## O.P.Code:23HS0815

**R23** 

H.T.No.

## SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

## B.Tech. II Year II Semester Regular Examinations July/August-2025 DESIGN THINKING & INNOVATION

(Common to All)

Time: 3 Hours		,	Max. Marks: 70		
PART-A					
	,	tions $10 \times 2 = 20 \text{ Marks}$	-77-		
1	a Name the five stages of the Design Thinking		CO1	L1	2M
	<b>b</b> How does Design Thinking help in product	•	CO1	L2	2M
	c Define the Empathize stage in Design Think	_	CO <sub>2</sub>	L1	2M
	d Why Define stage is important in problem-s	•	CO2	L4	2M
	<ul><li>What are the key principles of the art of inno</li><li>What role does risk-taking play in innovation</li></ul>		CO3	L1	2M
			CO3 CO4	L1 L1	2M 2M
	<ul><li>g What is problem formation in product design</li><li>h Define product design and its key component</li></ul>		CO4	L1	2M
	i Define design thinking, and how is it applied		CO5	L1	2M
	j How does design thinking help businesses so		CO5	L2	2M
	•	RT-B			
	(Answer all Five Units $5 \times 10 = 50$ Marks)				
	UI	NIT-I			
2	a Explain the primary focus of traditional think	king.	CO <sub>1</sub>	<b>L2</b>	<b>5M</b>
	<b>b</b> Explain the importance of empathy in design	ı thinking.	CO <sub>1</sub>	<b>L2</b>	5M
		OR			
3	Explain the impact of new materials in indus	strial design and their role in	CO <sub>1</sub>	L2	10 <b>M</b>
	shaping sustainable practices.	TVD III			
		NIT-II	600	T 4	#3.#
4	a List and Construct Five stages of Design Th		CO2	L1	5M
	<b>b</b> Explain five stages of Design Thinking proc		CO <sub>2</sub>	L2	5M
5	Discuss a real-world case study where Des	OR	CO2	L2	10M
3	a social innovation.	sign inniking was used for	COZ	1.4	TUNI
		IT-III			
6	Evaluate the effectiveness of design think		CO3	L6	10M
v	across its different stages.	and in anyme innovation	000	LU	101.1
		OR			
7	Explain the importance of creativity and	d innovation in achieving	CO <sub>3</sub>	<b>L2</b>	<b>10M</b>
	organizational success, with examples.				
	I	IT-IV			
8	a State product design and List out the differen		CO4	L1	5M
	<b>b</b> Explain the key stages in the product design	-	CO <sub>4</sub>	L2	5M
0		OR	COA	T =	101/1
9	Assess the effectiveness of various methods product success.	used to measure post-faunch	CO4	L3	10M
5	-	NIT-V			
10	Compare and contrast the application of		CO5	T.4	10M
10	organizations versus startups. How does each be		COS	LŦ	101/1
	-	OR			
11	a Explain the concept of design thinking.		CO5	<b>L2</b>	5M
	b Apply the design thinking process in dr	iving business and strategic	CO5	L3	5M
	innovation.	_			

\*\*\* END \*\*\*