

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**



Circular / Acad Sec./ UG-PG /CBCS Curri./Colleges/ 2022.

It is hereby inform to all concerned that, on the recommendation of Dean of Faculty of Humanities; **the Academic Council at it's Meeting held on 30th August, 2022 has accepted the following revised Curriculum with amendment Rules & Regulation** under Choice Based Credit and Grading System under the Faculty of Humanities.

Sr. No.	Course/Curriculum Name	Semesters
01.	B.A./B.Com./B.Sc./BSW/ BFA First , Second & Third Year Com., Opt., & Addi (SL) [English] Progressively.	Ist to VIth
02.	B.A. First Year Pali & Buddisum.	Ist & IIInd
02.	B.A. First Year Economics (Honors) for Model College.	Ist & IIInd
03.	B.Com. <u>First Year</u> Hindi (Genral Hindi) Question Paper Pattern.	Ist & IIInd
04.	B. A. Second Year [Geography] Progressively.	IIIrd & IVth
05.	M.A. First & Second Year [Economics] Progressively	Ist to IVth

This is effective from the Academic Year 2022-23 and Onwards progressively as appended herewith.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University campus,
Aurangabad-431 004.
Ref. No. SU/Colleges & Uni.Curri/
2022/8676

Date: 30.08.2022.

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**Deputy Registrar,
Academic.**

Copy forwarded with compliments to:-

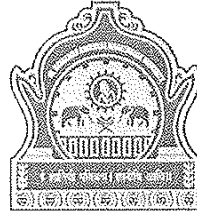
- 1] **The Head, Economics Department,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 2] **The Principal, all affiliated colleges,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 3] **The Principal, Model College,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 4] **The Director, University Network & Information Centre, UNIC,**
with **a request to upload this Circular on University Website.**

Copy to :-

- 1] **The Director, Board of Examinations & Evaluation,**
- 2] **The Sec. Officer, [B.A., B.Com, B.Sc. & M.A. Unit] Exam. Branch,**
- 3] The Section Officer, [Eligibility Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The In-charge, [E-Suvidha Kendra],
- 7] The Public Relation Officer,
- 8] The Record Keeper,
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

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**D R. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Revised Curriculum of
M. A. | Economics |

Semester-I to IV

**‘under the Choice Based Credit & Grading System
Pattern’**

**Same implemented at University Campus & College
Level**

**[Effective from the Academic Year 2022-23 & Onwards
progressively]**

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

M. A. PROGRAMME
COURSE STRUCTURE

M. A. I SEMESTER	
Course Code	Title of the Course
Bridge Course (Compulsory)	
ECO - 103	Foundation Course in Economics
Core Course (Compulsory)	
IC 001	Introduction to the Indian Constitution
Core Courses (Compulsory)	
ECO - 101	Micro Economics - I
ECO - 102	Macro Economics - I
Generic Electives (select any two papers)	
ECO - 111	Statistical Methods
ECO - 112	Industrial Economics
ECO - 113	Demography
ECO - 114	Agricultural Economics
ECO - 115	International Economics
ECO - 116	Energy Economics
ECO - 117	Environmental Economics
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M. A. II SEMESTER	
Course Code	Title of the Course
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Core Courses (Compulsory)	
ECO - 201	Micro Economics - II
ECO - 202	Macro Economics - II
Generic Electives (select any two papers)	
ECO - 211	Mathematical Methods
ECO - 212	Rural Development
ECO - 213	History of Economic Thoughts
ECO - 214	Insurance Economics
ECO - 215	International Monetary Economics
ECO - 216	Labour Economics
ECO - 217	Gender Economics
ECO - 218	Research Methodology

M. A. III SEMESTER	
Course Code	Title of the Course
Core Courses (Compulsory)	
ECO - 301	Indian Economic Policy - I
ECO - 302	Public Economics
Open Elective (Service Course)	
ECO - 303	Indian Economy
Generic Electives (select any two papers)	
Group 'A'	
ECO - 311	Econometrics - I
ECO - 312	Banking & Financial Systems
ECO - 313	Mathematical Economics - I
ECO - 314	Growth Economics
ECO - 315	Economics of Social Sector
ECO - 316	Principles and Practice of Co-Operation

M. A. IV SEMESTER	
Course Code	Title of the Course
Core Courses (Compulsory)	
ECO - 401	Indian Economic Policy - II
ECO - 402	Public Finance in India
Project / Dissertation (Compulsory)	
ECO - 403	Project Work / Dissertation
Generic Electives (select any two papers)	
Group 'A'	
ECO - 411	Econometrics - II
ECO - 412	Indian Financial Markets
ECO - 413	Mathematical Economics - II
ECO - 414	Development Economics
ECO - 415	Computer Applications in Economics
ECO - 416	Financial Econometrics

S. B. Singh
B.O.S. Economics
Chairman


Dr. C. N. Kale
Member BOS

G. M. Singh
Professor and Head
Department of Economics
Dr. Babasaheb Ambedkar
Marathwada University
Aurangabad.

DETAILS OF COURSE STRUCTURE (2021-22)

M. A. Economics I Year (Semester-I)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
Core Courses (Compulsory)					
ECO – 101	Micro Economics – I	4	20	80	100
ECO – 102	Macro Economics – I	4	20	80	100
Bridge Course (Compulsory)					
ECO - 103	Foundation Course in Economics	4	20	80	100
Core Course (Compulsory)					
IC 001	Introduction to the Indian Constitution	2	--	50	50
Generic Electives (Select any two papers)					
ECO – 111	Statistical Methods	4	20	80	100
ECO –112	Industrial Economics	4	20	80	100
ECO –113	Demography	4	20	80	100
ECO – 114	Agricultural Economics	4	20	80	100
ECO –115	International Economics	4	20	80	100
ECO –116	Energy Economics	4	20	80	100
ECO –117	Environmental Economics	4	20	80	100


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DETAILS OF COURSE STRUCTURE (2021-22)

M. A. Economics I Year (Semester-II)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
Core Courses (Compulsory)					
ECO – 201	Micro Economics – II	4	20	80	100
ECO – 202	Macro Economics–II	4	20	80	100
Generic Electives (Select any two papers)					
ECO – 211	Mathematical Methods	4	20	80	100
ECO – 212	Rural Development	4	20	80	100
ECO – 213	History of Economic Thoughts	4	20	80	100
ECO – 214	Insurance Economics	4	20	80	100
ECO – 215	International Monetary Economics	4	20	80	100
ECO – 216	Labour Economics	4	20	80	100
ECO – 217	Gender Economics	4	20	80	100
ECO - 218	Research Methodology	4	20	80	100



Professor in Charge,
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DETAILS OF COURSE STRUCTURE (2021-22)

M. A. Economics II Year (Semester-III)

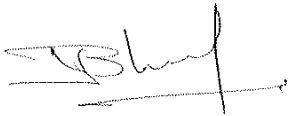
Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
Core Courses (Compulsory)					
ECO – 301	Indian Economic Policy – I	4	20	80	100
ECO – 302	Public Economics	4	20	80	100
Open Electives (Service Course)					
ECO – 303	Indian Economy	4	20	80	100
Generic Electives (Select any two papers)					
ECO – 311	Econometrics – I	4	20	80	100
ECO – 312	Banking & Financial System	4	20	80	100
ECO – 313	Mathematical Economics – I	4	20	80	100
ECO – 314	Growth Economics	4	20	80	100
ECO – 315	Economics of Social Sector	4	20	80	100
ECO – 316	Principles and Practice of Co-Operation	4	20	80	100

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DETAILS OF COURSE STRUCTURE (2021-22)

M. A. Economics II Year (Semester-IV)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
Core Courses (Compulsory)					
ECO – 401	Indian Economic Policy – II	4	20	80	100
ECO – 402	Public Finance in India	4	20	80	100
Project Work / Dissertation (Compulsory)					
ECO – 403	Project Work / Dissertation	4	--	100	100
Generic Electives (Select any two papers)					
ECO – 411	Econometrics – II	4	20	80	100
ECO – 412	Indian Financial Markets	4	20	80	100
ECO – 413	Mathematical Economics – II	4	20	80	100
ECO – 414	Development Economics	4	20	80	100
ECO – 415	Computer Applications in Economics	4	20	80	100
ECO – 416	Financial Econometrics	4	20	80	100



B.O.S.
Chairman Economics


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Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO- 101	No. of Credits: 04	Semester: I
Course Title:	MICRO ECONOMICS - I	
Course Objectives:		
<p>1) To enable students to understand and analyse the theory of consumer behaviour, the determinants of consumer choices those involving risks, the theory of production and the theory of costs.</p> <p>2) To prepare students for further Courses / Units in Economics which require knowledge of Micro Economics.</p> <p>3) To enable them to take up case studies for application of the prescribed theories.</p>		
Unit	Course Content	Periods
I	Introduction & Basic concepts: 1.1 Basic Economic Problem – Choice & Scarcity 1.2 Methodology of Economics – Deductive & Inductive, Positive & Normative Economics, Static & Dynamic equilibrium. 1.3 Concept of Equilibrium – General Equilibrium & Partial Equilibrium Edge worth box – Walrasian theory of general equilibrium.	15
II	The Theory of Consumer Behaviour: 2.1 Cardinal Utility Approach : Law of diminishing marginal utility - Consumer equilibrium – Derivation of Demand curve - Law of Demand 2.2 Ordinal Utility Approach: Indifference curve, properties - Consumer's equilibrium - Price, income & substitution effects. 2.3 Revealed preference theory of demand	10
III	Demand Analysis: 3.1 Concept of Elasticity - Price, Income & cross elasticity - Measurements - Empirical estimations 3.2 Recent Developments in Demand Theory - Hicksian Revised Theory - The Neuman Morgenstern method - The Friedman Savage Hypothesis - The Marcowitz Hypothesis -The Pragmatic Approach to demand analysis - The constant – elasticity demand function- Dynamic versions of demand function - Linear expenditure system	15
IV	Theory of Production: 4.1 Production Function: Law of variable proportions & returns to scale 4.2 Isoquents: properties, producer's equilibrium 4.3 Technical progress & production function 4.4 Cobb – Douglas production function 4.5 CES production function & their properties	10
V	Theory of Costs: 5.1 Cost concepts – economic cost, private and social cost, opportunity cost, fixed and variable cost, average, marginal & total cost, cost curves 5.2 The traditional theory of cost – The envelope curve 5.3 The modern theory of cost – The 'L' shaped curve	10
Course Outcomes:		
<p>1) Student will able to understand and analysis theories of economic agents.</p> <p>2) Student will aware about risks and uncertainty in the economy.</p>		

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DEPARTMENT OF ECONOMICS

Suggested Readings:

1. Varian Hal R. (2000) Micro Economic Analysis, W. W. Norton, New York.
2. Jehle G. A. & Reny P. J. (2008) Advanced Microeconomic Theory, Prentice Hall.
3. Kreps David (1992) A Course in Microeconomic Theory, Eastern Economy Edition, Prentice Hall fo India.
4. Koutsoyiannis, A: Modern Micro Economics, Macmillan Press, London
5. Sen A (1999) Microeconomics: Theory & Applications, Oxford University Press, Princetore.
6. Ahuja H. L. Advanced Economic Theory, S. Chand & Company, Delhi.
7. M. Maria John Kennedy: Advanced Moeconomic Theory, Himalaya Publishing House, Delhi.
8. D. Bose, A. Marimuthu: An Introdution to Microeconomics, Himalaya Publishing House, Delhi.
9. Baumol, W. J. (2000) : Economic Theory and Operation's Analysis, Prentice Hall of India Pvt. Ltd., New Delhi.
10. Stigler, G. J. : Theory of Price, Prentice Hall of India Pvt. Ltd., New Delhi.
11. Little, I.M.D.: Critique of welfare Economics, Oxford University, Press. London.
12. Katz, M. L and Rosen H. S. : Micro Economics, McGraw – Hill.
13. Eaton, B. Curtis, D. F. Eaton and D. W. Allen: Micro Economics (Toronto: Prentice Hall / Pearson) Fifth edition.
14. Estrin, S. and D. Laidler: Micro Economics (Pearson, 2008).

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-102	No. of Credits: 04	Semester: I
Course Title:	MACRO ECONOMICS - I	
Course Objectives:		
Macroeconomics I effectively purports to a bridge to the Macroeconomics – II course. It develops the subject from consumption, investment analysis to income determination using IS-LM analysis.		
Unit	Course Content	Periods
I	Determination of National Income : Introduction to theory of income determination, Keynes model of National income determination, IS-LM analysis, Phillips curve, Friedman – Phelps amendment.	12
II	Theories of Consumption: Keynes and the consumption function, The Absolute income Hypothesis, Relative income hypothesis, the Permanent income hypothesis – Criticism and policy implications, consumption and other variables.	14
III	Investment Analysis: The investment function, The Accelerator theory of investment, The Internal Funds theory of investment, Neoclassical theory of investment,	12
IV	Supply of Money : Money and its functions, Concept of Money supply, Measures of money supply, High powered money, Money multiplier; controls on money supply.	10
V	Demand for Money: Quantity theory of money, Fisher’s transaction approach, Cambridge Cash Balance Approach, Keynes theory of demand for money – Transaction, Precautionary and speculative Demand for Money, Modern theories of demand for money by Baumol, Tobin and Friedman.	12
Learning outcome:		
Upon successful completion of the course, students will be able to		
a) Understand how equilibrium income is attained		
b) Understand how consumption is determined by the various factors		
c) Know relationship between the income and investment and vice-versa		
d) Know controls of money supply and determinants of demand for money.		

Suggested Readings:

- 1) Macro Economics, Rudiger Dorbusch & Stanley Fischer, McGraw Hill, International Editions, 2006.
- 2) Maykiw N. Gregom, Macroeconomics, Worth Publishers, 2003.
- 3) Errol D'sozva, Macroeconomics, Pearson, 2008.
- 4) Barro, Robert J. and Sala – i – Martin, Xavier Economic Growth , Second Edition, Prentice Hall, India, 2014
- 5) Balanchard, Olivier Jean and Fischer, Stanley Lectures on Macroeconomics, 2000, Prentice Hall, India.
- 6) Romer, David (DR), Advanced Macroeconomics, Second Edition, McGraw-Hill, International Edition (Economics Series), 2001.
- 7) Wickens, Michael (MW), Macroeconomic Theory: A Dynamic General Equilibrium Approach, 2008, Princeton University Press, Princeton and Oxford.
- 8) Lance Thylor, Reconstruction Macroeconomics, Hayward University Press, Combridge, 2004.
- 9) Ben J. Heijdra and Frederick Van DP Foundation of Modern Macroeconomics, Oxford.
- 10) Gupta S. B., Monetavy Economics, Institutions, Theory and Policy, S. Chand & Company Ltd., New Delhi.
- 11) Rudiger Dornbusch, Stanley Fisher, Macroeconomics, Tata Mc Graw– Hill Publishing Co. Ltd., New Delhi.
- 12) Branson, W H, Macroeconomics - Theory and Policy, Harper and Row, New York
- 13) David Romer, Advanced Macroeconomics, McGraw –Hill International Edition.
- 14) Ben J.Heijdra and Fredirik Van Der Ploeg, Foundations of Modern Macroeconomics, Oxford University Press.
- 15) Edgmand M R, Macroeconomics - Theory and Policy, PHI Publication, New Delhi.
- 16) Mcconnel C R and H C Gupta, Introduction to Macroeconomics, Tata McGraw– Hill Publishing Co. Ltd., New Delhi.
- 17) Turnovsky S J, Macroeconomic Analysis and Stabilization Policy, Cambridge University Press.
- 18) Oliver Jean Blanchard and Stanley Fisher, Lectures on Macroeconomics, PHI Pvt. Ltd., New Delhi.
- 19) Lane Taylor, Reconstructing Macroeconomics, Harvard University Press, Cambridge.
- 20) D'souza Errol, Macroeconomics. Pearson Education, Delhi.
- 21) Harris, Monetary Economics, OUP.
- 22) Edgmand Michael, Macro – Economics: Theory and Policy, Prentic – Hall International.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-103	No. of Credits: 04	Semester: - I
Course Title:	FOUNDATION COURSE IN ECONOMICS	
Course Objectives: To enable students to understand definition, meaning, importance, scope and basic concepts and theories of economics.		
Unit	Course Content	Periods
I	Introduction and Basic Concepts Meaning of Economics, Definition & Scope, Economics Basic Laws, Consumer behavior, Demand, Supply, Production and Cost, Market Equilibrium, Market Forms – Monopoly, Monopolistic competition, Oligopoly, perfect competition and Welfare economics.	12
II	Introduction of Macroeconomics Some basic concepts: consumption goods, capital goods, final goods, intermediate goods; investment and consumption functions, Circular flow of income; Methods of calculating National Income - Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP)	12
III	Money Banking and International Trade Money - its meaning and functions, Supply of money - Banking system, RBI and its functions, International Trade – GAAT, WTO, Nature and Concept of Balance of Payments, balance of payments deficit-meaning, Foreign exchange rate - meaning of fixed and flexible rates and managed floating, Determination of exchange rate in a free market.	12
IV	Tax System Taxes in India – Direct & Indirect Taxes, VAT, GST, LBT., Government budget - meaning, objectives and components	10
V	Indian Economy Silent feature of Indian economy, Demographic Condition – Occupational Structure – Infrastructure Indian Economy Planning – The Goals Of Five Year Plans – Agriculture – Industry And Trade – Trade Policy: Import Substitution Economic Reforms, Liberalisation, Privatisation And Globalisation : An Appraisal – Background – Liberalisation – Privatisation – Globalisation – Indian Economy During Reforms: Current Challenges Facing The Indian Economy	14
Course Outcome :		
<ul style="list-style-type: none"> • Student will be well prepared with the knowledge of basic concept in Economics. • Student will be able to grasp the various course designed for the M.A Economics program . 		

