

Semester – III

Course Title	Research Methodology
Total Hrs.	75
Hrs./Week	5
Sub.Code	21PCMA33
Course Type	DSC-XI
Credits	4
Marks	100

General Objective:

To expand the learner's knowledge in basic method of research and build his credibility for good foundations.

Course Objectives :

CO No.	The learners will be able to
CO 1	Understand the process of research and its significance.
CO 2	Realize the important concepts relating to research design.
CO 3	Compare the different phases of teaching methods.
CO 4	Formulate the ways for effective presentation by using ICT tools.
CO 5	Discuss the importance of cognitive and physical development.

Unit – I

General introduction to research methodology: Meaning and objective of scientific research – Motivation of Research -Types and significance of research, Methods of scientific research, Research process and criteria for good research, Stages of research.

Unit – II

Defining the Research Problem:Selecting the problem – Necessity of Defining the Problem – Technique Involved in Defining a Problem – An Illustration. Research Design: Meaning of Research Design – Need for Research Design – Features of Good Design – Important Concepts Relating to Research Design – Basic Principles of Experimental Designs.

Unit – III

Objectives of Teaching - Phases of Teaching - Methodology of Teaching: Lecture method – Discussion method – Inquiry method – Discovery method - Problem Solving method, Project method of teaching, Seminar method.

Unit IV

Integrating ICT in Teaching: Instruction system - Individual instruction - Ways for Effective presentation with power point –Evaluation – Need, Importance and Characteristics: Principles of evaluation – Approaches to evaluation -Continuous and Comprehensive Evaluation.

Unit V

Later Adolescent Psychology: Physical development during adolescence – Cognitive development during adolescence – Emotional development during adolescence – Social development. Teaching Late Adolescents: Characteristics of late adolescents – Problems of adolescents – Teaching Strategies for late adolescents – Important tips for teaching late adolescents.

Textbooks:

1. C.R. Kothari, Research Methodology – Methods and Techniques, Second revised Edition, New Age International Publishers, 2004.
2. Study material for the course of Research and Teaching Methodology.(Reference from R.B 1, 2, 3)

Unit I: TB 1- Chapter 1 Full

Unit II: TB 1- Chapter 2 & 3

Unit III: TB 2 –Chapter 5 (5.1 – 5.3)

Unit IV: TB 2 - Chapter 5 (5.4 ,5.5)

Unit V: TB 2 - Chapter 5 (5.6 ,5.7 (5.7.1 – 5.7.4))

Reference Books:

1. Sampath K., Pannerselvam A & Santhanam S (1984), Introduction to Educational Technology, New Delhi: Sterling Publishers.
2. Sharma S R (2003), Effective classroom teaching modern methods, tools & techniques. Jaipur: Mangal Deep.
3. Vedanayam, E.G. (1989) Teaching Technology for College Teachers New York: Sterling Publishers.
4. G. M. - Teaching Methodology, Independently Published, 2018.
5. J. C. Aggarwal – Principles, Methods & Techniques of Teaching, Vikas Publishing House, 2nd Revised Edition.

Course Outcomes

CO No.	Upon completion of the course, the students will be able to	PSOs Addressed	Cognitive Level
CO 1	Understand the components of research articles.	3,5	Understanding
CO 2	Choose between the physical and cognitive development during adolescence.	3,4,5	Applying
CO 3	Analyse the different method of teaching to perform the effective way.	3,5	Analyzing
CO 4	Evaluate the teaching and learning process.	2,3,5	Evaluating
CO5	Elaborate upon the research articles.	1,3,5	Creating

Relationship Matrix

Semester	Course Code	Title of the Course					Hours	Credits			
III	21PCMA33	Research Methodology					75	4			
Course Outcomes (COs)	Programme Learning Outcomes (PLOs)					Programme Specific Outcomes (PSOs)					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PSO1	PSO 2	PSO 3	PSO 4	PSO 5	
CO-1	✓	✓	✓	✓	✓			✓		✓	
CO-2	✓	✓	✓	✓	✓			✓	✓	✓	
CO-3	✓	✓	✓	✓	✓			✓		✓	
CO-4	✓	✓	✓	✓	✓		✓	✓		✓	
CO-5	✓	✓	✓	✓	✓	✓		✓		✓	
Number of matches (✓) = 38 Relationship = High											