

AMBALA COLLEGE OF ENGINEERING AND APPLIED RESEARCH, AMBALA

Department of Applied Science and Humanities

Subject: Design Thinking lab

Semester: 1st

Subject Code: B24-HSC-102

Practical: 02

Internal Examination marks: 100

Lesson Plan

Name of Faculty: Er. Manisha Dhindsa

Discipline: ECE

B.Tech Semester: 1st semester

Lesson Plan Duration: 15 Weeks (January to May)

Workload (Lecture/week (in hours): P-2)

Syllabus

B24-HSC-102	Design Thinking lab						
Lecture	Tutorial	Practical	Credit	Minor test	Practical	Total	Exam Hour
0	0	3	1.5	40	60	100	-
Course Outcomes							
CO1	Students will be able to understand the concept of Design Thinking						
CO2	Students will be able to empathize and define the problems						
CO3	Students will be able to ideate and prototype the proposed solution						
CO4	Students will be able to test and present the proposed solution						

Practical	
Practical day Week	Topic
1st	Introduction to Design Thinking
2nd	Phases of Design Thinking

3 rd	Empathize on real life problems <ol style="list-style-type: none"> a. Observe b. Engage c. Watch and Listen
4 th	Lab Visit
5 th	Viva-voce-1
6 th	Define the problem statement <ol style="list-style-type: none"> a. User b. Needs c. Insights
7 th	Ideate on problem statement <ol style="list-style-type: none"> a. Brainstorming b. Constraints c. Best solutions
8 th	Viva-voce-2
9 th	Prototype the design solution <ol style="list-style-type: none"> a. Start building b. Timing of prototype
10 th	Prototype the design solution <ol style="list-style-type: none"> c. Build a prototype d. Build with user in mind
11 th	Lab visit
12 th	Concepts of Brainstorming, Tools used in Design Thinking ,mapping
13 th	Test the design solution <ol style="list-style-type: none"> a. User's hand on b. Create experiences

14th	Test the design solution c. Users to compare
15th	Final Viva-voce

Er. Manisha Dhindsa
Assistant Professor
ECE Department