DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Circular /Acad Sec./ HF/ Curriculum-12(7)/ NEP-PG/ 2023.

It is hereby inform to all concerned that, on the recommendation of Dean, Faculty of Humanities; **the Hon'ble Vice-Chancellor has accepted the following subject wise Curriculum of National Education Policy-2020** under the faculty of Humanities in his emergency powers under Section 12 [7] of the Maharashtra Public University Act, 2016 on behalf of the Academic Council.

Sr. No.	PG Subject wise Curriculum	Semesters
01.	**M.A. First & Second Year** Progressively **[English]** for affiliated Colleges, Uni. Campus & Sub-Campus.	**Ist & IInd and IIIrd & IVth**
02.	**M.A. First & Second Year** Progressively **[Geography]** for affiliated Colleges and University Campus.	**Ist & IInd and IIIrd & IVth**
03.	**M.A. First & Second Year** Progressively **[Sociology]** for affiliated Colleges and University Campus.	**Ist & IInd and IIIrd & IVth**
04.	**M.A. First & Second Year** Progressively **[Economics]** for affiliated Colleges and University Campus.	**Ist & IInd and IIIrd & IVth**

This is effective from the Academic Year 2023-24 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/Col. & UC/NEP-20/
PG/ 2023/3692-702

Date: 03.07.2023.

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Deputy Registrar, Academic.

Copy forwarded with compliments to:-

1] **The Head, all concerned departments ,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and Sub-Center, Osmanabad.

2] **The Principal, all affiliated colleges,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

3] **The Director,** University Network & Information Centre, UNIC, with **a request to upload this Circular on University Website.**

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Copy to :-

1] **The Director, Board of Examinations & Evaluation,**
2] **The Sec. Officer, [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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DrK*030723/-

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Curriculum of

M. A. First & Second Year

[Economics]

Semester-I to IV

'under National Education Policy-2020'

[Implemented at University Campus Autonomous Department]

[Effective from the Academic Year 2023-24 & Onwards Progressively]

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Department of Economics

Illustrative Credit Distribution Structure for Two Year /One Year PG

M.A. Economics Programme

Year (2Yr PG)	Level (2 Yr)	Sem.	Major Mandatory	Major Elective (any one)	Research Methodology	On Job Training/ Field Project	Research Project	Cum.Cr.	Degree
I	6.0	Sem: I	1)Micro Economics-I:4 2)Macro Economics-II:4 3)Mathematics for Economics:4 4) Statistics for Economics -2	1) Demography :4 2) Agricultural Economics:4 3)Growth Economics-4 4) International Economics:4	Research Methods in Economics :4	--	--	22	PG Diploma (after 3 year Degree)
		Sem: II	5)Micro Economics –II :4 6) Macro Economics-II :4 7) Econometrics :4 8) Statistical Methods :2	5) Rural Development :4 6)Industrial Economics :4 7) Indian Economic Thinkers :4 8)Monetary Economics :4 9) Energy Economics : 4	--	OJT/FP : 4	--	22	
Cum. Cr. For PG Diploma			28	08	4	4	--	44	
			Exit Option: PG Diploma (44 Credits) after Three Year UG Degree						
II	6.5	Sem: III	9)Indian Economy : 4 10) Public Economics :4 11) Mathematical Economics:4 12) Computer Applications in Economics :2	10) Banking –4 11) Development Economics-4 12)Regional Economics –4 13)International Finance :4 14) Business Analytics : 4 15) Environmental Economics:4			RP-1:4	22	PG Degree After 3:Year UG or PG Degree after 4:Year UG
		Sem: IV	13) Indian Economic Policy : 4 14) Federal Finance : 4 15) Econometric Methods and Application: 4	16)Theory of Firms-4 17) Mathematical Programming: 4 18) Financial Markets :4 19)Labour Economics :4 20) Gender Economics :4			RP-2:6	22	
Cum. Cr. for 1 Yr PG Degree			26	08			10	44	
Cum. Cr. for 2 Yr PG Degree			54	16	4	4	10	88	
		8.0	2 Years: 4 Sem. PG Degree (88 credits) after Three Year UG Degree or 1 Year – 2 Sem PG Degree (44 Credits) after Four Year UG Degree						
			Course Work Min. 12 (3 Courses of 4 Credits Each 4 X 3 = 12)	Training in Teaching/Education/Pedagogy : 4			Min. 16 + Ph.D. Work		Ph.D. in Subject

Professor & Head 23/1/
Department Of Economics
Dr. Babasaheb Ambedkar
Marathwada University
Aurangabad-

M. A. PROGRAMME

COURSE STRUCTURE

M. A. I SEMESTER

Course Code	Title of the Course
Mandatory Course (Compulsory)	
ECODM-101	Micro Economics-I
ECODM-102	Macro Economics-I
ECODM-103	Mathematics for Economics
ECODM-104	Statistics for Economics
Research Methodology	
ECODM-105	Research Methods in Economics
Bridge Course	
ECODB-106	Bridge Course in Economics
Generic Electives	
(select any one papers)	
ECODE-101	Demography
ECODE-102	Agricultural Economics
ECODE-103	Growth Economics
ECODE-104	International Economics
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M. A. II SEMESTER

Course Code	Title of the Course
Mandatory Course(Compulsory)	
ECODM- 201	Micro Economics-II
ECODM-202	Macro Economics-II
ECODM-203	Econometrics
ECODM-204	Statistical Methods
On Job Training / Field Project	
ECODM-205	On Job Training / Field Project
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Generic Electives	
(select any one papers)	
ECODE-201	Industrial Economics
ECODE-202	Rural Development
ECODE-203	Indian Economic Thinkers
ECODE-204	Monetary Economics
ECODE-205	Economics of Social Sector

M. A. III SEMESTER

Course Code	Title of the Course
ECODM-301	Indian Economy
ECODM-302	Public Economics
ECODM-303	Mathematical Economics
ECODM-304	Computer Applications in Economics
Research Project	
ECODM-305	Research Project
Generic Electives	
(select any one papers)	
ECODE-301	Banking
ECODE-302	Development Economics
ECODE-303	Environmental Economics
ECODE-304	International Finance
ECODE-305	Gender Economics

M. A. IV SEMESTER

Course Code	Title of the Course
ECODM-401	Indian Economy Policy
ECODM-402	Public Finance
ECODM-403	Econometrics Methods and Applications
--	--
Research Project	
ECODM-405	Research Project
Generic Electives	
(select any one papers)	
ECODE-401	Theory of Firms
ECODE-402	Mathematical Programming
ECODE-403	Financial Markets
ECODE-404	Labour Economics
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DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics(NEP) I Year (Semester-I)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM-101	Micro Economics-I	4	20	80	100
ECODM-102	Macro Economics-I	4	20	80	100
ECODM-103	Mathematics for Economics	4	20	80	100
ECODM-104	Statistics for Economics	2	10	40	50
Research Methodology					
ECODM-105	Research Methods in Economic	4	20	80	100
Bridge Course					
ECODB-106	Bridge Course in Economic	4	20	80	100
Generic Electives (Select any one papers)					
ECODE-101	Demography	4	20	80	100
ECODE-102	Agricultural Economics	4	20	80	100
ECODE-103	Growth Economics	4	20	80	100
ECODE-104	International Economics	4	20	80	100
	Total Credits	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP) I Year (Semester-II)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM- 201	Micro Economics-II	4	20	80	100
ECODM-202	Macro Economics-II	4	20	80	100
ECODM-203	Econometrics	4	20	80	100
ECODM-204	Statistical Methods	2	10	40	50
On Job Training / Field Project					
ECODM-206	On Job Training / Field Project	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-201	Industrial Economics	4	20	80	100
ECODE-202	Rural Development	4	20	80	100
ECODE-203	Indian Economic Thinkers	4	20	80	100
ECODE-204	Monetary Economics	4	20	80	100
ECODE-205	Economics of Social Sector	4	20	80	100
	Total	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP) II Year (Semester-III)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
Mandatory Courses (Compulsory)					
ECODM-301	Indian Economy	4	20	80	100
ECODM-302	Public Economics	4	20	80	100
ECODM-303	Mathematical Economics	4	20	80	100
ECODM-304	Computer Applications in Economics	2	10	40	50
Research Project					
ECODM-305	Research Project	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-301	Banking	4	20	80	100
ECODE-302	Development Economics	4	20	80	100
ECODE-303	Environmental Economics	4	20	80	100
ECODE-304	International Finance	4	20	80	100
ECODE-305	Gender Economics	4	20	80	100
	Total Credits	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP) II Year (Semester-IV)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
Mandatory Courses (Compulsory)					
ECODM-401	Indian Economy Policy	4	20	80	100
ECODM-402	Public Finance	4	20	80	100
ECODM-403	Econometrics Methods and Applications	4	20	80	100
Research Project					
ECODM-405	Research Project	4	--	--	150
Generic Electives (Select any one papers)					
ECODE-401	Theory of Firms	4	20	80	100
ECODE-402	Mathematical Programming	4	20	80	100
ECODE-403	Financial Markets	4	20	80	100
ECODE-404	Labour Economics	4	20	80	100
	Total	**22**			

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

DEPARTMENT OF ECONOMICS

M. A. Syllabus (NEP with effect from 2023-24)

Course Code No.: ECODM-101	No. of Credits: 04	Semester: I
Course Title:MICRO ECONOMICS - I		

Course Objectives:

1) To develop an understanding of the basic principles of microeconomics
2) To enable students to understand and analyzethe behavior of firms and consumers in different market structures, how prices are determined in different market structures.
3) To prepare students for further courses which require a knowledge of Micro Economics.

Unit	Course Content	Periods
I	**Consumer Behaviour** : Cardinal And Ordinal Utility Approach Revealed Preference Hypothesis Concept of Elasticity - Price, Income & Cross Elasticity. The Neuman Morgenstern Method – The Friedman - Savage Hypothesis	20
II	**Theories of Production And Costs:** 2.1 Production Function: Production with one variable ,Production with two variable inputs: Isoquents Cobb – Douglas production function CES production function & their properties Translog Production Function 2.2 Cost concepts Short run and long run cost curves The traditional theory of cost – The envelope curve The modern theory of cost – The 'L' shaped curve	15
III	**Behavior of Firm:** Perfect competition-Monopoly- Price discrimination-Monopolistic competition-Oligopoly – Price leadership-Cournot's model-– Kinked demand curve .	15
IV	**Game Theory: (Basic Introduction**)- Description of a game, Normal form representation of game, Extensive form representation of game, Solution concepts— Nash Equilibrium, Mixed strategies, Repeated games, Sequential games, Refinement: Sub-game perfection- Two person Zero Sum Game- Prisoners Dilemna	10
Course Outcomes: After completion of this course, students show be able to : 1) Analyse theories of economic agents. 2) Identify risks in investment. 3) Illustrate theory of consumer behaviour.		

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, Estern Economy Edition, Prentice Hall fo India.