Suggested Readings

1. Ahuja H. L. Advanced Economic Theory, S. Chand & Company, Delhi.
2. D. Bose, A. Marimuthu: An Introduction to Microeconomics, Himalaya Publishing House, Delhi.
3. Baumol, W. J. (2000) : Economic Theory and Operation's Analysis, Prentice Hall of India Pvt. Ltd., New Delhi.
4. Macro Economics, Rudiger Dornbusch & Stanley Fischer, McGraw Hill, International Editions, 2006.
5. Maykiw N. Gregom, Macroeconomics, Worth Publishers, 2003.
6. Gupta S. B., Monetary Economics, Institutions, Theory and Policy, S. Chand & Company Ltd., New Delhi.
7. Datta R. (Ed.) (2010) Second Generation Economic Reforms in India, Deep and Deep Publications, New Delhi.
8. Mishra & Puri – Indian Economy, Himalaya Publishing House, New Delhi.
9. Datt, and Sundaram, K.P.M.(2014), “Indian Economy”, S.Chand & New Delhi.
10. Bhole, L.M. (2009), “Financial Institutions and Markets”, Tata McGraw Hill Company Ltd., New Delhi.
11. Prasad, K.N. (2001), “Development of India's Financial System”, Sarup and Sons, New Delhi.
12. Desai, Vasant (2008), “Fundamentals of the Indian Financial System”, Himalaya Publishing House, Mumbai.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-111	No. of Credits: 04	Semester: - I
Course Title:	STATSTICAL METHODS	
Course Objectives:		
<ol style="list-style-type: none"> 1. To develop a reasonable understanding of economics relationships and relevant statistical methods 2. To strengthen the statistical analysis skill of the students. 		
Unit	Course Content	Periods
I	Measures of Central Tendency and Dispersion: 1.1 Introduction – meaning, scope, importance, limitations of statistics (2) 1.2 Data – Types, collection, classification presentation (3) 1.3 Measures of Central Tendency –Arithmetic Mean, Harmonic Mean, Geometric Mean, Median, Mode (5) 1.4 Measures of Dispersion – Range, Standard deviation, Variance Coefficient of variation (3) 1.5 Requisites of good average & properties of good measure of variation (1)	12
II	Correlation Analysis: 2.1 Meaning and kinds of correlation (2) 2.2 Simple correlation Analysis; Pearson’s Product Moment Method & Spearman’s Rank Correlation Coefficient, concurrent deviation (4) 2.3 Properties of correlation coefficient estimation of probable errors (1) 2.3 Multiple correlation analysis (2) 2.4 Partial correlation analysis (2)	14
III	Regression Analysis: 3.1 Meaning, basic concepts of regression (1) 3.2 Concept of Least Squares Methods and examples (4) 3.3 Standard error of estimate (3)	08
IV	Theory of Estimation and Hypothesis Testing: 4.1 Concept of population an Estimator and its Sampling Distribution (2) 4.2 Properties of good estimator (1) 4.3 Formulation of statistical hypothesis – Null and alternative hypothesis, I and II errors (1) 4.4 Hypothesis testing based on t, Z, Chi-Square (5) 4.5 F – test, One-Way, Two-Way analysis (4)	12
V	Probability: 5.1 Concepts – variable, sample space, events, probability (2) 5.2 Laws of probability Addition, Multiplication (4) 5.3 Baye’s theorem and (1) 5.4 Mathematical Expectation theorem & expected values (3) 5.4 Probability density function (1)	14
Learning Outcomes		
<ol style="list-style-type: none"> 1 Student will aware about reasonable understanding regarding analysis of economic relationship between various variable 2 Student will competent to apply statistical tools in economic analysis 		

Suggested Readings

Quantitative Method for Business and Economics by Adil H. Mouhammed, PHI, New Delhi, 2003

1. Gupta S.P(1988) –Statistical Methods- Sultan Chand & Sons , Delhi.
2. Gupta, S. C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
3. Millar, J. (1996), Statistics for Advanced Level, Cambridge University Press, Cambridge
4. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics (3rd Edition), Macmillan Publishing Co., New York.

Additional Reading

1. Chou, Y. (1975), Statistical Analysis, Holt, Reinhart and Winston, New York.
2. Croxton, Crowden and Klein (1971), Applied General Statistics, Prentice Hall of India, New Delhi.
3. Nagar, A. L. and R. K. Das (1993), Basic Statistics, Oxford University Press, New Delhi.
4. Goon, A. M., M. K. Gupta and B. Dasgupta (1993), Fundamentals of Statistics, Vol. 1, The World Press Ltd., Calcutta.
5. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics (3rd Edition), Macmillan Publishing Co., New York.
6. Sukhatme, P. V. and B. V. Sukhatme (1970), Sampling Theory of Survey with Applications, Iowa State University
7. Croxton and Cowden (1973) Applied General Statistics (New Delhi: Prentice Hall of India)
8. Miller, R.K. (1995) Introduction to Statistics for Business and Economics (St. Martin Bros. New York).
9. SALVATORE, D., Theories and Problems of Statistics and Econometrics, McGraw-Hill, 198
10. Bez, K. (1983). *An Introduction to Input Output Techniques*, N.B.T., Goel Publishing House, Meeru
11. Mathur, P.N. and R. Bhardwaj (eds.) (1967). *Economic Analysis in Input-Output Research*. Input-Output Research Association of India, Pune.
12. Clarence E. Tuites –Basics Mathematics for Technical Courses, Prentice –Hall , Inc.1960
13. Rao, C.R. (1965). *Linear Statistical Inference and Applications*, Wiley and Sons.
14. Wallis, W.A. (1956). *Statistics - A New Approach*, The Free Press, Illinois.
15. Monga, G. S. 91972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.

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DEPARTMENT OF ECONOMICS**

M.A. (Economics) SYLLABUS

Course Code No.: ECO-112	No. of Credits: 04	Semester: I
Course Title:	INDUSTRIAL ECONOMICS	
Course Objectives:		
This course is designed to introduce the basic theory of industrial organization. It offers insight into reasons for uneven regional development. Recent issues of mergers and role of FDI are included. The course also throws light on industrial policy issues in the context of new economic reforms. It also deals with the response of Indian industry to the challenge of WTO.		
Unit	Course Content	Periods
I	Industrial Organization: Structure – Conduct – performance paradigm - Monopoly and Concentration: concept, reason and concern – Contestable market – Fixed cost, sunk cost and contestability – Measures of Concentration – Concentration Ratio – Hirschman – Herfindahl Index	15
II	Location and Regional Development: Regional growth of industries in India – theories of Industrial Location – Measures for dispersal of industries – Promotional and financial support by public sector institutions	12
III	Determinants of Firm Structure: Mergers-Horizontal and vertical – Conglomerate Integration – Role of FDI in Indian industry	09
IV	Industrial Policy: New Industrial Policy (1991) and later developments – growth and productivity of Indian industry – Industrial employment and Labor Laws in India – Exit Policy – India's Competition Policy	12
V	The Challenge of WTO: Response of the Indian Industrial Sector to Trade Liberalization – TRIPs – TRIMs – Growth of the Indian Small Scale Industries Sector in the QR free regime	12
Course Outcome:		
The course will expose students current changes in India's industrial policy and the challenges posed by the WTO of market.		
Students will enable to deal with various types of costs faced by business firm.		
The course enables the students to understand the application of methodology for finding concentration of firms / industries indicating extend of monopoly power.		

Basic Reading List:

- 1) Shepherd W. C. (1985), *The Economics of Industrial Organization*, Prentice Hall Inc., London
- 2) Tirole Jean, *The Theory of Industrial Organization*, MIT Press, Prentice Hall, India
- 3) Basu Kaushik, *Lectures in Industrial Organization Theory*, Blackwell

Additional Readings:

- 1) Ahluwalia I. J. (1985), *Industrial Growth in India: Stagnation since mid 60s*, Oxford University Press, Delhi.
- 2) Mohanti Binode (1991), (Ed.) *Economic Development Perspective, VOL. 3, Public Enterprises and Performance*, Commonwealth Publishers, New Delhi.
- 3) Mukherjee Dilip (1998), (Ed.) *Indian Industry – Policies and Performance*, Oxford University Press, Delhi.
- 4) Vepa R. K. (1988), *Modern Small Industry in India*, Sage Publications
- 5) Krishna P. & Mitra D. (1998), *Trade Liberalization, Market Discipline and Productivity Growth: New Evidence from India*, *Journal of Development Economics*.
- 6) Besley T. & Burgess R. (2004), *Can Labor Regulation Hinder Economic Performance? Evidence from India*, *The Quarterly Journal of Economics*.
- 7) Bhalotra S. R. (1998), *the Puzzle of Jobless Growth in Indian Manufacturing*, *Oxford Bulletin of Economic and Statistics*.
- 8) Chakravorty S. (2003), *Industrial Location in Post Reform India: Patterns of Inter Regional Diversions and Intra Regional Convergence*, *Journal of Development Economics*.
- 9) Bhattacharya B. (1999), *WTO and Indian Industry: Response, Impact and Strategy*, *MADC Monthly Economic Digest, Special Number, January, Mumbai*.
- 10) Chadha G. K. (2000), *Indian Economy under the WTO Regime: Happenings, Non-happenings and Missing Links*, *Indian Economic Association*.
- 11) Balakrishnan P. & Pushpangadan K. (1998), *What Do We Know about Productivity Growth in Indian Industry?*, *Economic & Political Weekly, August 15-22*

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

M. A. (Economics) SYLLABUS

Course Code No.: ECO-113	No. of Credits: 04	Semester: I
Course Title:	DEMOGRAPHY	
Course Objectives:		
To introduce the student to the theory of demography, basic demographic techniques and main features of the demography of India.		
Unit	Course Content	Periods
I	Introduction of Demography: Scope of demography, Meaning, Nature, Importance, Its relation with economics, ecology and sociology, Malthus theory of population, Theory demographic transition, Theory optimum population.	10
II	Population and Development Distribution of world population. Temporary, internal and international migration. Factors affecting migration. Trends in urbanisation in developing countries. Urbanization in Maharashtra (1991-2011).	12
III	Structure of Population Age and sex structure of population in developed and less developed countries. Composition of Indian population with respect to age, sex, and occupation. Decline in female-male ratio in Indian population; causes of declining FMR in India. Trends in fertility, and mortality in India. Causes of declining fertility rates in India. Women's access to nutrition, health, education and community resources.	12
IV	Demographic Methods and Trends Estimation of future population growth. Measurement of fertility: total fertility rate, Measurement of mortality: indirect estimation; infant and perinatal mortality. Nuptiality: proportion of never-married in population, mean age at marriage. Age-sex pyramids. Construction of life tables. The "demographic dividend" and its implications, Population explosion.	14
V	Measurement and Planning of Population in India Sources of demographic data in India: Census, Vital Registration and Sample Registration, Demographic Surveys. Evaluation of Population Policy in India: Family Planning Programme; policy on social welfare, reducing mortality and improving quality of life. Policy on reproductive and child health and new reproductive technologies.	12
Course Outcome:		
Student will get in depth understanding of the demographic features and their impact on the economy.		

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DEPARTMENT OF ECONOMICS**

Basic Reading List:

1. Agarwal S. N. (1972), India's Population Problem, Tata Mc Graw-Hill, Co., Bombay.
2. Bose, A. (1996), India's Basic Demographic Statistics, B. A. Publishing Corporation, New Delhi.
3. Bogue, D. J. (1971), Principles of Demography, John Wiley, New York.
4. Chenery H. and T. N. Srinivasan (Eds.) (1989), Hand Book of Development Economics, Vol. 1 & 2 Elsevier, Amsterdam, et.
5. Choubey, P. K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
6. Coale A. J. and L. M. Hoover (1958), Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects, Princeton University Press, Princeton.
7. Gulati, S. C. (1988), Fertility in India; An Econometric Study of a Metropolis, Sage, New Delhi.
8. Simon, J. L. (1992), Population and Development in Poor Countries, Princeton University Press.
9. Srinivasan, K. (1998), Basic Demographic Techniques and Applications Sage, New Delhi.
10. Srinivasan K. and A. Shariff (1998), India: Towards Population and Demographic Goals, Oxford Univeristy Press, New Delhi.
11. Sryrock, H. et. Al (1973), The Methods and Materials of Demography, US Department of Commerce, Washington D.C.

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DEPARTMENT OF ECONOMICS
M.A. (Economics) SYLLABUS

Course Code No.: ECO-114	No. of Credits: 04	Semester: I
Course Title:	AGRICULTURAL ECONOMICS	
Course Objectives: -		
<p>The objective of this course is to provide a detailed treatment of issues in agricultural economics to those intending to specialize in this area. Its objective is to aware the students with policy issues that are relevant to Indian agricultural sector and analyze the issues using basic micro economic concepts.</p>		
Unit	Course Content	Periods
I	Nature and scope of Agricultural Economics: Inter-sector linkages of agriculture, contribution of agriculture of economic development, declining role of agriculture and dilemmas of development.	12
II	Production relationship- factor- product, factor –factor and product – product relations, Cobb-Douglas & CES production functions, role of farm size & structure in equilibrium, productivity and return to scale.	13
III	Market structure and imperfections: characteristics of supply of farm product, supply response of farm product, Cob – Web ---- and non price factors in including aggregate supply, characteristics of demand for farm products, agricultural price police – instrument and evaluation, role of commodity futures and options in stabilization.	12
IV	Main features of international trade in agricultural commodities, domestic agricultural & trade policies of developed countries and their impact on world trade, agriculture in GATT negotiations and WTO.	12
V	Rural credit market, rational for Government intervention in rural credit markets, structure and functioning of rural credit market in India.	11
Course Outcomes:		
<ul style="list-style-type: none"> • Understand the inter - sector linkages and contribution of agriculture in economic development. • Understand the use of basic micro economics concepts in agricultural sector. • Understand the agricultural price policy and its implications. • Know the various aspects related with international trade in agricultural commodities and role of WTO. • Understand the role of government intervention in rural credit market. 		

Suggested Readings:

1. Bruce L. Gardener & Gordon C. Rauser (Eds.), Handbook of Agricultural Economics, Vol. 142, Amsterdam, Elsevier Science B. V. , 2002.
2. Ghatak Subrata & Ken Ingersent, Agriculture & Economic Development, Harvester Press Ltd., London, 1984.

Additional Readings:

1. Bardhan, P. (1984), Land Labour and Rural Poverty, Oxford University Press, New Delhi.
2. Bhardwaj, K. (1974), Production conditions in Indian Agriculture, Cambridge University Press, Cambridge,
3. Brahmananda, P.R. and V.R. Panchumukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.
4. Chandha, G.K. A.N. Sharma (1997), Growth, Employment and Poverty; Change and continuity in Rural India; Vikas Publishing, New Delhi..
5. Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.
6. Chelliah, Raja J. and R. Sudarshan (1999), Income, poverty and Beyond : Human Development in India, Social Science Press, New Delhi.
7. Dantwala, M.L. Et. (1991), Indian Agricultural Development since Independence, Oxford and IBH, New Delhi.
8. Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publication, New Delhi.
9. Government of Indian (1976), Report of the National Commission on Agriculture, New Delhi.
10. Government of India, Economic Survey (Annual), New Delhi.
11. Haque, T. and A.S. Sirohi (1986),
12. Joshi, P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publisher, Bombay.
13. Kahlon, A.S. and Tyagi D.S. (1983), Agricultural price policy in India, Allied publisher; New Delhi.
14. Meier, G.M. (1995), Leading issues in Economic Development Oxford University Press, New Delhi.
15. Rao, C.H. Hanumantha (1975), Agricultural Growth Rural Poverty and Environment Degradation in India Oxford University Press, New Delhi.
16. Rudra, A. (1982), Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi.
17. Raj, K. N. et. al (1988), Essays in the commercialization of Indian Agriculture, Oxford University Press, New Delhi.
18. Rao, C.H. Hanumantha (1975), Technological change and Distribution of gains from Agriculture, Macmillan, New Delhi.
19. Reghvan and L. Sarkar (Eds.) (1996), Poverty and Employment, New Age, New Delhi.
20. Soni, R.N. (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.
21. Thamarajakshi, R. (1994), Intersect oral Relationship in a Developing Economy, Academic Foundation, Delhi.

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M.A. (Economics) SYLLABUS

Course Code No.: ECO-115	No. of Credits: 04	Semester: I
Course Title:	INTERNATIONAL ECONOMICS	
Course Objectives:		
<p>This course is designed to introduce the pure theory of trade along with a background of the Mercantilist Doctrine. It deals also with the neo classical trade theory as well as alternative explanation of trade and recent explanations in terms of technological lead. The course aims at introducing the rationale of government intervention in the form of tariffs, quotas and non-tariff barriers. It also deals with the theory of customs union.</p>		
Unit	Course Content	Periods
I	A brief review of the Mercantilist doctrine of trade - Hume's Price Specie Flow Mechanism - Absolute and Comparative advantage theory - Production possibility curve - community indifference curve - Gains from trade offer curve	11
II	Comparative advantage in the Heckscher-Ohlin Model - Definitions of Factor abundance - factor price equalization theorem - the Leontief paradox	10
III	Alternative explanations of inter industry trade - Availability & Spillover model - Recent explanation in terms of technological lead - domestic market size and product cycle approach - Vernon's Hypothesis - Krugman Model - intra-industry trade - Terms of trade: Gross and net barter terms of trade and income terms of trade	15
IV	The Uruguay Round of GATT- Objectives and Principles of the WTO - Emergence of non-tariff barriers - Political Economy of non-tariff barriers - Voluntary Export Restraints - Dumping - Sanitary and Phyto- Sanitary measures	12
V	Theory of Customs Union: Trade creation versus trade diversion - partial and general equilibrium approaches to the theory of customs union - static and dynamic effects - forms of regional integration	12
Course Outcome:-		
<ul style="list-style-type: none"> • Student will be well veered with the pure theory of trade • Student will understand the rationale of government intervention in international trade • Student will learn the Economics of international co- operation 		

Basic Reading List:

1. Bhagwati, J (Ed) (1981), "International Trade: Selected Readings", Cambridge, University Press, Massachusetts.
2. Bhagwati and Srinivasan (1983), Lectures on International Trade, The MIT Press.
3. Bhagwati J. (1964), The Pure Theory of International Trade, VOL.74, pp. 1-78
4. Borkakoti J. (1998), International Trade: Causes and Consequences, Macmillan, London.
5. Chipman John S. (1965), A Survey of the Theory of International Trade Part I, The Classical Theory, Econometrica, VOL. 33, No. 3, July, pp. 477 (519).
6. Chipman John S. (1965), A Survey of the Theory of International Trade Part II, The Neo Classical Theory, Econometrica, VOL. 33, No. 4, October, pp. 685 (760).
7. Chipman John S. (1966), A Survey of the Theory of International Trade Part III, The Modern Theory, Econometrica, VOL. 34, No. 1, January, pp. 18 (76).
8. Chacholiades, M (1990), "International Trade; Theory and Policy", McGraw Hill, Kogakusha, Japan.
9. Goldstein, M. (1998), "The Asian Financial Crisis; Causes, Cure and Systemic Implications", Institute for International Economics, Washington. D.C.
10. Hefferman & Sinclair (1991), Modern International Economics, Illustrated Edition, Wiley-Blackwell
11. Salvatore, D. (1997), "International Economics", Prentice Hall, Upper Saddle River, N.J., New York.
12. Sodersten and Reed (2003) "International Economics", Macmillan Publishers Ltd. London.

