Design Thinking Lab

Offering Branches	Common to all Branches		
Course Category:	Engineering Science	Credits:	2
Course Type:	Practical	Lecture-Tutorial- Practical:	0-0-2
Prerequisites:	-Nil-	Continuous Internal Evaluation: Semester End	25
		Evaluation: Total Marks:	50 75
Course Outcon	nes		
Upon successful	completion of the course, the student will be able to:		
CO1	Develop a mind maps for design thinking process		L3
CO2	Prepare empathy maps and journey maps for problems.		L3
CO3	Construct mock-up models through ideation and innovation technique	es	L3
CO4	Use software for design thinking problems		L3
	Course Content		
Expt.No.1	Design a mind map of design thinking		CO1
Expt.No.2	Thirty circle Exerciseideation		CO3
Expt.No.3	Prepare a toothpick bridge (mock-up model)		CO1,CO3
Expt.No.4	Prepare a marble maze (mock up model)		CO1,CO3
Expt.No.5	Build a wind power car (mock up model)		CO1,CO3
Expt.No.6	Make a hydraulic elevator (mock up models)		CO1,CO3
Expt.No.7	Construct empathy maps for a given case study-1		CO2
Expt.No.8	Develop customer journey map for a given case		CO2
Expt.No.9	Construct empathy maps for a given case study-2		CO2
Expt.No.10	Develop customer journey map for a given case -2		CO2
Expt.No.11	Make a paper prototype for user testing (mock-up model)		CO2
Expt.No.12	Design and development of cell phone wallet (mock-up model)		CO1,CO2, CO3
Expt.No.13	Design thinking-1 using sprintbase software		CO4
Expt.No.14	Design thinking-2 using sprintbase software		CO4
	Learning Resources		
Text Books	 Design Thinking for Strategic Innovation, Idris Mootee, 2013, Joh Change by design, Tim Brown, 2009, Harper Collins. Design Thinking-The Guide Book – Facilitated by the Royal Civi Engineering design, George E Dieter, 4th Revised edition, 2009 N 	l service Commission	n, Bhutan
Reference Books	2 . 6 6		

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