4. Koutosoyiannis, A: Modern Micro Economics, Macmillan Press, London

5. Sen A (1999) Microeconomics: Theory & Applications, Oxford University Press, Princetore.

6. Ahuja H. L. AdvancedEconomic Theory, S. Chand & Company, Delhi.

7. M. Maria John Kennedy: Advanced Mocroeconomic Theory, Himalaya Publishing House, Delhi.

8. D. Bose, A. Marimuthu: An Introduciton 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).

Course Code No.:ECODM-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	**Introduction:** Meaning of Macroeconomics and it's distinguishing features - GDP and it's Measurements - nominal and real GDP - aggregate income and expenditure - International transaction and GDP.	15
II	**Determination of National Income :** Classical theory of income determination, Keynes model of National income determination, IS-LM analysis, Phillips curve, Friedman – Phelps amendment.	15
III	**Theories of Consumption and Investment:** Keynes and the consumption function, Keynes Multiplier, The Absolute income Hypothesis, Relative income hypothesis, the Permanent income hypothesis - The investment function, MEC, The Accelerator theory of investment, The Internal Funds theory of investment, Neoclassical theory of investment.	15
IV	**Supply of Money and Demand for Money:** Money and its functions, Concept of Money supply, Measures of money supply, High powered money, Money multiplier; controls on money supply. Classical Quality Theory of Money:Fisher's transaction approach, Cambridge Cash Balance Approach, Keynes theory of demand for money –Modern theories of demand for money by Baumol, Tobinand Friedman.	15

Course outcome:

    Upon successful completion of the course, students shall be able to

1. Explain how equilibrium income is attained
2. Describe how consumption is determined by the various factors
3. Describe relationship between the income and investment and vice-versa

Suggested Readings:

1) Macro Economics, RudigerDorbusch&Stantey Fischer, McGraw Hill, International Editions, 2006.

2) Maykiw N. Gregom, Macroeconomics, Worth Publishers, 2003.

3) Errol D'sovza, 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, Cambridge, 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) RudigerDornbusch, Stanley Fisher, Macroeconomics, Tata McGraw– 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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Course Code No.: ECODM-103	No. of Credits:04	Semester:I
Course Title:	**MATHEMATICS FOR ECONOMICS**	

Course Objectives:

1. To develop logical reasoning with mathematical techniques for economic analysis.
2. To build capacity of students for applying different mathematical tools.
3. To train the students to use the techniques of mathematical analysis, which are commonly applied to understand and analyze economic problems.
4. To provide mathematical techniques for scientific study of other branches in economics.

Unit	Course Content	Periods
I	**Preliminaries:** A review of some basics mathematical concepts and operations; variables, constants, parameters, equations, and identities; number system; sets and functions; relations and their proper ties; types of functions; functions of more than one variables; Limit and continuity of the function.	10
II	**Differentiation:** Limit and continuity of the function .Rules of limit. Simple differentiation : Basic principle, Laws of differentiation , principals of maxima, minima evaluation of the functions applications in economic analysis Partial differentiation: Meaning, rules, examples applications in economics. Total differentiation: meaning , examples applications in economics	20
III	**Integration;** Rules of Integration; Taylor Series Formula, Application to Consumer's Surplus and Producer's Surplus; Growth Rates and Simple Properties of Time Path of Continuous Variables, introduction to differential equations and difference equations.	15
IV	**Matrix and Determinant :** vectors ,matrix:- order, rank, Types of matrices, laws of matrices, algebra of matrices, inverse matrix Cramer's rule, and Eigen vectors, determinants , properties of determinants,Applications of matrices in economics, Input-Output .	15
	Course outcome: The students shall get 1. Knowledge regarding effective role mathematical concepts in economic analysis. 2. An idea of differentiation for optimization of the functions. 3. Knowledge of integration for consumer and producer behavior analysis.	

Reading

1. Aggarwal B.M.(2010) ,Business Mathematics & Statistics, Ane Books Pvt. Ltd,   New Delhi

2. Agrwal H.S;(1976) , Introduction to Econometric, Lakshimi Narayan PublishingHouse , Agra

3. Allen, R. G. D. (1974), Mathematical Analysis for Economists, MacmillanPress and ELBS, London.

4. Ann J.Hughes ,Dennis E.Grawiog-Linear Programming : An Emphasis on Decision Making, Addison-Wesley Publishing Company,Inc,London,1973

5. Baumol, W. J. (1984), Economic Theory and Operations Analysis, Prentice Hall, Englewood Cliffs, New Jersey.

6. Baumol, W.J. (1977). *Economic Theory and Operations Analysis,* Prentice Hall.

7. Bhose D.(2007) , Mathematical Economics,Himalaya Publishing House,Nagpur,

8. Chiang, A. C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.

9. Dowling E.T;*Introduction to Mathematical Economics (2ndEdition),(Schaum's Outline Series of Theory and Problems)*, McGraw-Hill, USA, 1992

10. Henderson &Qudant, Micro Economic Theory –a mathematical approach , Mc.Grow Hill Book Company , New York.

11. I.N. Bronshtein, K.A. Semendyayev,G.Musiol,H.Muehlig-Handbook of Mathematics ,Springer,New York, 4th Edition.

12. James H. Fife-Calculus :For Business And economics , MacmillanPublishing Co., New York.

13. Mehta &Madnani (1992). *Mathematics for Economists*, S. Chand, New Delhi

14. Monga G.S.(199), Mathematics & Statistics For Economics,Vikas PublishingHouse Pvt.Ltd. New Delhi.

15. P.N.Mishra,(2003) ,Quantitative Techniques for Managers, Excel Books Private Limited, New Delhi

16. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

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Course Code No.: ECODM-104	No. of Credits: 02	Semester:I
Course Title:	**STATISTICS FOR ECONOMICS**	

Course Objectives:

1. To develop the students ability to deal with numerical and quantitative issues in Economics
2. To enable the use of statistical, graphical and algebraic techniques wherever relevant for effective economic interpretation.
3. To development thinking for establish relations between the economic and social factors.
4.Increased use of quantitative and mathematical tools in research activities.

Unit	Course Content	Periods
I	**Measures of central tendency and Dispersions:** 1.1 Statistics: meaning, nature, scope and limitations. 1.2 Frequency Distribution- meaning and types ,conversion of inclusive to exclusive series. 1.3 Measures of central tendency: prerequisite of ideal measure of central tenancy Determination of arithmetic mean, geometric mean,media and mode. 1.4 Merits and demerits of measures of central tendency .selection of appropriate measure. 1.5Measures of Dispersions : Properties of good measures of dispersions, range standard deviation, variance ,coefficient of variation. 1.6 Determination and presentation with computer.	15
II	**Correlation Analysis** 2.1 Meaning and kinds of Correlation. 2.2 Simple Correlation Analysis; Pearson's Product Moment Method&Spearman's Rank Correlation Coefficient , concurrent method determination and uses. 2.3 Partial and Multiple Correlation Analysis determination and uses. 2.4 Properties of Correlation Coefficient. 2.5 Determination and presentation with computer.	15
	Course Outcome: By completing this course the students will learn 1.knowledge of Statistics and its scope and importance in various areas. 2.knowledge of various types of data, their organization and evaluation of summary measures such as measures of central tendency and dispersion etc. 3.Skills of analysis of various concepts in economics with statistical tools for accuracy.	

Suggested Readings

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. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics   (3rd Edition), Macmillan
        Publishing Co., New York.

4. Millar, J. (1996), Statistics for Advanced Level, Cambridge University   Press, Cambridge

Additional Reading

1.Bez, K. (1983). *An Introduction to Input Output Techniques*, N.B.T., Goel Publishing House, Meerut.

2. Chou, Y. (1975), Statistical Analysis, Holt, Reinhart and Winston, New York.

3. Croxton, Crowden and Klein (1971), Applied General Statistics, Prentice Hall of India, New

Delhi.

4.Croxton and Cowden (1973) Applied General Statistics (New Delhi: Prentice Hall of India).

5.Clarence E. Tuites –Basics Mathematics for Technical Courses, Prentice –Hall , Inc.1960

6. Goon, A. M., M. K. Gupta and B. Dasgupta (1993), Fundamentals of Statistics, Vol. 1, The World Press Ltd.,
        Calcutta.

7. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics   (3rd Edition), Macmillan
        Publishing Co., New York.

8.Mathur, P.N. and R. Bhardwaj (eds.) (1967). *Economic Analysis in Input-Output Research*.Input-Output
        Research Association of India, Pune.

9. Miller, R.K. (1995) Introduction to Statistics for Business and Economics (St. Martin Bros. New York).

10.Monga, G. S. 91972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi

11. Nagar, A. L. and R. K. Das (1993), Basic Statistics, Oxford University Press,   New Delhi.

12.Rao, C.R. (1965). *Linear Statistical Inference and Applications*, Wiley and Sons.

13.Salvatore D., Theories and Problems of Statistics and Econometrics, McGraw-Hill, 1982,

14.Sukhatme, P. V. and B. V. Sukhatme (1970), Sampling Theory of Survey with Applications, Lowa State

University

15 Wallis, W.A. (1956).*Statistics - A New Approach*, The Free Press, Illinnois.

Course Code No.: ECODM-105	No. of Credits: 04	Semester: - I
Course Title:	**RESEARCH METHODS IN ECONOMICS**	

Course Objectives:
1. Understand hour to proceed with academic research.
   2. Become a god researcher
   3. Do advanced data analysis.

Unit	Course Content	Periods
I	**Introduction to Research Methodology:** **1.1 Philosophy Of Research:**Characteristics Of Scientific Methodology,Qualities Of A Good Researcher ,Rule Of Academic Research,Research Process ,Types of Research ,Research Design ,Grammar, Punctuation And Convention Of Writing , How To Use Dictionaries,Literature Review, Books And Paper Review **1.2 Numerical Measures**: Measures of Location; Measures of Variability; Measures of Distribution Shape, Relative Location and Detecting Outliers; Exploratory Data Analysis; Measures of Association Between Two Variables;Weighted Mean; Grouped Data	15
II	**Sampling Design :** **2.1** Types Of Data Survey, **2.2** Criterion Of Good Sample**,** **2.3** Types Of Sampling Design: Probability Sampling , Non Probability Sampling And Mixed Sampling **2.4**Methods Of Data Collection	15
III	**Data Analysis** **3.1** Index Number: Karl Person and Brawley measures index number - types uses problems in its construction, Weighted indices: Lasapeyers, Paasche Fisher **3.2** Test of Hypothesis**:** Hypothesis Tests: Developing Null and Alternative Hypotheses; Type I and Type II Errors, Inference About Means and Proportions withTwo Populations: Inferences About the Difference Between Two Population Means: $\sigma 1$ and $\sigma 2$ Known , Inferences About the Difference Between Two Population Means: $\sigma 1$ and $\sigma 2$ Unknown ,Parametric And Non-Parametric Test.	20
IV	**Interpretation And Report Writing:** **4.1** Writing A Research Report **4.2** Referencing Styles In Research **4.3**Writing A Bibliography	10

Course Outcome :
    1.   Internalize research ethic.
    2.   Use sampling techniques.
    3. Test hypotheses.		

