O.P.Code: 20HS0823

R20

H.T.No.

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

M.Tech Year Semester Regular & Supplementary Examinations February-2025 RESEARCH METHODOLOGY AND IPR								
Tin	ıe:	3 Hours	Max.	Marks	s: 60			
		(Answer all Five Units $5 \times 12 = 60$ Marks)						
UNIT-I								
1	a	What do you mean by research? Explain its significance in modern times.	CO1	L1	6M			
	b	What do you understand by term Research Problem? What are the objectives of Research Problem?	CO1	L2	6M			
		OR						
2		Explain the terms Fundamental Research, Basic Research, Applied	CO1	L2	CM.			
2	а	Research and Industrial Research with suitable examples.	COI	L2	6M			
	b	Explain different sources of research problem by giving suitable examples under source.	CO1	L3	6M			
		UNIT-II						
2			CO2	1.2	CNA			
3	a	What is research design? Give a brief description of various research designs.	CO2	L2	6M			
	b	Literature review helps in identifying a suitable research problem. Comment.	CO2	L4	6M			
		OR						
4	a	What are the various means of conducting literature survey in modern times?	CO2	L2	6 M			
	b	Give a detailed description on maintenance of ethics in research work.	CO2	L3	6M			
		UNIT-III						
5	a	"Empirical research in India in particular creates so many problems for	CO ₃	L4	6M			
		researchers."State the problems that are usually faced by such researchers.						
	b	Discuss the importance of critical literature review and its uses in	CO3	L3	6M			
		planning innovation research. OR						
6			CO2	1.2	CM			
6	а	Explain essential features of report writing highlighting the importance and implication of research outcomes.	CO3	L2	6M			
	b	How do you go about formulating research problem? How do you	CO ₃	L2	6 M			
		organize your research work?						
		UNIT-IV						
7	a	What is innovation? Elucidate on various type of innovation.	CO4	L2	6M			
	b	Discuss Radical Innovation and Incremental Innovation by quoting real	CO4	L3	6 M			
		time examples.						
_		OR	~~ 1	~ .	63.5			
8	a	Write short notes on	CO4	L1	6 M			
	1.	(i) Patents (ii) Copyrights (iii) Trademarks (iv) Designs	004	T 4	(N #			
	b	Discuss the significance of Intellectual Property rights in modern day context.	CO4	L4	6M			

UNIT-V

9	a	What do you mean by patent right? What rights does a patent owner	CO ₅	L2	6M
		have?			
	b	What does it mean to "Licence a Patent" and why is it done?	CO ₅	L3	6M
		OR			
10	a	How are patent rights enforced? Explain in detail.	CO ₅	L3	6M
	b	Why should I care about patent information? Where can I find patent	CO ₅	L4	6M
		information?			

*** END ***