Additional Readings:

1. Kenen, P.B. (1994) the International Economy, Cambridge University Press, London.
2. Krauss M.B. (1973), "The Economics of Integration", Allen and Unwin, London.
3. Krugman, P.R. and M. Obstfeld (2009), "International Economics: Theory and Policy", Pearson Education, Delhi.
4. Kravis I. B. (1956), Availability and other Influences on the Commodity Composition of Trade, Journal of Political Economy, VOL. 64, No. 2, April, pp. 143-145
5. Krugman P. (1994), Rethinking International Trade, MIT Press
6. Linde, Staffan Burenstam (1961), An Essay on Trade and Transformation, Wiley and Sons, New York.
7. Vernon R. (1966), International Investment and International Trade in the Product Cycle, Quarterly Journal of Economics, VOL. 80, May, pp. 190-207
8. Bhagwati J (1969), Trade, Tariffs and Growth, The MIT Press, November 15
9. Greenway D. (1983), "International Trade Policy", Macmillan Publishers Ltd. London.
10. Corden (1971), Theory of Protection, Clarendon Press, Oxford
11. Lipse R. G. (1957), The Theory of Customs Union, Trade Diversion and Welfare, The Review of Economic Studies, Economica, VOL. 24, No. 93, February, pp. 40-46
12. Bhalla and Bhalla (1997), Regional Blocks, Palgrave, Macmillan
13. Frankel Jeffrey (1997), Regional Trading Blocks in the World Economic System. Institute for International Economics, Washington DC
14. IMF Occasional Papers(1993), Experience with Regional Integration: Industrial Countries
15. Whalley John (1985), Trade Liberalization among Major Trading Areas, Cambridge University Press, Massachusetts

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DEPARTMENT OF ECONOMICS

M. A. (Economics) SYLLABUS

Course Code No.: ECO- 116	No. of Credits: 04	Semester: I
Course Title:	ENERGY ECONOMICS	
Course Objectives:		
<p>1) The student should be able to understand and analyse the theory of consumer behaviour, the determinants of consumer choices those involving risks, the theory of production and the theory of costs.</p> <p>2) The students should be prepared for further Courses / Units in Economics which require knowledge of Micro Economics.</p>		
Unit	Course Content	Periods
I	Introduction to Energy Economics: Natural Resources – Classification – Importance – Role of Natural Resources in Economic Development – Energy Resources – Types & Classification – Properties of Energy – Forms of Energy – Energy measures – Energy production & distribution – Energy Economics relation with other branches	15
II	Energy & Development: Role of Energy in Economic Development – Drivers of energy demand – Energy intensity & elasticity- Energy pricing – Basic pricing principles, peak load & seasonal pricing, concentration of energy supply & externalities – National & international comparison – Low middle & High income Economics – Role of international institutions – OPEC, OAPEC & World Bank.	15
III	Investment in Energy Resources: Economics of discount rate, Net present value, Benefit cost ratio, Payback period, Internal rate of return, cash flow analysis, private cost and social costs', Economic & financial analysis of energy technologies.	10
IV	Energy policies in India: Domestic requirements of energy, Key developments & changes in India's' energy policy in the context of energy efficiency & environmental concerns – Renewable energy programme – Energy under five year plans – National action plan on climate change	10
V	Energy & Environment: Energy crisis – Causes consequences – Remedial measures – Environmental crisis – Causes consequences – Remedial measures – Kyoto protocol – Role of energy & environmental economists in solving energy & environmental crisis.	10
Course Outcome:-		
<p>Student will able to know about various energy sources and policies of energy in India. Student will also able to know about the economic feasibility of energy sources.</p>		

Suggested Readings:

1. Agrwal M. C. & Monga, JR – Economic & Commercial Geography, National Publishing House, New Delhi, 1992
2. Karpagam M. – Environmental Economics, Sterling New Delhi, 1991
3. Kneese A. V. & Sweeny, JL, Handbook of Natural Resources & Energy Economic, North Holland, 1993.
4. Palul Stevens (Ed) The Economic of Energy, Vol. I & II, Edward Elgar, 2000.
5. Richard Eden – Energy Economics – Growth, Resources & Policies, Cambridge University Press, London, 1981.
6. Thomas Tietenberg, Environmental and Natural Resource Economics, Seventh Edition, Addison Wisley, Boston, 2006.
7. Robert S. Pindyck and Daniel L. Rubinfeld, Microeconomics, 6th Edition, Prentice Hall of India, 2005.
8. Bohi, D.P. (1981) : Analyzing Demand Behaviour : A Study of Energy Elasticities, Johns Hopkins University Press.
9. Nordhaus, William (1979) : The Efficient Use Energy Resources, Yale University Press.
10. Public Finance, R. K. Lekhi (Kalyai Publishers)
11. A. Text book of Environmental Studies Dr. Vijaykumar Tiwari, Himalaya Publishing House.
12. Pindyck, Roberts S. (1979) : The Structure of World Energy Demand, MIT Press.
13. Robert Ristinen and Jack Kraushaar (1998) : Energy and the Environment, John Wiley and Sons.
14. Ferdinand E. Banks (2000) : Energy Economics : A Modern Introduction, Springer Netherlands.
15. Ashok V. Desai (Ed.) (1990) : Energy Economics, Wiley Eastern Limited, Tokyo.
16. D. R. Veena (1988) : Rural Energy : Consumption Problems and Prospects, Ashish Publishing House, New Delhi.
17. Dhulasi Birundha Varadarajan (1993) : Energy Economics, Sterling Publishers, New Delhi.
18. R.N.Subudhi (Ed.) (1996) : Energy Environment and Economy, Kanishka Publishers, New Delhi.
19. Richard Loulou, P. R. Shukla and Amit Kanudia (1997) : Energy and Environmental Policies for a Sustainable Future, Allied Publishers, New Delhi.
20. Madke N. S. and V. B. Bhise (2006), Economics of Biogas Technology, The Associated Publishers, Ambala.

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M.A. (Economics) SYLLABUS

Course Code No.: ECO-117	No. of Credits: 04	Semester: I
Course Title:	ENVIRONMENTAL ECONOMICS	
Course Objectives:		
<p>The objective of this course is to provide some insight into the interlinkages between economics, environmental and ecology. The course is also helpful to understand environmental problems and solving it by applying economic principles.</p>		
Unit	Course Content	Periods
I	Environments, Ecology & Economy: Environment, Ecology and Ecosystem: Interlinkages between Environment, Ecology and Economics. Environmental problems in developing countries; market failure and externality. The theory of externality and public good - Pigeon and case material balance approach.	12
II	Types of Resources and Resource allocation: Renewable and non-renewable resources: energy, forests, wild life, biodiversity. Theories of optimal use of exhaustible and renewable resources.	12
III	Environmental Problems and Measures: Environmental pollution: Air Pollution, Water Pollution, Soil Pollution, Noise pollution. Climate change and its economic impact. Environmental policy and measures in India. Environment protection laws. Global warming.	12
IV	Environment and Development: Environment and development linkages, Environmental and development trade off and concept of sustainable development. Poverty and environment. Environment and population issues.	12
V	Environment Impact Analysis: Appraisal of project with environmental impact, Environment and social assessment of project. Different case studies.	12
Course Outcome:		
<ul style="list-style-type: none"> • Students will be able to understand the interlinkages between environment, ecology and economy. • An insight into optimal use of resources will be provided. • Students will become aware of the economic impact of climate change. • Students will be equipped with the knowledge of carrying out environment impact analysis. 		

Suggested Readings:

1. Baumol ,W.J. and W.E.Oates (The theory of Environmental Policy ,(2nd Edition),Cambridge University Press ,Cambirdge.
2. Bromely,D.W.(Ed.)(1995) Handbook of Environmental economics ,Blackwell London.
3. Fisher,A.C(1981) Resource and Environmental Economics ,Cambridge University Press, Cambridge .
4. Hanley, N.J.F.Shogren and B.White (1997) Environmental Economics in Theory and Practice ,Macmillan
5. Hussen, A.M. (1999) Principles of Environmental Economics,Routledge, London.
6. Jeroen ,C.J.M. Van den Bergh (1999)Handbook of Environmental and Resource Economics ,Edward Elgar Publishing Ltd.U.K.
7. Kolstad , C.D.(1999)Environmental Economics ,Oxford University Press ,New Delhi
8. Pearce ,D.W. and R.Turner (1991) Economics of Natural Resource Use and Environment John Hopkins University Press ,Baltimore .
9. Perman ,R.Ma and J.McGilvary (1996) Natural Resource and Environmental Economics ,Logman ,London.
10. Sankar,U (Ed) (2001) Environmental Economics ,Oxford University Press ,New Delhi.
11. B. Groom, C. Hepburn, P. Koundouri, and D. Pearce. "Declining Discount Rates: The Long and the Short of It." *Environmental & Resource Economics*, Vol. 32 (2005)
12. Baumol, W. J. & W. E. (1997), The Theory of Environmental Policy, Prentice Hall, Englewood-Cliffs.
13. Bhardwaj, R. (1983), Managing Limits to Growth, Asian and Pacific Development Centre, Kula Lumpur.
14. Dorfman, R. & N. Dorfman (Eds.) (1977), Economics of the Environment, W. W. Norton, New York.
15. Nijkamp, P. (Ed.) (1976), Environmental Economics, Vol. I & II, Martinus Nijhoff, Leiden.
16. Charles Peering (1987), Economy and Environment Cambridge University Press, New York.
17. Ali, S. A. (1979), Resources for Future Economic Growth Vikas Publishing House, New Delhi.
18. Rathore, M. S. (Ed.) (1996), Environmental and Development, Rawat Publications, Jaipur.
19. Garge, M. R. (Ed.) (1996), Environmental Pollution and Protection, Deep and Deep Publications, New Delhi.
20. Lodha, S. L. (Ed.) (1991), Economics of Environment, RBSA Publishers, Jaipur.

Additional Readings:

1. Tietenberg ,T.(1994) Environmental Economics and Policy
2. Hopper,Charles,(1980) Economics Evolution and the Environment ,London, Hodder and Staughton.
3. Pushpam Kumar, ed.(2004,2009) Economics of Environment and Development, Ane Books, New Delhi
4. Dutta, Abhijit, Sunita Datta and P.N.Pandey (2009), Environmental Economics, APH Publishing, New Delhi
5. Pearce W.David(1998),The Valuation of Social Cost ,George Allen & Unwin , London
6. Ahmed, Y.J., El Serafy and E. Lutz (eds) (1989), Environmental Accounting for Sustainable Development, The World Bank, Washington D.C.
7. Anderson, K. and R. Blackhurst (eds) (1992), The Greening of World Trade Issues, Harvester Wheatsheaf, New York.
8. OECD (1994), The Economics of Climate Change, Paris.
9. World Commission on Environment and Development (1988) Our Common Future, OUP, Pune .
10. Bhandopadhyay J. (1985), India's Environment: Crisis and Response, Dehra Dun, Natraj
11. Bankoli, T.S. (2008), Chipko Movement, Global Vision Publishing House, New Delhi.
12. Sangvai, Sanjay (2002), The River and Life--- Story of the Narmada Bachao Andolan.
13. Shiva, Vandana (1991), Ecology and the Politics Of Survival: Conflicts Over Natural Resources In India, Sage, New Delhi
14. Shiva, Vandana (2000),Stolen Harvest: The Hijacking of the Global Food Supply, South End Press.
15. Shiva, Vandana (1993), Ecofeminism, Kali for Women, New delhi.
16. Eriksson, Ralf (2005). "On the Ethics of Environmental Economics as Seen from Textbooks," *Ecological Economics* 52(4): 421-435.
17. Wagner, Jeffrey (2006). "On the Economics of Sustainability," *Ecological Economics* 57(4): 659-664.
18. Koop, Gary and Lise Tole (2004). "Measuring the Health Effects of Air Pollution: To What Extent Can We Really Say that People Are Dying from Bad Air?" *Journal of Environmental Economics and Management* 47(1): 30-54.
19. Sunstein, Cass (2005). "Cost-Benefit Analysis and the Environment," *Ethics* 115(2): 351-385.
20. Heal, Geoffrey and Bengt Kristöm (2002). "Uncertainty and Climate Change," *Environmental and Resource Economics* 22(1-2): 3-39.
21. Newell, Richard and Robert Stavins (2000). "Climate Change and Forest Sinks: Factors Affecting the Costs of Carbon Sequestration," *Journal of Environmental Economics and Management* 40(3): 211-236.
22. Rajlakshmi N. and Dhulasi B. (1994), Environomics, Allied Publishers Ltd., New Delhi
23. Singh, G. N. (Ed.) (1991), Environmental Economics. Delhi.24.
24. Kolsad,C.D.(1999).Environment Economics,Oxfords University Press,New Delhi25.
25. Pigou,A.C.(1962).The Economics of Welfare, VI th Edn, Macmillin,London.

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DEPARTMENT OF ECONOMICS**

M.A. (Economics) SYLLABUS

Course Code No.: ECO-201	No. of Credits: 04	Semester: II
Course Title:	MICRO ECONOMICS - II	
Course Objectives:		
1) To enable students to understand and analyse the firms behaviour in different market structures, how prices are determined in different market structures and how factor prices are determined. 2) To enable students to understand and discuss the different views related to the welfare. 3) To prepare students for further courses which require a knowledge of Micro Economics.		
Unit	Course Content	Periods
I	Price & output determination I : Perfect competition – Monopoly – Price discrimination – Monopsony & Bilateral monopoly	10
II	Price & output determination II : Monopolistic competition – Chamberlin’s approach – Product differentiation & selling cost – Excess capacity – Oligopoly – Price leadership – Dominate firm – Low cost firm – Barometric firm – Cournot’s model – Kinked demand curve – TWO person zero sum game	15
III	Alternative theories of firm: Williamson’s model of managerial discretion – Hall & Hitch Report & Full cost pricing principle – Limit pricing principle (Bains, Sylos-Labini, Modigliani & Bhagwati) – Baumol’s sales revenue maximization hypothesis	15
IV	Theories of distribution: Marginal productivity theory – Product Exhaustion Theorem – Technical progress & factor shares - Macro theories of distribution – Ricardo, Marx, Kalecki & Kaldor.	10
V	Welfare Economics: Pigo’s theory of welfare economics – Conditions of Pareto Optimality – Compensation Principle – Arrow’s Impossibility Theorem – Rawls theory of justice – Bergson & Samuelson’s social welfare function	10
Course Outcome: -		
Student will able and understand that how prices are determined in different market structure & how factor prices and limits prices are determined. They will also able to know about the various views related to welfare.		

Suggested Readings:

1. Lionel W. McKenzie (2002) Classical General Equilibrium Theory, The MIT Press.
2. Ferguson C. E. (1969) The Neoclassical Theory of Production & Distribution, Cambridge University Press.
3. Koutsoyiannis, A. : Modern Micro Economics, Macmillan Press, London.
4. Ahuja H. L : Advanced Economic Theory, S. Chand and Company, New Delhi.
5. M. Maria John Kennedy : Advance Micro Economic Theory, Himalaya Publishing House, Delhi.
6. D. Bose, A. Marimuthu: An Introduction to Micro Economics, Himalaya Publishing House, Delhi.
7. Baumol, W. J. (2000) : Economic Theory and operation's Analysis (18th edition), Prentice Hall of India Pvt. Ltd., New Delhi.
8. Stigler, G. J. (1996) : Theory of Price (4th edition), Prentice Hall of India, New Delhi.
9. Little, I.M.D.: Critique of Welfare Economics (2nd edition) Oxford University, Press.
10. Katz, M. L. and Rosen H.S. : Micro Economics, (1998), McGraw – Hill.
11. Eaton, B. Curtis, D. F. Eaton and D. W. Allen: Micro Economics (2002), Toronto Prentice Hall / Pearson.

M.A. (Economics) SYLLABUS

Course Code No.: ECO-202	No. of Credits: 04	Semester: II
Course Title:	MACRO ECONOMICS - II	
Course Objectives:		
Objective of the course is to stress on the inter-relationships between monetary, fiscal and exchange rate policies. Growth analysis is explicitly introduced in this course.		
Unit	Course Content	Periods
I	AS – AD Model: Aggregate supply curve- Monetary expansion, dynamic aggregate supply curve – Short run and Long run aggregate supply curves – Dynamic aggregate demand curve.	12
II	New Classical Macroeconomics: Monetarism – Rational expectations equilibrium approach – the equilibrium approach – the supply side economics – the new keynesianism.	12
III	Macroeconomics Policy Issues: Macroeconomics Policy Issues – Activist Policy – Rules Versus Discretion – Alternative Strategic to Reduce Inflation – Gradualism Versus Cold Turkey – The new classical approach to Fiscal policy – Unpleasant monetarist Arithmetic.	10
IV	Open Economy Macroeconomics : Mundell – Fleming model under fixed and flexible exchange rates – Policy conflicts and adjustment under fixed exchange rates – Flexible exchange rates, Money & price – J – Curve.	14
V	Growth Analysis: Sources of economics growth – Empirical Estimates of the sources of growth – neo-classical growth models – convergence – endogenous growth	12
Course Outcome:		
<ul style="list-style-type: none"> a) Understand effect of monetary expansion using aggregate supply curve b) Understand people's economic behavior, and the microeconomic foundation of macroeconomics. c) Know the limits of government to intervene in market and people's response to government policies d) Know policy conflicts in economic stabilization and money neutrality concept e) Understand determinants of the economic growth. 		