References:

1. Kothari C. R. (1988) Research Methodology Method and Techniques, Wiley Eastern Limited, New Delhi.

2. Krishnaswamy, O. R. Methodology of Research in Social Sciences, Himaliya Publishing House, 1993

3. Wilkinson and Bhandarkar, Methodology and Techniques of Social Research, Himalaya Publishing House.

4. Kothari C. R., Research Methodology Method and Techniques, New Age International Publishers, IInd Revised Edition, Reprint 2008.

5. Les Oakshott Essential Quantitative Methods for Business Mangemetn and Finance, Palgrave.

6. Cooper D. and Schindler P. Business Research Methods, Tata McGraw Hill, Sultan Chand and Sons.

7. Don E. Ehridge, Research Methodology in Applied Economics: Organizing Planning and Conducting Economic Research, John Wiley and Sons, April 2004.

8. Gopal M. H., An Introduction to Research Procedure in Social Sciences, Asia.

9. Young P. V., Scientific Social Survey and Research, Prentice Hall of India Ltd., New Delhi, 1984.

10. Paul Oliver (2008), Writing your thesis, Sage Publications, New Delhi.

11. Pal and Suri (2015), English Grammar and Composition, S Chand and Sons, New, Delhi

12. Kothari R C (2008), Research Methodology, New Age International Publishers

13. Young P V (1984), Scientific Social Survey and research, Prentice Hall, New Delhi

Course Code No.: ECODB-106	No. of Credits: 04	Semester: - I
Course Title:	BRIDGE 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, Consumer behavior, Demand, Supply, Production and Cost, Market Equilibrium, Market Forms – Monopoly, Monopolistic competition, Oligopoly, perfect competition and Welfare economics.	15
II	**Introduction of Macroeconomics** Some basic concepts: Classical and Keynesian Economics, investment and consumption functions, Circular flow of income; Concept of NI, MEC, Multiplier	15
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.	15
IV	**Indian Economy** Features of Indian economy, Demographic Conditions – Occupational Structure –The Goals of Five Year Plans – Agriculture – Industry And Trade – Trade Policy: Import Substitution, Economic Reforms, Liberalization, Privatizationand Globalization : An Appraisal – Background –Indian Economy During Reforms, Current Challenges Facing the Indian Economy, Taxes in India – Direct & Indirect Taxes, VAT, GST, LBT., Government budget - meaning, objectives and components,	15

Course Outcome :

1. Understand the philosophy of Economics.
2. Recognize important concepts in Economics.
3. Connect with the ideas in Economics.

Suggested Readings

1. Ahuja H. L. AdvancedEconomic Theory, S. Chand & Company, Delhi.

2. D. Bose, A. Marimuthu: An Introduciton 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, RudigerDorbusch&Stantey Fischer, McGraw Hill, International Editions, 2006.
5. Maykiw N. Gregom, Macroeconomics, Worth Publishers, 2003.
6. Gupta S. B., Monetavy 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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Course Code No.: ECODE-101	No. of Credits: 04	Semester: I
Course Title:	**DEMOGRAPHY**	

Course Objectives:

After the reading, Writing and Teaching students will be able to:

1) To Know the basic concept of Demography.
2) To know introduce the student to the theory of demography,
3) To know Basic demographic techniques
4) To know main features of the demography of India.

Unit	Course Content	Periods
I	**Introduction of Demography:** Nature, Scope , limitation and importance of Demography, Environmental study and demography:- its relations with other disciples, Theories of population (Thomas Malthus, Optimum Theory, Transaction)	15
II	**Demographical Dividend in India:** Census in India 2011. Reservation Dispute of Caste wise census in India (Open ,SEBC, Nomadic tribes, Third Gender, etc), Distribution of World Population, Definition, Sources of demographic data: Census, National Family Health Survey, WSSO – Demographic Dividend in India, Opportunities of Demographic Dividend, Challenges of Demographic Dividend.	15
III	**Demographic Methods and Trends and Policy India:** Population structure, Age and sex structure, Food, Factors determining age structure, M. P. Todaro Migration Theory, Effects of Migration on age Structure, Causes of declining fertility, FMR, New population policy of India, Evaluation of Population policy in India, Population Policy And Public Distribution system in India, women Access to Nutrition, aging of population, Mortality Influencing Policy, Migration Influencing Policy, Urbanization National rural health mission.	15
IV	**Study of fertility and technique of analysis:** Specific fertility rate, total fertility, Meaning Crude, Measurement of mortality: indirect estimation; infant and perinatal mortality. Nuptiality: proportion of never-married in population, mean age at marriage, Density of population, Construction of Life Table	15

Course Outcome:

After completion of this course, students show be able to :

1. Explain the concepts of demography.

2. Apply the techniques of demographic methods.

3. Express methods and relationship between demographic concepts.

Basic Reading List:

1. Ahmad, Noina Sharma (1997), Demographic Transition, Rawat Publications, New Delhi,

2. Alfred Savvy (1974), General Theory of Population, Nethuen& Co Ltd, London.

3. Bhende&Kanitkar (1982). Principles of population Studies , Himalaya Publishing Home, Mumbai.

4. Agarwal S. N. (1972), India's Population Problem, Tata McGraw-Hill, Co., Bombay.

5. Mishra, B.D. (1980), An Introduction to Study of Population, South Asian Publishers, New Delhi.

6. Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage Publications, New Delhi.

7. Chenery H. and T. N. Srinivasan (Eds.) (1989), Hand Book of Development Economics, Vol. 1 & 2 Elsevier, Amsterdam, et.

8. Choubey, P. K. (2000), Population Policy in India, Kanishka Publications, New Delhi.

9. 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.

10. Gulati, S. C. (1988), Fertility in India; AnEconometric Study of a Metropolis, Sage, New Delhi.

11. Simon, J. L. (1992), Population and Development in Poor Countries, Princeton University Press.

12. Srinivasan, K., Basic Demographic Techniques and applications, Sage Publications, New Delhi, 1992.

13. Bhende and Kanitkar, Principles of Population Studies, Himalaya Publishing House, Delhi, 2003.

14. Sryrock, H. et. Al (1973), The Methods and Materials of Demography, US Department of Commerce, Washington D.C.

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Course Code No.: ECODE-102	No. of Credits: 04	Semester: I
Course Title:	**AGRICULTURAL ECONOMICS**	

Course Objectives:
1. To Provide a detailed treatment of issues in agricultural economics to those intending to specialize in this area.
2. To aware the students with the policy issues that are relevant to Indian agricultural sector and enable them to analyze the issues, using economic concepts.
3. To understanding the issues relating to Indian agriculture and farmers welfare.

Unit	Course Content	Periods
I	**Introduction to Agricultural Economics:** Nature and scope of agricultural economics, Inter-sector linkages of agriculture, Contribution of agriculture in economic development, Decline role of agriculture in economic development.	15
II	**Production Relationship:** Production decision, Production functions in agriculture, Farm size and productivity, Theories of agriculture development, (Lewis, Fei-Ranis and Sehultz).	15
III	**Agriculture Price Policy:** Market structure and imperfections, State policy with respect to agricultural marketing, Supply response of farm product, Characteristics of demand for farm products, Rational for and types of governmental intervention for price support and reduction in instability, Alternative concepts of cost of cultivation and determination of minimum support prices in India.	15
IV	**International Trade & Agriculture :** International trade in agricultural commodities, Domestic agricultural policies and trade policies of developed & underdeveloped countries and their impacts on world trade, WTO and its impacts on Indian agriculture; Rational for govt. intervention in rural credit markets in India.	15

Course Outcome:
1. Understand the inter-sector linkages and contribution of agriculture in economic development.
2. Understand the various government policies for agriculture and its implications.
3. Understanding of the issues relating to Indian agriculture and farmers welfare.

Suggested Readings:

1.Bruce L. Gardener &Gorden C. Rausser (Eds.), Handbook of Agricultural Economics, Vol. 142, Amersterdam, Elsevier Science B. V. , 2002.

2. GhatakSubrata& Ken Ingersent, Agriculture & Economic Development, Harvestor Press Ltd., London, 1984.

Additional Readings:

1. Alagh Y. K. (2013), The Future of Indian Agriculture, National Book Trust, New Delhi.

2. Bardhan, P. (1984), Land Labour and Rural Poverty, Oxford University Press, New Delhi.

3. Bhalla, G. S. (1994), Economic Liberalization and Indian Agricultural Institute for Studies in Industrial Development, New Delhi.

4. Bhardwaj, K. (1974), Production conditions in Indian Agriculture, Cambridge University Press, Cambridge,

5. Bilgrami, S. A. R. (1996), Agricultural Economics, Himalaya Publishing House, New Delhi.

6. Bilgrami, S. A. R. (2000), An Introduction of Agricultural Economics, Himalaya Publishing House, Mumbai.

7. Brahmananda, P.R. and V.R. Panchumukhi (Eds.) (1987), The Development Process of the Indian Economy, Himalaya Publishing House, Bombay.

8. Chakravarty, S. (1987), Development Planning : The Indian Experience, Oxford University Press, New Delhi.

9. Chandha, G.K. A.N. Sharma (1997), Growth, Employment and Poverty; Change and continuity in Rural India; Vikas Publishing, New Delhi..

10. Chelliah, Raja J. and R. Sudarshan (1999), Income, poverty and Beyond : Human Development in India, Social Science Press, New Delhi.

11. Dantwala, M.L. (1996), Dilemmas of Growth : The Indian Experience, Sage Publication, New Delhi.

12. Dantwala, M.L. Et. (1991), Indian Agricultural Development since Independence, Oxford and IBH, New Delhi.

13. Government of India, Economic Survey (Annual), New Delhi.

14. Government of Indian (1976), Report of the National Commission on Agriculture, New Delhi.

15. Gulathi, A. and T. Kelly (1999), Trade Liberalization and Indian Agriculture, Oxford University Press, New Delhi.

16. Haque, T. and A.S. Sirohi (1986),

17. Joshi, P.C. (1975), Land Reforms in India: Trends and Prospects, Allied Publisher, Bombay.

18. Kahlon, A.S. and Tyagi D.S. (1983), Agricultural price policy in India, Allied publisher; New Delhi.

19.   Meier, G.M. (1995), Leading issues in Economic Development Oxford University Press, New Delhi.

20.   Raj, K. N. et. al (1988), Essays in the commercialization of Indian Agriculture, Oxford University Press, New Delhi.

21.   Rao, C.H. Hanumantha (1975), Agricultural Growth Rural Poverty and Environment Degradation in India Oxford University Press, New Delhi.

22.   Rao, C.H. Hanumantha (1975), Technological change and Distribution of gains from Agriculture, Macmillan, New Delhi.

