



MASTERS OF ARTS (ECONOMICS)
MA (Economics) Semester – II

Course Code	PA02EECO56	Title of the Course	Research Methodology and Computer Application in Economics – II
Total Credits of the Course	5	Hours per Week	5

Total 5 credits: (a) **Classroom Teaching -3 credits**
 (b) **Practical - 2 credits**

Course Objectives	<ul style="list-style-type: none"> • To make the students aware about the nature and sources of data. • To explain process of data analysis. • To make students able to use various computer tools software in research. • To make aware about the usage spreadsheet and SPSS in research.
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Course outline		
Unit	Unit Description	Weightage*
1.	Nature and Sources of Data- Primary and Secondary Data; Census and Sample Methods, Data for Research: Methods of Primary and Secondary Data Collection, Precautions to be Taken while Collecting Data, Limitations Data Processing: Editing, Coding, Classification and Types; Introduction to Series, Introduction to Basic Statics- Measures of Central Tendency, Dispersion, Correlation and Regression- Innovative Techniques	25%
2.	Hypothesis and Testing of Hypothesis: Concept of Hypothesis, Significance of Hypothesis, Types, Concept of Significance Level and Confidence Level, Use of Computer for Testing of Hypothesis	25%
3.	Advance Features of Spreadsheet- Macro and Advance Functions- Basic Commands, Graphs, Data entry etc. Formation and Presentation of Document	25%
4.	Statistical Analysis and Statistical Analysis with Spreadsheet: Mean, Median, Mode, Dispersion, Correlation, Regression, Introduction to SPSS, some Basis Commands and Data Entry Defining Variables, Basis Statistical analysis- Changing tools	25%

Teaching-Learning Environment	The course would be taught/learnt through various means like lectures, practical, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co-curricular and extra-curricular activities	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student should be able to :	
1.	Use the different kind available data for undertaking the research analysis.
2.	undertake data analysis.
3.	Use of various tools of computer in research.
4.	Use SPSS in data analysis.

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	Kothari C.R. (2009), "Research Methodology- Methods and Techniques", New Age International Publishers, New Delhi
2.	Joshi K. (1984), "Econometrics", Viral Prakashan, Ahmedabad
3.	Raiyani J. R. (2012), "Research Methodology- Theory and Techniques", New Century Publications, New Delhi
4.	Verma R. K. & Verma G. (1989), "Research Methodology", Commonwealth Publishers, New Delhi
5.	Gupta V. (2007), " Comdex Computer Course Kit" Comdex
6.	Rajaraman (2003), "Fundamentals of Computers", PHI Publication, New Delhi
7.	Gupta S C; Fundamental of Applied Statistics. S. Chand & Sons, New Delhi.
8.	Grewal P S; Numerical Methods of Statistical Analysis, S P Pvt. Ltd., New Delhi.
9.	Bose D.; An Introduction to Mathematical Economics, H P H. Bombay, Delhi.
10.	Gupta C.B.; An Introduction to Statistical Methods, Delhi.
11.	Patel R.K. & Patel L.B.; Business Statistic, C. Jamanadas Co. Ahmedabad.
12.	Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmedabad.
13.	Zala M.L.; Arthshastrama Ganitshastra, Purbiti Prakashan, Vallabh Vidyanagar.
14.	Dr. Jaiswal M.C.; Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmedabad.
15.	Douglas E. Commer (2000), "The Internet", PHI, Second Ed.