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DEPARTMENT OF ECONOMICS**

References:

- 23) Edgmand M R, Macroeconomics - Theory and Policy, PHI Publication, New Delhi.
- 24) McConnell C R and H C Gupta, Introduction to Macroeconomics, Tata McGraw– Hill Publishing Co. Ltd., New Delhi.
- 25) Turnovsky S J, Macroeconomic Analysis and Stabilization Policy, Cambridge University Press.
- 26) Oliver Jean Blanchard and Stanley Fisher, Lectures on Macroeconomics, PHI Pvt. Ltd., New Delhi.
- 27) D'souza Errol, Macroeconomics. Pearson Education, Delhi.
- 28) Harris, Monetary Economics, OVP.
- 29) Romer, David (DR), Advanced Macroeconomics, Second Edition, McGraw-Hill, International Edition (Economics Series), 2001.
- 30) Wickens, Michael (MW), Macroeconomic Theory: A Dynamic General Equilibrium Approach, 2008, Princeton University Press, Princeton and Oxford.
- 31) Lance Thylor, Reconstruction Macroeconomics, Hayward University Press, Combridge, 2004.
- 32) Ben J. Heijdra and Frederick Van DP Foundation of Modern Macroeconomics, Oxford
- 33) Barro, Robert J. and Sala – i – Martin, Xavier Economic Growth , Second Edition, Prentice Hall, India, 2014
- 34) Balanchard, Olivier Jean and Fischer, Stanley Lectures on Macroeconomics, 2000, Prentice Hall, India.
- 35) Romer, David (DR), Advanced Macroeconomics, Second Edition, McGraw-Hill, International Edition (Economics Series), 2001.
- 36) Wickens, Michael (MW), Macroeconomic Theory: A Dynamic General Equilibrium Approach, 2008, Princeton University Press, Princeton and Oxford.
- 37) Lance Thylor, Reconstruction Macroeconomics, Hayward University Press, Combridge, 2004.
- 38) Ben J. Heijdra and Frederick Van DP Foundation of Modern Macroeconomics, Oxford.
- 39) Gupta S. B., Monetavy Economics, Institutions, Theory and Policy, S. Chand & Company Ltd., New Delhi.
- 40) Rudiger Dornbusch, Stanley Fisher, Macroeconomics, Tata Mc Graw– Hill Publishing Co. Ltd., New Delhi.
- 41) Branson, W H, Macroeconomics - Theory and Policy, Harper and Row, New York
- 42) David Romer, Advanced Macroeconomics, McGraw –Hill International Edition.
- 43) Ben J.Heijdra and Fredirik Van Der Ploeg, Foundations of Modern Macroeconomics, Oxford University Press.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-211	No. of Credits:04	Semester: II
Course Title:	MATHEMATICAL METHODS	
Course Objectives:		
<ol style="list-style-type: none"> 1. To create mathematical awareness regarding economic phenomena. 2. To provide with a simple and rigorous introduction to various mathematical techniques used in economics and business. 3. To develop the economic analysis skill with mathematical tools along students. 		
Unit	Course Content	Periods
I	Limit & Continuity 1.1 Basic mathematical concepts 1.2 Limit: meaning & problems 1.3 Continuity – meaning & problems 1.4 Applications in Economics	13
II	Meaning 2.1 Rules of differentiation of one variable function with proff (4) 2.2 Higher order derivative (2) 2.3 Meaning, rules of differentiation of two variables function (2) 2.4 Partial higher order derivative, cross derivative (4) 2.5 Applications of differentiation (4)	10
III	Integration: 3.1 Meaning of integration (1) 3.2 Some basic rules of integration & problems (3) 3.3 Applications in Economics (4)	08
IV	Determinant & Matrices: 4.1 Types of Matrices (2) 4.2 Algebra of Matrices – Addition, subtraction, Multiplication, Inverse (Adjoint method) (6) 4.3 Laws – Associative, Commutative, Distributive (1) 4.4 Rank of Matrix (2) 4.5 Determinant (1) 4.6 Cramer's Rule (2) 4.7 Eigen values & Eigenvector (2) 4.8 Matrix differentiation (5)	21
V	Input – Output Analysis: 5.1 Meaning and assumptions of input – output (1) 5.2 Types of model – open, closed static, dynamic model (1) 5.3 Output for a given final demand – Leontief open and closed system (5) 5.4 Hawkin – Simon conditions (1)	08
Course Outcomes		
Student will aware regarding economic analysis mathematical techniques. Student will learn various mathematical techniques for economics interpretation		

Suggested Readings:

1. Chiang, A. C. (1986), *Fundamental Methods of Mathematical Economics*, McGraw Hill, New York.
2. Dowling. E. T., *Introduction to Mathematical Economics (2ndEdition)*, (*Schaum's Outline Series of Theory and Problems*), McGraw-Hill, USA, 1992
3. Aggarwal B.M.(2010) ,*Business Mathematics & Statistics* , Ane Books Pvt. Ltd, New Delhi
4. Bhowmik D.(2007) , *Mathematical Economics*, Himalaya Publishing House, Nagpur,
5. Monga G.S.(199), *Mathematics & Statistics For Economics*, Vikas Publishing House Pvt.Ltd. New Delhi

Additional Reading

1. Allen, R. G. D. (1974), *Mathematical Analysis for Economists*, Macmillan Press and ELBS, London
2. Yamane, Taro (1975), *Mathematics for Economists*, Prentice Hall of India, New Delhi.
3. Baumol, W. J. (1984), *Economic Theory and Operations Analysis*, Prentice Hall, Englewood Cliffs, New Jersey.
4. P.N.Mishra,(2003) ,*Quantitative Techniques for Managers*, Excel Books Private Limited, New Delhi
5. Ann J.Hughes ,Dennis E.Grawiog-*Linear Programming : An Emphasis on Decision Making*, Addison-wesley Publishing Company,Inc,London,1973
6. I.N. Bronshtein, K.A. Semendyayev,G.Musiol,H.Muehlig-*Handbook of Mathematics* ,Springer,New York, 4th Edition.
7. Baumol, W.J.(1977). *Economic Theory and Operations Analysis*, Prentice Hall.
8. Mehta & Madnani (1992). *Mathematics for Economists*, S. Chand, New Delhi.
9. Dowling. E. T., *Introduction to Mathematical Economics (2ndEdition)*, (*Schaum's Outline Series of Theory and Problems*), McGraw-Hill, USA, 1992
10. James H. Fife-*Calculus: For Business And economics*, Macmillan Publishing Co., New York.

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DEPARTMENT OF ECONOMICS
M.A. (Economics) SYLLABUS

Course Code No.: ECO-212	No. of Credits: 04	Semester: II
Course Title:	RURAL DEVELOPMENT	
Course Objectives:		
<ul style="list-style-type: none"> • The course on Rural Development attempts to sensitize students about the dynamic of changes in the rural economy. • The study of problems faced by rural population and also includes the critical review of various schemes and projects that benefit the rural population. • Emphasis may be laid on the study of rural development as an integral part of overall socioeconomic development. The treatment of topics shall be in the context of Indian economy and society. 		
Unit	Course Content	Periods
I	1.0 Nature and scope of rural development 1.1 Concept, Scope, Objectives and Indicators of Rural Development 1.2 Characteristics of Rural Economy of India. Rural Urban linkages and disparity. 1.3 Approaches to rural development. Dualistic models of Development, Gandhian model.	10
II	2.0 Special Programmes and Schemes for Rural Development in India 2.1 Integrated Rural Development Programme (IRDP) 2.2 Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) 2.3 Pradhan Mantri Gramin Sadak Yojana (PMGSY) 2.4 Swarnjayanti Gram Swarojgar Yojna (SGSY) 2.5 Training Rural Youth for Self Employment (TRYSEM)	15
III	3.0 Rural Poverty in India 3.1 Concept, types and measurement of poverty 3.2 Cases of poverty and Review of Poverty Alleviation and Employment Generation Programmes in India. 3.3 Rural Unemployment – Concept, Measurement and Types of Unemployment 3.4 Rural Development Strategies in India.	10
IV	4.0 Rural Credit in India 4.1 Role of National, Regional, Rural, Cooperative and Private Sector Bank in Rural Development in India 4.2 Rural Schemes: Kisan Credit Card, Crop Insurance, Jandhan Yojana. 4.3 Rural Financing : Co-Operative Financing, Regional Rural Banks, NABARD 4.4 Rule of Government for Rural Credit in India	10
V	5.0 Diverfication of Rural Economy 5.1 Characteristics of rural economy, scope, nature & role I rural development 5.2 Agriculture sector: conceptualization, scope, objectives, importance, indicators, role of agricultural and allied sector in rural India. 5.3 Industrial sector: nature, scope, importance, role of small scale industries in rural economy. 5.4 Service sector: definition, scope, kinds of service sector: communication, energy, transport, market, irrigation.	15
Course Outcomes:		
1. Students will understand the dynamics of the rural economy. 2. Students will understand the objectives of various schemes for rural development.		

Suggested Readings:

1. Datt & Sundharam, (2016); "Indian Economy", S. Chand & Co., New Delhi, 68th New Delhi, 2016.
2. "Indian Rural development Report 2012-13", Orient Blackswan Pvt., Ltd., New Delhi, 2013.
3. Vasant Desai (2013); "Rural Development in India – Past, Present & Future", 2nd Edition, Himalaya Publishing House, Mumbai.
4. Satya Sundaram (2013); "Rural Development", Himalaya Publishing House, Mumbai.
5. "Twelfth Five Year Plan, 2012-17", Vols. 1-3, Ministry of Finance, Government of India, OUP, New Delhi.
6. Bhalla G. S. (1994); "Economic Liberalization and Indian Agriculture (Ed)", Institute for Studies in Industrial Development, New Delhi.
7. Maheshwari S. R. , "Rural Development in India", Sage Publications, New Delhi.

Additional Readings:

1. "Annual Reports: Ministry of Rural Development", Government of India.
2. Periodicals Yojna (Marathi) Yojna (English) Kurukshetra (English)
3. "All Published by Publications Division", Ministry of I & B, Government of India, New Delhi.
4. "Economic & Political Weekly", Mumbai.
5. Mishra & Puri, "Indian Economy", Himalaya Publishing House, Mumbai.
6. Shakuntala Devi, "Rural Credit and Agricultural Development", Scrap & Sons, New Delhi 1996.
7. "Economic Survey", Government of India.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-213	No. of Credits: 04	Semester: II
Course Title:	HISTORY OF ECONOMIC THOUGHTS	
Course Objectives: The students should be aware about the history of economic thought in India.		
Unit	Course Content	Periods
I	Indian Economic Thoughts: Kautilya Economic thought, Economic thoughts of Mahatma Phule, Chh. Shahu Maharaj, Dabhai Naoroji, M. G. Ranade, G. K. Gokhale etc.	15
II	Economic Thoughts of M.K.Gandhi & Pt.J.Nehru : Economic ideas of Mahatma Gandhi (Swadeshi, Trusteeship, Gram Swaraj, Sarvodaya, Self-contained Community etc), Nehruian Model of Development etc.	15
III	Economic Ideas of Dr. B .R. Ambedkar : Agrarian Reforms, State Socialism, Labour Reforms, Women Empowerment, Water Management, Economic Democracy, Problem of Rupees etc.	10
IV	Modern Economic Ideas: P.C.Mahlanobis, P.R.Brahmananda – D.R.Gadgil – V.M.Dandekar – Punjabrao Deshmukh, Yashwantrao Chavan, Vasantnao Naik etc.	10
V	Accent Indian Economic Thinkers – III A.K.Sen – Jagdish Bhagwati – Dr. Manmohan Sing etc.	10
Course Outcome: Students will understand the ideas of eminent Indian thinkers regarding economic development and about how it should be attained.		

Books Recommended:

1. Ambedkar B.R.: B. Ambedkar's Writings & Lecturers, Vol. No. 3.4.5.
2. Bhagchi . K., Political Economy of Underdevelopment.
3. Economic Philosephy, Joan Reobinson, The Political Economy of Capitalism.
4. Jaffery Kay, 'Development and Under Development'.
5. Jotiba Phule, 'Gulamgiri'.
6. Lenin and Imperialism in Appraisal of Theories and Commeporary Reality by
7. Lenin V. I. Imperialism: The Highest Stage of Capitalism
8. Mathur & Mathur: Economics Thoughts of Mahatma Gandhi.
9. Paritumayadam Vishalandra Publications – Chalasoni.....
10. Political Economy: S. Dzarasor, A. K..... A Short Course (Progress Publishers)
11. Prabhat Painaik, Whatever Happened to Imperialism.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-214	No. of Credits: 04	Semester: II
Course Title:	INSURANCE ECONOMICS	
Course Objectives:		
<p>The vital role of insurance in the task of risk bearing and risk elimination in the economic affairs has not been appreciated adequately in our country. Given that the element of risk or uncertainty is a universal and fundamental phenomenon in our economic life, the importance of insurance as a means of reducing uncertainty and risk in regard to personal and business activities cannot be overemphasized. Insurance industry is an important constituent of financial services industry in India and is a major investment institution. This paper attempts to give a fairly comprehensive view of the subject to the postgraduate students in economics.</p>		
Unit	Course Content	Periods
I	Risk & uncertainty, nature and source of risk, concept of risk, classifications of risk, concept of risk management, demand for insurance, nature of insurable risk.	10
II	Definaiton of insurance, risk palling and risk transfer, social Vs. private insurance, classification of insurance , risk management and insurance in economic development, insurance institution as financial intermediaries; investment institutions; institutions in capital market.	15
III	Insurance contract. Principles of insurance contract, legal aspects of insurance policy, the agent and their functions.	10
IV	Importance of life insurance, various plans of life insurance, performance of life insurance sector in India, types of general insurance, importance and performance of general insurance in India.	10
V	Historical framework of insurance business in India, consumer protection and insurance sector reforms, legal frame work of insurance business and role of IRDA.	15
Course Outcomes:		
<ul style="list-style-type: none"> • Understand the concept of risk management. • Know the legal aspects of insurance policy. • Understand the functions of insurance company. • Understand the regulatory framework for insurance industry in India. 		

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Suggested Readings:

- 1) Bailey R. (Ed.) (1999), Underwriting in Life and Insurance, LOMA, Atlanta, Ga.
- 2) Benkamin B. General Insurance.
- 3) Bhole L.M., (1990), The Indian Financial System, Tata McGraw Hill, New Delhi.
- 4) Bickelhaupt D.L.(1992), General Insurance, Irwin Inc., Burr Ridge, III.
- 5) Black K. J. and Skipper H.R. Jr. (2000), Life and Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.
- 6) Dionne G. and S.E. Harrington (Eds.) (1997), Foundations of Insurance Economics, Kluwer Academic Publishers, Boston.
- 7) Finsinger J. and Pauly M.V. (Eds.) (1986), The Economics of Insurance Regulation: A Cross national study., Macmillan, London.
- 8) Graves E.E. and Hayes L.A. (Eds.) (1994), McGill's Life Insurance, The American College, Blyn Mawr, Pa.
- 9) Gupta P. K. (2008), Insurance and Risk Management, Himalaya Publishing House, Delhi.
- 10) Gupta P. K. (2008), Fundamentals of Insurance, Himalaya Publishing House, Delhi.
- 11) Sahoo S. C. and Das S. C. (2009), Insurance Management (Text and Cases), Himalaya Publishing House, Delhi.
- 12) Skipper Jr. H.D. (Ed) (1988), International Risk and Insurance: An environmental Managerial Approach, Irwin McGraw Hill, Boston.

Additional Readings:

- 1) Desai G. R. (1973), Life Insurance in India – Its History and Dimensions of Growth, Macmillan India Ltd.,
- 2) Fredric G. Crane(1980), Insurance Principles and Practice, Johan Wiley.
- 3) Kaushal and Mohanty, (2002), Insurance Law Manual, Universal Law Publishing Co. Pvt. Ltd.
- 4) Muller – Lutz (1966), Basic Principles of Insurance Management, International Insurance Mnitior, N. Y.
- 5) Jorg Finsinger and Mark V. Pauly (1986), The Economics of Insurance Regulation, Macmillion Press Ltd.
- 6) Periasamy P. (2003), Principles and Practice of Insurance, Himalaya Publishing House, Delhi
- 7) Srivastava D. C. (2002), Indian Insurance Industry – Transition and Prospects, New Century Publications, Delhi.
- 8) Vaughan and Vaughan (2002), Essentials of Risk Management and Insurance, John Wiley and Sons Inc.
- 9) IRDA Annual Report, 2001-02

Web Resources:

- 1) www.indiainfoline.com
- 2) www.insuremagic.com
- 3) www.bimaonline.com
- 4) www.insure.com
- 5) www.irdaindia.org
- 6) www.insuranceinstituteindia.com

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M.A. (Economics) SYLLABUS

Course Code No.: ECO-215	No. of Credits: 04	Semester: II
Course Title:	INTERNATIONAL MONETARY ECONOMICS	
Course Objectives:		
<p>This course requires an understanding of the basics of international economics. The course deals with the monetary aspects related to international economic transactions between countries. The course throws light on the basics of balance of payments and various approaches to correcting disequilibrium in balance of payments. It also deals with the important activities in the foreign exchange market. The course offers an insight into issues related to international movements of capital and international banking. It gives the students an understanding about the evolution of the international monetary order.</p>		
Unit	Course Content	Periods
I	Nature and Concept of Balance of Payments: Equilibrium and disequilibrium in balance of payments – expenditure reducing and expenditure switching policies – Elasticity, absorption and depreciation approach – Monetary approach to the Balance of payments- Balance of Payments Multiplier	12
II	The Foreign Exchange Market: The demand for and supply for foreign exchange – fixed, flexible and floating exchange rates – spot and forward market-speculation and arbitrage. Foreign exchange swaps – futures and options – the law of one price	11
III	The Evolution of the International Monetary order – the Bretton Woods System – Problems of international liquidity and the role of SDRs, Flexible exchange rates as an international monetary order – Changing role of IMF – IMF conditionalities – World Bank and Structural Adjustment Loan Facility	15
IV	International Banking: Trends in international banking – types of international banking activities – historical evolution of international banking – effects of international banking – difficulties in regulating international banking – the future of international banking	12
V	International Capital Movements: Long term and Short term capital movements - controversy regarding order in opening up of current and capital accounts - External debt versus Foreign direct investment - Balance of Payments crises and capital flight	10
Course Outcome :-		
<ul style="list-style-type: none"> • Student will get in depth knowledge of monetary aspect of international Economic transaction • Student will understand the basic of balance of payment • Student will get an insight into issues related to international capital movement and about the international monetary order. 		

Basic Reading List:

- 1) Ramsaran Ramesh (1998), An Introduction to International Money and Finance Palgrave 1st Edition, Macmillan
- 2) Stern R. M. (2007), Balance of Payments: Theory and Economic Policy, Aldine Transaction.
- 3) Apte P. G. (2003), "International Finance: A Business Perspective", Tata McGraw Hill, New Delhi.
- 4) Heller H. R. (1974), International Monetary Economics, Prentice-Hall, Englewood Cliffs, NJ
- 5) Chacholiades, M (1990), "International Trade; Theory and Policy", McGraw Hill, Kogakusha, Japan.
- 6) McCallum Bennett T. (1996), International Monetary Economics, Oxford University Press, New York.
- 7) Kernin and Officer (1981), The Monetary Approach to the Balance of Payments: A Survey, The Review of Economics and Statistic, The MIT Press, VOL. 63, No. 1, February, pp. 29-34
- 8) Kenen, P.B. (1994), the International Economy, Cambridge University Press, London.
- 9) Mukherjee Smriti, Capital Account Liberalization & Flexible Exchange Rate
- 10) Salvatore, D. (1997), "International Economics", Prentice Hall, Upper Saddle River, N.J., New York.