23.   Reghvan and L. Sarkar (Eds.) (1996), Poverty and Employment, New Age, New Delhi.

24.   Rudra, A. (1982), Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi.

25.   Soni, R.N. (1995), Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.

26.   Thamarajakshi, R. (1994), Intersect oral Relationship in a Developing Economy, Academic Foundation, Delhi.

27.   Tyagi B. P. (2016), Agricultural Economics and Rural Development, JaiprakashNath&Co. Market.

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Course Code No.: ECODE-103	No. of Credits: 04	Semester: I
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 :** Beginning of Development Economics, Distraction between growth and development - Evolution of measures of development - Characteristics of less developed countries - performance of developing countries - Factors affecting economic growth - Limits to growth.	15
II	**Pre Keynesian theories of economic growth** J. S. Mill - Marshall - Alfred Adman Smith - David Ricardo - Joseph Schumpeter - Karl Marx -	15
III	**Post War, Development Theories:** Viciouscircle of Poverty - Big push - Balanced & unbalanced growth - Critical minimum effort thesis - Low level equilibrium trap - Rostow's stages of economic growth - Myrdal's theory of circular causation, dual economy model's - Lewis, Robinson, Jorgenson - Political economy of development & underdevelopment - Dependency theory of underdevelopment.	15
IV	**Modern theories of economic growth :** Harrod – Domor model - The neoclassical growth theories, Solow's model - Ricardian equivalence - The A K Model.	15

Course Outcomes:

1. Understand features of developing countries and factors for their less development
2. Know classical views on economic development
3. Understand dual economic models of development

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.

6) Baran, P. (1957), "Political Economy of Growth", Monthly Review Press.

7) Morriss, D. Morriss (1969),Indian Economy in the Nineteenth Century: A Symposium, Delhi: Indian Economic and Social History Association.

8) Roy. T. (2002), Economic History and Modern India: Redefining the Link, Journal of Economic Perspectives, 16(3).

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) SenAmarty 1999, "Commodities and Capabilities", OUP, New Delhi.

8) Bardhan, P. and ChirstopherUdry 1999, "Development Microeconomics", OUP, New Delhi.

9) Behrman S. and T. N. Srinivasan (1995) "Handbook of Development Economics", Vol. 3 Elsevier, 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) GimmellN. (1987), "Surveys in Development Economics", Blackwell, Oxford.

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Course Code No.: ECODE-104	No. of Credits: 04	Semester: I
Course Title:	**INTERNATIONAL ECONOMICS**	

Course Objectives:

After completion of course, students will be able to

1. Understand pure theory of trade, along with a background of the mercantilist doctrine.

2. Get to grips regarding the management of deficit on current account of balance of payments.

3. Understand how to trade in foreign exchange derivatives.

Unit	Course Content	Periods
I	**International trade and economic development** Gains from international trade - trade as an engine of growth, mercantilism and theories of international trade - Ricardo , Haberler, Stolper Samuelson theorem, product cycle and strategic trait theories	15
II	**Balance of payments** Balance of payments accounting Disequilibrium in balance of payments mechanisms of adjustments, foreign trade multiplier , terms of trade	15
III	**Restrictions on trade** Theory of tariffs Partial effects of tariff, regional trade agreements, bilateral trade agreements, and their implications Nontariff barriers to trade	15
IV	**Exchange rate** Floating rates, and their implications Currency boards, speculative attacks, hedging and arbitrate - the law of one price, import and exchange controls, multiple exchange rates, unskilled, labor and foreign exchange, international liquidity, futures and options contracts in the foreign exchange market and crypto currencies	15
	Course Outcome:- After completion of this course, students show be able to : 1) Articulate pure theory of trade 2) Illustrate role of government in trade 3) Criticize international economic integration.	

Basic Reading List:

1. Bhagwati, J (Ed) (1981), "International Trade: Selected Readings", Cambridge, University Press, Massachusetts.
2. Bhagwati and Sriniwasan (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.

M. A. PROGRAMME

COURSE STRUCTURE

M. A. I SEMESTER		M. A. II SEMESTER	
Course Code	**Title of the Course**	**Course Code**	**Title of the Course**
Mandatory Course (Compulsory)		**Mandatory Course(Compulsory)**	
ECODM-101	Micro Economics-I	ECODM- 201	Micro Economics-II
ECODM-102	Macro Economics-I	ECODM-202	Macro Economics-II
ECODM-103	Mathematics for Economics	ECODM-203	Econometrics
ECODM-104	Statistics for Economics	ECODM-204	Statistical Methods
Research Methodology		**On Job Training / Field Project**	
ECODM-105	Research Methods in Economic	ECODM-205	On Job Training / Field Project
Bridge Course		**--**	
ECODB-106	Bridge Course in Economics	--	--
Generic Electives **(select any one papers)**		**Generic Electives** **(select any one papers)**	
ECODE-101	Demography	ECODE-201	Industrial Economics
ECODE-102	Agricultural Economics	ECODE-202	Rural Development
ECODE-103	Growth Economics	ECODE-203	Indian Economic Thinkers
ECODE-104	International Economics	ECODE-204	Monetary Economics
--	--	ECODE-205	Economics of Social Sector
M. A. III SEMESTER		**M. A. IV SEMESTER**	
ECODM-301	Indian Economy	ECODM-401	Indian Economy Policy
ECODM-302	Public Economics	ECODM-402	Public Finance
ECODM-303	Mathematical Economics	ECODM-403	Econometrics Methods and Applications
ECODM-304	Computer Applications in Economics	--	--
Research Project		**Research Project**	
ECODM-305	Research Project	ECODM-405	Research Project
Generic Electives **(select any one papers)**		**Generic Electives** **(select any one papers)**	
ECODE-301	Banking	ECODE-401	Theory of Firms
ECODE-302	Development Economics	ECODE-402	Mathematical Programming
ECODE-303	Environmental Economics	ECODE-403	Financial Markets
ECODE-304	International Finance	ECODE-404	Labour Economics
ECODE-305	Gender Economics	--	--

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

DEPARTMENT OF ECONOMICS

M. A. Syllabus (NEP with effect from 2023-24)

DETAILS OF COURSE STRUCTURE (2023-24)

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

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM-101	Micro Economics-I	4	40	60	100
ECODM-102	Macro Economics-I	4	40	60	100
ECODM-103	Mathematics for Economics	4	40	60	100
ECODM-104	Statistics for Economics	2	20	30	50
Research Methodology					
ECODM-105	Research Methods in Economic	4	40	60	100
Bridge Course					
ECODB-106	Bridge Couirse in Economic	4	40	60	100
Generic Electives (Select any one papers)					
ECODE-101	Demography	4	40	60	100
ECODE-102	Agricultural Economics	4	40	60	100
ECODE-103	Growth Economics	4	40	60	100
ECODE-104	International Economics	4	40	60	100
	Total Credits	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)

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

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM- 201	Micro Economics-II	4	40	60	100
ECODM-202	Macro Economics-II	4	40	60	100
ECODM-203	Econometrics	4	40	60	100
ECODM-204	Statistical Methods	2	20	30	50
On Job Training / Field Project					
ECODM-206	On Job Training / Field Project	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-201	Industrial Economics	4	40	60	100
ECODE-202	Rural Development	4	40	60	100
ECODE-203	Indian Economic Thinkers	4	40	60	100
ECODE-204	Monetary Economics	4	40	60	100
ECODE-205	Economics of Social Sector	4	40	60	100
	Total	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP) II Year (Semester-III)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	**Semester End Examination (External)**	**Total**
Mandatory Courses (Compulsory)					
ECODM-301	Indian Economy	4	40	60	100
ECODM-302	Public Economics	4	40	60	100
ECODM-303	Mathematical Economics	4	40	60	100
ECODM-304	Computer Applications in Economics	2	20	30	50
Research Project					
ECODM-305	Research Project	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-301	Banking	4	40	60	100
ECODE-302	Development Economics	4	40	60	100
ECODE-303	Environmental Economics	4	40	60	100
ECODE-304	International Finance	4	40	60	100
ECODE-305	Gender Economics	4	40	60	100
	Total Credits	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP) II Year (Semester-IV)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	**Semester End Examination (External)**	**Total**
Mandatory Courses (Compulsory)					
ECODM-401	Indian Economy Policy	4	40	60	100
ECODM-402	Public Finance	4	40	60	100
ECODM-403	Econometrics Methods and Applications	4	40	60	100
Research Project					
ECODM-405	Research Project	4	--	--	150
Generic Electives (Select any one papers)					
ECODE-401	Theory of Firms	4	40	60	100
ECODE-402	Mathematical Programming	4	40	60	100
ECODE-403	Financial Markets	4	40	60	100
ECODE-404	Labour Economics	4	40	60	100
	Total	**22**			

Course Code No.: ECODM-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	**Managerial Theories of Firm:** Approach.Williamson's Model Of Managerial Discretion – Hall &Hitch Report &Full Cost Pricing Principle – Bains Limit Price Principle, Baumol's Sales Revenue Maximization Hypothesis-	15
II	**Theories of Distribution** : Marginal Productivity Theory – Factor Shares and adding up problems - Product Exhaustion Theorem – Technical Progress - Macro Theories Of Distribution – Ricardo, Marx Kalecki,Kaldor	15
III	**Theory of General Equilibrium:** Partial equilibrium and general equilibrium approach. Exposition of basic concepts. An elementary general equilibrium model – The Robinson Crusoe Economy. Pure exchange economy – the EdgeworthBoxe, contract curve, Walras Law, Walras equilibrium. General conditions for uniqueness, and discussion of stability.	15
IV	**Welfare Economics:** Pigou'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.	15

Course Outcome: -

After completion of this course, students show be able to :
1) Student will able and describe prices are determined in different market structure
2) Evaluate how factor prices and limits prices are determined.
3) Discuss 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 a 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.

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Course Code No.: ECODM-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.	15
II	**New Classical Macroeconomics:** Monetarism – Rational expectations equilibrium approach – the equilibrium approach – the supply side economics – the new Keynesianism, Macroeconomics Policy Issues – Activist Policy – Rules Versus Discretion – Alternative Strategic to Reduce Inflation – Gradualism Versus Cold Turkey –	15
III	**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. The new classical approach to Fiscal policy – Unpleasant monetarist Arithmetic.	15
IV	**Growth Analysis:** Sources of economics growth – Empirical Estimates of the sources of growth – neo-classical growth models – convergence – endogenous growth	15

Course Outcome:
After completion of this course, students show be able to : 1) Analyse effect of monetary expansion using aggregate supply curve 2) Discuss people's economic behavior, and the microeconomic foundation of   macroeconomics. 3) Explain the limits of government to intervene in market and people's response to government   policies

References:

1) Edgmand M R, Macroeconomics - Theory and Policy, PHI Publication, New Delhi.

