



MAULANA AZAD UNIVERSITY, JODHPUR
Established Under Rajasthan State Legislative Act No. 35 of 2013
Ph.D. Course Work Syllabus 2016-17

Paper Name: Research Methodology -I Paper Code:

Unit-I Introduction:

Meaning, Concept, nature steps types and characteristics of research. Scientific Inquiry, Philosophical and Sociological foundations of research. Interdisciplinary approach and its implications in various research areas.

Unit-II Methods of Research:

Qualitative and quantitative methods of research like Historical, case study, ethnography, documentary and content analysis, survey (Normative, descriptive, evaluative etc.) field and laboratory experimental studies. Characteristics of methods and their implications in research area.

Unit-III Development of research proposal:

Research proposal and its elements, Formulation of research problem-criteria of sources and definition, Development of objectives and characteristics of objectives. Development hypotheses and applications.

Unit-IV Methods of data collection:

Concept of sampling and other concepts related to sampling. Probability and non-probability samples, their characteristics and implications. Tools of data collections, their types, attributes and uses. Redesigning, research tools-like questionnaire, observation, interviews, scales and tests etc.

Unit-V Methods of data analysis:

Analysis of qualitative data based on various tools. Analysis of quantitative data and its presentation with tables, graphs etc. Statistical tools and techniques of data analysis-measures of central tendency, dispersion. Decision making with hypothesis testing through parametric and non-parametric tests. Validity and delimitations of research findings.

Unit-VI Report writing and evaluations:

Principles of report writing and guide lines according to style manuals. Writing and presentation of preliminary, main body and reference section of report. Evaluation of research report.



MAULANA AZAD UNIVERSITY, JODHPUR
Established Under Rajasthan State Legislative Act No. 35 of 2013
Ph.D. Course Work Syllabus 2016-17

References:

1. Bajpai S. R. (1975) Methods of Social Survey and Research, Kitab-ghar, Kanpur.
2. Hans Raj (1988) Theory and Practice in Social Research, Surjeet Publication, Kolhapur.
3. Krishnaswami O. R. (1988) Methodology of Research in Social Science, Himalaya Pub. House.
4. Sadhu, Singh, Research Methodology in Social Science
5. Bhandarkar, Research Methodology
6. Kothari, C. R. (2005) Quantitative Technique, New Delhi, Vikas Publication House.
7. Gautam, N. C. (2004) Development of Research tools, New Delhi, Shree Publishers.
8. Gupta, Santosh (2005) Research Methodology and Statistical Techniques, Deep and Deep Publications.
9. Chandra A. and Sexena T. P. (2000) Style Manual, New Delhi, Metropolitan Book Comp. Ltd.
10. Shukla, J. J. (1999) Theories of Knowledge, Ahmadabad, Karnavati Publication.
11. Bhattacharya, D. K. (2004) Research Methodology, New Delhi, Excel Books.
12. Brymann, Alan and Carmer, D. (1995) Qualitative data analysis for social scientist, New York, Routledge Publication.

Paper Name: Computer Applications –II (A) Paper Code:

Unit 1: Basics of Computer

Characteristics of Computers, Evolution of computers, computer generations, Basic computer organization; System software application software, introduction to operating system, MS-windows, application software, introduction to operating system, MS-windows, application software, introduction to operating system, MS-windows, Linux.

Unit 2: Using Internet for research

The Internet: quick look, what is internet, major internet services, working of internet, electronic mail, www, downloading super tools for better computing Internet and the society, searching the keyword search engines, interaction, News and multimedia, governments, archives and statistics.



MAULANA AZAD UNIVERSITY, JODHPUR
Established Under Rajasthan State Legislative Act No. 35 of 2013
Ph.D. Course Work Syllabus 2016-17

Unit 3: Introduction to research related software's

Data analysis software-SPSS, Core calculation software, Developing utility programs for research, Introduction to C programming.

Unit 4: Research related tools and utilities

Research publishing tool-MS Word, Adobe acrobat, Graphics tool-MS Excel, Presentation tool-MS Powerpoint, Subject/field specific tools on www-freeware.

References:

1. Computer fundamentals, Pradip K. Singha and PritiSingha(BPB Publication)
2. The Internet: A user's guide, K. L. James(PHI publication)
3. Internet Research skill(SAGE publication)Niall O Dochartaigh
4. Microsoft office system, 2003 edition(PHI publication)
5. Programming in ANSI C(Tata McGraw Hill Publication).



MAULANA AZAD UNIVERSITY, JODHPUR
Established Under Rajasthan State Legislative Act No. 35 of 2013
Ph.D. Course Work Syllabus 2016-17

Course Work Schedule:

- I. Course Work Classes – Duration 90 Hours : 6 credits (C1)
- II. Course Work Examination : 2 credits (C2)
- III. Two courses with Research Supervisors (One of contemporary issues on subject/
topic on research and one on Review of literature relevant to the topic of
research undertaken by the student) : 4 credits (C3)
- IV. Participation in Conference/ Seminar (Not necessary to present paper) :2 credits (C4)
- V. Seminar Presentation : 2 credits (C5)

Course Work Classes : A student attending course work class shall be provided following grade score out of the maximum 10 Grade Point Scale **(G1)**:

Attendance	Grade Point (G1)
90% - 100%	:10
80% - 89%	:8
70% - 79%	:6
60% - 69%	:4
50% - 59%	:2
Less than 50%	:0