Additional Readings:

- 1) Agarwal Ramgopal (2003), Towards A Multipolar World of International Finance, Dr. S. N. Memorial Lecture, the 86th Conference of the Indian Economic Association, Shivaji University, Kolhapur.
- 2) Bhagwati Jagdish (1998), The Capital Myth, Foreign Affairs 77, May-June
- 3) Cassel Gustav (1921), The World's Monetary Problems (London: Constable), pp. 28; quoted in Frankel and Johnson(Eds), The Economics of Exchange Rates (Reading, Mass: Addison-Wesley, 1978).
- 4) IMF (2000), Capital Controls: Country Experiences with their use and liberalization, Washington DC
- 5) Manohar Rao M. J. (1997), Macro Economics of Capital Account Convertibility, Economic and Political Weekly, Dec. 20-26
- 6) Rangrajan C. (2000), Capital Flows: Another Look, Economic and Political Weekly, December 9

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M.A. (Economics) SYLLABUS

Course Code No.: ECO-216		No. of Credits: 04	Semester: II
Course Title:		LABOUR ECONOMICS	
Course Objectives:			
Objective of the paper is to give idea about various issues in labour market.			
Unit	Course Content	Periods	
I	Conceptual Issues: Definition, basic issue of labour force – Determinations of labour force participation – Male, female and child work participation in India – Employment: concept, measurement - unemployment: types, rates and composition, causes and effects – migration: internal and international migration.	12	
II	Labour Market: Competitive and non- competitive markets – the segment labour market – formal and informal labor market – dualism and segmentation – impact of privatization – report of second labour commission on various aspects of labour market.	12	
III	Wage Determination : The determination of wages, wage structure and components of wages – share of wage distribution and inequality of wage income – gender and intersectoral wage differentials.	12	
IV	Demand for labour: Demand for labour in short and long run – the determinants of labour demand – Impact of technological change on labour: mechanization, automation, new technology – Impact of globalization of an labour	12	
V	Trade Unions: Evolution and role of trade unions - origin structure and growth of trade unions – Impact of unions on productivity and efficiency - Employment security and efficiency – The role and functions of ILO.	12	
Course Outcome :-			
Students will understand the various facts of labour market, wage determination and the role of trade unions			

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DEPARTMENT OF ECONOMICS**

References:

- 1) Amin, Ash (Ed) (1994) 'Post – Fordism – A Reader', Blackwell, Oxford.
- 2) Bhagoliwal T. N. (1985), 'Economics of Labor and Industrial Relations', Sahitya Bhawanm Agra.
- 3) Cahuc Pierre and Andre Zylberberg (2004), 'Labour Economics', MIT Press, Massachusetts.
- 4) Government of India (2002), 'Ministry of Human Resource Development', Report of Second National Commission of Labour.
- 5) Hicks J. R. (1932), 'The Theory of Wages', Clarendon Press, Oxford.
- 6) Monappa, Arun (1985), (28th Reprint, 2005) 'Industrial Relations' Tata McGraw Hill, New Delhi.
- 7) Pencavel, John (1991), 'Labour Markets under Trade Unionism Employment Wages and Hours', Basil Blackwell, Cambridge, Massachusetts.
- 8) Rees, Albert (1973), 'The Economics of Trade Unions' (3rd Ed), University of Chicago Press, Chicago.
- 9) Sapsford David and Zafiris Tzannotos (1993), 'The Economics of Laboru Market', Macmillan, Londaon.
- 10) Singh Jwitesh Kumar (1998), 'Labour Economics', Deep and Deep Publishers, Delhi.

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M.A. (Economics) SYLLABUS

Course Code No.: ECO-217		No. of Credits: 04	Semester: II
Course Title:		GENDER ECONOMICS	
Course Objectives: Gender biases have prevailed in most of the social sciences, and economics is no exception. These biases have contributed to a neglect of women's role in the economy, and the way in which women are affected by economic development. Recent work in women's studies goes some way in correcting these biases, which is a first step in a new conceptualisation of economic development and economic policy whereby persistent gender inequalities may be redressed. In this course an attempt is made to introduce the student to this body of work.			
Unit	Course Content	Periods	
I	Basic Concepts Concepts of gender and patriarchy. Gender bias in theories of value, distribution and population. Gender critique of household, individual, family as economic unit. Importance of kinship: Patrilineal and matrilineal systems and their relevance in modern Indian society and economy. Women's role in production and reproduction; women's access to land and other productive assets; women's role in decision-making.	12	
II	Women's Work Conceptual approaches to women's work: productive and unproductive work in economic theory and its critique; visible and invisible work, paid and unpaid work, home-based work, socially productive work, women's work in reproduction. Women and caste-based division of labour. Economic status and work participation of women in pre-industrial and industrial societies. Women's contribution to national income. Women's work participation in Indian Census.	12	
III	Women and Labour Markets Factors affecting women's entry into the labour market. Supply of and demand for female labour in developed and developing economies. Trends in female work participation rate in India. Gender-based wage differentials across regions and economic sectors.	12	
IV	Women, Technology and Development Impact of technological development and modernization on women's work in agriculture, non-agriculture rural activities, cottage industry and organized industry.. New technologies and women's productive and reproductive role.	12	
V	Women and the Environment Women's role in sustaining the environment: sustainable agriculture, food security, women in fishing, forests, etc. Impact of ecological changes on women. Eco-feminism: Vandana Shiva's views on Green Revolution, limits of eco-feminist approach.	12	
Course Outcome :-			

Suggested Readings:

a) Required Reading:

1. Bhasin, Kamla and Khan, Nighat Said, (1986), Some Questions on Feminism and its Relevance in South Asia
2. Raj, Maithreyi Krishnaraj, R.M. Sudarshan and A. Shariff (1999), Gender, Population and Development, Oxford University Press, New Delhi.

b) Further Reading:

1. Singh, Andrea M., and Anita K. Vitann, (eds) (1987), Invisible Hands: Women in Home-based Production, Sage.
2. Goldschmidt-Clermont, Luisetta (1985), Unpaid Work in the Household
3. Secombe, Wally (1973), Housework and Surplus Value under Capitalism, *New Left Review*
4. Boserup, E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
5. Raj, Maithreyi Krishnaraj (1988), Women and Development, Indian Experience, Oxford University Press, New Delhi.
6. Seth, M. (2000), Women and Development, Indian Experience, Sage, New Delhi.
7. Venkateswaran, S. (1995), Environment, Development and the Gender Gap, Oxford University Press, New Delhi.

Additional Readings:

1. Papola, T.S. and A.N. Sharma eds. (1999), Gender and Employment in India, Vikas Publishing House, New Delhi.
2. Chenery, H.B. and T.N. Srinivasan (eds.) (1988), Handbook of Development Economics, North-Holland, Amsterdam.
3. Ahmed, I. (ed.) (1985), Technology and Rural Women: Conceptual and Empirical Issues, George Allen and Unwin, London.
4. Jhabvala, Rehana and R.K. Subramanya (eds.) (2000), The Unorganised Sector: Work Security and Social Protection, Sage, New Delhi.
5. Carr, M.C. and R. Jhabvala (eds.) (1997), Speaking Out: Women's Economic Empowerment in South Asia, Vistaar Publications, New Delhi.
6. Agarwala, Bina (1994), A Field of ne's Own, Gender and Land rights in South Asia, Cambridge University Press.
7. Mies, Maria (1986/1998), Patriarchy and Accumulation on a World scale: Women in the International Division of Labour, Zed Books, London.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-218	No. of Credits:04	Semester: II
Course Title:	RESEARCH METHODOLOGY	
Course Objectives:		
1.To provide tools for scientific research work.		
2.To understand concepts and theories related to research in social sciences.		
3.To provide scientific thinking techniques among the students		
Unit	Course Content	Periods
I	Basic concepts in Research 1.1 Theory, facts and concepts ,variables Objectives (3) 1.2 Research Problem 1.3 Hypothesis 1.4 Types of errors 1.5 Ideal Research	12
II	Research Methods in Social Sciences 2.1 Conceptual, empirical method 2.2 Case study method 2.3 Survey method 2.4 Types of research- Descriptive, analytical, applied, fundamental, quantitative, qualitative research , diagnostics	10
III	Data Collection , Classification and Tabulation 3.1 Methods of primary data collection 3.2 Methods of secondary data collection 3.3 Classification of data 3.4 Tabulation of Data 3.5 Reliable secondary web resources	9
IV	Data Presentation 5.1 One- dimensional diagrams 5.2 Two- dimensional diagrams 5.3 Three- dimensional diagrams 5.4 Graphs of time series 5.5 Graphs of frequency distribution	15
V	Sampling 5.1 Census and sample & determination of sample size 5.2 Deliberate sampling, simple random sampling 5.3 Systematic sampling, stratified sampling 5.4 Quota sampling, cluster sampling 5.5 Area sampling, multi-stage sampling	14
Course Outcomes:		
1. Students will get equipped with the basic research tools in social science research.		
2. Students will get hand on experience in the use of software for data analysis.		

Suggested Reading

1. Kothari C.R.(1988) Research Methodology Method and Techniques, Wiley Eastern Limited ,New Delhi
2. Kothari C.R. : Quantitative Techniques, Vikas Publishing House Pvt., Ltd New, Delhi, 1984.
3. Ghosh, B.N. : Scientific Methods and Social Research, Sterling Publishers Pvt. Ltd, New Delhi, 1982.
4. Gopal M.H. : An Introduction to Research Procedure in Social Sciences, Asia Publishing House, Bombay, 1964.
5. Hans Raj : Theory and Practice in Social Research Surjeet Publication, New Delhi, 1979.
6. Sadhu A.N. and Singh Amerjet : Research Methodology in Social Sciences, Himalaya Publishing House, Bombay, 1980.
7. Tandon B.C. : Research Methodology in Social Science, Chaitanya Publishing House, Allahabad, 1979.
8. Gupta S.P(1988) –Statistical Methods- Sultan Chand & Sons , Delhi ,

Recommended Readings

1. Cochran W.G. : Sampling Technique, John Wiley and Sons, New York, 1963.
2. Goode William J. and Hatt, Paul, Methods in Social Research, McGraw Hill, New York, 1952.
3. Wilkinson T.S. and Bhandarkar P.L. : Methodology and Techniques of Social Research, Himalaya Publishing House, Bombay 1979.
4. Gupta S.C. : Fundamentals of Statistics, Himalaya Publishing House, Bombay, 1981.
5. Yamane, Raro : Statistics : An Introductory Analysis, Harper and Row India and John Weather Hill Inc. Tokyo, 1973.
6. Croxton F.E., Cowden D.J. and Klein : Applied General Statistics, Prentice Hall of India Pvt. Ltd., New Delhi, 1973.
7. Rerber R. and Verdoorn P.J. : Research Methods in Economics and Business, The Macmillan Company, New York, 1962.
8. Klein Lawrence R. : An Introduction to Econometrics, Prentice Hall Inc, Englewood Cliffs, N.J. 1962.
9. Draper N. R. and H. Smith, Applied Regression Analysis, John Wiley and son Inc, New York, 1967.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-301	No. of Credits: 04	Semester: III
Course Title:	INDIAN ECONOMIC POLICY - I	
Course Objectives:		
To provide information about the Indian Economy to the students. They should also be able to know the intersectoral relationship of the various sectors of the Indian Economy.		
Unit	Course Content	Periods
I	Basic Economic Indicators and Concepts: National income Sector wise performance, Limitation and per capital income, Sustainable Development, National Human Development Report etc.	12
II	Demographic features:- Broad-demographic features, Concept of the Indian population, Juvenile ratio, Distribution of population of India, Demographic deident, Urbanization, Population Policy – 2000, Census 2011	14
III	Problems of the Indian Economy :- Poverty, inequality and unemployment (Land, Forest, Weather, Fishers, Minerals etc), Inter – state disparities National Resource in economic growth, Right to Education Act 2009, Parial Economy RUSA, National hazards and migration.	12
IV	India's New Economic Policy Since 1991 :- Economic crisis of 1990-91. stabilization and structural reforms - The IMF-World Bank Model, Two decadeal performance of LPG programme.	12
V	Social Approaches in Indian Economy:- National Health Mission in India, Social infrastructural (Education, Health), Policy for weaker section's – SC, ST, OBC, DNT & Minority, women etc.	10
Course Outcomes:		
Students will get an in-depth understanding of the policies formulated of the development of India. Student will learn the political economy of reforms.		

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

Basic Reading List:

1. Ahluwalia I. J. and I. M. D. Little (Eds.) (1999) India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
2. Bardhan P K. (9th Ed.) (1999) The Political Economy of Development in India, Oxford University Press, New Delhi.
3. Bawa, R. S. and P. S. Raikhy (Ed) (1997) Structural Changes in Indian Economy, Guru Nanak Dev University Press, Amritsar.
4. Bhahmananda, P. R. and V. T. Panchmukhi (Ed) (2001) Development Experience in Indian Economy Inter – State Perspectives, Bookwell, Delhi.
5. Chakravarty, S. (1987) Development Planning: The Indian Experience, Oxford University Press, New Delhi.
6. Dantwala, M. L. (1966) Dilemmas of Growth The Indian Experience, Sage Publications, New Delhi.
7. Datta R. (Ed.) (2001) Second Generation Economic Reforms in India, Deep and Deep Publications, New Delhi.
8. Government of India, Economic Survey (Annual) Ministry of Finance, New Delhi.
9. Jain A. K. (1986) Economic Planning in India, Ashish Publishing House, New Delhi.
10. Jalan B. (1996) India's Economic Policy – Preparing for the Twenty First – Century Viking, New Delhi.
11. Joshi V. and I. M. D. Little (1999) India, Macro Economics and Political Economy, 1964-1991, Oxford University Press, New Delhi.
12. Parikh K. S. (1999) India Development Report 1999-2000, Oxford University Press, New Delhi.
13. Reserve Bank of India, Report of Currency and Finance (Annual).
14. Sandesara J. C. (1992) Industry Policy and Planning 1947-1991: Tendencies Interpretations and Issues, Sage Publications, New Delhi.

Dr. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS
M.A. (Economics) SYLLABUS

Course Code No.: ECO --302	No. of Credits: 04	Semester: III
Course Title:	PUBLIC ECONOMICS	
Course Objectives:		
This course brings out the role of modern state in a market oriented economy. This course offers an introduction to taxonomy of economic goods. It deals with the theory of taxation and public expenditure and aims at laying down the foundation of theory of public finance with a special unit devoted to budget economics. The course is designed to enable students to understand the practice of public economics with the help of principles of public economics.		
Unit	Course Content	Periods
I	Economic Rationale of the Modern State Rationale of State intervention- issues related to market failure and need for state intervention- externalities- the role of state in Allocation, Distribution, Regulation, Stabilization and in the Information sector - Individual and social welfare- Arrow's impossibility theorem- The Leviathan hypothesis	12
II	Economic Analysis of Public Goods: Pure and impure public goods, optimal provision of public goods –merit goods-voting and public choice–preference revelation mechanism – Lindahl equilibrium- free riding - The theory of clubs- public goods and the private cost of public goods - The global fiscal commons-The emergence of tax havens	14
III	Theory of Taxation: The conflict between efficiency and equity Horizontal and vertical equity- Shifting and incidence of tax: The Harberger Model, Canons of Taxation, theory of optimal taxation, Taxation and economic efficiency, Principles of efficient international taxation – The Tobin Tax	12
IV	Theory of Public Expenditure: Pure theory of public expenditure Canons of public expenditure Public sector pricing, Public expenditure management and control.	07
V	Economic Principles of the Government Budget: Basics of Budget Economics: Types of budgets, scope and Importance of Budget -Determination of efficient Budget size, Definition and major components of tax and non- tax revenue , Deficit Financing and its implications: Crowding out, Money supply and price level Public Debt Burden and Intergenerational Equity The concept of Sovereign Debt	15
Course Outcome :-		
<ul style="list-style-type: none"> • Student will understand the role of modern state in a market oriented Economy. • Student will be able to understand scientific classification of Economic growth • The Course will lay ... foundations of theory of Public Finance. 		

Basic Reading List:

- 1) Musgrave R.A. (1959), The Theory of Public Finance, McGraw Hill, Kogkusha, Tokyo
- 2) Musgrave R.A. and P.B. Musgrave (1976) , Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo
- 3) Buchanan J.M. (1970), the Public Finances, Richard D. Irwin, Homewood, Illinois.
- 4) Rao Rakshit (Ed.) (2011), Public Economics: Theory and Policy, Sage, NIPFP, New Delhi
- 5) Carnes and Sandler (1996), The Theory of Externalities, Cambridge University Press.
- 6) Peacock A. and D.J. Robertson (Eds) (1963), Public Expenditure: Appraisal and Control, Oliver and Boyd, Edinburagh.
- 7) Davie and Duncombe (1972), Public Finance, Rinehart and Winston, Inc New York.
- 8) Myles Gareth (1995), Public Economics, Cambridge University Press.
- 9) Auerbach, A. and M. Feldstein (1987), Handbook of public Economics, Vol. 1 and 2, North Holland, Amsterdam.
- 10) Johansen Leif (1965), Public Economics, North-Holland Publishing Company, Amsterdam.
- 11) Laffont, Jean- Jacques (1994), Fundamentals of Public Economics, MIT Press Cambridge, Mass.
- 12) Rosen, Harvey S. (1995), Public Finance 4th Edition, Richard D. Irwin, Chicago.
- 13) Thompson. F and Green, M.T. (1998), Handbook of Public Finance, Marcle Dekker, New York.

Additional Readings:

- 1) Evandoru Maria, Glennester H. and J. Hills (1998), *The State of Welfare and the Economics of Social Spending*, Oxford University Press, London.
- 2) Ferguson J.M. (Ed) (1994), *public Debt and future Generation*, North Colombia University Press, Chapel Hill.
- 3) Friedman, A. (1986), *Welfare Economics and Social Choice Theory*, Martins Nijhoff, Boston.
- 4) Buchanan J.M. (1958), *Public Principles of Public Debt: A Defense and Restatement*, Richard D Irwin, *The Collected Works of J M Buchanan*, Vol.2.
- 5) Goode R. (1986), *Government Finance in Developing Countries*, Tata McGraw Hill, New Delhi.
- 6) Hockley G. (1992), *Fiscal Policy: In Introduction*, Routledge.
- 7) Jha Raghendra (2010), *Modern Public Economics*, Routledge London.
- 8) Menutt P. (1996), *The Economics of Public choice*, Edward Elgar U.K.
- 9) Peacock A and G.K. Shaw (1976), *The Economic Theory of fiscal Policy*, George Allen and Unwin, London.
- 10) Shaw G.K. (1972), *Fiscal Policy*, Macmillan Studies in Economics.
- 11) Duff L. (1997), *Government and Market*, Orient Longman, New Delhi.
- 12) Alan Peacock (1979), *The Economic Analysis of Governments*, St. Martin Press, New York.
- 13) Atkinson, And Stigilitz, J (1980), *Lectures in Public Economics*, McGraw Hill, London.
- 14) Boadway, R. (1984) *Public Sector Economics* 2nd Sub edition, Scott Foresman and Co. London.
- 15) Cullis, J. and Jones, P. (1998), *Public Finance and public Choice*, 2nd Edition Oxford University press, Oxford.
- 16) Due, John F. and Friedlander, Ann F. (1977), *Government Finance: Economics of the Public Sector*, 6th Edition, Tichard D, Irwin Inc., Homewood.
- 17) Helpman, E, Razin, A and Sadka, E. (1988) Editors, *Economics Effects of the Government Budget*, MIT Press, Cambridge, Mass.
- 18) Stiglitz, J.E. (1989), *Economics of the Public Sector*, W.W. Norton and Company, London.
- 19) World Bank (1996), *From Plan to Market*, World Development Report, the World Bank, Washington DC.
- 20) World Bank (1997), *the State in a Changing World*, World Development Report, The World Bank, Washington DC.
- 21) World Bank (1996), *Knowledge for Development*, World Development Report, The World Bank, Washington DC.
- 22) Agno Sandmo (1976), *Optimal Taxation: an Introduction to Literature*, *Journal of Public Economics*, 6, pp 37-54.
- 23) Blejer, M and Adrienne, C. (1993): *How to Measure the Fiscal Deficit*. International Monetary Fund, Washington DC.
- 24) Blejer, M. I. and Adrienne C *Measurement of Fiscal Deficit, Analytical and Methodological Issues*, *Journal of Economic Literature*, 29(4); 1644-78.
- 25) Buitter W.H. (1990), *Principles of Budgetary and financial Policy*, Harvester Wheatsheafhm, New York.
- 26) A.C., 1962. *The incidence of the corporation income tax*. *Journal of Political Economy* 70(3). 215-240.
- 27) James M. Buchanan (1965), *An Economic Theory of Clubs*, *Economic, New Series*, VOL. 32. NO.125.pp.1-14.
- 28) Samuelson Paul A. (1954) *The Pure Theory of Public Expenditure*, *Review of Economics and Statistics*, 387-389.
- 29) Samuelson Paul A. (1955), *A Diagrammatic Exposition of the Theory of Public Expenditures*. *Review of Economics and Statistics* (Nov.)

