Prasad.V.Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada

DESIGN THINKING LAB

(Common to all)

Course code	19ES1352	Year	II	semester	Ι
Course	Engineering	Branch	IT	Course Type	Lab
category	science	Draiten	11	Course Type	
Credits	2	L-T-P	0-0-2	prerequisites	nil
Continuous		Semester			
Internal	25	End	50	Total marks	75
evaluation		Evaluation			

Contribution of course outcomes towards achievement of program outcomes & strength of														
							correl	ation						
		1:5	Slight ((low),	2: M	loderat	te (me	dium)	3	8: Subst	antial ((High)		
							PSO							
	1	2	3	4	5	6	7	8	9	0	1	2	1	2
CO			2	2					3				2	2
1														
CO			2	2					3				2	2
2														
CO			2	2					3				2	2
3														
CO			2	2					3				2	2
4														
CO			2	2					3				2	2
5														

	Syllabus				
Exp No	List of Experiments	Mapped CO			
1	Design a mind map of design thinking	CO1			
2	Thirty circle Exerciseideation	CO3			
3	Prepare a toothpick bridge (mock-up model)	CO1,CO3			
4	Prepare a marble maze (mock up model)	C01,C03			

5	Build a wind power car (mock up model)	CO1,CO3
6	Make a hydraulic elevator (mock up models)	C01,C03
7	Construct Empathy maps for a given case study-1	CO2
8	Develop customer journey map for a given casestudy-1	CO2
9	Construct Empathy maps for a given case study-2	CO2
10	Develop customer journey map for a given case study -2	CO2
11	Make a paper prototype for user testing (mock-up model)	CO2
12	Design and development of cell phone wallet (mock-up model)	C01,C02,C03
13	Design thinking casestudy-1using sprint base software	CO4
14	Design thinking casestudy-2using sprint base software	CO4

Learning Resources					
Text Books:					
1. Idris Mootee, "Design Thinking for Strategic Innovation", John Wiley & Sons					
(2013).					
2. "Change by design", Tim Brown, Harper Collins, 2009					
3. "Design Thinking- The Guide Book" – Facilitated by the Royal Civil service					
Commission, Bhutan					
4. Engineering design by George E Dieter					
REFERENCE BOOKS					
1. 101 Design Methods: A Structured Approach for Driving Innovation in Your					
Organization by Vijay Kumar					
2. Human-Centered Design Toolkit: An Open-Source Toolkit To Inspire New Solutions in					
the Developing World by IDEO					
ADDITIONAL LEARNING RESOURCES					
https://www.interaction-design.ora/literature/topics/design-th/nking					
https://www.interaction-desiqn.prq/literature/article/how-tq- <eve'op-an-empath\capproach-< td=""></eve'op-an-empath\capproach-<>					
in-design-thinking					