

## 2-Week Capacity Building Programme on Research Methodology for Young Faculty in Social Sciences

Organized by Centre for Research, Innovation and Training  
The IIS university, Jaipur, Sponsored by ICSSR

21 May 2015- 3 June 2015

### Schedule

	<b>Day 1 (21 May, 2015)</b>
9.30-11.00	<b>Introductory Session</b>
11.30-1.00	<b>Research Methodology: Conceptual Framework</b> <ul style="list-style-type: none"> <li>Idea of research;</li> <li>Basic tenets of qualitative research and quantitative research.</li> </ul>
2.00-3.30	<b>Research Design</b> <ul style="list-style-type: none"> <li>Selecting topics for research; factors affecting the problem selection;</li> <li>Pure versus applied research;</li> <li>Literature review;</li> <li>Bibliography</li> <li>References</li> </ul>
4.00-5.30	<b>Research Design</b> <ul style="list-style-type: none"> <li>Units of analysis;</li> <li>Concept, variable(s), hypothesis(es) Formulation, paradigm;</li> <li>Stages of research;</li> <li>Types of research design with suitable examples</li> </ul>
	<b>Day 2 (22 May, 2015)</b>
9.30-11.00	<b>Scales: Measurement of Scales</b>
11.30-1.00	<b>Universe, Nature and Types of Sampling:</b> <ul style="list-style-type: none"> <li>Probability Sampling</li> <li>Simple Random Sampling</li> <li>Proportionate &amp; Disproportionate and others</li> </ul>
2.00-3.30	<b>Non Probability Sampling:</b> <ul style="list-style-type: none"> <li>Accidental sampling,</li> <li>Quota sampling and others</li> </ul>
4.00-5.30	<b>Field Research</b> <ul style="list-style-type: none"> <li>Concept and history of fieldwork;</li> <li>Stages of fieldwork – selecting a research setting, gaining access, presenting oneself, becoming invisible, gathering information;</li> <li>Field notes – types, coding and analysis;</li> <li>Ethnography.</li> </ul>
	<b>Day 3 (23 May, 2015)</b>

9.30-11.30	<b>Data Collection</b> <ul style="list-style-type: none"> <li>Data and data sources: secondary data sources, limitations of secondary data; Need for primary data, collection of primary data</li> </ul> <b>Observation</b> <ul style="list-style-type: none"> <li>Concept of observation, its advantages and disadvantages;</li> <li>Types of observation; field observation – participant and non-participant observation; collection of genealogies; structured and unstructured observation;</li> </ul>
11.30-1.00	<b>Interview</b> <ul style="list-style-type: none"> <li>Concept and types of interview – informal, unstructured, semi-structured and structured; intensive interviewing; telephone interview; interviewing children;</li> <li>The interviewer – tasks, selection, and training;</li> </ul> Advantages and limitations of interviewing; response effects and the question of accuracy. <b>Concept of Case Study</b> <ul style="list-style-type: none"> <li>Case Study Method</li> <li>Types of Case Study</li> </ul>
2.00 – 3.30	<b>Data Collection</b> <p>Survey Method</p> <ul style="list-style-type: none"> <li>Concept of survey;</li> <li>Construction of questionnaire &amp; Schedule; wording of questions; open and closed response categories; response category format, Mailed questionnaire; factors affecting mail surveys;</li> </ul>
4:00-5.30	<b>Sample Distributions</b> <ul style="list-style-type: none"> <li>Elementary probability theory and probability distributions and their usage,</li> <li>Large and small sample Tests based on Normal, Students' t and Snedgar's F distributions,</li> <li><math>\chi^2</math> test of goodness of fit and contingency tables test-statistic tables and its uses.</li> </ul>
	<b>Day 4 (24 May, 2015)</b>
9.30-11.00	<b>Qualitative research methods I</b> <ul style="list-style-type: none"> <li>Quantification in qualitative research.</li> <li>Gender considerations.</li> <li>Study of some samples of qualitative research. The issue of reactivity.</li> <li></li> </ul>
11.30-1.00	<b>Qualitative research methods II</b> <ul style="list-style-type: none"> <li>Writing up qualitative research.</li> </ul>

	<ul style="list-style-type: none"> <li>• Theoretical perspectives and ethnographic research.</li> </ul>
2.00-3.30	<b>Qualitative research methods III</b> <ul style="list-style-type: none"> <li>• Grounding theory: the historical context; later development of grounded theory; thick description; limitations and criticisms of grounded theory.</li> </ul>
4.00-5.30	<b>Qualitative research methods IV</b> <ul style="list-style-type: none"> <li>• Phenomenology</li> <li>• Philosophical Research</li> <li>• Critical Social Research</li> </ul>
	<b>Day 5 (25 May, 2015) (Quantitative Research)</b>
9.30-11.00	<b>Descriptive Statistics</b> <ul style="list-style-type: none"> <li>• Basic Statistics: importance of statistical inquiries and their limitations;</li> <li>• Collection and tabulation of statistical data--- graphical presentation, frequency distribution.</li> <li>• Measures of central tendency, measures of dispersion.</li> </ul>
11.30-1.00	<b>Analysis Data - I</b> <ul style="list-style-type: none"> <li>• Hypothesis Testing</li> <li>• Parametric &amp; Non Parametric Tests</li> </ul>
2.00-3.30	<b>Analysis of Data - II</b> <ul style="list-style-type: none"> <li>• Correlation</li> <li>• Regression</li> </ul>
4.00-5.30	<b>Analysis of Data - III</b> <ul style="list-style-type: none"> <li>• Autocorrelation, heteroscedasticity, multicollinearity--diagnosis, corrections.</li> </ul>
	<b>Day 6 (26 May, 2015)</b>
9.30-11.00	<b>Analysis of Data - IV</b> <ul style="list-style-type: none"> <li>• Dummy Variable Regression Analysis</li> <li>• Bi-variate and multivariate regression models</li> </ul>
11.30-1.00	<b>Analysis of Data - V</b> <ul style="list-style-type: none"> <li>• Limited dependent variable models: LPM, logit model and its applications</li> </ul>
2.00-3.30	<b>Analysis of Data - VI</b> <ul style="list-style-type: none"> <li>• Limited dependent variable models: Probit model and its applications.</li> </ul>
4.00-5.30	<b>Practice Session on SPSS</b>
	<b>Day 7 (27 May, 2015)</b>