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-303	No. of Credits: 04	Semester: III
Course Title:	Indian Economy	
Course Objectives:		
Objective of this course is to provide a study of some important issues concerning Indian Economy and to increase the knowledge students of various policy initiatives and basic concept of Indian Economy.		
Unit	Course Content	Periods
I	Planning in India: Evaluation of the objectives and strategy of planning, 12 th plan, Achievements and failures of the plans, 73 rd – 74 th constitutional amendment: Rural and Urban local self government, National Institution for Transforming India (NITI Aayog), National Commission for Denotified and Nomadic tribes in India.	14
II	The Agricultural Sector: Agrarian crisis in India, Agricultural Policy 2000, Farmer Policy 2007, Agricultural Subsidies, Rural indebtedness, Food security, Land reforms, Land acquisition Bill etc.	10
III	The Industrial Sector: Role public and private sector in Indian economy and employment New Industrial Policy: 2002, Exim policy (FEMA), manufacturing Hub, disinvestment Policy in India, Special Economic Zone etc.	14
IV	The External Sector: Recent trends in India's balance of payments, Full convertibility of rupee, Foreign capital, FDI, Role of multinational companies in India, Infrastructural and development (Education, Health, parallel economy energy), Corruption in India, Policy to control parallel economy etc.	14
V	The Financial Sector: The Impact of Demonetization on Indian Economy, Monetary & Fiscal Policy, Global Recession: It's impact on Indian economy (Agri., industry, employment and share market)	08
	Course Outcomes: Student will be able to analyse policies formulated for different sectors in the Indian Economy and their impact on growth performance of India.	

***Suggested Readings:**

- 1) Mishra & Puri – Indian Economy, Himalaya Publishing House, New Delhi.
- 2) Baldev Raj Nayar (2007), “Globalization Nationalism”, (Sagar Publication, New Delhi.)
- 3) Suresh D. Tendulkar and T. A. Bhavani (2007), “Understanding Reforms 1991 India” New Delhi
- 4) Government of India (2008), “Planning Commission, Eleventh Year Plan 2007-12”, Volume III Delhi.
- 5) G. S. Bhalla (2007), “Indian Agriculture Since Independence”, (National Book Trust, New Delhi)
- 6) V. S. Vyes (2003), “India’s Agrarian Culture, Economic Policies and Sustainable Development”, (New Delhi)
- 7) C. Rangaroyan (2002), “Paradigm shifts in industry policy”.
- 8) Biplab Dasgupta (2006), “Globalization India’s Adjustment Experience”, (Sage Publication, New Delhi)
- 9) Vijay Joshi and I.M.D., (2008) “Little India’s Economic Reforms 1991-2001”, New Delhi.
- 10) Gupta, S.P. (1989), “Planning and Development in India: A Critique”, Allied Publishers Private Limited, New Delhi.
- 10) Bhagwati Jagdish (2004): “In Defense of Globalization”, Oxford University Press U.K.
- 11) Government of India (2005), “Economic Survey”, (2004-05)
- 12) Meenakshi, S. (1994), “Decentralization in Developing Countries”.
- 13) Datt, and Sundaram, K.P.M.(2004), “Indian Economy”, S.Chand & New Delhi.
- 14) Dr. V.M.Gowilkar (2009), “Intellectual Property Rights”, Diamond Publication, Pune.
- 15) I. Satya Sundaram (2009), “Rural Development”, Himalaya Publishing House, Nagpur.

Additional Readings:

- 1) Vijay Joshi and I.M.D., (2008) “Little India’s Economic Reforms 1991-2001”, New Delhi.
- 2) Gupta, S.P. (1989), “Planning and Development in India: A Critique”, Allied Publishers Private Limited, New Delhi.
- 3) Government of India (2005), “Economic Survey”, (2004-05)
- 4) Meenakshi, S. (1994), “Decentralization in Developing Countries”.
- 5) Datt, and Sundaram, K.P.M.(2004), “Indian Economy”, S.Chand & New Delhi.
- 6) I. Satya Sundaram (2009), “Rural Development”, Himalaya Publishing House, Nagpur.

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M.A. (Economics) SYLLABUS

Course Code No.: ECO-311	No. of Credits: 04	Semester: III
Course Title:	ECONOMETRICS - I	
Course Objectives:		
The objective of this course is to operationalize empirically economic theory and test economic theory. Its objective is also to predict future movements in the economic variable of interest on the basis of econometric model.		
Unit	Course Content	Periods
I	Nature, meaning, definition and scope of econometrics, regression model, reasons for inclusion of error term, principle of least squares, econometric methodology.	14
II	The Classical Two-variable Linear Regression Model: Estimation and Inference, Ordinary least squares (OLS) estimation, the classical assumptions, Gauss - Markov theorem and properties of the OLS estimators, goodness of fit, coefficient of determination.	12
III	Multiple Regression Analysis: Estimation, ordinary least squares estimation, coefficient of multiple determination, General Linear regression model: Matrix formulation, assumptions, properties and estimation.	12
IV	Testing of Hypothesis: Confidence interval approach, test of significance approach, F – test.	10
V	Problems in Regression Analysis: Sources, consequences, tests and remedial measures for auto correlation, multicollinearity, hetero – scedasticity, specification and measurement errors.	12
Course Outcome:-		
Student will able to operationalize empirically economic theory and test it. Student can make an econometric model in the process of economic development. They will also able to predict future movement in the economic variable of interest on the basis of economic model.		

Suggested Readings :

- Griffiths, Hill and Judge. (1993), Learning and Practicing Econometrics, Wiley, New York.
- Lewis-Beck, Michael S. (1993), Regression Analysis (Hand Book of Quantitative Application for Social Science Volume 2, SAGE Publications Inc., 1:68).
- Johnston and Dinardo (1997), Econometric Methods, 4th Edition McGraw-Hill International Edition.
- Krishna, K. L. (1997), Econometric Application in India, Oxford University Press, Delhi.
- Pindyck & Rubinfeld (1997), Econometrics Models & Economic Forecast, 4th edition, McGraw-Hill / Irwin Studenmund, A. H. (2005), Using Econometrics: A Practical Guide, Addison Wesley Publishing Company, Boston.
- Goldberger, S. (1998), Introductory Econometrics, Harvard University Press.
- Gujarati, Damodar (2003), Basic Econometrics, 4th Edition, Tata McGraw-Hill Publishing Company, New Delhi.
- Madala (2001), Introduction to Econometrics, John Wiley & Sons.
- Koutsoyiannis, A. (2006), Theory of Econometrics, St Martin's Press.
- Green, William H. (2007), Econometric Analysis, Prentice Hall.
- Wooldridge J. (2009), Introductory Econometrics: A Modern Approach, South-Western College Pub.
- Judge, G. G. et al., Introduction to the theory and Practice of econometrics, 2nd Edition John Wiley and Sons.

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M.A. (Economics) SYLLABUS

Course Code No.: ECO- 312	No. of Credits: 04	Semester: III
Course Title:	BANKING & FINANSIAL SYSTEMS	
Course Objectives:		
<p>The Objectives of this course is to introduce different roles that various financial institutions play in our economy and learn the risks inherent in the operation of these financial institutions, particularly interest rate risk and credit risk.</p>		
Unit	Course Content	Periods
I	Money and Finance: Money and near money: Financial inter mediation and financial intermediaries, the structure of financial system, indicators of financial development, equilibrium of financial market, financial system and economic development	14
II	Theories of interest rate determination: long period and short period rates, term structure of interest rate, spread between lending and deposit rates, administered interest rate, appropriate interest rate policy.	12
III	Functions of central Bank, the aims objectives of the monetary policy in developed and developing countries, instrument of monetary policy, changing trends in monetary policy in India, RBI's short term liquidity management, effectiveness of monetary policy.	12
IV	Performance of commercial banks, function & proliferation of commercial banks, district cooperative and urban co-operative banks in India, financial inclusion in India.	10
V	Development banks : rate and functions, investment banking and merchant banking, meaning and types of non bank financial intermediaries.	12
Course Outcomes:		
<ul style="list-style-type: none"> • Understand the meaning of financial concepts. • Understand the functioning of bank system. • Understand the monetary policy of RBI. • Know the structure of cooperative banks • Understand the role of development banks in economic development. 		

Suggested Readings:

1. Bhasin Niti (2007), "Banking and Financial Markets in India (1947 to 2007)", New Century Publications, New Delhi.
2. Bhole, L.M. (2009), "Financial Institutions and Markets", Tata McGraw Hill Company Ltd., New Delhi.
3. Edminster, R.O. (1986), "Financial Institutions Markets and Management", McGraw Hill, New York.
4. Ghosh, D.N. (1979), "Banking Policy in India – An Evaluation", Allied Publishers.
5. Goldsmith, R.W. (1969), "Financial Structure and Development".
6. Harker, P.T. and S.A. Zenios (2000) Ed., "Performance of Financial Institutions", Cambridge University Press, Cambridge.
7. Johnson, H.J. (1993), "Financial Institutions and Markets", McGraw Hill, New Delhi.
8. Khan M.Y. (1996), "Indian Financial System", Tata McGraw Hill, New Delhi.
9. Machiraju, M.R. (1999), "Indian Financial Systems", Vikas Publishing House, New Delhi.
10. Prasad, K.N. (2001), "Development of India's Financial System", Sarup and Sons, New Delhi.
11. Reserve Bank of India, "Functions and Working" (4th Edition), 1983.
12. "Report of the Committee on the Financial System" (Narasimhan Committee), 1991, R.B.I. Bombay.
13. Singh S.K. (2009), "Bank Regulation", Discovery Publishing House, New Delhi.

Additional Readings:

- 1) Desai, Vasant (2008), "Fundamentals of the Indian Financial System", Himalaya Publishing House, Mumbai.
- 2) Mithani D.M. (2004), "Money and Financial System", Himalaya Publishing House, Mumbai.
- 3) Natrajan & Gordon (2008), Financial Markets & Services, Himalaya Publishing House, Mumbai.
- 4) Reeta Mathur (2008), Monetary Innovations, Wide Vision, Jaipur.

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DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-313		No. of Credits:04	Semester: III
Course Title:		MATHEMATICAL ECONOMICS-I	
Course Objectives:			
<ol style="list-style-type: none"> 1. To develop the mathematical analysis skills in economics 2. To give students deeper understanding and working knowledge of mathematics. 3. To increase the use of mathematical tools in economics analysis. 			
Unit	Course Content		Periods
I	Consumer Theory 1.1 Assumptions of modern consumer theory(1) 1.2 Types of function- Separable and additive utility functions, indirect utility function , homogenous and homothetic utility function . linear expenditure system,(4) 1.3 Utility maximization with different utility functions-substitution method , Lagrange Multipliers Method; Envelope Theorem; Applications (6) 1.4 Slutsky equation. (2) 1.5 Compensated demand function.		13
II	Production Theory 2.1 Concepts : production function, product curve, Isoquants, elasticity of substitution input demand function (2) 2.2 Production Functions - homogeneous, non-homogeneous and homothetic production function Cobb-Douglas production function-properties , importance , criticisms (5) 2.3 CES production functions- production function- properties , importance , criticisms (5)		12
III	Theory of the Firm 3.1 Relationship between production function cost function. 3.2 Derivation of short-run and long-run cost functions(3) 3.3 Optimization Behavior-constrained output maximization constrained cost minimization (5) 3.4 Analysis of joint profit maximization in multiproduct firm – constraints Revenue Maximization, profit maximization (4)		12
IV	Market Equilibrium 3.1 Price & output determination in perfect competition(2) 3.2 Monopoly: price discrimination, market discrimination, taxation and monopoly output (4) 3.3 Monopsony, Monoplistic competition(3) 3.4 Duopoly & Oligopoly- The quasi-competitive solution, Collusion solution , Cournot solution, Stackelberg solution (4) 3.5 Game Theory (3)		12
V	Welfare Economics 5.1 Nature, scope, limitations (3) 5.2 Parato optimality (3) 5.3 Lindahal Equilibrium (2) 5.4 Social Welfare functions (3)		11
Learning Outcomes			
<ol style="list-style-type: none"> 1.Student display mathematical analysis skills in Economics. 2.Students show better understanding and working knowledge of Mathematics 3.Students use mathematical tools in economic analysis. 			

Suggested Readings:

1. Chiang, A.C.(1998), Fundamental Methods of Mathematical Economics , McGraw Hill, New York.
2. Henderson and Quandt(1985), Microeconomic Theory: A Mathematical Approach (third edition, McGraw-Hill
3. Agarwal H.S.(1976) Introduction to Econometrics, Lakshmi Naran Agarwal, Agra.
4. Shone, R., Microeconomics: A Mathematical Treatment

Additional Reading

1. Katzner, D.W.(1970), Static Demand Theory, MacMillan, New York.
2. Von Neumann, J., and O.Morgenstern (1947), Theory of Games and Economic Behaviour
3. Friedman, J.W. (1977), Oligopoly and the Theory of Games, North-Holland, Amsterdam.
4. Varian, Hal P. (1978), Microeconomics, Norton, New York.
5. Intriligator, M.K. et al, ed., Handbook of Mathematical Economics, North-Holland, 3 volumes.

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
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M.A. (Economics) SYLLABUS

Course Code No.: ECO- 314	No. of Credits: 04	Semester: III
Course Title:	GROWTH ECONOMICS	
Course Objectives: The objective of the course is to introduce students to existing academic approaches that grapple with complexity of developing countries. This course presents some of the major economic ideas in development thinking.		
Unit	Course Content	Periods
I	Introduction/Meaning of economic growth & development <ul style="list-style-type: none"> - Characteristics of less development countries \ - Factors affecting economic growth - Income inequality & growth - The Golden Rule of Accumulation 	10
II	Pre Keynesian theories of economic growth <ul style="list-style-type: none"> - Adam Smith - David Ricardo - Joseph Schumpeter - Karl Marx, - Comparison of pre Keynesian theories of economic growth - Ricardo & Marx - Schumpeter & Marx - Schumpeter & Ricardo 	10
III	Development from Dual Economic Structure <ul style="list-style-type: none"> - Social dualism - Technological dualism - Geographical & financial dualism - Dual economy model of Fei- Renis & Lewis - Jorgenson's Neo – classical model of dual economy 	15
IV	Partial theories of economic growth <ul style="list-style-type: none"> - Model of surplus labour - Big push - Balanced & unbalanced growth - Critical minimum effort thesis - Low level equilibrium trap - Rostov's stages of economic growth - Myrdal's theory of circular causation - Dependency theory of underdevelopment - Theories of economic 	15
V	Modern theories of economic growth <ul style="list-style-type: none"> - Harrod – Domar model - Solo model - Kaldor model - Technical change - Growth models in Indian planning 	10
Course Outcomes: <ol style="list-style-type: none"> a) Understand features of developing countries and factors for their less development b) Know classical views on economic development c) Understand dual economic models of development d) To understand the various development theories and roadmap to development for developing countries. e) Know role of savings and technology in economic growth. 		

Suggested Readings:

- 1) Thirlwall A.P. (1999) (6th Edition) "Growth and Development", Macmillan, U.K.
- 2) Jones H.G. "An Introduction to Modern Theories of Economic Growth", Economic Hanel Bank Series, Thomas Nelson and Sons, UK.
- 3) Basu, Kaushik, 1998, "Analytical Development Economics", OUP, New Delhi.
- 4) Sen A. (Ed) (1990) "Growth Economics", Prentice
- 5) Barro & Salai – Martin, "Economic Growth", Hall of India.

Additional Readings:

- 1) Adelman, I (1961), "Theories of Economic Growth and Development", Stanford University Press, Stanford.
- 2) Chenery H.B. et. al (Eds) (1974), "Redistribution with Growth", Oxford University Press, Oxford.
- 3) Eric Role, History of Economic thought 1938.
- 4) Gerald M. Meier, Leading issues in Economic Development, OUP.
- 5) Ray, Debraj (2004), "Development Economics", OUP, New Delhi.
- 6) "Human Development Reports"
- 7) Sen Amarty 1999, "Commodities and Capabilities", OUP, New Delhi.
- 8) Bardhan, P. and Chirstopher Udry 1999, "Development Microeconomics", OUP, New Delhi.
- 9) Behrman S. and T. N. Srinivasan (1995) "Handbook of Development Economics", Vol. 3 Elsevir, Amsterdam.
- 10) Brown M. (1966), "On the Theory and Measurement of Technical Change," Cambridge, University Press, Cambridge, Mass.
- 11) Chenery H.B. et. al (Eds) (1974), "Redistribution with Growth", Oxford University Press, Oxford.
- 12) Dasgupta P. (1993), "An Enquiry into Well-being and Destitution", Clarendon Press, London,
- 13) Gill M.D.H. Perkins M. Romer and D.R. Snodgrass (1992), "Economics of Development", (3rd Edition) W.W. Norton, New York.
- 14) Gimmell n. (1987), "Surveys in Development Economics", Blackwell, Oxford.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.:ECO-315	No. of Credits: 04	Semester: III
Course Title:	ECONOMICS OF SOCIAL SECTOR	
Course Objectives:		
This course is meant to provide some insights into the application of economic theory in design and implementation of public policy related to management of social sectors. Units incorporated in this paper are related to the Economic of health and education.		
Unit	Course Content	Periods
I	Introduction: Important of social sector, Interlinks between Social Sector, Welfare Economics and Environment. Social Development and Deprivation. Provision of Public goods, impure and mixed goods. Methods of pricing in public utilities. Common property resources.	12
II	Economic of Education: Education and Economics growth. Education as an instrument for economic growth; Human Capital: Components of human capital, human capital Vs physical capital. Demand for education: Private demand and Social demand. Determinants of demand. Cost of Education: expenditure on education. Private and social costs, wastage and stagnation. Benefits of education: Direct and indirect benefits of Education. Private and social benefits.	14
III	Educational Planning and Economic Growth: Role of Education for Economic growth; cost-benefit analysis of education. Educational financing-effects of education financing on income distribution; Education and labour market – Effects of education, ability and family background on earnings; poverty and income distribution, education and employment; Economics of educational planning in developing countries with special emphasis on India.	14
IV	Health Economics: Health dimensions of development; Determinates of Health-poverty, malnutrition, illiteracy and environmental issues; Economic dimensions of health care-demand and supply of health care; Financing of health care and resource constraints. The concept of human life value.	10
V	Health Care: Theory of production of health care: Inequalities in health-class and gender Perspectives; Institutional issues in health care delivery -longevity- Ageing population.	10
Course Outcome:		
Students will get an insight into the applications of economic theory in design and implementation of public policy related to management of social sector. Students will understand the Economics of health and education, which are the important determinants of human development.		

