

## Certificate in Research Methodology

Programme Name: Certificate in Research Methodology

Course Code: RM

Duration: 6 Months

### Programme Details:

B.H.B. College has been providing six months certificate course in Research Methodology the students from 2017 onwards. It is a certificate course where the emphasis is solely put on to teach the students the basic concepts and methods of social science research.

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.
- To learn and understand the research publication ethics and tools like SPSS, LaTeX.

**Eligibility:** The learners who wish to enroll in the course should be class 10+2.

**What the learners will learn?**

- The learners will learn different opinions and new ideas.
- It also builds logical and analytical skills. The research process rewards curiosity.
- The course will inculcate a scientific and objective way to see the societal problems.

**Course Outcome:**

- Demonstrate the ability to choose methods appropriate to research aims and objectives.
- Understand the limitations of particular research methods.
- Developed skills in qualitative and quantitative data analysis and presentation.
- Developed advanced critical thinking skills.

**Course Advantages:**

- The Certificate Course will enable students to gain employability where research methodology skill is a necessity.
- Research teaches better discernment.
- The course would enable the learners to expand knowledge, qualities, develops interpersonal skills for collect data from individual and society.
- The learners would be able to builds credibility.
- The learners would be able to update the latest information.
- The candidates would be provided with ample career options.

**Admission Process:**

- The candidates who are willing to apply should have passed class 10+2 from a recognized board.
- The candidates should check the eligibility criteria and course details from the college website or they can contact the course instructors.
- The candidates should produce the documents necessary for procurement of admission.

- The students shall have to pay the amount for admission and certificate after completion of the course.
- **How to Procure the Certificate:**

The learners shall have to take an examination after the completion of the course. To successfully complete the course and receive a certificate, the learners shall have to secure a minimum of 55%. The examination mode and syllabus will be designed by the instructors of the course. The students who successfully passed the examination shall receive a certificate.

**Total Students Enrolled and Successfully Completed the Course:**

Year	Total Students' Enrolled	Total Successful Completion of Course
2017	Nil	Nil
2018	05	05
2019	08	08
2020	Nil(due to Covid 19 Pandemic)	Nil(due to Covid 19 Pandemic)
2021	NIL (due to Covid 19 Pandemic)	NIL (due to Covid 19 Pandemic)
2022	18	18

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

**Course Structure:**

RM 01 Foundations of Research

RM 02 Qualitative and Quantitative Research

RM 03 Use of ICTs in Research

RM 04 Project Work

SYLLABUS OF  
**CERTIFICATE IN RESEARCH METHODOLOGY**

**B.H.B. College, Sarupeta.**

**Programme Name : Certificate in Research Methodology.**

**Course Code : RM**

**Duration: 6 Months(August to January)**

**Total Credits:16**

<b>Semester-I</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
RM - 01	Foundations of Research	4
RM - 02	Qualitative and Quantitative Research	4
RM - 03	Use of ICTs in Research	4
RM - 04	Project Work	4

<b>RM - 01</b>	<b>Foundations of Research</b>	<b>4 Credits</b>
<b>Block-1</b>	<b>Introduction to Research</b>	
	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)	
<b>Block-2</b>	Unit-5: Research Ethics and Empiricism	
	<b>Problem Identification and Formulation in Research</b>	
	Unit-1: Social Research Process	
	Unit-2: Literature Review Process and Formulation of Research Questions	
	Unit-3: Hypothesis- Characteristics and Types	
<b>Block-3</b>	Unit-4: Hypothesis Testing –Logic and Importance	
	<b>Research Design</b>	
	Unit-1: Concept and Importance of Research Design	
<b>RM - 02</b>	Unit-2: Types and Uses of Research Design	
	<b>Qualitative and Quantitative Research</b>	<b>4 Credits</b>
<b>Block-1</b>	<b>Data, Measurements and Scaling Techniques</b>	
	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)	
<b>Block-2</b>	<b>Sampling Techniques</b>	
	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.	
<b>Block-3</b>	<b>Tools and Techniques of Data collection and Field Work Practices</b> 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	
<b>Block-4</b>	<b>Qualitative Data Analysis</b> Unit-1: Qualitative Data Formatting and Processing Unit-2: Content Analysis, Narrative Analysis and Discourse Analysis Unit-3: Grounded Theory Methodology and Interpretative Analysis	
<b>Block-5</b>	<b>Quantitative Data Analysis</b> 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	
<b>RM- 03</b>	<b>Use of ICTs in Research</b>	<b>4 Credits</b>
<b>Block- 1</b>	<b>Use of Computer Applications in Research</b> Unit-1: Understanding and Using the Library and the Internet for Research Unit-2: Computer for Data Processing	
<b>Block-2</b>	<b>SPSS and Data Analysis</b> Unit-1: Use of SPSS for Data Analysis and Interpretation Unit-2: Tabulation and Graphical Representation of Data <b>Unit-3: Using SPSS in Report Writing</b> <b>Citation, References and Bibliography</b> <b>Unit-1: Formats and Styles (APA, Chicago, MLA, ASA)</b> <b>Unit-2: Software for Reference Management and Detection of Plagiarism</b> <b>Unit-3: Quoting, Paraphrasing, and Avoiding Plagiarism</b>	
<b>RM- 04</b>	<b>Project Work</b>	<b>4 Credits</b>
<b>Block-1</b>	Unit-1: How to write a research proposal or report Unit-2: Alternative Ways to Present Research	
<b>Block-2</b>	<b>*Project Report/Case Study</b>	
* 04 Credits will be awarded for the Project		