

M.Phil (Master of Philosophy)

| Compulsory Papers | Optional Papers (Any one) |
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| <ul style="list-style-type: none">• Research Methodology• Macroeconomics of Growth | <ul style="list-style-type: none">• Agriculture and Indian Economic Growth• Econometrics and Computer Applications |

PAPER-1 : Research Methodology

1. Objective of social research, structured and unstructured techniques, Theories : Meaning, deductive and inductive; hypothesis, generalizations and law. Planning of statistical enquiry in the field of Economics. Preliminary study major planning problems-Coverage and various types of sampling design.
2. Methods and sources of primary and secondary data collection, concept, Definition and Construction of questionnaires and schedules. Testing of questionnaires. Process of conducting the interviews-Improving quality of information by observation notes.
3. Processing of data - Classification and tabulation-Graphical presentation of information's- Index Number.
4. Data processing, statistical analysis and interpretation-presentation of data, graphs, diagrams; Report. Measures of location-Dispersion and regression curve fitting-Multiple and partial correlation.
5. Test of significance based on 't', 'f', χ^2 , normal distributions Run test, Sign test, Median test, Mann-Whitney test.
6. Case studies, assumptions, criteria, character data source, limitations and advantages.
7. Report writing, preparation of bibliography.

References:

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.

PAPER-2: Macro Economics of Growth

1. Macro Economic Growth and Micro Economic Growth-Growth and Development-Macro Economic Growth Indicators in Indian economy.
2. Growth Constraints : Domestic External-Poverty, Market imperfections-socio cultural and international forces, Social implications of Economic Development-Indian context.
3. Capital formation-Reasons for low rate of capital formation.
4. Inflation and Economic Development - The Relation between unemployment and Inflation-Measures to control Inflation.
5. Role of Agriculture and Industry in Economic Development - Inter relationship between Agriculture and industrial Development.
6. Entrepreneurship in economic Development - Factor's Impeding the Growth of Entrepreneurship - Development of Entrepreneurship
7. Human Resource Development - and economic Growth.
8. Theory and Practice of Planning in India Special Feature of Planning in India current five year plan.

References

1. Ackley, G (1978). Macroeconomics: Theory and Policy, MacMillan, New York
2. Dornbusch, R. and F. Stanley (1997). Macroeconomics, McGraw-Hill Inc, New York.
3. Frisch, H. (1983). Theories of Inflation, Cambridge University Press,
4. Ghosh, B.N., and Rama Ghosh (1993). Modern Macroeconomics: Theory and Policy, Himalaya Publishing.
5. Gupta, S.B: (1995). Monetary Planning in India, Oxford University Press, New Delhi.
6. Gupta, G.S. (2001). Macroeconomics: Theory and Applications, Tata McGraw-Hill publishing Company Ltd., New Delhi.
7. Gurley J. and E.S. Shaw (1960). Money in a Theory and Finance, Brookings Institution, Washington.
8. Hall, R.E. and J.B. Taylor (1986). Macroeconomics, McGraw-Hill Inc. New York.
9. Jha, R. (1991). Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd. New Delhi.
10. Laidler, D.E.W. (1977). Demand for Money, Theory and Evidence, Dum-Don Valley, New York.
11. Leijonhufwud, A. (1968). On Keynesian Economics and Economics of Keynes, Oxford University Press, London.

12. Mankiw, N.G. and D. Romer (Eds.) (1991). *New Keynesian Economics*, 2 Vols. MIT Press, Cambridge, Massachusetts, USA.
13. Mueller, M.G. (1966). *Reading in Macroeconomics*, Holt Rinehart & Winston, N.Y.
14. Patinkin, D. (1965). *Money, Interest and Prices*, Harper & Row, New York.
15. Lucas, R. (1981). *Studies in Business Cycle Theory*, MIT Press, Cambridge, Massachusetts, USA.
16. Taylor, L. (1983). *Structuralist Macroeconomics*, Basic Books, New Longman.

PAPER- 3: Agriculture and Indian Economic Growth

1. Agricultural sector in India-Changes in its role-production-changes in crop pattern and input structure-causes and consequences-regional variation. Change in consumption pattern and agricultural diversification, efficiency of input use, regional industries and trade, rural employment trends, poverty and employment linkages. Regional inequalities, food security - concepts. status issues & role of state and market.
2. Changes in agrarian structure-causes and consequences regional variations.
3. Agricultural marketing, finance, education, research and extension-progress, problems and prospects. Trends of capital formation in agriculture, Trade liberalization and social welfare.
4. Agricultural policies-pricing and distribution of agricultural products-inter sectoral flows and linkages, taxation policy, role assigned to agriculture in five year plans. Special programmes for marginal and small farmers and agricultural labourers. Performance of agriculture in different plans, Globalization-hopes, realities and coping strategies. Sustainable development issues, New Agricultural Policy-2000, Marketing Policies, Price policies, agricultural reforms.
5. Institutional factors for agricultural development - agroclimatic regional planning, public distribution systems, land ownership-tenancy and reforms contract farming, processing industries, rural credit institutions, microfinance Evaluation of agricultural Projects.

References

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| 1. John W. Mellor | - Economics of Agricultural Development |
| 2. T. W. Schultz | - Transforming Traditional Agriculture |
| 3. V. W. Ruttan and Yujiro Hayami | - Agricultural Development And International Perspective |
| 4. E. Heady | - The Economics of Agricultural Production and Resource use |
| 5. C. E. Bishop & | -Introduction to Agricultural Economic |

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| | W.D. Tonssaint | Analysis |
| 6. | E. Heady & H. R Jensen | -Farm Management Economics. |
| 7. | G. S. Shepherd: | -Agricultural Price Analysis |

PAPER- 4: Econometrics and Computer Applications

A. Computer Fundamentals:

Definition, components, Generations; Input/output devices: storing information; Types-hardware/software; Microsoft operating systems; M S Dos; windows operating systems; creation, operation and storing of files; editing and formatting; spell and grammar check; creation of tables and columns; MS Excel-workbooks; creating graphs charts; Mathematical and statistical functions; Data analysis in Excel: descriptive statistics, tests of hypothesis, ANOVA, etc.

Use of SPSS: opening of files in SPSS, Analysis tools, selection of variables in multiple regressions-stepwise procedures; discriminate analysis.

B. Econometric Models:

Introduction, methodology and nature of econometric approach.

Simple regression estimation and testing procedures

Functional forms of regression models and methods of estimation.

Multiple regression and generalized estimation methods.

Important problems in regression analysis –multicollinearity, serial correlation, heteroseedasticity; Dummy and qualitative variables.

Reference Books

1. P K Bose, computer Programming for Social Sciences, Vistaar Pub.
2. Hossein Bidgoli, A Comprehensive.
3. Stephen Copestake, Excel 97 in Easy Steps.
4. Shelly and Hunt, Computers and Common Sense, Prentice Hall of India.
5. Rajarama V, Fundamentals of Computers, Prentice Hall of India.
6. Peter Norton's : Introduction to Computers, Tata M C Grow Hill Pub.
7. Foster J J, Data Analysis using SPSS for windows-A Beginner, Guide.
8. GMK Madnani : Introduction to Econometrics- Principles and Application, Oxford & I B H.
9. Krishna, K L Econometric Applications, Prentice Hall of India.
10. Klein, L R, An Introductory Econometrics, Prentice Hall of India.

11. Thomas R L, Introductory Econometric-Theory and Applications, Longman House.

Note : In addition to class room teaching, students will be encouraged for presentations in class rooms, group discussions, seminars and home reading assignment