Course Name: DESIGNING THINKING

Course Outcome

CO1: Analyse design thinking concepts and principles to perform human centered design process for creative problem solving.

CO2: Create empathy maps to visualize user attitudes and behavior for gaining insights of customers.

CO3: Develop innovative products or services for a customer base using ideation techniques.

CO4: Build prototypes for complex problems using gathered user requirements.

CO5: Apply design thinking tools techniques to produce good design and relevant products or services for a specific target market.

CO6: Improve prototype by testing it with a specific set of users for making it sustainable by following ethics.

Printed Pages: 2

University Roll No.

End Term Examination, Even Semester 2021-22 B.Tech.(Hons)-CSE, I- Year, II- Semester BCSG 0051: DESIGNING THINKING

Time: 3 Hours

Maximum Marks: 45

Instruction for students:

All the questions are compulsory.

Attempt the questions as per section wise order.

Section - A

Atten	mpt All Questions	4x5 =	20 M	larks	- 44
No.	Detail of Question	Marks	CO	BL	KL
1	Enlist the various types of thinking process and its appropriate application.	4	1	R	F
2	Explain various phases of Design Thinking by considering a suitable case study related to healthcare.	4	2	U	P
3	Why Visualization is important in Ideation phase? Name the techniques which help in better visualization?	4	2	A	М
4	What is prototyping? What is Minimum Viability Product and why it is important?	4	4	R	. C
5	Why testing of Prototypes are so very important? What is difference between testing a digital product vs testing a physical product?	4	5	E	F

Section - B

	Section – B		3x5=15 Marks			
and the contract the contract of the	apt All Questions	Marks	CO	BL	KL	
No.	Detail of Question Give three examples of Prototyping.	3	3	R	F	
12°	What is Fidelity for Prototypes?	3	3	R	F	
3	Explain how story boarding approach helps in defining the features of prototype.	3	4	U	С	
4	Define basic preparation requirement for testing the physical products	3	4	A	F	
5	Discuss the process of testing prototypes with users.	3	4	A	P	

Section - C

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 $5 \times 2 = 10$ Marks

No.	Detail of Question		CO	BL	KL
1	Illustrate the phases of Design Thinking by block diagram. Inside every block, mention two activities in the respective phase.	5	2	С	С
1 2	Explain, why is "prototype testing with the secress of the design thinking process?	5	5	U	С