2) McConnell C R and H C Gupta, Introduction to Macroeconomics, Tata McGraw– Hill Publishing Co. Ltd., New Delhi.

3) Turnovsky S J, Macroeconomic Analysis and Stabilization Policy, Cambridge University Press.

4) Oliver Jean Blanchard and Stanley Fisher, Lectures on Macroeconomics, PHI Pvt. Ltd., New Delhi.

5) D'souza Errol, Macroeconomics. Pearson Education, Delhi.

6) Harris, Monetary Economics, OVP.

7) Romer, David (DR), Advanced Macroeconomics, Second Edition, McGraw-Hill, International Edition (Economics Series), 2001.

8) Wickens, Michael (MW), Macroeconomic Theory: A Dynamic General Equilibrium Approach, 2008, Princeton University Press, Princeton and Oxford.

9) Lance Thylor, Reconstruction Macroeconomics, Hayward University Press, Cambridge, 2004.

10) Ben J. Heijdra and Frederick Van DP Foundation of Modern Macroeconomics, Oxford

11) Barro, Robert J. and Sala – i – Martin, Xavier Economic Growth , Second Edition, Prentice Hall, India, 2014

12) Balanchard, Olivier Jean and Fischer, Stanley Lectures on Macroeconomics, 2000, Prentice Hall, India.

13) Romer, David (DR), Advanced Macroeconomics, Second Edition, McGraw-Hill, International Edition (Economics Series), 2001.

14) Wickens, Michael (MW), Macroeconomic Theory: A Dynamic General Equilibrium Approach, 2008, Princeton University Press, Princeton and Oxford.

15) Lance Thylor, Reconstruction Macroeconomics, Hayward University Press, Cambridge, 2004.

16) Ben J. Heijdra and Frederick Van DP Foundation of Modern Macroeconomics, Oxford.

17) Gupta S. B., Monetary Economics, Institutions, Theory and Policy, S. Chand & Company Ltd., New Delhi.

18) RudigerDornbusch, Stanley Fisher, Macroeconomics, Tata McGraw– Hill Publishing Co. Ltd., New Delhi.

19) Branson, W H, Macroeconomics - Theory and Policy, Harper and Row, New York

20) David Romer, Advanced Macroeconomics, McGraw –Hill International Edition.

21) Ben J.Heijdra and Fredirik Van Der Ploeg, Foundations of Modern Macroeconomics, Oxford University Press.

Course Code No.: ECODM-203	No. of Credits: 04	Semester: II
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	**Introduction:** Nature, meaning, definition and scope of econometrics, regression model, Types of Variables, reasons for inclusion of error term, econometric methodology principle of least squares, Ordinary least squares (OLS) estimation.	20
II	**Linear Regression Models / Analysis:** Simple, Multiple and General Linear Regression Model: Estimation and Inference, the classical assumptions, Gauss - Markov theorem and properties of the OLS estimators, goodness of fit, coefficient of determination.	20
III	**Non-Linear Regression models:** Semi-log, Polynomial, double-log and reciprocal regression models.	10
IV	**Problems in Regression Analysis**: Sources, consequences, tests and remedial measures for auto correlation, multicollinearity, heteroscedasticity, specification and measurement errors.	10
Course Outcome:- After completion of this course, students show be able to : 1) Explain empirically economic theory and test it. 2) Analyseeconometric model in the process of economic development. 3) 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 Publising 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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Course Code No.:ECODM-204	No. of Credits: 02	Semester: II
Course Title:	**STATISTICAL METHODS**	

Course Objectives:1

1. To train the students to use the techniques of mathematical and statistical analysis.

2. To introduce the fundamental concepts of statistical modeling, particularly linear regressionmodels.

3. To development forecasting techniques related to economics and social issues.

4. To understand the uncertain occurrence situations with logical manner.

Unit	Course Content	Periods
I	**Simple Linear Regression Analysis** 1.1Meaning , basic concepts of Regression . 1.2 Concept of Least Squares Method and examples. 1.3 Properties of Regression Coefficients /lines. 1.4 Standard Error of Estimate. 1.5 Coefficient of determination. 1.6 Applications in economics. 1.7 Determination and presentation with computer .	15
II	**Probability** 2.1 Introduction: Probability–Classical, Empirical and Axiomatic Definitions. 2.2Counting : Permutations and Combinations. 2.3 Events ; Random Experiments – Sample Space, various types of an events. 2.4 Laws of probability: Addition ,Multiplication laws and numerical problems. 2.5Conditional Probability - Discrete Probability distribution -Baye's Theorem and Expected Value Theorem. – Applications. 2.6Probability Distribution Functions :Discrete Probability Distribution, Continuous Probability Distribution, Uniform Probability Distribution, Normal, Binomial and Poison, Exponential Probability Distribution, Applications.	15
	Course Output : After completion of this course, students show be able to : 1) Correlate variables. 2) Use statistical tools in economic analysis. 3) Test hypotheses.	

Suggested Readings

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. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics   (3rd Edition), Macmillan Publishing Co., New York.

4. Millar, J. (1996), Statistics for Advanced Level, Cambridge University   Press, Cambridge

Additional Reading

1. Bez, K. (1983). *An Introduction to Input Output Techniques*, N.B.T., Goel Publishing House, Meerut.

2. Chou, Y. (1975), Statistical Analysis, Holt, Reinhart and Winston, New York.

3. Croxton, Crowden and Klein (1971), Applied General Statistics, Prentice Hall of India, New Delhi.

4. Croxton and Cowden (1973) Applied General Statistics (New Delhi: Prentice Hall of India).

5. Clarence E. Tuites –Basics Mathematics for Technical Courses, Prentice –Hall , Inc.1960

6. Goon, A. M., M. K. Gupta and B. Dasgupta (1993), Fundamentals of Statistics, Vol. 1, The World Press Ltd., Calcutta.

7. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics   (3rd Edition), Macmillan Publishing Co., New York.

8. Mathur, P.N. and R. Bhardwaj (eds.) (1967). *Economic Analysis in Input-Output Research*. Input-Output Research Association of India, Pune.

9. Miller, R.K. (1995) Introduction to Statistics for Business and Economics (St. Martin Bros. New York).

10. Monga, G. S. 91972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi

11. Nagar, A. L. and R. K. Das (1993), Basic Statistics, Oxford University Press,   New Delhi.

12. Rao, C.R. (1965). *Linear Statistical Inference and Applications*, Wiley and Sons.

13. Salvatore D., Theories and Problems of Statistics and Econometrics, McGraw-Hill, 1982,

14. Sukhatme, P. V. and B. V. Sukhatme (1970), Sampling Theory of Survey with Applications, Lowa State University

15. Wallis, W.A. (1956). *Statistics - A New Approach*, The Free Press, Illinno

Course Code No.: ECODM-205	No. of Credits: 04	Semester: II
Course Title:	**ON JOB TRAINING / FIELD PROJECT**	

Course Objectives:

1. To understand the skill requirement of employee.

2. To aware challenges and opportunity for job.

3. To train the student   to solve the social and economic issues in society.

4. To nurture students personality to face the issues in changing scenario.

Unit	Course Content	Periods
I	Student Can earn 4 credits by completing on job experience from any one of the following institution : 1.Banks 2.Insurance Companies 3.SEBI 4.Agro Based Industries 5.Dairy Farms 6.Credit Societies 7.Registered Companies OR Student can complete field work and submit research project related to his/her major subject. Student can select any topic in concern with his supervisor.	60

Course Outcome:

1) Recall the Fundamental concepts, theories and practices relevant to the field of work being undertaken in the OJT / field project.

2) Explain the roles, responsibilities and objectives of the job position or filed project tax.

3) Apply theoretical knowledge gained from academic course work to real world problems.

Course Code No.: ECODE-201	No. of Credits: 04	Semester: II
Course Title:	**INDUSTRIAL ECONOMICS**	

Course Objectives:

After completing the course, students will be able to

1. Understand the conduct and performance of firms in the context of the relevant market structure.

2. Know how imperfect information affects consumer behavior and firm's performance

3. Find extent of concentration of a firm in an industry.

Unit	Course Content	Periods
I	**Market structure-conduct - performance paradigm** Baumol's theory of contestable market -types of cost - fixed cost , sunk cost, opportunity cost and contestability, imperfect information, behavior of consumers and impact on performance of firms competition between IT-based forms and their marketing strategies Concentration ratio, Hirshman - Herfindahl index	15
II	**Product differentiation** Representative consumer approach and Chamberlin model of product differentiation and diversity of tastes, Hotelling's linear city model.	15
III	**Firm's investment decisions** Types of capital expenditures - capital, budgeting, investment decision techniques, payback period, Average annual rate of return, net present value, benefit cost ratio, internal rate of return, net terminal value method- Dealing with risk and uncertainty, decision tree method, accounting for inflation -the bracket creep effect.	15
IV	**Innovation and imitation** Adoption and diffusion of innovation - the political economy of patents, implications of competition act 2002 and patent act 2005 for Indian industry	15

Course outcome:
1. Understand market structure and its conduct.
2. Analyze firms investment decision.
3. Evaluate process of adoption and diffusion of new technology.

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) BasuKaushik, 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) MohantiBinode (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

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Course Code No.:ECODE-202	No. of Credits: 04	Semester: II
Course Title:	**RURAL DEVELOPMENT**	

Course Objectives:

- 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 Rural development-Nature, Special Programmes and Schemes for Rural Development:** 1.1 Concept, Scope, Objectives and Indicators of Rural Development 1.2 Integrated Rural Development Programme (IRDP) 1.3 Mahatma Gandhi National Rural Employment Guarantee Scheme MGNREGS) 1.4 PradhanMantriGraminSadakYojana (PMGSY) 1.5 Swarnjayanti Gram SwarojgarYojna (SGSY) 1.6 Training Rural Youth for Self Employment (TRYSEM)	15
II	**Rural Poverty in India** 2.1 Concept, types and measurement of poverty 2.2 Cases of poverty and Review of Poverty Alleviation and Employment Generation Programmes in India. 2.3 Rural Unemployment – Concept, Measurement and Types of Unemployment 2.4 Rural Development Strategies in India.	10
III	**Rural Credit in India** 3.1 Role of National, Regional, Rural, Cooperative and Private Sector Bank in Rural Development in India 3.2 Rural Schemes: Kisan Credit Card, Crop Insurance, JandhanYojana. 3.3 Rural Financing : Co-Operative Financing, Regional Rural Banks, NABARD 3.4 Rule of Government for Rural Credit in India	10
IV	**Divaricating of Rural Economy** 4.1 Characteristics of rural economy, scope, nature & role I rural development 4.2 Agriculture sector: conceptualization, scope, objectives, importance, indicators, role of agricultural and allied sector in rural India. 4.3 Industrial sector: nature, scope, importance, role of small scale industries in rural economy. 4.4 Service sector: definition, scope, kinds of service sector: communication, energy, transport, market, irrigation.	15
	Course Outcomes: After completion of this course, students show be able to : 1. Describe the dynamics of the rural economy. 2. Explain the objectives of various schemes for rural development. 3. Discuss sources and problems in rural credit.	

