



**शिक्षाशास्त्र विभाग**  
**दीनदयाल उपाध्याय गोरखपुर विश्वविद्यालय, गोरखपुर – 273009**  
**Department of Education**  
**Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur - 273009**

**Syllabus For Research Entrance Test (Education)**  
**PART-A/I (Methodology of Educational Research)**

Content/Syllabus	
I	Introduction to Educational Research <ul style="list-style-type: none"><li>● Meaning and Definition</li><li>● Sources of Knowledge</li><li>● Functions of Educational Research</li><li>● Types of Research Fundamental, Applied and Action Research</li><li>● Quantitative and Qualitative Research</li></ul>
II	Research Problem <ul style="list-style-type: none"><li>● Meaning and Definition, Sources of Problem</li><li>● Criteria of Good Research Problem</li><li>● Identification of Research Problem and Formulation of Research Problem</li><li>● Delimitations of Problem</li></ul>
III	Review of Related Literature <ul style="list-style-type: none"><li>● Meaning of related literature and its review</li><li>● Purpose of review of related literature;<ul style="list-style-type: none"><li>(i) Formulation of research problem</li><li>(ii) Formulation of hypothesis</li><li>(iii) Discussion of results</li></ul></li><li>● Sources of related literature;<ul style="list-style-type: none"><li>(i) Traditional (ii) e-sources</li></ul></li><li>● Writing abstract, preparing reference cards, writing review</li></ul>
IV	Methods of Educational Research <ul style="list-style-type: none"><li>● Philosophical Method</li><li>● Historical Method</li><li>● Experimental Method</li><li>● Descriptive Method</li><li>● Qualitative Methods, Ethnographic Study</li><li>● Conversational and Discourse analysis, phenomenological and Qualitative Case study methods</li></ul>
V	Hypothesis <ul style="list-style-type: none"><li>● Concept and formulation of Hypothesis</li><li>● Source of Hypothesis</li><li>● Types of Hypothesis</li><li>● Directional and Non-Directional Hypothesis</li><li>● Parameter and Statistics</li><li>● Reliability of Statistics: Standard error of Mean, Median, Correlation, Proportion</li></ul>
VI	Sampling Methods <ul style="list-style-type: none"><li>● Population and sample</li><li>● Sampling size and sampling error</li><li>● Probability sampling: simple random, stratified, cluster, systematic, multi stage sampling</li><li>● Non probability sampling: Purposive, snowball, incidental</li></ul>
VII	Tools and Techniques of Data Collection <ul style="list-style-type: none"><li>● Types of tools of data collection</li><li>● Construction, Administration and precautions in use of<ul style="list-style-type: none"><li>(i) Questionnaires,</li><li>(ii) Rating Scales,</li><li>(iii) Interview,</li><li>(iv) Observation,</li><li>(v) Content Analysis frame,</li><li>(vi) Sociometry.</li></ul></li><li>● Characteristics of good measuring tools.</li><li>● Chapterization in reporting different type of Research.</li><li>● Coherence of review, objectives, hypotheses, and data collected</li><li>● Analysis and Results</li><li>● Formatting of Report</li></ul>
	Techniques of Data Analysis <ul style="list-style-type: none"><li>● Assumptions and applications of, Significance of Mean, Percentages and Correlation</li><li>● Significance of Difference Between two Means (t-test)</li></ul>



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VIII	<ul style="list-style-type: none"><li>● level of Significance</li><li>● Degree of Freedom</li><li>● One tailed and Two tailed tests</li><li>● Type-I and Type-II Error in Decision Making</li><li>● CR Test</li><li>● Analysis of Variance- One way and two way classification</li><li>● Concept, Quality use and Assumptions and applications of, Chi Square Test and Yate's Correction for Continuity.</li><li>● Medium Test</li><li>● Sign Test</li><li>● Regression and Prediction</li></ul>
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**PART-B/II: Education**

	<b>Content/Syllabus</b>
I	Philosophy of Education
II	Psychology of Education
III	Sociology of Education
IV	History of Education
V	Teacher Education