### Research Methodology(R22DHS53)

### **QUESTION BANK**

M. Tech – I Year – I Sem. (VLSI & Embedded Systems) 2022-2023





# DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGG MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous Institution –UGC, Govt. of India)
(Approved by AICTE- Accredited by NBA & NAAC- 'A' Grade-ISO 9001:2008 Certified)
Maisammaguda, Dhulapally, Secundrabad-500 100.

### Code No: R20DHS53

### MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

### M.Tech I Year I Semester Supplementary Examinations, November 2022 Research Methodology

(MD, TE, CSE, VLSIES & ASP)
Roll No

Time: 3 hours  Answer Any Five Questions All Questions carries equal marks.  ***											70							
1	A	What do you mean by Research? Explain its significance in modern times.												[7M]				
	В	Explain the Research process with a suitable diagram.											[7M]					
2	A "Research is much concerned with proper fact finding analysis and									[7M]								
	В	evaluation". Do you agree with this statement- Justify. Explain different types of research studies.										[7M]						
3	A B	Explain the necessity of defining a Research Problem. What are the various means of conducting literature survey in modern times?												[7M] [7M]				
4	A	-	lain ess						side	red b	y a 1	esea	rche	r wh	ile			[7M]
	В		aulating Research Problem.  at is a Research Problem? Explain Components of Research Problem.									[7M]						
5	A	What is a Questionnaire? Explain the process of construction of a											[7M]					
	В	questionnaire.  Evaluate the different methods of Collecting Secondary data.									[7M]							
6	A B									[7M] [7M]								
7	A B												[7M] [7M]					
8	A		at is Hy					ne si	gnifi	cance	e of	form	ulati	ng tl	ne			[7M]
	В		othesis in the						Repo	rt.								[7M]

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### MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

## M.Tech I Year I Semester Regular/Supplementary Examinations, June 2022 Research Methodology

(MD, TE, CSE, VLSIES & ASP) **Roll No** Time: 3 hours Max. Marks: 70 Answer Any **Five** Questions All Questions carries equal marks. 1 Define Research process and Explain various steps in research process Α [7M] В Describe the different types of research. Distinguish between an [7M] experiment and a survey 2 Α Write a Short notes on [7M] a) Objectives of Research **b**) Criteria of a good research В Distinguish between Research Methods and Research Methodology. [7M] 3 A Explain the Process of identification of Research problem. [7M] В How do you carry Literature Review? What are the advantages of the [7M] same? 4 Α Define Research Problem and explain the techniques involved in [7M] defining a Research Problem. Explain different sources of Research problem by giving suitable В [7M] examples. 5 Define Research Design? Explain the need and features of a good Α [7M] design. В Explain various types of Research Design. [7M] 6 Distinguish between Primary Data and Secondary Data Α [7M] Explain the classification of data with suitable examples. В [7M] 7 A Explain the basic concept of sampling. How do you determine the [7M] sample size of a research study. Discuss the probability sampling with merits and demerits? В [7M] 8 Define Research report and Explain various components of Research A [7M] [**7M**] В Lucidly present the stages for preparation of a research report.

Code No: R20DHS53

## MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India) M.Tech I Year I Semester Regular Examinations, July 2021 Research Methodology

(MD, TE, CSE, VLSI&ES & ASP)											
Roll No											
	•	•	•		•			N	lax.	Mar	ks: 7

Time: 3 hours

Answer Any **Five** Questions All Questions carries equal marks.

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- 1 Examine the concept of research, its significance, cognize in business management [14M] distinguish between different kinds of research available for business management with suitable illustrations.
- How would you define research, its significancy, components of good research [14M] study and distinguish between exploratory research and conclusive research and brief on the research process?
- What are various approaches to study the research problem & formulation of [14M] objectives and brief on the role of literature review in formulating a research problem?
- 4 Why do we formulate hypotheses in research? What criteria should be fulfilled [14M] while developing hypothesis and differentiate between various types of hypotheses?

5 Examine the importance, characteristics of research design and how research [14M] designs are classified and brief on how experimental design is different from a descriptive research design. 6 What are different data collection options available to the researcher? Compare [14M] and contrast them and brief on the ethical issues in collecting data. 7 How do you determine sample? Explain different types of probability and non- [14M] probability sampling and brief on statistics used in sample size selection. 8 Explain the purpose of research report? What are various stages of report writing [14M] and explain criteria for good research report.

**R20** 

Code No: R20DHS53

## MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)
M.Tech I Year I Semester Supplementary Examinations, Dece2021

### Research Methodology (TE, VLSI&ES & ASP)

	(12) (281628 6 1181								
Roll No									

Time: 3 hours

Max. Marks: 70

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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### **SECTION-I**

1 Define research, motives for business research, and distinguish between fundamental research and applied research and examine the series of interrelated steps in management research process. [14M]

OR

What do you understand by research methodology, state the types of research, and apprehend the steps that need to be accomplished in order to complete the management research study?

#### **SECTION-II**

3 How do you formulate a research problem? What [14M] considerations should a researcher keep in mind while formulating a research question and discuss the importance of literature review in approaching a research problem?

OR

4 Discuss the purpose of hypothesis in marketing research, highlight the procedure of developing a good hypothesis and how is a null hypothesis tested?

#### **SECTION-III**

What is the purpose of research design? Explain the elements, principals of experimental research design? and brief on types of research design suitable of researching the online education system in India.

OR

6 Discuss different methods of collecting data, its merits and [14M] demerits and brief on the ethical issues in collecting data.

#### **SECTION-IV**

What is the significance of sample selection, explain the factors should be considered while sample selection and brief on various sampling methods?

OR

8 Discuss the role of measures of central tendency in data analysis and what test is used to examine the statistical significance of correlation coefficient?

#### **SECTION-V**

9 Examine the role of analysis of variance in research? Discuss the procedure involved in analysis of variance; tabulate the ANOVA table in both the one-way and the two-way classification.

OR

10 Examine the basic principles and techniques of writing the research proposal and brief on the various stages, criteria for good research report.

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[14M]