Suggested Readings:

1. Berman P. (Ed.) (1995) *Health Sector Reforms in Developing Countries: Making Health Development Sustainable*, Boston: Harvard Series on Population and International Health.
2. Blaug Mark (1972) *Introduction to Economics of Education*, Penguin, London.
3. Berman P. and M. E. Khan (1993) *Paying for India's Health Care*, Sage Publications, New Delhi.
4. Cohn E. and Gaske (1989) *Economics of Education* Pergamon Press, London.
5. Klarman H.E. (1965) *The Economics of Health*, Columbia University Press, New Delhi.
6. M. C. Mohan (1999) *Education for Development, Measuring the Social Benefits*, Oxford University Press, Oxford.
7. Tilak J.B.G.(1994), *Education for Development in Asia*, Sage Publication, New Delhi.
8. Vaisoy (1962), *Economics of Education*, Faber and Faber, New Delhi.
9. Woodnall M. (1992) *Cost Benefit Analysis in Educational Planning*, UNESCO, Paris.
10. Pancheamukhi P.R. (1980), *Economics of Health, A Trend Report in ICSSR, A Survey of Research in Economics*, Vol.VI,Infrastructre, Allied,Delhi.
11. Baru R.V.(1998),*Private Health Care in India: Social Characteristics and Trends*, Sage Publication,New Delhi.
12. S.K.Mishra & V.K. Puri.*Indian Economy,(Letest Edition)*,Himalaya Publication House, New Delhi.

Additional Readings:

- 1.Berman, P. (ed.) (1995): *Health Sector Reform in Developing Countries: Making Health Development Sustainable*, Boston: Harvard series on population and International Health.
2. Blaug, M. (1972): *Introduction to Economics of Education*, Penguin, London.
3. Cohn, E. and T. Gaske (1989): *Economics of Education*, Pergamon Press, London.
4. Klarman, H.E. (1965): *The Economics of Health*, Columbia University Press, NY.
5. Mc Mohan, W.W. (1999): *Education and Development: Measuring the Social Benefits*, OUP, Oxford.
6. Psacharopoulos, G. (ed.) (1987): *Economics of Education: Research and Studies*, Pergamon Press, Oxford.
7. Tilak, J.B.G. (1994): *Education for Development in Asia*, Sage, ND.
8. Vaizoy (1962): *Economics of Education*, Faber and Faber, London.
9. Woodhall, M. (1992): *Cost Benefit Analysis in Educational Planning*, UNESCO, Paris.
10. World Bank (1993): *The World Development Report, 1993: Investing in Health*, OUP, NY.
11. Baru, R.V. (1998): *Private Health Care in India: Social Characteristics and Trends*, Sage, ND
12. Becker, G.S. (1974): *Human Capital (2e)*, National Bureau of Economic Research, NY.
13. Berman, P. and M.E. Khan (1993): *Paying for India's Health Care*, Sage, ND.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS
M.A. (Economics) SYLLABUS

Course Code No.: ECO-316	No. of Credits: 04	Semester: III
Course Title:	PRINCIPLES AND PRACTICE OF CO-OPERATION	

Course Objectives: Cooperative institutions have become an integral part of the success of Indian Financial Inclusion story. They have achieved many landmarks since their creation and have helped a normal rural and urban Indian to feel empowered and secure. The cooperative movement has a long history of more than hundred years. Indian cooperative structure is one of the largest networks in the world. It has about 67% penetration in villages and fund 46% of the rural credit. Under this backdrop the student should study the principles and role of cooperation in the modern era. The paper deals with structure of cooperatives, different types of credit and non credit cooperatives. It also covers various cooperative institutions operating at the national level.

Unit	Course Content	Periods
I	Meaning, Principles of Co-operation: 1.1: Meaning of Cooperation – Main Principles of Cooperation – Reformulation of principles – Significance of cooperation. 1.2: Growth of Cooperation in India after Independence. 1.3: Cooperative Credit Structure – Progress and Problems of Primary Agricultural Cooperative Societies, District Central Cooperative Banks, and State Cooperative Banks.-Long term Rural Credit Structure, Urban Cooperative Bank	12
II	Non-Agricultural Co-operatives in India Organization, Progress and Problems with Special Reference to India 2.1: Cooperative Consumers Societies: Need and Importance-Organization, - Recent Developments - Guiding Principles. 2.2: Cooperative Housing Societies: Origin and Development - Types of Housing Societies and their Working. 2.3: Cooperative Labour Societies 2.4: Service Cooperatives: Evolution, Functions and Structure of Cooperatives	13
III	Agro Based Cooperatives: 3.1: Cooperative Farming: Need and Importance - Types, Features, and Working of Cooperatives - Problems. 3.2: Agricultural Cooperative Marketing :Role, Structure and Functions - Policies and pattern of Working - Marketing Practices - Linking Credit with Marketing. 3.3: Dairy Cooperatives: Formation of NDDDB - Status of Milk Production - Marketing and Consumption. 3.4: Sugar Cooperatives: Organization, Role, Progress and Problems with Special Reference to India	13
IV	Co-operative Institutions in India: 4.1: National Bank for Agriculture and Rural Development(NABARD), 4.2: National Cooperative Development Corporation(NCDC) - National Agricultural Cooperative Marketing Federation (NAFED). – National Cooperative Union of India(NCUI). 4.3:National Cooperative Consumers' Federation (NCCF), 4.4 KVIC, IFFCO and KRIBHCO	13
V	Committees and Commissions on Cooperatives 5.1: All India Rural Credit Survey (AIRCS) 5.2:All India Rural Credit Review Committee (AIRCRC) 5.3:Madhava Das Committee 5.4: Committee for Reviewing Arrangement for Financing Institutional Credit for Agricultural and Rural Credit (CRAFICARD) - Kushro Committee.	11

Course Outcome: Student will come to get an in dept understanding regarding policies of cooperation and rural development through cooperation. They can also be part of such cooperatives.

Suggested Readings:

1. Bedi, R. D., Theory, History and Practice of Co-operation with reference to Cooperation in Foreign countries.
2. Mathur, B.S., Cooperation in India (Latest Edition).
3. Hajela, T. N., Principles, Problem and Practice of cooperation, Ane Books Pvt. Ltd.; Student Edition (2015)
4. NABARD – Statistical Statement Relating to the Cooperative Movement in India – Part I & II.
5. Digby , World Cooperative Movement
6. Kulkarni, K. R. , Theory and Practice of cooperation in India and Abroad, Vols. I, II & III.
7. Kamat, G. S., New Dimensions in Cooperatives, Himalaya Publishing House
8. Dr. R. C. Dwivedi, (1997), Co-operative Identity, Concept and Reality, M/S Paramount Publishing House, New Delhi
9. Jugale, V. B., Koli, P. A., (2005) Reasserting the Co-operative Movement, Serials Publications, New Delhi,
10. Patil, J. F. & Patil, V. S., (2006) Problems and Prospects of Co-operative Movement, Shivaji University, Kolhapur

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M.A. (Economics) SYLLABUS

Course Code No.:ECO-401	No. of Credits:04	Semester: IV
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Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

Course Title:		INDIAN ECONOMIC POLICY - II
Course Objectives:		
Objective of this course is to provide a study of some important issues concerning Indian Economy and to increase the knowledge students of various policy initiatives and basic concept of Indian Economy.		
Unit	Course Content	Periods
I	Planning in India: Evaluation of the objectives and strategy of planning, 12 th plan, Achievements and failures of the plans, 73 rd – 74 th constitutional amendment: Rural and Urban local self government, Nagar Rachana Bill Central and state, National Institution for Transforming India (NITI Aayog)	14
II	The Agricultural Sector: Agrarian crisis in India, Agricultural Policy 2000, Farmer Policy 2007, Agricultural Subsidies, Rural indebtedness, Food security, Land reforms, Land acquisition Bill etc.	10
III	The Industrial Sector: Role public and private sector in Indian economy and employment New Industrial Policy: 2002 competition Act 2002, Exim policy (FEMA) Foreign Exchange Money Act, manufacturing Hub, disinvestment Policy in India, Special Economic Zone etc.	14
IV	The External Sector: Recent trends in India's balance of payments, Full convertibility of rupee, Foreign capital, FDI, Foreign Institutional Investment (FII) and role of multinational companies in India, Infrastructural and development (Education, Health, parallel economy energy), Corruption in India, Policy to control parallel economy etc.	14
V	The Financial Sector: Monetary & Fiscal Policy, Global Recession: It's impact on Indian economy (Agri., industry, employment and share market)	08
Course Outcomes:		
Student will come to get an in depth understanding regarding policies designed for various sector of the Indian Economy.		

Suggested Readings:

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

- 11) Mishra & Puri – Indian Economy, Himalaya Publishing House, New Delhi.
- 12) Baldev Raj Nayar (2007), “Globalization Nationalism”, (Sagar Publication, New Delhi.)
- 13) Suresh D. Tendulkar and T. A. Bhavani (2007), “Understanding Reforms 1991 India” New Delhi
- 14) Government of India (2008), “Planning Commission, Eleventh Year Plan 2007-12”, Volume III Delhi.
- 15) G. S. Bhalla (2007), “Indian Agriculture Since Independence”, (National Book Trust, New Delhi)
- 16) V. S. Vyes (2003), “India’s Agrarian Culture, Economic Policies and Sustainable Development”, (New Delhi)
- 17) C. Rangaroyan (2002), “Paradigm shifts in industry policy”.
- 18) Biplab Dasgupta (2006), “Globalization India’s Adjustment Experience”, (Sage Publication, New Delhi)
- 19) Vijay Joshi and I.M.D., (2008) “Little India’s Economic Reforms 1991-2001”, New Delhi.
- 20) Gupta, S.P. (1989), “Planning and Development in India: A Critique”, Allied Publishers Private Limited, New Delhi.
- 16) Bhagwati Jagdish (2004): “In Defense of Globalization”, Oxford University Press U.K.
- 17) Government of India (2005), “Economic Survey”, (2004-05)
- 18) Meenakshi, S. (1994), “Decentralization in Developing Countries”.
- 19) Datt, and Sundaram, K.P.M.(2004), “Indian Economy”, S.Chand & New Delhi.
- 20) Dr. V.M.Gowilkar (2009), “Intellectual Property Rights”, Diamond Publication, Pune.
- 21) I. Satya Sundaram (2009), “Rural Development”, Himalaya Publishing House, Nagpur.

Additional Readings:

- 7) Vijay Joshi and I.M.D., (2008) “Little India’s Economic Reforms 1991-2001”, New Delhi.
- 8) Gupta, S.P. (1989), “Planning and Development in India: A Critique”, Allied Publishers Private Limited, New Delhi.
- 9) Government of India (2005), “Economic Survey”, (2004-05)
- 10) Meenakshi, S. (1994), “Decentralization in Developing Countries”.
- 11) Datt, and Sundaram, K.P.M.(2004), “Indian Economy”, S.Chand & New Delhi.
- 12) I. Satya Sundaram (2009), “Rural Development”, Himalaya Publishing House, Nagpur.

M.A. (Economics) SYLLABUS

Course Code No.: ECO - 402	No. of Credits:04	Semester: IV
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Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

Course Title:		PUBLIC FINANCE IN INDIA
Course Objectives: This course requires the understanding of basic principles of public economics. It deals with issues related to federal finance in India. The course is design to deliver the facts related to practice of fiscal federalism and the Indian fiscal policy. The aim of this course is to offer a review and analysis of tax reforms in India at the level of Union government in particular and at the level of state governments in general. The course also deals with trends in revenue and expenditure of government of India.		
Unit	Course Content	Periods
I	Fiscal Federalism in India: Constitutional Provisions with regard to taxation and Public Expenditure in India Centre- State Financial relations in India Fiscal Decentralization- 73 rd and 74 th amendments Implications of recommendations of Finance Commission. State level fiscal reforms in India.	12
II	Fiscal Policy in India: Trends and developments in Fiscal Policy, Recent experience with fiscal consolidation efforts of Union Government and State Governments. Fiscal Responsibility and Budget Management Act: An Evaluation Trends in deficit finance and its macro- Economic implications	13
III	Tax Reforms in India: International best practices in taxation Critical evaluation of the Indian Tax System Practical Issues in Tax Reforms in India An introduction to MODVAT, CENVAT and Goods and Services Tax (GST), Issues in the Taxation of services in India State level tax reforms in India.	12
IV	Revenue of Government of India: Tax and non- tax sources of revenue Trends in the composition of tax and non tax revenue Sharing of Union tax and non tax revenue Pricing of Public Utilities in India	12
V	Expenditure of Government of India: Public expenditure management in India Growth, nature and composition of public expenditure Issues related to subsidies in India Social Security and pension Reform Budgeting in India Introduction to Union Budget of India	11
Course Outcome :-		
<ul style="list-style-type: none"> • Student will be equipped with issues related to federal finance and the principle of multiunit finance • Student will understand the nature of fiscal policy in India • Student will be able to understand the role of finance commission of India. • Student will be able to critically evaluate tax reforms & analyses union Budget. 		

Basic Reading List:

- 1) Musgrave R.A. (1959), The Theory of Public Finance, McGraw Hill, Kogkhusa, Tokyo

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DEPARTMENT OF ECONOMICS

- 2) Musgrave R.A. and P.B. Musgrave (1976) , Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo
- 3) Buchanan J.M. (1970), the Public Finances, Richard D. Irwin, Homewood, Illinois.
- 4) Rao Rakshit (Ed.) 2011, Public Economics: Theory and Policy, Sage, NIPFP, New Delhi
- 5) Davie and Duncombe (1972), Public Finance, Rinehart and Winston, Inc New York.
- 6) Myles Gareth (1995), Public Economics, Cambridge University Press.
- 7) Auerbach, A. and M. Feldstein (1987), Handbook of public Economics, Vol. 1 and 2, North Holland, Amsterdam.
- 8) Johansen Leif (1965), Public Economics, North-Holland Publishing Company, Amsterdam.
- 9) Laffont, Jean- Jacques (1994), Fundamentals of Public Economics, MIT Press Cambridge, Mass.
- 10) Rosen, Harvey S. (1995), Public Finance 4th Edition, Richard D. Irwin, Chicago.
- 11) Thompson. F and Green, M.T. (1998), Handbook of Public Finance, Marcle Dekker, New York.
- 12) Chelliah Raja J. (1971), Fiscal Policy in underdeveloped Countries, George Allen and Unwin, London.
- 13) Oates, Wallace (1999), An Essay on Fiscal Federalism, Journal of Economic Literature, Vol.XXXVII.
- 14) Gulati I.S. (1987), Centre-state Budgetary Transfers, Sameeksha Trust.
- 15) Mundle S. (1997), Public Finance Policy Issues for India, Oxford University Press, New Delhi.

Additional Reading List:

- 1) Acharya Shankar (2005), Thirty Years of Tax Reform in India, Economic and Political Weekly, May 14.

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DEPARTMENT OF ECONOMICS

- 2) Bhalla, S. (2005), Tax Rates, Tax Compliance and Tax Revenues: India, 1988-2004 web link: [Http://www.oxusresearch. Com/ downloads/ce070704.pdf](http://www.oxusresearch.com/downloads/ce070704.pdf).
- 3) Government of India (1992), Report of the tax Report of the tax Reform committee (chairman- Raja J. Chaliah)
- 4) Poddar Satya and Ahmad Ehtisham (March 2009), GST Reforms and Intergovernmental Considerations in India, Working paper No.1/2009-DEA, Department of Economic Affairs, Ministry of Finance, Government of India.
- 5) Amaresh Bagchi and P.Chakraborty (2004), Towards a Rational System of Centre- state Revenue Transfers, Economic and Political Weekly, June 26, pp.2737-2747.
- 6) Amaresh Bagchi (2006), Towards GST: Choices and Trade off, Economic and political Weekly, April 8.
- 7) Amaresh Bagchi (2008), Globalization and Federalism: Uneasy partners? Economic political Weekly, September 20.
- 8) Govinda Rao M (2001), Taxing Services: Issues and Strategy, Economic and political Weekly, October, 20, 2001.
- 9) Govinda Rao M. and Nirvikar Singh (2007), The Political Economy of India's Fiscal Federal System and its reform, the Journal of Federalism, Volume 37(1), pp.24.44.
- 10) Gulati I S (1991), Reducing the Fiscal Deficit: soft and hard options, Economic and Political Weekly, July 20.
- 11) Gulati I.S. (1994), Calculating the fiscal Deficit: A Note on certain Capital Receipts, Economics and Political Weekly.
- 12) Kavita Rao R and Pinki Chakraborty (2010), Goods and Services Tax in India: An Assessment of the Base, Economic and Political Weekly, VOL. XLV, No. 1, January 2.
- 13) Mala Lalvani (2009), Persistence of Fiscal Irresponsibility: Looking Deeper into Provisions of the FRBM Act, Economic and Political weekly, VOL.44, No. 37.pp.57-63
- 14) Rakshit M. K. (2000), On Correcting Fiscal Imbalances in the Indian Economy- Some Perspectives, ICRA Bulletin.
- 15) Rangarajan C. and D. K. Srivastava (2008), Reforming India's Fiscal Transfer System: Resolving Vertical and Horizontal Imbalances, Economic and Political Weekly, VOL.43, No.23, pp. 47-60.
- 1) GOI, Central Government subsidies in India: A Report, Dec 2004
- 2) GOI, A white paper on State Level Value- added Tax, January 2005
- 3) GOI, Report of The Internal Working group on debt management.
- 4) GOI, Government debt- status and Road Ahead, Nov, 2010.
- 5) GOI, An Economic and Functional Classification of the central government Budget, Feb 11, 2014.
- 6) GOI, Expenditure Reforms commission report.
- 7) De Supriyo (2012), Fiscal Policy in India, Trends and Trajectory, GOI Working paper.
- 8) NIPFP (1994), Reform of Domestic Trade Taxes in India: Issues and Options, National Institute of Public Finance, New Delhi.

