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List of Employability/ Entrepreneurship/ Skill Development Courses with Course Contents

| Colour Codes | | |
|----------------------------|------------|--|
| Name of the Subjects | Yellow | |
| Employability Contents | Green | |
| Entrepreneurship Contents | Light Blue | |
| Skill Development Contents | Pink | |



List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Department : Economics

Programme Name : M.A. Economics

Academic Year : 2022-23

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

| Sr. No. | Course Code | Name of the Course |
|---------|-------------|----------------------|
| 01. | ENPCTT9 | Research Methodolgy |
| 02. | ENPCTD1B | Quantitative Methods |
| 03. | ENPCTD2A | Econometrics -I |
| 04. | ENPDTD3A | Data Analysis |
| 05. | ENPDTD5A | Econometrics -II |



Scheme and Syllabus

Proposed Syllabus for
M.A. Economics based on CBCS System
(Two years/Four semesters)



(To be implemented from the academic session 2022-23)

Department of Economics
School of Social Sciences
Guru Ghasidas Vishwavidyalaya
Bilaspur (C.G.) 495009

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M.A. Economics based on CBCS System
(Two years/Four semesters)

| Semester | Course Opted | Course Code | Name of the Course | Credit | Hour / week |
|----------|------------------|-------------|---|-----------|-------------|
| I | Core-1 | ENPATT1 | Micro Economic Analysis - I | 4 | 4 |
| | Core-1 Tutorial | | Tutorial-1 based on Core-1 | 1 | 1 |
| | Core-2 | ENPATT2 | Macro Economic Analysis-I | 4 | 4 |
| | Core-2 Tutorial | | Tutorial-2 based on Core-2 | 1 | 1 |
| | Core-3 | ENPATT3 | Economics of Growth and Development-I | 4 | 4 |
| | Core-3 Tutorial | | Tutorial-3 based on Core-3 | 1 | 1 |
| | Open Elective | ENPAT01 | Labour Economics | 4 | 4 |
| | Open E. Tutorial | | Tutorial-Open Elective based on Open Elective | 1 | 1 |
| | | | Total | 20 | 20 |
| II | Core-4 | ENPBTT4 | Micro Economic Analysis - II | 4 | 4 |
| | Core-4 Tutorial | | Tutorial-4 based on Core-4 | 1 | 1 |
| | Core-5 | ENPBTT5 | Macro Economic Analysis-II | 4 | 4 |
| | Core-5 Tutorial | | Tutorial-5 based on Core-5 | 1 | 1 |
| | Core-6 | ENPBTT6 | Economics of Growth and Development-II | 4 | 4 |
| | Core-6 Tutorial | | Tutorial-6 based on Core-6 | 1 | 1 |
| | Core-7 | ENPBTT7 | Indian Economic Policy-I | 4 | 4 |
| | Core-7 Tutorial | | Tutorial-7 based on Core-7 | 4 | 4 |
| | | | TOTAL | 20 | 20 |
| III | Core-8 | ENPCTT8 | Indian Economic Policy-II | 4 | 4 |
| | Core-8 Tutorial | | Tutorial-8 based on Core-8 | 1 | 1 |
| | R.M. | ENPCTT9 | Research Methodology | 3 | 3 |
| | R.M. Tutorial | | Tutorial-R.M. based on R.M. | 1 | 1 |
| | DSE-1 | ENPCTD1A | International Economics-I/ Quantitative Methods | 4 | 4 |
| | DSE-1 Tutorial | | Tutorial-DSE-1 based on DSE-1 | 1 | 1 |
| | DSE-2 | ENPCTD2A | Econometrics-I/Gandhian Economics-I | 4 | 4 |
| | DSE-2 Tutorial | | Tutorial-DSE-2 based on DSE-2 | 1 | 1 |
| | | | TOTAL | 19 | 19 |
| IV | DSE-3 | ENPDTD3A | Data Analysis / Demography | 4 | 4 |
| | DSE-3 Tutorial | ENPDTD3B | Tutorial-DSE-3 based on DSE-3 | 1 | 1 |
| | DSE-4 | ENPDTD4B | International Economics-II/ Public Finance | 4 | 4 |
| | DSE-4 Tutorial | ENPDTD4B | Tutorial-DSE-4 based on DSE-4 | 1 | 1 |
| | DSE-5 | ENPDTD5A | Econometrics-II/Gandhian Economics-II | 4 | 4 |
| | DSE-5 Tutorial | ENPDTD5B | Tutorial-DSE-5 based on DSE-5 | 1 | 1 |
| | Dissertation | ENPDTE | Dissertation | 2 | 2 |
| | | | Presentation | 21 | |
| | | | Total | 80 | |
| | | | Total Credits (Semester I+II+III+IV) | 80 | |

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- Mishra and Puri: Indian Economy (latest edition)
- Singh, Ramesh : Indian Economy (latest edition)
- Chakravarty, S.: Development Planning: The Indian Experience,
- Chelliah, Raja J. and R. Sudarshan: Income, Poverty and Beyond: Human Development in India.
- Dantwala, M.L.: Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.
- Datt, R. (Ed.): Second Generation Economic Reforms in India.
- Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
- Gupta, S.P.: Post-Reform India: Emerging Trends, Allied Publishers, New Delhi.
- Jain, A.K.: Economic Planning in India.

