RESEARCH METHODOLOGY

CORE - X

Semester	Subject	Categor	Lecture		Theory		Practical		Cred
	code	У	Tota 1 hrs	Hrs/ wee	Tota 1 hrs	Hrs	Tota 1 hrs	Hrs/	it
				k		wee		k	
						k			
IV		Core	90	6	90	6	0	0	6

## **COURSE OBJECTIVES**

To enable the students to understand Research Methodology

# **COURSE OUTCOMES**

On the successful completion of the course, students will be able to understand the key things about research

СО	CO Statement	Knowledge Level
Number		(K1-K4)
CO1	To understand the meaning of research and research process	K2
CO2	To analyze the importance of Review of Literature and role of computers in research	K4
CO3	To understand the significance of literature citations	K2
CO4	To understand the skill of writing a research report	K2
CO5	To apply the knowledge of computer in typing and formatting of a research report.	К3

#### MAPPING WITH PROGRAMME OUTCOMES:

cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	M	M	M	M	M	M
CO2	M	M	M	M	M	M
CO3	M	M	M	M	M	M
CO4	M	M	M	M	M	M
CO5	M	M	M	M	M	M

S- Strong; M- Medium; L- Low

# Unit -I: Research methodology; An Introduction

18 hrs

Meaning of research- Objectives of research- Motivation in research, Types of research-Basic and Applied research – Essential steps in research; Research process- Criteria of good research.

## Unit-II: Review of Literature

18 hrs

Review of Literature – Need for Review of Literature - Research reading – consulting source material – Bibliography – index cards and reference cards. Role of computers in biological research, Plagiarism.

# **Unit- III: Literature Citations**

18 hrs

Literature Citations; Different systems of Citing Reference – Name-Year System-Citation in the text, Name-Year System-List of References; Citation – Sequence System; Alphabet-Number System; Journal Abbreviations,

# Unit- IV: Research Report

18 hrs

Introduction, Components of research report – Title – Authors & addresses – Abstract – Summary – Synopsis – Keywords – Introduction – Materials & Methods – Results – Discussion – Acknowledgements – General

Introduction and General Discussion - Summary and Conclusions -Appendixes – References,

# Unit-V: Research Formatting and Typing

### hrs

Introduction - Paper - Margins - Paragraph indentations - Widow & Orphan lines - Spacing - Alignment - Hyphenation - Fonts - Pagination, Format of a thesis - Title page - Certificate page - Declartion page -Acknowledgement page - Table of contents - Abstract page - List of Tables -Figures - Abbreviations & symbols - Chapters - Quotations - Table - Summary - Appendixes - References - Figures.

**DISTRIBUTION OF MARKS:** Theory - 100% and Problems – Nil

### **TEACHING METHODOLOGY:**

- Lectures
- ❖ Power point presentation
- Charts
- Models
- Group discussion
- Group assignments

### **TEXT BOOKS:**

SL NO:	BOOK NAME	AUTHOR	PUBLISHER	YEAR OF PUBLICAT
				ION
01	Research	Santosh Gupta	Laurier Books,	2002
	Methodology and		Limited	
	Statistical			
	Techniques			
02	Research	N Gurumani	MJP Publishers	2019
	Methodology: For			
	Biological Sciences			

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03	Introduction to	Alexis	VIKAS PUBLISHING	2009
	Computers	Leon, Mathews		
		<u>Leon</u>		

# **REFERENCE BOOKS:**

SL NO:	BOOK NAME	AUTHOR	PUBLISHER	YEAR OF PUBLICAT ION
01	Research	C.R. Kothari	New Age	2004
	methodology		International	
			Publishers	
02	Research	P. Saravanavel	Kitab Mahal	2015
	methodology		<u>Distributors</u>	
03	How to write and	Robert A. Day	Cambridge	2012
	publish a scientific	and Barbara	University Press	
	paper.	Gastel		
04	Thesis and	<u>Jonathan</u>	John Wiley & Sons	1998
	Assignment Writing -	Anderson, Millic	Inc	
	3rd Edition	ent Poole		

## WEB REFERENCE:

https://www.bookdepository.com

https://www.researchgate.net

https://www.scribd.com

 $https://bbamantra.com \cdot research\text{-}methodology$ 

# **SYLLABUS DESIGNER:**

- 1. Dr.J.Hemapriya, Assistant Professor
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