

| Course Code | Course Title | Credits | Lectures /Week |
|--|---|----------------|----------------|
| USCS4071 | Research Methodology | 2 | 3 |
| About the Course: The course aims to understand the basics research, how research problems are defined, research methods are adopted and/or developed, research is undertaken, and how research results are communicated to the peers. | | | |
| Course Objectives: <ul style="list-style-type: none"> The research methodology course is proposed to assist students in planning and carrying out research projects. The students are exposed to the principles, procedures and techniques of implementing research project. The course starts with an introduction to research and carries through the various methodologies involved. It continues with finding out the literature using technology, basic statistics required for research and finally report writing. | | | |
| Learning Outcomes: After successful completion of this course, students would be able to <ul style="list-style-type: none"> Define research, formulate problem and describe the research process and research methods. Understand and apply basic research methods including research design, data analysis and interpretation. Understand ethical issues in research, write research report, research paper and publish the paper. | | | |
| Unit | Topics | No of Lectures | |
| I | Introduction to Research Methodology: Meaning of Research, Objectives of Research, Motivations in Research, types of Research, Research Approaches, Significance of Research, Research Methods v/s Methodology, Research and Scientific Methods, Research Process, Criteria of Good Research. Defining the Research Problem: Concept and need, Identification of Research problem, defining and delimiting Research problem. Formulating a Research Problem: Reviewing Literature, formulating a Research Problem, Research Question, Identifying Variables, Constructing Hypothesis The Research Design: Meaning, Need for Research Design, Important Concepts, Different Research Designs, Basic Principles of Experimental Designs. | 15 | |
| II | Tools for Data Collection: Collections of Primary Data, Collection of Data through questionnaire and Schedules, other Observation Interview Methods, | 15 | |