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. SatyaSundaram (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.

Course Code No.: ECODE-203	No. of Credits: 04	Semester: II
Course Title:	**INDIAN ECONOMIC THINKERS**	

Course Objectives:

After the reading, Writing and Teaching students will be able to:

1) To Know the concepts of Thoughts of economic Thinkers,

2) To understand the Thought Process

3) To express the own ideas in his life.

Unit	Course Content	Periods
I	**Indian Economic Thoughts** Kautilya Economic Thoughts, ChhatrapatiShivajiMaharaj, SayajiraoGaikwad, Economic Thoughts of Mahatma Phule, DadabhaiNauroji, M. G. Ranade, G. K. Gokhale.	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), Nehrurian Model of Development etc.	15
III	**Economic Ideas of Dr. B. R. Ambedkar** Small Holdings in India, State Socialism, Labor Reforms, Women Empowerment, Water Management, Economic Democracy, Problems of Rupees, Social Justice, Hindu Code Bill etc.	15
IV	**Modern Economic Ideas:** Economic ideas of P. C. Mahalanobis, P. R. Bramhananda, AmartyaSen, JagdishBhagwati, Dr. Manmohan Singh etc.	15
Course Outcome: After completion of this course, students show be able to : 1) Conceptualize foundational economic pi of India. 2) Evaluate the ideas on Indian economic by students. 3) Compare fundamental ideas of relevance of economic ideas of ancient and modern India.		

Basic Reading List:

1) Bhatia,H.L : History of Economic Thought ,Vikash Publishing House.

2) Blackhouse. R (1985) : A History of Modern Economic Analysis, Basil Blackwell, Oxford.

3) Ganguli, B.N(1977) : Indian Economic Thought : A 19th Century Perspective, Tata Mcgraw Hill.

4) Hajela,T.N (2011) :AarthikVicharonKaItihas , Ane Books.

5) Hajela,T.N (2011) : History Of Economic Thought , Ane Books.

6) Hunt,E.K&Lautzenheiser,Mark (2011) : History of Economic Thought: A Critical Perspective, Phi Learning.

7) Jhingan, M.L (2008): AarthikVicharonKaItihas,Vrinda Publications, New Delhi.

8) Kautilya (1992), TheArthashastra, Translated And Introduced By L.N.Rangarajan, Penguin Books.

9) Loknathan,V (2009) : History of Economic Thought , S.Chand& Company.

10) Roll,Eric : History of Economic Thought, Faber.

11) Schumpeter, J.A. (1954): Historyof Economic Analysis, Oxford University Press, New York.

Course Code No.: ECODE-204	No. of Credits: 04	Semester: II
Course Title:	**MONETARY ECONOMICS**	

Course Objectives:

Understanding the role of money and monetary policy in the process of economic transformation and development. The course also includes a discussion on the role played by monetary policy in the open economy context. Understanding the factors which is determining supply and demand for money.

Unit	Course Content	Periods
I	**Role of Money:** Meaning and functions of money, Digital and crypto currency; money and near money; money and finance, gold standard Vs paper currency and methods of note issue, value of money and its measurement.	15
II	**Development of Monetary Theories:** Factors determine supply and demand for money; Classical & Neo-classical views on theories of money; Keynesian and post Keynesian theories of money.	15
III	**Theories of Interest Rate:** Introduction, term structure and risk structure of interest rate, Theories of interest rate determination; Administered interest rate, appropriate interest rate policy.	15
IV	**Monetary Policy:** The aim and objectives of monetary policy in developed and developing countries, instruments of monetary policy use of monetary policy, limitations & effectiveness of monetary policy.	15

Course outcome:

1. Understand the role of money & monetary authorities in a modern economy.
2. Analyse how monetary policy decision are taken under various regions to deliver price stability.
3. Evaluate how the economy and monetary policy respond to macroeconomic shocks under various monetary policies.

Suggested Readings:

1. BhasinNiti (2007), "Banking and Financial Markets in India (1947 to 2007)", New Century Publications, New Delhi.

2. Bhole, L. M. (2004), Financial Institutions and Markets: Structure, Growth and Innovations, India: Tata McGraw Hill Education.

3. Bhole, L.M. (2009), "Financial Institutions and Markets", Tata McGraw Hill Company Ltd., New Delhi.

4. Gautam, S. K. (2012), Money, Banking and Finance, Mumbai Vakratund Publishers.

5. Ghosh, D.N. (1979), "Banking Policy in India – An Evaluation", Allied Publishers.

6. Gupta, S. B. (2016), Monetary Economics: Institutions, Theory and Policy, S. Chand and Company Pvt. Ltd, New Delhi.

7. Hajela, T. N. (2015), Money, Banking and Public Finance, New Delhi, Ane Book Pvt. Ltd.

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. Mishkin, F. (2007), Monetary Policy Strategy, Prentice Hall of India, New Delhi.

11. Mithani, D.M. (2013), Money, Banking, International Trade and Public Finance, New Delhi, Himalaya Publishing House.

12. Pierce, D. G. &Tysome, P. G. (1985), Monetary Economics, Butterworth's London.

13. Pierce, D. G. and Shaw, D. M. (1994), Monetary Economics: Theories and Evidence and Policy, Butterworth's, London.

14. Poonia, V. (2012), Money, Banking in India, New Delhi, Srishti Books Distributors.

15. Upal, R. K. (2011), Money, Banking and Finance: Evaluation and Present Structure, New Delhi, New Country Publications.

16. Zola, Emile (2014), Money, New Delhi, Oxford University Press.

Additional Readings:

1) Desai, Vasant (2008), "Fundamentals of the Indian Financial System", Himalaya Publishing House, Mumbai.

2) Natrajan& Gordon (2008), Financial Markets & Services, Himalaya Publishing House, Mumbai.

3) ReetaMathur (2008), Monetary Innovations, Wide Vision, Jaipur.

Course Code No.:ECODE-205	No. of Credits: 04	Semester: II
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.	10
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.	15
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.	15
IV	**Health Economics and Health Care:** 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. Theory of production of health care: Inequalities in health-class and gender Perspectives; Institutional issues in health care delivery -longevity-Ageing population	20

Course Outcome:

1. Illustrate importance of social sector.
2. Discuss the role of education in Economic growth.
3. Recognize health dimension of 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, Infrastructure, 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,(Latest 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.

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics(NEP) II Year (Semester-III)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM-301	Indian Economic Policy-I	4	20	80	100
ECODM-302	Public Economics	4	20	80	100
ECODM-303	Mathematical Economics	4	20	80	100
ECODM-304	Computer Applications in Economics	2	10	40	50
Research Project					
ECODM-305	ResearchProject	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-301	Gender Economics	4	20	80	100
ECODE-302	Banking	4	20	80	100
ECODE-303	Labour Economics	4	20	80	100
ECODE-304	Environmental Economics	4	20	80	100
	Total Credits	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP)II Year (Semester-IV)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM-401	Indian Economy Policy-II	4	20	80	100
ECODM-402	Public Finance	4	20	80	100
ECODM-403	Econometrics Methods and Applications	4	20	80	100
Research Project					
ECODM-405	Research Project	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-401	International Monetary Economics	4	20	80	100
ECODE-402	Mathematical Programming	4	20	80	100
ECODE-403	Financial Markets	4	20	80	100
ECODE-404	Development Economics	4	20	80	100
	Total	**22**			

W.E.F.2024-25 (NEP)

Course Code No.: EODM-301	No. of Credits:04		Semester: III
Course Title:	**INDIAN ECONOMIC POLICY-I**		

Course Objectives:
1. ToprovideinformationabouttheIndianEconomytothestudents.
2. TheyshouldalsobeabletoknowtheintersectoralrelationshipofthevarioussectorsoftheIndianEconomy.

Unit	Course Content	Periods
I	**BasicEconomicIndicatorsandConcepts:** National income it's Limitation, Sector wise performance of IndianEconomy, Sustainable Development, Green Economy, NationalHuman Development Report, Global Hunger Index, Happines Index,RighttoEducationAct2009,NewEducationPolicy2020(NEP2020),Vision & Trends of the 5 Trillion Eonomy (India Superpower), SevenPillarsoftheIndianEconomics2023(Saptarshi)etc.	15
II	**DemographicFeatures:-** Broad-demographicfeatures,ConceptoftheIndianpopulation,Caste Based Census in India, Distribution of population of India,Demographic devident, Urbanization, Population Policy 2000,Census2011,StatusofSocialInfrastructure(Education,Health).	15
III	**ProblemsoftheIndianEconomy :-** Poverty, inequality and unemployment (Land, Forest, Weather,Fishers, Minerals etc), Interstate disparities National Resource ineconomicgrowth,ParlalEconomy,RUSA,GlobalWarmingNationalhazards and Migration, Global Recession: It's impact on Indianeconomy(Agri.,industry,EmploymentandShareMarketetc.	15
IV	**India'sNewEconomicPolicySince1991:-** Economiccrisisof1990-91.stabilizationandstructuralreformsTheIMF-WorldBankModel,TwodecadealperformanceofLPGprogramme, Policy for weaker section's - SC, ST, OBC, DNT &Minority, women,FRBMAct,ElectoralBondsetc.	15
Course Outcomes : After completion of the course students should be able to----- Students will get an in-depth understanding of the policies formulated of the development ofIndia.Studentwilllearnthepoliticaleconomyofreforms.Studentswillbeabletoread,writeandunderstandtheoverallconceptsofIndianEconomics. CO1:Summarizethebasicconceptsofdemographicfeatures CO2:AnalysetheproblemsofIndianEconomy CO3:AppraisethebasictraitsofIndianEconomicPolicy		

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. nad 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) Developmnet Planning: The Indian Experience, Oxford University Press, New Delhi.