R.M
Research Methodology

Course Objective:

The course begins with the understanding & foundations of Research, and covers the issues concerning the Research Process, Formulation of the Research Problem, Literature Survey, Working Hypothesis and concepts & importance of Research Design and Values in Research.

Course Learning Outcomes

The course imparts skills to undertake data based research. The student enrolling in this course would develop competency in executing sample surveys and would have reasonable exposure to conduct a Research Study.

Unit 1

Foundations of Research: Meaning of Research, objectives of research, Types of Research, Research Approaches, Significance of Research, and Research Methods versus Methodology.
(12 Classes)

Unit 2

Research Process, Formulating the Research Problem, Literature Survey, Development of working Hypothesis, Preparing the Research Design, Determining Sample Design. Execution of the Project, Analysis of Data, Generalization and Interpretation, Preparation of the Report.
(12 Classes)

Unit 3

Research Design: Meaning of Research Design, Need for Research Design, Different Research Designs- Exploratory Research Design, Descriptive Research Design, Concept of population, sample, sampling frame, Parameter. Statistic.
(12 Classes)

(12 Classes)

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Unit 4

Hypothesis: Definition, null hypothesis and alternative hypothesis, hypothesis Testing- Type I and Type II error, Sampling distribution, standard error-utility of standard error, sampling error. (12 Classes)

Unit 5

Values in Research – Publication Ethics, lessons from the lives and teachings of great leaders (Mahatma Gandhi- Father of Nation), role of family, society and educational institutions in inculcating values.

Suggested Readings

1. Goon, A. M, Gupta, M. K, and Dasgupta, B. Fundamentals of Statistics (Volumes One and Two), The World Press Private Ltd
2. C.R. Kothari : Research Methodology : Methods and Techniques (second revised edition), New Age India (P) Ltd Publishers.
3. Alpha C. Chiang and Kavin Wainwright : Fundamental Methods of Mathematical Economics, McGraw Hill, 2005.[For stability analysis]
4. GOI, Note on Sample Design and Estimation Procedure of NSS 68th Round, National Sample Survey Office, Ministry of Statistics and Programme Implementation.
5. GOI, SRS Statistical Report 2016, Office of the Registrar General & Census Commissioner, India

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5. Corden, W.M.: Recent Developments in the Theory of International Trade.
6. Crockett, A.: 'International Money: Issues and Analysis.
7. Dana, M.S.: International Economics: Study, Guide and Work Book.
8. Dunn, R.M. and J.H. Mutti: International Economics.
9. Grable, J.O.: International Financial Markets.
10. Greenway, D.: International Trade Policy.
11. Heller, H. Robert: International Monetary Economics.
12. Jackson, J.: The World Trading System.
13. Kenen, P.B.: The International Economy.
14. Kindleberger, C.P.: International Economics.
15. King, P.G.: International Economics and International Economic Policy: A Reader.
16. Krugman, P.R. and M. Obstfeld: International Economics: Theory and Policy.
17. Linder, S.B.: An Essay on Trade and Transformation.
18. Manmohan Singh: India's Export Trends and the Prospects for Self-sustained Growth.

DSE-I

Quantitative Methods

Course Outcomes:

Provides students with quantitative skills that are required to make business decisions. These skills involve using forecasting and mathematical techniques. Formulation and application of mathematical models in business decision making scenarios. Outline quantitative models to decision making and problem analysis, and their interpretations in transportation problems and game theory.

Unit 1

Rules of differentiation; Interpretation of revenue, cost, demand, supply functions; Elasticities;
(10 Classes)

Unit 2

Rules of partial differentiation and its application in Economics: Problems of maxima and minima, Simple problems in market equilibrium; Concept of integration; Simple rules of integration; Application to consumer's surplus and producer's surplus;
(15 Classes)

Unit 3

Concept of matrix — their types, simple operations on matrices, matrix inversion and rank of a matrix; Determinants and their basic properties; Solution of simultaneous equations through Cramer's rule;
(10 Classes)

Unit 4

(10 Classes)



Linear programming: Basic concept; Formulation of a linear programming problem — Its structure and variables; Nature of feasible and optimal solution; Solution of linear programming through graphical method; Concept of duality

(15 Classes)

Unit 5

Game Theory: Strategies — simple and mixed (2X2); Saddle point solution; Value of a game;

(10 Classes)

