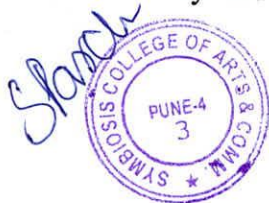


Symbiosis College of Arts and Commerce (An Autonomous College Affiliated to University of Pune)												
Subject code	Semester	I	II	III	IV	V	VI	M.A.	I	II	III	IV
Title of Subject	Research Methodology											
Objectives	1. To introduce the student with the concepts and methods of research. 2. To orient the student to make an informed choice from the large number of alternative methods and experimental designs available. 3. To enable the student to present a good research proposal. 4. To familiarize the student with the nature of research tools and writing skills To empower the student with the knowledge and skills they need to undertake research projects, to present a conference papers and to write quality articles											
Detailed syllabus												
Unit	Contents of the syllabus											Number of Hours
1	Introduction to research methodology 1.1 Objective and motivation of research 1.2 Hypothesis 1.3 Sampling design											08
2	Descriptive Statistics 2.1 Methods of data collection 2.2 Measures of central tendency , dispersion , skewness 2.3 Graphical presentation											08
3	Correlation and regression 3.1 Karl Perason's correlation, Rank correlation 3.2 Regression – linear, nonlinear 3.3 Multiple correlation and regression											10
4	Application and selection of Appropriate parametric test 4.1 Large sample tests 4.2 Small sample test 4.3 Chi square test 4.4 Application of ANOVA											16
5	Non parametric tests 5.1 Sign Test 5.2 Signed rank test 5.3 Wilcoxon rank sum test or Wilcoxon two sample test 5.4 Kruskal wallis test 5.5 Run test											08
6	Theory of Attributes 6.1 Attribute concept 6.2 Classification and frequency distribution 6.3 Consistency of the data upto 2 attributes 6.4 Independence and association of two attributes 6.5 Yule's coefficient of association (Q)											10

Suggested Readings/References (For research methodology)

- Wilkinson and Bhandarkar : Methodology and Techniques of Social Research- Pauline, Young – Scientific Social Surveys and Research.



- Goode and Halt – Methods in Social Surveys and Research.
- Sharma Prasad and Satyanatrayana (ed) Research Methods in Social Sciences.
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- Moser and Kolton – Survey Methods in Social Investigations.
- Gupta S.C. and V.K. Kapoor (1993) Fundamentals of Applied Statistics, S.Chand and Sons
- Sadhu and Singh – Research Methodology in Social Sciences.
- Kothari C. R., Research Methodology : Methods and Techniques (Second Revised Edition), New Age International Publishers.
- Thanulingom, N. (2000), “Research Methodology” Himalaya Publishing House
- Devendra Thakur – Research Methodology in Social Sciences.
- Basotia G.R. Sharma K.K. – Research Methodology.

Additional Readings:

- Acoff. Russel L.(1961) The Design of Social Research, Chicago, Uni. Of Chicago,
- Allen, T. Harrell (1978) New Methods in Social Science Research. New York; Praeges Publishes.
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- Ghosh B.N. (1982) Scientific Methods & Social Research New Delhi, Sterling Publishers Pvt. Ltd.
- Goode, William J. & Hatt, Paul K. (1952) Methods in Social Research, New York MacGrow Hill.
- Nachmias David & Nachmias Chava, (1981), Research Methods in the Social Sciences, New York, St.
- Lundberg, George A. : Social Research, Long mans, Green and Co., New Delhi

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1. Agarwal Y.P: Statistical Methods: Concepts, Applications and Computations, New Delhi: Sterling Publishers, 1988.
2. Blalock, Hubert M: Social Statistics, London: McGraw Hill, 1981.
3. Croxton Frederiel, Dudley J. Gowden and Sidny Klein: Applied General Statistics, New Delhi: Prentice Hall, 1975
4. Edward A.L: Statistical Methods for the Behavioural Sciences, New York: Rinchart & Co, 1954.
5. Edward W Frees (2004), Longitudinal and Panel Data: Analysis and Applications in Social Sciences, Cambridge University Press.
6. Garrett E: Statistical Methods for Research Worker, New York, Hafner Publishing & Co, 1950.
7. Grewal P.S: Methods of Statistical Analysis, New Delhi: Sterling Publishers, 1990.
8. Griffiths, D., W., Douglas and K. Laurence Weldon (1998): Understanding Data: Principles & Practice of Statistics, John Wiley and Sons
9. Gupta S.P: Statistical Methods, New Delhi, Chand & Co, 2005.
10. Gupta C.B: An Introduction to Statistical Methods, New Delhi, Vikas Publishers, 2005.
11. Gupta. S.C: Fundamentals of Statistics, Bombay, Himalaya Publishing House, 2000.
12. Mansfield, Edwin: Statistical for Business and Economics, New York : Norton and Co, 1980.
13. Philip Hans Franses (1998), Time Series Models for Business and Economic Forecasting, Cambridge University Press
14. Walker H.M & Lev J: Statistical Inference, New York: Holt, 1980.