6. Dantwala, M. L. (1966) Dilemas 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.

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W.E.F.2024-25 (NEP)

Course Code No.: EODM-302	No. of Credits:04		Semester: III
Course Title:	**PUBLIC ECONOMIC**		

Course objectives:
1. Elaborating the role of State in a market oriented economy.
2. Evaluating the principles of public economics.
3. Comprehending the basics of budget 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	16
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	16
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	16
IV	**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; union budget of India	12

Course Outcomes : After completion of the course students should be able to-----
Students will get an in-depth understanding of the policies formulated of the development ofIndia.Studentwilllearnthepoliticaleconomyofreforms.Studentswillbeabletoread,writeandunderstandtheoverallconceptsofIndianEconomics.
CO1:Summarizethebasicconceptsofdemographicfeatures
CO2:AnalysetheproblemsofIndianEconomy
CO3:AppraisethebasictraitsofIndianEconomicPolicy

Basic Reading List:

1) Musgrave R.A. (1959), The Theory of Public Finance, McGraw Hill, Kogkhusha, 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) RaoRakshit (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) JhaRaghabendra (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. (1084) 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) Buiter 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.)
30) Finmin.ac.in
31) Acharya Shankar (2005), Thirty Years of Tax Reform in India, Economic and Political Weekly, May 14.
32) Bhalla, S. (2005), Tax Rates, Tax Compliance and Tax Revenues: India, 1988-2004 web link: Http://www.oxusresearch. Com/ downloads/ce070704.pdf.
33) Government of India (1992), Report of the tax Report of the tax Reform committee (chairman- Raja J. Challiah)
34) PoddarSatya 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.
35) AmareshBagchi and P.Chakraborty (2004), Towards a Rational System of Centre- state Revenue Transfers, Economic and Political Weekly, June 26, pp.2737-2747.
36) AmareshBagchi (2006), Towards GST: Choices and Trade off, Economic and political Weekly, April 8.
37) AmareshBagchi (2008), Globalization and Federalism: Uneasy partners? Economic political Weekly, September 20.
38) GovindaRao M (2001), Taxing Services: Issues and Strategy, Economic and political Weekly, October, 20, 2001.
39) GovindaRao 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.
40) Gulati I S (1991), Reducing the Fiscal Deficit: soft and hard options, Economic and Political Weekly, July 20.
41) Gulati I.S. (1994), Calculating the fiscal Deficit: A Note on certain Capital Receipts, Economics and Political Weekly.
42) KavitaRao R and PinkiChakraborty (2010), Goods and Services Tax in India: An Assessment of the Base, Economic and Political Weekly, VOL. XLV, No. 1, January 2.

43) 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

44) Rakshit M. K. (2000), On Correcting Fiscal Imbalances in the Indian Economy- Some Perspectives, ICRA Bulletin.

45) 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.

46) GOI, Central Government subsidies in India: A Report, Dec 2004

47) GOI, A white paper on State Level Value- added Tax, January 2005

48) GOI, Report of The Internal Working group on debt management.

49) GOI, Government debt- status and Road Ahead, Nov, 2010.

50) GOI, An Economic and Functional Classification of the central government Budget, Feb 11, 2014.

51) GOI, Expenditure Reforms commission report.

52) De Supriyo (2012), Fiscal Policy in India, Trends and Trajectory, GOI Working paper.

53) NIPFP (1994), Reform of Domestic Trade Taxes in India: Issues and Options, National Institute of Public Finance, New Delhi.

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Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, CHHATRAPATI SAMBAHAJINAGAR

DEPARTMENT OF ECONOMICS

M. A. Syllabus (NEP with effect from 2023-24)

W.E.F.2024-25 (NEP)

Course Code No.: ECODM-303	No. of Credits:04	Semester: III
Course Title:	**MATHEMATICAL ECONOMICS**	

Course Objectives:
1. To familiarize students with logical arguments and proofs
2. To provide foundations of major techniques to solve optimization problems in economics.
3. To give students deeper understanding and working knowledge of mathematics.
4. It also aims at developing critical thinking, and problem-solving, empirical research and model building capabilities.

Unit	Course Content	Periods
I	**Theory of Consumer Behaviour** 1.1 Utility functions – Meaning, properties and uses : homogeneous and homothetic utility functions, Separable and additive utility functions, indirect utility function ,indirect utility function, Compensated demand function. 1.2 Cardinal and ordinal utility maximization; Substitution method, Lagrange's multiplier method , mathematical interpretation of Slutsky equation. 1.3 Concept of elasticity- Mathematical derivation of elasticity, types of elasticity, mathematical relationship between elasticities	15
II	**Analysis of the Firm** 2.1 Production function- homogeneous and non-homogeneous, Properties of production function; Cobb-Douglas production ,CES, Production function ,VEX production function. 2.2 Simple derivation of short run and long run cost functions ; Modern approach to theory of costs; Cost function, constrained optimization of a producer. 2.3 Input demand functions ; elasticity of substitution input demand function 2.4 Adding up theorem, Technical progress through production function.	15
III	**Market Equilibrium** 3.1 Price & output determination in perfect competition 3.2 Monopoly: price discrimination, market discrimination, taxation and monopoly output 3.3 Monopsony, Monoplistic competition 3.4 Duopoly & Oligopoly- The quasi-competitive solution, Collusion solution , Cournot solution, Stackelberg solution	15

IV	4.1 Marshallian and Walrasian equilibrium conditions, lagged market equilibrium
	  4.2 Multi-market equilibrium- general equilibrium
	  4.3 systems of Walras and Debreau ; Conditions of stability for equilibrium
		15

Course Outcomes

 On completion of the Course, students should be able to –

1. Analyze consumer behavior for utility maximization.

2.Apply pricing and output decisions in diverse market structure with mathematical techniques

3. evaluate theories of firms for revenue maximization and cost minimization

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 NaranAgarwal, 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.

Course Code No.:ECODM-304	No. of Credits: 02	Semester: III
Course Title:	**Computer Applications in Economics**	

Course Objectives:

1. To provide students with computer programming for economical analysis.

2. The provide students with training suitable for careers in banking, industry, applied mathematics, statistical tools with computer programming .

Unit		Periods
I	**Use of Computer in Research:** 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, 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.	15
II	**Basic Statistics and Computer Applications:** Statistical analysis through MS Excel, SPSS, Basic operations – creation of the data file, data entry, data labels, coding and recoding of the data, editing, and other related operations for creation of a data file and syntax file; Analysis of data - generation of summary tables, cross tables, general tables, various measures of central tendency and dispersion, correlation, regression, various tests of significance, analysis of variance etc. graph and other utilities.	15
	Course Outcome: After completion of this course, students show be able to : 1) Explain application of computer for business and research 2) Describe use of internet in research 3) Use research software's for data analysis	

References:

1. Sinha, P. K. and Sinha, P. (2007), Computer Fundamentals, , BPB Publications, New Delhi.

2. Norton, P. (2008), Introduction to Computers, The McGraw-Hill Companies Ltd., N. Delhi

3. French, C. S. (1998) Data Processing and Information Technology, BPB Publication, N.   Delhi

 4. Jain, S. and et al. (2007) IT Tools and Applications, BPB Publications, New Delhi.

5. Gaur, A. S. and Gaur, S. S, Statistical Methods for Practice and Research-A Guide to Data Analysis Using SPSS, Sage Publication New Delhi.

6. Gupta, S.C. and Kapoor, V. K (2001),   Fundamentals of Applied Statistics, Himalayan Publishing House, Allahabad

Course Code No.: ECODM-305	No. of Credits: 04	Semester: III
Course Title:	**RESEARCH PROJECT**	

Course Objectives:

1. To understand the skill requirement of employee.

2. To aware challenges and opportunity for job.

3. To train the student   to solve the social and economic issues in society.

4. To nurture students personality to face the issues in changing scenario.

Unit	Course Content	Periods
I	Student can complete field work and submit research project related to his/her major subject. Student can select any topic in concern with his supervisor.	60

Course Outcome:

After completion of the course students should be able to-----

1) The nature and requirements of employment.

2) Familiar with employment issues in society.

3) Find out solution for social or economic issues in society.

Course Code No.: ECODE-301	No. of Credits: 04	Semester: III
Course Title:	Gender Economics	

Course Objectives:

3. To provide information about the gender economics to the students.
4. They should also be able to know the intersectoral relationship of the various sectors of the economy.

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.	15
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.	15
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.	15
IV	**Women, Technology and Environment** Impact of technological development and modernization on women's work in agriculture, non-agriculture rural activities, cottage industry and organized industry. Women's role in sustaining the environment, impact of ecological changes on women. The WID-WAD-GAD debate on Women and Development.	15

Course Outcomes :

After completion of the course students should be able to-----

Students will get an in-depth understanding of the policies formulated of the development of India. Student will learn the political economy of reforms. Students will be able to read, write and understand the overall concepts of Gender Economics.

CO1: Summarize the basic concepts of gender demographic features

CO2: Analyse the problems of Gender Economy

CO3: Appraise the basic traits of gender economics

Reading List

1. Singh, Andrea M., and Anita K. Vitann,(eds) (1987),Invisible Hands: Women in Home-based Production, Sage.
2. Bhasin,Kamla and Khan,Nighat Said,(1986), Some Questions on Feminism and its Relevance in South Asia
3. Goldschmidt-Clermont, Luisetta (1985), Unpaid Work in the Household
4. Secombe, Wally(1973), Housework and Surplus Value under Capitalism, *New Left Review*
5. Boserup, E. (1970), Women's Role in Economic Development, George Allen and Unwin, London.
6. Raj, MaithreyiKrishnaraj (1988), Women and Development, Indian Experience, OxfordUniversity Press, New Delhi.
7. Seth, M.(2000), Women and Development, Indian Experience, Sage, New Delhi.
8. Raj, MaithreyiKrishnaraj, R.M. Sudarshan and A. Shariff(1999), Gender, Population and Development, , OxfordUniversity Press, New Delhi.
9. Venkatewsaran, S. (1995), Environment, Development and the Gender Gap, OxfordUniversity Press, New Delhi.
10. Papola, T.S. and A.N. Sharma eds. (1999), Gender and Employment in India,Vikas Publishing House, New Delhi.
11. Chenery, H.B. and T.N. Srinivasan (eds.) (1988), Handbook of Development Economics, North-Holland, Amsterdam.
12. Ahmed, I. (ed.) (1985),Technology and Rural Women: Conceptual and Empirical Issues, George Allen and Unwin, London.
13. Jhabvala, Rehana and R.K. Subramanya (eds.) (2000), The Unorganised Sector: Work Security and Social Protection, Sage, New Delhi.
14. Carr, M.C. and R. Jhabvala (eds.) (1997), Speaking Out: Women's Economic Empowerment in South Asia, Vistaar Publications, New Delhi.
15. Agarwala, Bina (1994), A Field of ne's Own, Gender and Land rights in South Asia, Cambridge University Press.
16. Mies, Maria (1986/1998), Patriarchy and Accumulation on a World scale: Women in the International Division of Labour, Zed Books, London.

M.A.(Economics) SYLLABUS

Course Code No.: ECO- 302	No. of Credits: 04	Semester: III
Course Title:	**BANKING**	

Course Objectives:

   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, In addition, the course analyzes basics of monetary policies and operations of commercial banks and other financial institutions as well as an overview of the globalization.

Unit	Course Content	Periods
I	Financial concepts; Financial inter mediation and financial intermediaries; The structure of financial system; indicators of financial development, financial system and economic development	15
II	Functions of central Bank, the objectives of the monetary policy; instrument of monetary policy, changing trends in monetary policy in India, RBI's short term liquidity management, effectiveness of monetary policy, Prudential Norms.	15
III	Performance of commercial banks, function & proliferation of commercial banks, Foreign commercial banks, financial inclusion in India, New trends in banking.	15
IV	Development banks: role and functions, investment banking and merchant banking, meaning and types of non bank financial intermediaries.	15

Course Outcomes:

After completion of the course students should be able to

1. Explain the functioning of bank system.
2. Connect with the monetary policy of RBI.
3. Judge the role of development banks in economic development.