BASIC READING / IST

- Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
- Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
- Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
- Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
- Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw, Hill Book Co., London.
- Taha, H.A. (1997), Operations Research : An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
- Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.
- Baumol, W.J. (1984), Economic Theory and Operations Analysis, Prentice Hall, Englewood Cliffs, New Jersey.
- Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
- Vygodsky, G.S. (1971), Mathematical Handbook (Higher Mathematics), Mir Publishers, Moscow.
- Mathur, P.N. and R. Bharadwaj (Eds.) (1967), Economic Analysis in Input-Output Research, Input-Output Research Association of India, Pune.
- Hadley, G. (1962), Linear Programming, Addison Wesley Publishing Co., Massachusetts.
- Kothari, C.R. (1992), An Introduction to Operations Research, Vikas Publishing House, New Delhi.
- Mustafi, C.K. (1992), Operations Research : Methods and Practice, Wiley Eastern, New Delhi.
- Chou, Y. (1975), Statistical Analysis, Holt, Reinhart and Winston, New York.
- Croxtan, Crowden and Klein (1971), Applied General Statistics, Prentice Hall of India, New Delhi.
- Millar, J. (1996), Statistics for Advanced Level, Cambridge University Press, Cambridge.

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DSE-2
ECONOMETRICS-I

Objective: *Econometrics is a tool to judge the role of economic variables in the economic development.*

1. Origin and development of Indian Knowledge System with reference to this paper. Quantitative & Qualitative Analysis, Meaning and Methodology of Econometrics, Basics of Two-Variable Regression Analysis. OLS Estimation and Hypothesis Testing.
2. Multiple Regression Model, Estimation and Inference. Assumption of Classical Linear Regression Model (CLRM)
3. Nature, Consequences, Detection and Remedial Measures of Multi Collinearity, Heteroscedasticity and Autocorrelation (Durbin-Watson Test).
4. Regression on Dummy Variable, Dynamic Econometrics Models: Autoregressive and Distributed Lag Models-Koyek Approach.
5. Time Series Analysis : Introduction, economic Time Series : Stationary and Non-Stationary.

BASIC READING LIST

1. Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
2. Baltagi, B.H. (1998), Econometrics, Springer, New York.
3. Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
4. Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
5. Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.
6. Hill R. C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
7. Kennedy. P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.
8. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
9. Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
10. Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot U.K.

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SEMESTER-IV

| Paper | Semester-IV | Credits |
|--------------|--|-------------|
| DSE-3 | Data Analysis / Demography | 4L + 1T = 5 |
| DSE-4 | International Economics-II/ Public Finance | 4L + 1T = 5 |
| DSE-5 | Econometrics-II/Gandhian Economics-II | 4L + 1T = 5 |
| Dissertation | Dissertation/Presentation | 4D + 2P = 6 |

DSE-3

Data Analysis

Unit 1

Importance of Statistics in Economics, Collection of data, Primary and Secondary Sources of Data, Methods of collection of Primary Data- questionnaire, schedule, Observation and interview method.

Unit 2

Probability & Non Probability Sampling-Random Sampling, Purposive or Deliberate Sampling, Stratified or Mixed Sampling, Systematic Sampling, Quota Sampling, Convenience Sampling etc.

Unit 3

Classification and Tabulation of Data

Unit 4

Diagrammatic Representation of Data: Bar Diagrammes-Simple Bar Diagramme, Multiple Bar Diagramme, Differential Bar Diagramme, Pie or Circular Diagram.

Unit 5

Tests of Hypothesis: Student's t-tests, F-test.

References:

- 1) S.K Gupta & V.K Kapoor, "Fundamentals of Mathematical Statistics.
- 2) N.G Das, "Statistical Methods" (Vol I & Vol 2).
- 3) P.K Giri & Jiban Banerjee, "Introduction to Statistics"
- 4) M.R, "Probability & Statistics", Spiegel
- 5) William Feller, "An Introduction to Probability Theory & its Application".
- 6) Agresti, Franklin, "Statistics: The Art & Science of Learning from Data, Instructors Edition".
- 7) TR jain & VK ohri "Statistics for Economics
- 8) Agresti, Alan, "Categorical data Analysis" Willey publication

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DSE-5
ECONOMETRICS - II

Objective: To develop the mathematical, statistical and analytical approach in the economics with the help of econometrics.

1. Regression Analysis and F-Test (Analysis of variance) One way, two way.
2. Matrix Approach to Linear Regression Model. Assumptions, OLS Estimation and their properties. Interpretation of Results.
3. Autoregressive Model: The Adaptive Expectation Model, Partial Adjustment Model, The Almon Approach to Distributed Lag Model.
4. Chow Test: Test of equality between coefficient's, Application of LRM for estimation of Growth rate, demand function, production function.
5. Simultaneous Equation Model (SEM) : The method of Indirect Least Square and Two Stage Least Square Methods (Assumptions & Properties)

BASIC READING LIST

1. Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
2. Baltagi, B.H. (1998), Econometrics, Springer, New York.
3. Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
4. Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
5. Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.
6. Hill R. C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
7. Kennedy. P. (1998), A Guide to Econometrics (4th Edition), MIT Press, New York.
8. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
9. Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
10. Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot U.K.

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