

**JYOTI NIVAS COLLEGE AUTONOMOUS  
SYLLABUS FOR 2019-2020 BATCH AND THEREAFTER**

**Programme: B.Voc VP.**

**Semester: VI**

**Paper 11: Research Methodology**

**Course Code : 18BVV604**

**Learning Objectives:**

1. To help the students understand the fundamentals of research methods in psychology.
2. To orient them to comprehend the foundation on sampling, methods of data collection and research design in psychology.
3. To support them to differentiate qualitative and quantitative approaches in research.
4. Train them to develop skills on designing research, collecting research data using various methods and develop skills on proposal writing.

**UNIT I: BASICS AND STEPS IN RESEARCH METHODS (17 hours)**

Scientific research: meaning and characteristics, limitations; Variables: operational definitions, independent and dependent variables, extraneous variables; Problem: definition, criteria of problem statements; Hypothesis: types - null hypothesis, directional and non-directional hypothesis, hypothesis testing - one tail and two tail testing; Steps involved in research process (Formulation of a problem, literature review, development of a hypothesis, research design, sampling design, research proposal, collecting data, data analysis, report writing/ thesis writing); Ethical issues: achieving valid results, maintaining professional integrity, protecting research participants, encouraging appropriate application; Problems encountered by researchers in India.

**UNIT II: RESEARCH DESIGN (17 hours)**

Meaning of research design; Criteria of research design; Basic principles of research design (replication, randomization and local control); Types of research designs: quantitative research design - descriptive, correlation, quasi experimental and experimental design, qualitative research design - grounded theory, ethnographic, narrative research, historical, case studies, phenomenological research.

**UNIT III: POPULATIONS AND SAMPLES IN RESEARCH (12 hours)**

Sampling fundamentals: universe, population, sample size, sampling frame; Sampling process and sampling error; Types of sampling: probability - simple, systematic,

stratified, cluster and quota sampling, non-probability - convenience, purposive, snowball, theoretical and opportunistic sampling.

#### **UNIT IV: METHODS OF DATA COLLECTION (13 hours)**

Methods of data collection: observation techniques - participant and non-participant observation, structured observation, controlled observation and naturalistic observation, questionnaires, projective tests, psychometric tests, surveys, interview methods - structured, semi-structured and unstructured interviews, life histories, narratives, documents, case studies, photographs, films, videos, opinion polls.

#### **UNIT V: DATA ANALYSIS AND REPORT WRITING (16 hours)**

Methods of data analysis: thematic analysis, content analysis, phenomenological analysis, narrative analysis, discourse analysis.

Report writing: meaning, purpose, need; General guidelines; Types of writing and organizing information; Use of SPSS for data analysis; Essentials of APA report writing: The APA format, report organization in APA format - title, abstract, introduction, literature review, method, results, discussion, conclusion and references, poster presentations.

**PRACTICAL:** A Mini survey project based on the experiments of earlier semesters on a sample of 20-30.

#### **REFERENCES:**

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3. McBurney, D. H. (2001). *Research methods*. London: Thomson Wadsworth.
4. Singh, A.K. (2017). *Tests, measurements and research methods in behavioral sciences*. 5<sup>th</sup> Edn. Patna: Bharati Bhawan Publishers.
5. Smith, J. A. (2007). *Qualitative psychology: A practical guide to research methods*. New Delhi: Sage Publications.
6. Silverman, D. (2006). *Interpreting qualitative data: Methods for analyzing talk, text and interaction*. New Delhi: Sage Publications.
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8. Gravetter, F.J., & Forzana, L.A.B. (2009). *Research methods for behavioral sciences*. United States: Wordsworth Cengage learning.
9. Bordens, K.S., & Abbott, B.B. (2006). *Research and design methods: A process approach* (6<sup>th</sup>ed.). New Delhi: Tata McGraw-Hill Company Limited.

10. Biber, S.N.H. & Leavy (2006). *The practice of qualitative research*. New Delhi: Sage publications.
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