, & build a solution and validate the technical feasibility of the solution										
3. To build the PoC for proposed solution & pitch to user/customer for validation.											
Differen	l ice betw	INNOVATION 101	lisk of innovations	- Definin	0 9 &	U	3				
validating hypothesis through Product Innovation Hypothesis (PIH) & Forge Innovation Rubric (FIR)											
UNIT II DODI EM VALIDATION & CUSTOMED DISCOVEDV 2											
Tools ar	nd techni	gues of the managed innovation process (iTOOLS - innovation toolkit)	-Customer-Centric	: Innovati	on:	U	5				
Custome	er-centri	c design thinking and validate the problem scenario, its significance, sev	verity, and incidence	ce - Disco	ver &						
identify the right buyer beneficiary/Customer - rigorous Gap analysis of the existing solution - Adoption barriers of the solutions.											
UNIT	TT	DECICINING & OD A ETING VALUE DROBOGITION		2	•	0	2				
UNIT	und Cust	DESIGNING & CRAFTING VALUE PROPOSITION	fy Value Propositi	on Build	0	U	J				
value pr	oposition	n.	ry value riopositio	on -Dund	a coi	npe	nnig				
UNIT I	IV	MUP SOLUTION CONCEPT EXPLORATION & DESIGN	GENERATION	N 3	0	0	3				
Solution: Concept Generation, Concept Assessment, Solution, Capability, Usability, and Feasibility- MUP Design and Technology Block Diagrams- Bill of Materials Generation - BoM Optimisation											
	17	BRAGE OF CONCERT DEVELOBMENT & DEMONSTR			0	0					
	V f Concor	PROOF OF CONCEPT DEVELOPMENT & DEMONSTR	ATION	J	U	0 f V	<u>3</u>				
proposit	ion - Inn	ovation Brief documentation (Proposal) - Demonstrate a PoC;	echnical leasionity	/ test del	iver (01 V	alue				
			Tota	ıl (15L) =	= 15]	Per	iods				
T 4 D]										
l ext B	OOKS:	Charge hy Design Haw design thinking transforme approximation			I a ma a	-Co	11:00				
1.	Tim Brown, Change by Design: How design thinking transforms organizations and inspires innovation – HarperColle-books, 2009										
2.	Alexander Osterwalder, <u>Value Proposition Design</u> : How to Create Products and Services Customers Want (Strategyzer) - John Wiley & Sons, 2014										
3.	Ulrich Karl and Eppinger Steven D, Product Design and Development - McGraw Hill, 5th edition, 2020										
4.	Blank Steve, Four Steps to Epiphany: Successful strategies for products that win, KS Ranch, 5th edition, 2013										
Keterence Books:											
1.	proposition-7247493c940c										
2.	Test your Value Proposition: http://businessmodelalchemist.com/2012/09/test-your-value-proposition-supercharge-lean-startup-and-custdev-principles.html										
3.	Valuation Risk versus Validation Risk in Product Innovations: https://blog.forgeforward.in/valuation-risk-versus-validation-risk-in-product-innovations-49f253ca8624										
4.	User Guide for Product Innovation Rubric: https://blog.forgeforward.in/user-guide-for-product-innovation-rubric- 857181b253dd										
5.	Innovation Risk Diagnostic — Product Innovation Rubric: https://blog.forgeforward.in/product-innovation-rubric-adf5ebdfd356										
6.	6. Evaluating Product Innovations — proof, potential, & progress: https://blog.forgeforward.in/evaluating-product- innovations-e8178e58b86e										
COUR	SE OU	TCOMES:		Bloom's	Taxo	nor	ny				
Upon completion of the course, the students will be able to:											

C01	Apply a scientific method to understand the inherent risks of product innovation	
C02	Apply innovation tools & techniques to validate the problem scenario and to assess the market	
	potential of product innovation;	
СО3	Design solution concept based on the proposed value by exploring various alternate solutions	
	to achieve value-price fit;	
C04	Demonstrate technical skills by applying technology to build and demonstrate proof of concept	
	for the solution proposed;	
<i>C05</i>	Develop skills to articulate the solution concept into a proposal for grants.	

COURSE ARTICULATION MATRIX															
CO/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1															
CO2															
CO3															
CO4															
CO5															
Avg															
3 / 2 / 1 – indicates strength of correlation (3 – High, 2 – Medium, 1 – Low)															