



॥ वसुधैव कुटुम्बकम् ॥
SYMBIOSIS

Symbiosis College of Arts and Commerce

(An Autonomous College Affiliated to University of Pune)

Subject code	Semester	I	II	III	IV	V	VI	M.A.	I	II	III	IV
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Title of Subject (For MA as appeared in the prospectus) (For Part I as per BOS approval)	Research Methodology
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Objectives	To acquaint the students with: 1. The basic research concepts, 2. Steps in research process, 3. The basic terminology of advanced research techniques so that they can follow the research reports and papers in different branches of psychology, 4. Some commonly used research designs and the APA style of preparing research proposal and writing research report.
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Detailed syllabus

Unit	Contents of the syllabus
1	OVERVIEW OF RESEARCH PROCESS AND SURVEY RESEARCH [10] 1. Overview of basic research concepts (problem, hypothesis, variables and operational definitions), APA style of preparing research proposal' writing research report 2. Sampling techniques 3. Methods of data collection: Observation, mail surveys (questionnaires), personal interviews, telephone interviews, and internet surveys 4. Survey research designs- Cross-sectional, successive independent samples, longitudinal 5. Problems, issues, and applications of survey research
2	EXPERIMENTAL DESIGNS [10] 1. Experimental designs: Definition, principles and functions 2. Between-group designs: Randomised group designs 3. Between-group designs: Block designs- a) two group designs, b) randomized block designs with more than two groups 4. Factorial designs: Simple factorial designs, factorial designs with covariate, randomized block factorial designs 5. Conceptual distinction among between group designs, repeated measures designs, and mixed designs.
3	OTHER MULTIVARIATE DESIGNS AND QUALITATIVE RESEARCH [10] 1. Factor analysis: Basic terms, overview of extraction methods Overview of rotation methods, higher order factor analysis 2. Exploratory and Confirmatory factor analysis 3. Other multivariate techniques: Multiple regression, multivariate analysis of variance, discriminant functions analysis, canonical correlations, and path analysis and structural equation. 4. Introduction to qualitative research methods and Mixed methods 5. Analysis of Qualitative data
4	QUASI-EXPERIMENTAL DESIGNS AND SCALING [10] 1. Characteristics and types of quasi-experimental designs: Single-group designs, pre test-post test designs 2. Non-equivalent control group designs, discontinuity promotion designs, time series



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designs, cohort designs

3. Application of quasi-experimental designs in program evaluation research.

4. Scaling: Purpose, psychophysical scaling 17

5. Scaling: Psychological scaling: Thurstone-type scales (i.e. differential), and Likert-type scales (i.e. Summated)

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11. Hair, J.F., Anderson, R. E., Tatham, R.L., & Black, W.C. (2003). Multivariate data analysis (5th ed). ND: Pearson Education, Inc.
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15. Mason E.J. and Bramble W.J. (1989). Understanding and conducting research: Applications in education and behavioral sciences (2nd ed)
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17. Tabachnick B.G. and Fidell L.J. (2001). Using Multivariable statistics (4th ed)
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23. Borude, R.R. (2005). Sanshodhan Paddhatishastra. Pune: Pune Vidyarthi Gruha
24. Desai, B. and Abhyankar, S. C. (2008). Prayogik manasashastra and sanshodhan paddhati. Pune: Narendra Prakashan.
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