

<b>Name of Faculty</b>	:	Faculty of Engineering & Technology
<b>Name of Program</b>	:	Master of Technology (M.Tech.) - Cyber Security
<b>Course Code</b>	:	2MCS03
<b>Course Title</b>	:	Research Methodology
<b>Type of Course</b>	:	Value Added (VA)
<b>Year of Introduction</b>	:	2023-24

<b>Prerequisite</b>	:	Basic familiarity with research concepts and academic writing.
<b>Course Objective</b>	:	This course is designed to enable students to can in detail the mechanics and stylistics of different kinds of research writings. it will encourage students to analyse linguistic/generic aspects of research papers and enrich the students with essentials of academic research in humanities and social sciences. it will enable them to write research articles, projects and dissertations and equip them with the abilities to read, interpret and write in new areas of research.
<b>Course Outcomes</b>	:	At the end of this course, students will be able to:
	CO1	To familiarize students with the basic concepts of research before heading towards higher dimensions of research.
	CO2	To enable students to understand various paradigms of research, its tools, ethics and challenges related to the fields in humanities and social sciences and develop creative and academic skills in them.
	CO3	To encourage students to adopt interdisciplinary approaches in their research endeavors.
	CO4	To enable students to cultivate research ethics and academic integrity.
	CO5	To enable students to formulate their own research questions and write research papers.

#### Teaching and Examination Scheme

Teaching Scheme (Contact Hours)			Credits	Examination Marks				
L	T	P		Theory Marks		Practical Marks		Total Marks
			C	SEE	CIA	SEE	CIA	
3	0	0	3	70	30	00	00	100

*Legends: L-Lecture; T-Tutorial/Teacher Guided Theory Practice; P - Practical, C - Credit, SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)*

**Course Content**

Unit No.	Topics	Teaching Hours	Weightage	Mapping with CO
1	<p><b>Introduction</b> Meaning of research – Function of research – Characteristics of research -- Steps involved in research – Research in social sciences and humanities –</p> <p>Research as Exposition and Communication, Materials and Tools of Research, Books, Journals, Research Papers, National/international Conferences, Field Studies, Web Sources.</p> <p>Factors which hinder research – significance of research -- research process -- criteria of good research -- problems encountered by researchers – Literature review.</p>	12	20%	CO1
2	<p><b>Introduction to research methodology</b> (Research, Hypothesis. Analysis of data and interpretation) Research question Review of literature Data collection- Primary and Secondary Sources Conducting Research: Research Task, Selection of Research Topic, Taking Notes, Methods and Types of note-taking.</p>	12	20%	CO1 CO2
3	<p>Components and Requirements Research Proposal/ Synopsis Research Paper Thesis/Dissertation Research tools MLA Style Sheet (latest Edition) Chicago Manual of Style (latest Edition)</p>	12	20%	CO3
4	<p><b>Research Ethics:</b> Definition and Forms of Plagiarism, Academic Integrity. Social Responsibility. Copyright infringement; Mechanics of Writing Research.</p>	12	20%	CO2 CO4
5	<p>Workshop and Presentation I Workshop and Presentation 2 *The students will be divided into smaller groups for presentations</p>	12	20%	CO4 CO5



Suggested Distribution of Theory Marks Using Bloom's Taxonomy						
Level	Remembrance	Understanding	Application	Analyse	Evaluate	Create
Weightage	20	30	30	20	0	0

*NOTE: This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.*

#### Reference Books

Sr. No.	Name of Reference Books
1	Abdul Rahim, F. Thesis Writing: A Mamula for Researchers. New Delhi: New Age International, 2005.
2	Adam Srijon. Research Methodology: Methods & Techniques. Delhi: New Age Internationals, 2004.
3	Ahuja, Ram. Research Methods. Rawat Publications, 2001
4	Altick, R. D. The Art of Literary Research. New York: Norton, 1963. and American Literature. New York: MLA of America, 2000