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS**

M.A. (Economics) SYLLABUS

Course Code No.: ECO-411	No. of Credits: 04	Semester: IV
Course Title:	ECONOMETRICS - II	
Course Objectives:		
<p>The objective of this course is to operationalize empirically economic theory and test economic theory allowing time-lags. Its objective is also to predict future movements in the economic variable of interest on the basis of recent forecasting techniques.</p>		
Unit	Course Content	Periods
I	Non-Linear Regression models: Semi-log, Polynomial, double-log and reciprocal regression models.	12
II	Binary (or Dummy Variables): ANOVA and ANCOVA models, interactions involving dummy variables and use of dummy variables in seasonal analysis, Piece wise linear regression analysis, the dummy variable alternative to Chow test.	13
III	Lagged Variables and Distributed – Lag Models: Koyck model, partial adjustment model, adaptive expectations model, Almon lag approach.	11
IV	Simultaneous Equation Models: Examples, simultaneous equation bias, structural form and reduced form, problem of identification: Rules for identification, Estimation of simultaneous – equation models - Indirect least squares, Two-Stage least squares.	12
V	Introduction to Time Series Analysis: Stationarity, Stationary and nonstationary process, Tests of stationarity, unit root, spurious regression, Random Walk Model, Integrated Series, ARIMA (Box-Jenkins) Methodology of forecasting.	12
Course Outcome:-		
<p>Student will able to compute growths rate and elasticity's in the economy by using different tag models. Student will able to operationalize empirically economic theory and test economic theory allowing time lags. Student will also able to predict future movement in the economic variable of interest on the basis of recent forecasting techniques.</p>		

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS**

Suggested Readings:

1. Gujarati, D.W. (1995), Basic Econometrics, McGraw Hill, New Delhi.
2. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd Edition), The Macmillan Press Ltd. London.
3. Johanson, J. (1991), Econometric Methods, McGraw Hill Book Co., London.

Additional Readings:

1. Goldberrger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge Mass.
2. Krishna K.L., (Ed.) (1977), Econometric Applications in India, Oxford University Press, New Delhi.
3. Maddala, G.S. (Ed.)(1993), Econometrics: Methods and Applications (2Vols), Aldershot, U.K.
4. Chow, G.C. (1983), Econometrics, McGraw Hill, New York.
5. Pindyck, R.S. and D.L. Rubinfeld (1976), Econometric Model and Economic Forecasts, McGraw Hill, Kogakusha, Tokyo.
6. Franses, P.H. (1998), Time Series Model for Business and Economic Forecasting, Cambridge University Press, New York.
7. Harvey, A.C. (1981), Econometric Analysis of Time Series, Philip Allen, London.
8. Hanson P.R. and S. Johanson, (1998), Workbook on co integration, Oxford University, New York.

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DEPARTMENT OF ECONOMICS

Course Code No.: ECO-412	No. of Credits: 04	Semester: IV
Course Title:	INDIAN FINANCIAL MARKETS	
Course Objectives:		
<p>The course introduces topics such as the structural organisation of financial market, institutions and the role they play in economy, the basic concepts in modern finance and monetary policy. In addition, the course analyzes basics of financial policies and operations of commercial banks and other financial institutions as well as an overview of the globalization of financial markets and institutions.</p>		
Unit	Course Content	Periods
I	Meaning and types of financial instruments, Meaning of financial market, structure & role of financial market, financial development & economic development.	15
II	Meaning & functions of money market, structure of Indian money market, call money market, treasury bills market, commercial bills market, commercial papers & certificates of deposits, reports & reverse repos, recent development in money market.	15
III	Meaning & importance of capital market, structure of Indian capital market, meaning & functions of new issue market, meaning & functions of stock markets.	10
IV	Stock exchange in India, function of stock exchange stock market indices – SENSEX and Nifty, regulation of stock exchange and role of SEBI.	10
V	Meaning of financial services, mutual fund, housing finance, repository, securitization, financial sector reforms in India.	10
Course Outcomes:		
<ul style="list-style-type: none"> • Understand the financial concepts. • Understand the structure and functions of money & capital markets. • Know the functioning of stock market. • Understand the concepts of various financial services. 		

Suggested Readings:

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

1. Avdhani V.A. (2008), "Investment and Securities Markets in India", Himalaya Publishing House, Mumbai.
2. Bhasin Niti (2007), "Banking and Financial Markets in India (1947 to 2007)", New Century Publications, New Delhi.
3. Bhole L.M. (2009), "Financial Institutions and Markets", Tata McGraw Hill, New Delhi.
4. Desai, Vasant (2009), "Financial Markets and Financial Services", Himalaya Publishing House, Mumbai.
5. Goldsmith, R.W. (1969), "Financial Structure and Development".
6. Hanson, J.A. and S. Kathuria (1999), "India : A Financial Sector for the Twenty-first century", Oxford University Press, New Delhi.
7. Harker, P.T. and S.A. Zenios (2000) Ed., "Performance of Financial Institutions", Cambridge University Press, Cambridge.
8. Johnson, H.J. (1993), "Financial Institutions and Markets", McGraw Hill, New Delhi.
9. Khan, M.Y. (1996), "Indian Financial System", Tata McGraw Hill, New Delhi.
10. Machiraju, M.R. (1999), "Indian Financial Systems", Vikas Publishing House, New Delhi.
11. Prasad, K.N. (2001), "Development of India's Financial System", Sarup and Sons, New Delhi.
12. Reserve Bank of India, "Functions and Working" (4th Edition), 1983.
13. "Report of the Committee on the Financial System" (Narasimhan Committee), 1991, R.B.I. Bombay.
14. Singh S.K. (2009), "Bank Regulation", Discovery Publishing House, New Delhi.

Additional Readings:

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

1. Avadhani V.A. (2008), "International Finance: Theory and Practice", Himalaya Publishing House, Mumbai.
2. Desai, Vasant (2008), "Fundamentals of the Indian Financial System", Himalaya Publishing House, Mumbai.
3. Gupta P.K. (2008), "Insurance and Risk Management", Himalaya Publishing House, Mumbai.
4. Mithani D.M. (2004), "Money and Financial System", Himalaya Publishing House, Mumbai.
5. Natrajan & Gordon (2008), "Financial Markets & Services", Himalaya Publishing House, Mumbai.
6. Reddy G.S. (2008), "Financial Management – Principles and Practice", Himalaya Publishing House, Mumbai.
7. Reeta Mathur (2008), "Monetary Innovations", Wide Vision, Jaipur.
8. Sahoo S.C., Das S.C. (2009), "Insurance Management test and cases", Himalaya Publishing House, Mumbai.
9. Tyagi C.L., Tyagi Madhu (2007), "Insurance-Law and practice", Atlantic publisher and distributors, New Delhi.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS

Course Code No.: ECO-413	No. of Credits: 04	Semester: IV
Course Title:	MATHEMATICAL ECONOMICS - II	
Course Objectives:		
<p>1. To provide students with mathematical programming for economical analysis.</p> <p>2. The provide students with training suitable for careers in banking, industry, applied mathematics, or finance in private sector.</p>		
Unit	Course Content	Periods
I	Linear Programming 1.1 Meaning , mathematical formulation ,basic concepts of L.P.P. (1) 1.2 Formulation of Linear Programming Problem(2) 1.3 Graphical Method (3) 1.4 Simplex Method(4) 1.5 Formulation of the dual of a programme and its interpretation(2) 1.6 Statements of basic theorems of L.P.P. and Duality(1) 1.7 Shadow prices and their uses(2)	13
II	Game Theory 2.1 Meaning, Nature, scope, limitations (1) 2.3Types of Games (1) 2.3 Saddle point solution(2) 2.4 The Prisoner's Dilemma(2) 2.5Solution by linear system(2) 2.6 Game theory and LPP.(2)	12
III	Assignment Problem 3.1 Meaning and Nature of the Problem (2) 3.2 Methods of Solution(1) 3.3 Computational Procedure(5) 3.4 Some special Types (4)	12
IV	Transportation Problem 4.1Meaning and Nature of Transportation Problem (2) 4.2 North-West Corner Method and Other Methods 4.2 Optimality Test (5)	14
V	Dynamic Programming 4.1 Meaning ,nature, importance of dynamic programming (2) 4.2 Sequential decisions, network recursive solutions. problems (7) 4.3 Bellman's principle of optimality.(2)	09
Course Outcomes		
<p>1.Students show a good understanding of mathematical programming for Economical analysis</p> <p>2. Students have readiness for careers in banking and other competitive examinations.</p>		

Readings :

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS**

1. Martin Osborne, An Introduction to Game Theory, Oxford University Press, 2003.
2. Michael Intriligator, Kenneth Arrow, Handbook of Mathematical Economics, Vol.II North- Holland.
3. 3. Alpha C. Chiang, Fundamental Methods of Mathematical Economics, Mc Graw Hill, London
4. JOSEF KALLRATH and JOHN M. WILSON, Business Optimization Using Mathematical Programming, MACMILLAN PRESS LTD Houndmills, Basingstoke, Hampshire RG21 6XS and London
5. James K. Strayer, Linear Programming and Applications, (1989) Springer-Verlag.
6. G. B. Dantzig, Linear Programming and Extensions, (1963) Princeton University Press.
7. Samuel Karlin, Mathematical Methods and Theory in Games, Programming and Economics, vol. 1, (1959) Addison-Wesley

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS
M.A. (Economics) SYLLABUS

Course Code No.: ECO- 414		No. of Credits: 04	Semester: IV
Course Title:		DEVELOPMENT ECONOMICS	
Course Objectives: Development Economics course builds on and extends the microeconomic and macroeconomic tools developed in core courses. It also deals with the contemporary problems of development.			
Unit	Course Content		Periods
I	Economic Development: Historical experience – Income Distribution in Developing Countries – Features of underdevelopment including structural features – Economic inequality and its measurement – Inverted U hypothesis.		12
II	Sectoral aspects of Economic Development : Role of Agriculture, Industry, Foreign trade in Economic development, Prebisch – Singer hypothesis , Export – led growth		12
III	Microeconomics of Development : Markets in Agriculture – Land, Labour, Capital, credit, Product Markets - Inter – linking of Markets – Land ownerships and tenancy, Inequality – Land Reforms		10
IV	Macroeconomics of Development : Formal and informal urban sector, features of ICRISAT villages, Rural – Urban interaction – Lewis model – policy issues, Population Growth and Economic Development Demographic Transition – Population growth – positive and negative effects.		12
V	Contemporary problems of Development: Development & Environment, Concept of Sustainable Development, poverty, conceptual issues, measures – poverty and its empirical observations – Rural and urban poverty – poverty and nutrition - The functional Impact of poverty.		14
Course Outcomes: a) Know historical experience of development b) Understand role of various sectors in economic development c) Understand interlinkages in land, labour, capital and credit markets d) Know role of population and rural urban interaction in development e) Know dynamics of poverty and its impact on nutrition intake.			

Suggested Readings:

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DEPARTMENT OF ECONOMICS

- 1) Basu, Kaushik, 1998, "Analytical Development Economics", OUP, New Delhi.
- 2) Ray, Debraj (2004), "Development Economics", OUP, New Delhi.

Additional Readings:

- 1) Adelman, I (1961), "Theories of Economic Growth and Development", Stanford University Press, Stanford.
- 2) Behrman S. and T. N. Srinivasan (1995) "Handbook of Development Economics", Vol. 3 Elsevir, Amsterdam.
- 3) Brown M. (1966), "On the Theory and Measurement of Technical Change," Cambridge, University Press, Cambridge, Mass.
- 4) Chenery H.B. et. al (Eds) (1974), "Redistribution with Growth", Oxford University Press, Oxford.
- 5) Chenery H. and T.N. Srinivasan (Eds) (1989), "Handbook of Development Economics", Vols 1 & 2, Elevier, Amsterdam.
- 6) Dasgupta P. (1993), "An Enquiry into Well-being and Destitution", Clarendon Press, London,
- 7) Gill M.D.H. Perkins M. Romer and D.R. Snodgrass (1992), "Economics of Development", (3rd Edition) W.W. Norton, New York.
- 8) Gimmell n. (1987), "Surveys in Development Economics", Blackwell, Oxford.
- 9) Todaro M.P. (1996) (6th Edition) "Economic Development Longman", London.
- 10) Thirlwall A.P. (1999) (6th Edition), "Growth and Development", Macmillan, U.K.
- 11) "Human Development Reports"
- 12) Sen Amarty 1999, "Commodities and Capabilities", OUP, New Delhi.
- 13) Bardhan, P. and Chirstopher Udry 1999, "Development Microeconomics", OUP, New Delhi.
- 14) Debraj Ray, "Development Economics", Oxford, 2006.

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS**

M.A. (Economics) SYLLABUS

Course Code No.: ECO-415	No. of Credits: 04	Semester: IV
Course Title:	COMPUTER APPLICATIONS IN ECONOMICS	
Course Objectives:		
To familiarize students with basic techniques used in social science research		
To familiarize students with data analysis using software packages		
Unit	Course Content	Periods
I	Characteristics of Computers, Evolution of computers, computer memory, computer generations, Basic computer organization; System software, Application software, introduction to operating system, single user, multi-user, multi-tasking single tasking, application of computer for business and research, MS-windows .	15
II	Data Communication and Networks: Data communication concepts, local area network, wide area network, internet, intranet, extranet, website. E-mail, search engines-enterprise E-communication and E-collaboration	05
III	Using Internet for Research The Internet: Use of E-Journals, Use of E-library, searching the keyword search engines, News and multimedia, governments, archives and statistics.	10
IV	Research Related Tools and Utilities MS-Office and its application, File handing in window, various versions of MSOffice, Research publishing tool- MS-word, Adobe acrobat, Graphics tool- MS Excel. MS-Power Point: Creating presentations and adding effects. Subject/Field specific tools on www.freeware.com	10
V	Introduction to Research Related Software's : MS Excel, SPSS, E-views, STATA and R.	20
Course Outcome:		
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DEPARTMENT OF ECONOMICS

Suggested Readings:

- A. Goel, Computer Fundamentals, Pearson Education, 2010.
- P. Aksoy, L. DeNardis, Introduction to Information Technology, Cengage Learning, 2006
- P. K.Sinha, P. Sinha, Fundamentals of Computers, BPB Publishers, 2007.
- Allen G. and G. Skinner 1991. Handbook for Research Students in Social Sciences. Falmer Press: London.
- Berg, Bruce, L. 2001. Qualitative Research Methods for the Social Science. Allyn & Bacon: Boston.
- Wilkinson & Bhandarkar: Methodology and Techniques of Social Research.
- Pauline Vyoung: Scientific Social Surveys and Research.
- Panneerselvam, R., Research Methodology, Prentice Hall of India, New Delhi, 2004
- Kothari: Research Methodology.
- Festinger. L & D. Katz: Research Methods in Behavioral Science.
- Sellitz, Et Al: Research Methods in Social Relations

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
DEPARTMENT OF ECONOMICS
M.A. (Economics) SYLLABUS

Course Code No.: ECO-416	No. of Credits: 04	Semester: IV
Course Title:	FINANCIAL ECONOMETRICS	
Course Objectives:		
1) Enable students to understand recent applied literature in core journals of economics and finance which uses time series methods; 2) Provide students with the necessary background to conduct applied empirical work using financial data.		
Unit	Course Content	Periods
I	Meaning and scope of financial econometrics: Basic Mathematics, Statistics and Finance theory for Financial Analysis; Stationary, Auto covariance and Autocorrelation Function (ACF) ; Prices , Returns and Compounding; Market Efficiency- Efficient Markets, Market Efficiency Testable.	15
II	Prediction of Asset Returns: Definition of Assets Returns , Distributional Properties of Assets Returns, Predictability of Asset Returns, The CER Model of Asset Returns; Random Walk Hypotheses, Tests of Random Walk; Long Horizon Returns	10
III	Univariate time series analysis and forecasting – linear time series analysis – autocorrelation function and partial auto-correlation function – auto-regressive (AR) models, moving average (MA) models, Box-Jenkins (BJ) ARMA and ARIMA models – identification – estimation and forecasting with ARIMA models - applications in finance.	15
IV	Modeling volatility and auto-correlation in time series – motivation and test for non-linearity – historical and implied volatility – auto-regressive conditional heteroscedasticity (ARCH) model – Generalized ARCH model – applications in finance	10
V	Multivariate time series analysis and forecasting – vector autoregressive (VAR) models – advantages and problems – estimation and forecasting with VAR – impulse response function – Johansen Co-integration test on VAR – Granger causality test – applications in finance	10
Course Outcomes:		
(i) Students will able to Identify empirical features and characteristics of various types of financial data (ii) Students will able to utilize various statistical/economic modelling techniques to capture the empirical characteristics of the financial data. (iii) Students will able to develop a firm understanding of interrelationships among the data characteristics, modelling techniques and estimation tools.		

Suggested Readings:

1. Campbell, J.Y; A.W. Lo and A.C. Mackinlay (1997): The Econometrics of Financial Markets, Princeton University Press, Princeton.
2. Gouriéroux, C. and J.Jasiak (2001): Financial Econometrics : Problems, Models and Methods, Princeton University Press, Princeton.
3. Taylor, S. (2005): Asset Price Dynamics, Volatility, And Prediction, Princeton University Press, Princeton.
4. Tsay, R.S. (2005): Analysis of Financial Time Series, 2nd Edition, John Wiley and Sons, New York.
5. Zivot, E. and J. Wang (2002): Modeling Financial Time Series with S-PLUS, Springer- Verlag, New York.
6. Mills, T.C. (1999): The Econometric Modeling of Financial Time Series, Cambridge University Press.
7. Brooks, Chris (2008): Introductory Econometrics for Finance, 2nd Edition, Cambridge University Press, New York.
8. Chan, Ngai Hang (2002): Time Series: Applications to Finance, Wiley- Interscience, New York.
9. Chay, R; Analysis of Financial Time Series, Wiley- Interscience, New York.
10. John Cochrane (2001): Asset Pricing, Princeton University Press, Princeton.
11. Darrell Duffie (2001): Dynamic Asset Pricing Theory, Princeton University Press, Princeton.