

Curriculum Plan for 2026-27 odd sem

Prof. Seema Gupta

IVth year DSE Research methodology

No. Of period: 1

TOPICS	No. OF LECTURES	MONTH WISE SCHEDULE	Tutorial/Assignment/presentation
Brief History of scientific methods and research. Role and Objectives of Research. Basic Tenet of Qualitative Research. Identifying a Research Problem. Philosophy and Meaning of Research. Identification and Definition of Research Problem. Sources of Prejudice and Bias in Research.	5	July - Aug	Assignment
Importance of Literature Survey, Open-Source (Free) Tools and paid sources for doing literature survey. Current Understanding of Ethics. Intellectual Honesty and Research Integrity. Communicating Errors in Research: Erratum, Correction, and Withdrawal. Records and Logs in Research. Maintaining Records of Samples, Raw Data, Experimental Protocols, Observation Logs, Analysis, Calculations, and Codes Scientific Publication Misconducts: Plagiarism – Concept, Importance, Methods,	4	September	Assignment

and Ways to Avoid Plagiarism			
Redundant Publications: Salami Slicing, Duplicate and Overlapping Publications, Selective Reporting and Misrepresentation of Data. Environmental and Other Clearances: Waste Management and Disposal of Hazardous Waste	4	October	Test
COPE (Committee on Publication Ethics)	3	November	Assignment