9.30-11.00	<b>Analysis of Data – VII</b> Panel Data Analysis: pooled regression
11.30-1.00	<b>Analysis of Data – VIII</b> Panel Data Analysis: random effect and fixed effect models and their applications.
2.00-3.30	<b>Time Series Analysis:</b> <ul style="list-style-type: none"> <li>• Introduction to Time Series Analysis</li> <li>• Concept of Stationarity, Test of Stationarity</li> </ul>
4.00-5.30	<b>Time Series Analysis:</b> <ul style="list-style-type: none"> <li>• Lag Model</li> <li>• Forecasting</li> <li>• Accuracy of Forecasts</li> </ul>
	<b>Day 8 (28 May, 2015)</b>
9.30-11.00	<b>Structural Equation Modeling-I</b>
11.30-1.00	<b>Structural Equation Modeling -II</b>
2.00-3.30	<b>Structural Equation Modeling -III</b>
4.00-5.30	<b>Structural Equation Modeling –IV</b>
	<b>Day 9 (29 May, 2015)</b>
9.30-11.00	<b>Ethics and Politics of Research</b> <ul style="list-style-type: none"> <li>• Ethics and the researcher, ethics and the scientific community, ethics and the sponsors of research; ethical issues involving human subjects – harm, deception, informed consent, special populations and new inequalities;</li> <li>• Privacy, anonymity, and confidentiality, making ethical decisions.</li> <li>• The politics of research: limits on research, dissemination of research findings; The uses of research: science and society.</li> </ul>
11.30-1.00	<b>Academic Writing</b> <ul style="list-style-type: none"> <li>• Meaning and types of academic writing</li> <li>• Challenges in Academic Writing</li> <li>• Papers for Journals</li> <li>• Preparation of Reports</li> <li>• Writing Books (Difference from PhD thesis)</li> </ul>

2.00-3.30	Practice Session on SPSS
4.00-5.30	Practice Session on SPSS
	<b>Day 10 (30 May, 2015)</b>
9.30-11.00	<b>Ethics in Academic Writing</b> <ul style="list-style-type: none"> <li>• Meaning and Seriousness of Plagiarism</li> <li>• Different Types of Plagiarism</li> <li>• How to Prevent Plagiarism</li> <li>• Importance of adhering to rules for Referencing/Citation</li> </ul>
11.30-1.00	<b>Ethics in Academic Writing</b> <ul style="list-style-type: none"> <li>• Softwares for detection of plagiarism</li> <li>• Practice on Turnitin</li> </ul>
2.00-3.30	<b>Structure</b> <ul style="list-style-type: none"> <li>• Structure of Paper, Report and Book</li> <li>• Differences in structure of each kind of writing</li> </ul>
4.00-5.30	<b>Elements of writing</b> <ul style="list-style-type: none"> <li>• Introduction, Literature Review, Methods</li> <li>• Organising and Presenting an Argument</li> <li>• Discussion, Conclusions, Abstract (for papers)</li> <li>• Differences between papers, reports and books in above</li> <li>• Quantitative: Data presentation, analyses and discussion</li> <li>• Analysis of Data and results, discussion and conclusion.</li> </ul>
	<b>Day 11 (31 May, 2015)</b>
9.30-11.00	<b>Research Proposal</b> <ul style="list-style-type: none"> <li>• Writing a research proposal (difference from papers / books / reports)</li> <li>• Research Proposal: Main elements</li> </ul>

	<ul style="list-style-type: none"> <li>Identifying and Presentation of Issue(s)/Topic/Problem(s) to be studied.</li> </ul>
11.30-1.00	<b>Publication Process</b> <ul style="list-style-type: none"> <li>Journals – submission, review, revision</li> <li>Books – manuscript presentation, review, editing,</li> <li>Dealing with Rejection</li> <li>Importance of Revision (Review Reports, Response sheets)</li> <li>Papers/ Books: Criteria for selection</li> <li>Process: Acceptance to Publication (revision, editing, proofing, printing)</li> </ul>
2.00-3.30	<b>Research Quiz</b>
4.00-5.30	<b>Practice Session with SPSS</b>
	<b>Practice Session with SPSS</b>
9.30-11.00	<b>Paper Clinic</b>
11.30-1.00	
2.00-3.30	
4.00-5.30	
	<b>Day 13 (02 June, 2015)</b>
9.30-11.00	<b>Paper Clinic</b>
11.30-1.00	
2.00-3.30	
4.00-5.30	
	<b>Day 14 (03 June, 2015)</b>
9.30-11.00	<b>Evaluation by the Panel of Experts:</b> Submission of Draft Research Paper
11.30-1.00	<b>Evaluation by the Panel of Experts:</b> Submission of Draft Research Paper
2.00-3.30	<b>Evaluation by the Panel of Experts:</b> Submission of Draft Research Paper

4.00-5.30	Feed Back & Valediction
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