



ଓଡ଼ିଶା ରାଜ୍ୟ ମୁକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସମ୍ବଲପୁର, ଓଡ଼ିଶା
Odisha State Open University, Sambalpur, Odisha
Established by an Act of Government of Odisha.

Certificate in Research Methodology (CRSM)

Programme Name	: Certificate in Research Methodology
Programme Code	: CRSM
Eligibility	: +3 Pass
Minimum Duration	: 6 Months
Maximum Duration	: 2 Years
Programme Fee	: ₹ 2900/-
Medium of Study	: English

Programme Details:

The aim of this course is to impart research skills to the beginners and help to improve the quality of research by the existing researchers. It also encompasses the understanding and application of appropriate research design, statistics, and the use of the computer for data analyses, report writing and presentation. The course also introduces the key conceptual issues of each research method, as well as giving practical guidance. It covers the series of research methodology contents: from problem formulation, to design, to data collection, analysis, reporting and dissemination. The course has the dual aims of equipping students with conceptual understandings of current academic debates regarding different methods, and the practical skills to put those methods into practice.

Learning Objectives:

This certificate course will provide students with:

- A concrete understanding of the methods of doing research, data collection and analysis, report writing
- An understanding to identify the research gaps by reviewing the existing literatures on the concerned topic and state the research questions
- Identifying the difference between qualitative and quantitative data collection methods and analysis strategies

Duration of the Course – Minimum: 6 months, Maximum: 2 years.

Conduct of Classes – Weekend for 4 hours (preferably on Sundays)

Total Counselling Sessions – 16hrs, Study Hours – 480 hours.

Evaluation – Based on Assignments, Project Work and Term end Examinations

Target Group: Students pursuing Post-Graduation courses in any discipline and research scholars and other teaching professionals can join to enhance knowledge on research methods and methodology

Eligibility Criteria:

Minimum Qualification - +3 pass

Pedagogy: The Course shall be taught with Self Learning Materials, e-learning materials, OERs, Project Assignments.

Course Structure:

CRSM 01 Foundations of Research

CRSM 02 Qualitative and Quantitative Research

CRSM 03 Use of ICTs in Research

CRSM 04 Project Work.



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**SYLLABUS OF
CERTIFICATE IN RESEARCH
METHODOLOGY (CRSM)
For Academic Session 2021-22**

Duration: 6 Months

Total Credits:16

Semester-I		
Course Code	Course Title	Credits
CRSM- 01	Foundations of Research	4
CRSM- 02	Qualitative and Quantitative Research	4
CRSM - 03	Use of ICTs in Research	4
CRSM - 04	Project Work	4

CRSM - 01	Foundations of Research	4 Credits
Block-1	Introduction to Research	
	Unit-1: Meaning, Objectives, Motivation, Utility of Research	
	Unit-2: Types and Methods of Research	
	Unit-3: Scientific Method and Its Characteristics	
	Unit-4: Theory Building and Understanding the Language of Research (Concept, Construct, Definition, Variable)	
Block-2	Unit-5: Research Ethics and Empiricism	
	Problem Identification and Formulation in Research	
	Unit-1: Social Research Process	
	Unit-2: Literature Review Process and Formulation of Research Questions	
Block-3	Unit-3: Hypothesis- Characteristics and Types	
	Unit-4: Hypothesis Testing –Logic and Importance	
Block-3	Research Design	

	Unit-1: Concept and Importance of Research Design	
	Unit-2: Types and Uses of Research Design	
CRSM - 02	Qualitative and Quantitative Research	4 Credits
Block-1	Data, Measurements and Scaling Techniques	
	Unit-1: Types of Data: Qualitative and Quantitative data and its Approaches	
	Unit-2: Levels and Techniques of Measurement and Sociometry	
	Unit-3: Validity, Reliability and Triangulation Method	
	Unit-4: Scaling Techniques: Comparative (Rank Order, Paired Comparison and q-sort) and Non-comparative (Likert Scale, Thurston Scale, Semantic Differential Scale)	
Block-2	Sampling Techniques	
	Unit-1: Introduction to Sampling: Concepts of Population, Sample, Sampling Frame, Sampling Error, Sample Size, Characteristics of a good sample.	
	Unit-2: Types of Sampling-Probability and Non-Probability	
	Unit-3: Determining size of the sample– Practical considerations in sampling and sample size.	
Block-3	Tools and Techniques of Data collection and Field Work Practices	
	Unit-1: Sources of Data Collection: Primary and Secondary	
	Unit-2: Interview Schedule and Questionnaire	
	Unit-3: Interview Method- Types; Selecting Respondents; Rapport; the Interview Guide; the Interview situation; recording	
	Unit-4: Focused Group Discussions (FGDs), The Case Study Method, Oral Histories, Life Histories, PRA and RRA Techniques	
	Unit-5: Participant Observation and Ways of Interviewing	
	Unit-6: Ethnographic Field Research	
Block-4	Qualitative Data Analysis	
	Unit-1: Qualitative Data Formatting and Processing	
	Unit-2: Content Analysis, Narrative Analysis and Discourse Analysis	
	Unit-3: Grounded Theory Methodology and Interpretative Analysis	
Block-5	Quantitative Data Analysis	
	Unit-1: Descriptive Statistics-	
	Unit-2: Measures of Central Tendency	
	Unit-3: Measures of Dispersion and Variability	
	Unit-4: Characteristics of Association, Correlation and Regression	
	Unit-5: Statistical Inference: Testing of Hypothesis	
CRSM- 03	Use of ICTs in Research	4 Credits
Block- 1	Use of Computer Applications in Research	
	Unit-1: Understanding and Using the Library and the Internet for Research	
	Unit-2: Computer for Data Processing	
Block-2	SPSS and Data Analysis	
	Unit-1: Use of SPSS for Data Analysis and Interpretation	
	Unit-2: Tabulation and Graphical Representation of Data	

	Unit-3: Using SPSS in Report Writing	
Block-3	Citation, References and Bibliography	
	Unit-1: Formats and Styles (APA, Chicago, MLA, ASA)	
	Unit-2: Software for Reference Management and Detection of Plagiarism	
	Unit-3: Quoting, Paraphrasing, and Avoiding Plagiarism	
CRSM - 04	Project Work	4 Credits
Block-1	Unit-1: How to write a research proposal or report	
	Unit-2: Alternative Ways to Present Research	
Block-2	*Project Report/Case Study	

* 04 Credits will be awarded for the Project.