

Ph.D. COURSE WORK SYLLABUS

2017-18



M S Brij University, Bharatpur
(Pre Ph.D. Course Work Syllabus)

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Pa. 2017

**MAHARAJA SURAJMAL BRIJ UNIVERSITY,
BHARATPUR
RAJASTHAN GOVERNMENT UNIVERSITY
Bharatpur – 321001**

OBJECTIVE TO THE COURSE

In view of taking advance steps in the field of research, Maharaja SurajPmal Brij University has moved ahead with the aim to facilitate students of research to acquire specialized knowledge in their respective fields and subjects. The rationale behind the Pre-Ph.D. course work is to acquaint the students with the research methods and techniques and to make them aware with various basic and advance computer applications that are compulsory in completion of research as well. The priority of the university is to provide genuine opportunities to the students to do qualitative researches to help them modify into 'Scholars'. The university will ensure that the scholars contribute towards the development of the society through their remarkable work.

As per the university ordinance, the research scholars who are provisionally registered for the Ph.D. Programme will undergo a Pre-Ph.D. Course work. The following guidelines need to be followed for successful completion of the course work:

Programme Structure

The Pre- Ph.D. course work shall take the duration of one semester (i.e. six months) in which there shall be 2 compulsory papers naming Paper – I (Research Methodology & Computer Applications) and Paper – II (Subject).

Semester	Name of Paper	Theory	Practical	Internal Assessment (Assignments, & Attendance)	Max Marks
Semester – I	Paper – I (a) Research Methodology	40	-	10	50
	Paper – I (b) Computer Fundamentals	20	20	10	50
	Paper – II Subject	80	-	20	100

- a. Each paper will be of hours instructions/ studies per week.

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- b. The research scholars shall be evaluated at the end of the coursework through examination. Total Marks for the examination are 200 (Paper I – 50 + 50 = 100 marks, Paper II –100 marks). Passing marks are 50% in each paper. If a student is not able to pass a course with 50% marks, student shall be allowed to reappear only once in the subsequent academic year (as per the ordinance).
- c. The research scholars will be allotted research supervisors during the coursework. Scholars will have to finalize their research topics in guidance of their respective guides within this period of time. The research scholars will have to provide his/her topic to OIC PhD after getting approval from their supervisors.
- d. Paper II will be prepared
- e. In paper II student will be required to review the published research work in the relevant field under the supervision of assigned supervisor.
- f. The research proposals will be presented in the DRC meeting within the stipulated period as prescribed in the ordinance.

Paper – I (a): Research Methodology

Unit I: Concept of Research, Types and Methods of Research, Research Problem:

- (i) Concept of Research: Meaning, definition, Importance, limitations of research.
- (ii) Types and Methods of Research: fundamentals and applied research, descriptive research, diagnostic research, evaluation research, action research, experimental research, historical research **including-** Survey method, case study method, analytical study of statistical method, interdisciplinary method, historical method, laboratory method, scientific method.
- (iii) Selection of the problem, Statement of the problem, Objectives of research problem, Hypothesis, Research proposal or synopsis.

Unit II: Review of the Study, Sampling, Statistical Techniques:

- (i) Review of the Related Literature: purpose of the review, Identification of related literature, organizing the related literature.
- (ii) Sampling: Concept, Meaning and methods of sampling.
- (iii) Statistical Techniques: Graphical representation, Measures of central tendencies, Measures of variability, Normal probability curve, Correlation, T-test, Sorting and tabulating data, Tables and figures.

Unit III: Tools for Research, Data Collection and Data Analysis:

- (i) Tools for research: Questionnaire, interview, observation, psychological test and inventories, characterization of good test.
- (ii) Data Collection and data Analysis: objectives and classification of data, Types of data, Administration of questions and test, Tabulation of data, interpretation and presentation of data.

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Handwritten signatures and initials:
 A horizontal line with a checkmark-like mark below it.
 A signature that appears to be "T.G." followed by another signature.

Unit IV: Research Report Writing:

General Format of research report, Style and format of report, typing of research report, front note, bibliography, heading, pagination, table and figures, proof reading of the final draft of the research report.

Paper – I (b): Computer Fundamental

Unit I: Basic Knowledge of Computer:

Definition of computer, block diagram of computers, classification of computers, Number Systems and binary algebra role of computer in education and research, component of computer hardware - CPU, Monitor, Keyboard, mouse, etc., Software – meaning of OS (operation system), OS in modern trends, functions of an OS.

Unit II: Computer Application for Research

- Word processing: Word Introduction of word processor, creating & saving documents, saving word files in a valid path folder, header and footer, foot notes,
- Data processing: Introduction to excel, need of spreadsheet, editing worksheet, using links, applying different views, types of functions
- Graphical processing, making charts of data, inserting pictures and objects in the excel sheet and word file.
- Power Point – introduction of slides, speaker notes, media clips, graphs, pictures, web pages, hyperlink, adding different kind slides, working with Power Point, inserting text objects, formatting text.
- Use of web tools for research
- Use of graphical software
- Use of multimedia tools
- Internet – introduction, evaluating internet resources: authority, accuracy and objectivity. Brief note on e-books and virtual library, UGC info net, what is Plagiarism and how to avoid it?

PAPER II: Research Training in Subject

Objective: To inculcate an in-depth knowledge in the respective area of research so that the scholar would gain the requisite insight for finalization of the research proposal.

Study of text, Review of Literature, Field work, writing an Article, mapping, detailed Bibliography, references

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- Students will be required to review the published research work in the relevant field under the supervision of assigned supervisor.

Suggested Readings :

- Bagchi, Kanak Kanti (2007) Research Methodology in social Sciences : A Practical Guide, Delhi, Abijeet Publications.
- Sharma, B.A.V., etal., (2000) Research Method in Social Sciences, New Delhi, Sterling Publishers.
- B.A.V. Busha, C.H and Harter, S.D. (1980) Research method in Librarianship, New York, Academic Press.
- Cooper, R. Donald and Pamela S. Schindler (2003) Business research Methods, Delhi, Tata McGraw-Hill.
- Flyvbjerg, Bent (2001) Making social Science Matter : Why social Inquiry Fails and How it can Succeed Again, United Kingdom, Cambridge University Press.
- Ghosh, B.N. (1999) Scientific Method and social Research, New Delhi.
- Gilbert, Nigel (1993) Researching Social life, New Delhi, Sage Publication.
- Goodde and Hatte (1952) Methods in Social Research, New York, McGraw- Hill.
- Gopal, M.H. (1970) An Introduction to Research Procedures in Social Sciences, Bombay, Asia Publishing House.
- Henn, Matt; Mark Weinstein and Nick Foard (2006) A Short Introduction to Social Research, New Delhi, Vistaar Publications.
- Kothari, C.R. (2004) Research Methodology: An Introduction, Delhi, New Age.
- Kumar, Shekaran (2009) Research Methodology for Business : A Skill Based Approach, New York, John Wiley Publishers.
- Rajaram V. (1996), Fundamentals of computers, Prentice Hall of India, New Delhi.
- Sanders D.H. (1981), Computer Today, McGraw Hill, New York.
- Sinha P.K. (1992), computer Fundamentals, BPB Publication, New Delhi.

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