Suggested Readings:

1. BhasinNiti (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) ReetaMathur (2008), Monetary Innovations, Wide Vision, Jaipur.

M.A. (Economics) SYLLABUS

Course Code No.:ECODE-303	No. of Credits: 04	Semester: III
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.	15
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.	15
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.	15
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 Evolution and role of trade unions - origin structure and growth of trade unions – Impact of unions on productivity and efficiency	15

Course Outcome :-

After completion of the course students should be able to

1. Know the various determinants of labour market participation.
2. Explain the determinations of wages in economy
3. Describe impact of technology on labour demand.

References:

1) Amin, Ash (Ed) (1994) 'Post – Fordism – A Reader', Blackwell, Oxford.

2) Bhagoliwal T. N. (1985), 'Economics of Labor and Idustrial Relations', SahityaBhawanm 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 ZafirisTzannotos (1993), 'The Economics of Laboru Market', Macmillan, Londaon.

10) Singh Jwitesh Kumar (1998), 'Labour Economics', Deep and Deep Publishers, Delhi.

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Course Code No.: ECODE-304	No. of Credits: 04	Semester: III
Course Title:	**ENVIRONMENTAL ECONOMICS**	

Course Objectives:

   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.

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	**International Trade Environmental:** Environment and development linkages, Environmental and development trade off and concept of sustainable development. Poverty and environment. Environment and population issues.Traditional Trade Theory and Extension of Environment, Economic Approaches of Trade and Environment, Banning Trade on Endangered Species, GATT and WTO, Environmental Regulations and Patterns of Trade, trading environmental permits/carbon credits, ecological and carbon debt, international forums and role of developed and developing nations, Application of trade and environment- case of India and other countries in Asia.	12

Course Outcome:
Students should be able to
    1. Understand the interlinkages between environment, ecology and economy.
    2. Optimal use of resources.
    3. Aware of the economic impact of climate change.		

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) Envronmental 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, MartinusNijhoft, 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, Deepand Deep Publications, New Delhi.

20. Lodha, S. L. (Ed.) (1991), Economics of Environment, RBSA Publishers, Jaipur.

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics(NEP) II Year (Semester-III)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM-301	Indian Economic Policy-I	4	40	60	100
ECODM-302	Public Economics	4	40	60	100
ECODM-303	Mathematical Economics	4	40	60	100
ECODM-304	Computer Applications in Economics	2	20	30	50
Research Project					
ECODM-305	ResearchProject	4	--	--	100
Generic Electives (Select any one papers)					
ECODE-301	Gender Economics	4	40	60	100
ECODE-302	Banking	4	40	60	100
ECODE-303	Labour Economics	4	40	60	100
ECODE-304	Environmental Economics	4	40	60	100
	Total Credits	**22**			

DETAILS OF COURSE STRUCTURE (2023-24)
M. A. Economics (NEP)II Year (Semester-IV)

Course Code	Title of the Paper	Credits	Marks		
			Continuous assessment (Internal)	Semester End Examination (External)	Total
MandatoryCourses (Compulsory)					
ECODM-401	Indian Economy Policy-II	4	40	60	100
ECODM-402	Public Finance	4	40	60	100
ECODM-403	Econometrics Methods and Applications	4	40	60	100
Research Project					
ECODM-405	Research Project	6	--	--	100
Generic Electives (Select any one papers)					
ECODE-401	International Monetary Economics	4	40	60	100
ECODE-402	Mathematical Programming	4	40	60	100
ECODE-403	Financial Markets	4	40	60	100
ECODE-404	Development Economics	4	40	60	100
	Total	**22**			

W.E.F.2024-25 (NEP)

Course Code No.: ECODM-401	No. of Credits:04	Semester: IV
Course Title:	**INDIAN ECONOMIC POLICY-II**	

Course Objectives:

1. StudentshallbeabletolearnsomeimportantissuesconcerningIndianEconomy
2. Student shouldbeabletoincreasetheknowledgeofvariouspolicyinitiativesandbasicconceptofIndianEconomy.

Unit	Course Content	Periods
I	**PlanninginIndia:** Evaluationoftheobjectivesandstrategyofplanning,12thplan, Achievements and failures of the plans, 73rd 74th constitutionalamendment: Rural and Urban local self-government, Nagar RachanaBillCentralandstate,NationalInstitutionforTransformingIndia (NITIAayog),StatePlanningandMarkets:PolicyChoices.	15
II	**TheAgriculturalSector:** AgrariancrisisinIndia,AgriculturalPolicy2000,FarmerPolicy2007,Agricultural Subsidies, Rural indebtedness, Food security, Landreforms,LandacquisitionBilletc.	15
III	**The IndustrialSector:** RolepublicandprivatesectorinIndianeconomyandemploymentNew Industrial Policy: 2002 competition Act 2002, Exim policy(FEMA)ForeignExchangeMoneyAct,manufacturingHub, disinvestmentPolicyinIndia,SpecialEconomicZoneetc.	15
IV	**TheExternal&FinancialSector:** Recent trends in India's balance of payments, Full convertibility ofrupee, foreigncapital, FDI,ForeignInstitutionalInvestment(FII)androleofmultinationalcompanies inIndia, Infrastructuraland development (Education, Health, parallel economy energy),Corruption in India, Policy to control parallel economy, Monetary &FiscalPolicy,GlobalRecession:It'simpactonIndianeconomy(Agri.,industry,employmentandsharemarket)etc.	15

Learning Outcomes : After completion of the course students should be able to-----

CO1:Studentwillcometogetanindepthunderstandingregardingpoliciesdesignedfor varioussector oftheIndianEconomy.

CO2:Studentsshouldbeabletounderstandthesectoralperformanceanditsimpactonthe growthofIndia.

CO3:Evaluate the necessity of and inclusive policies for Indian Economics.

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) BiplabDasgupta (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) BhagwatiJagdish (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. SatyaSundaram (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. SatyaSundaram (2009), "Rural Development", Himalaya Publishing House, Nagpur.

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Course Code No.: ECODM-402	No. of Credits:04		Semester: IV	
Course Title:	**PUBLIC FINANCE**			

Course Objectives:
1. Preparing students to learn the principles and practice of fiscal federalism
2. Explaining the role of finance commission of India
3. Enabling students to analyze tax reforms in 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- 73rd and 74th amendments Implications of recommendations of Finance Commission. State level fiscal reforms in India.	15
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	15
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.	15
IV	**Public Finance in India's context** Fiscal Federalism in India and the role of Finance Commission of India Tax Reforms in India Public sector pricing, Public expenditure management and control.	15

Course Outcome:
After completion of the course students should be able to
1. relate the principles and practice of fiscal federalism in India
2. appraise the role of finance commission of India
3. illustrate tax reforms in India at the level of Union government in particular and at the level of state governments in general

Basic Reading List:

1) Musgrave R.A. (1959), The Theory of Public Finance, McGraw Hill, Kogkhusha, 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) RaoRakshit (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.

W.E.F.2024-25 (NEP)

Course Code No.: ECODM-403	No. of Credits:04	Semester: IV
Course Title:	**ECONOMETRICS METHODS AND APPLICAITONS**	

Course Objectives:

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.

Unit	Course Content	Periods
I	**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.	20
II	**Lagged Variables and Distributed – Lag Models**: Koyck model, partial adjustment model, adaptive expectations model, Almon lag approach.	10
III	**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.	20
IV	**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.	10

Course Outcome:-

After completion of the course students should be able to

1. Operationalize empirically economic theory and test economic theory allowing time lags.

2. Judge future movement in the economic variable of interest on the basis of recent   forecasting techniques.

3. Analyseeconometric model in the process of economic development.

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 Publising 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.

Course Code No.: ECODM-405	No. of Credits: 04	Semester: IV
Course Title:	**RESEARCH PROJECT**	

Course Objectives:

1. To understand the skill requirement of employee.

2. To aware challenges and opportunity for job.

3. To train the student   to solve the social and economic issues in society.

4. To nurture students personality to face the issues in changing scenario.

Unit	Course Content	Periods
I	Student can complete field work and submit research project related to his/her major subject. Student can select any topic in concern with his supervisor.	60

Course Outcome:

After completion of the course students should be able to

1) The nature and requirements of employment.

2) Familiar with employment issues in society.

3) Find out solution for social or economic issues in society.

W.E.F.2024-25 (NEP)

Course Code No.: ECODE-401	No. of Credits:04	Semester: IV
Course Title:	**INTERNATIONAL MONETARY ECONOMICS**	

Course Objectives:

1. Providing critical insight into issues related to international movement of capital and international banking.

 2. Enabling students to comprehend political economy of the evolution of international monetary order

Unit	Course Content	Periods
I	**International monetary order** The rise and fall of international monetary order, the Bretton Woods conference- IMF - world bank model of liberalization, GATT and WTO, IMF and India, India and WTO requirements -TRIMS, TRIPS, domestic measures and rounds of WTO, G20 economic agenda and its impact on India	15
II	**Regional trade agreements** The European economic integration and Eurozone crisis: causes and impact - the crisis in Greece and Cyprus , Brexit and its implications - SAARC, ASEAN and India	15
III	**Exchange rate** Devaluation,depreciation and convertibility of currency on capital account - India's policy on convertibility: Taraporecommittee I and II - Risks of convertibility, long-term and short-term capital movements , South Asian Currency Crisis and its lessons	15
IV	**Need for a new monetary order** Global fiscal commons, regulation of foreign banks, and NBFI's, the global fiscal commons and sovereign fiscal space, tax avoidance in fiscal commons, the emergence of tax havens, efficient international taxation, challenge of crypto currency	15

Course outcome:

After completion of the course students should be able to

1. recognize monetary aspects of international transactions

2. extract issues related to international movement of capital and international banking

3. interpret the evolution of 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) AgarwalRamgopal (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) BhagwatiJagdish (1998), The Capital Myth, Foreign Affairs 77, May-June

3) Casscl 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) ManoharRao 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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Course Code No.:ECODE-402	No. of Credits: 04	Semester: IV
Course Title:	**MATHEMATICAL PROGRAMMING**	

Course Objectives:

1. To provide practical motivation for linear programming and its applications

1. To provide mathematical programming tools for students

2. The provide students training suitable for careers in banking, industry, applied mathematics or finance in private sector.

3. Formulate real world scenarios mathematically and use computational tools to analyze them.

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 programming problem and its interpretation(2) 1.6 Statements of basic theorems of L.P.P. and Duality(1) 1.7 Game theory and LPP.(2)	15
II	**Goal Programming and Dynamic Programming** 2.1Goal programming with single Goal 2.2 Goal programming with multiple Goal & Non-Preemptive Goal Programming 2.3 Meaning ,nature, importance of dynamic programming (2) 2.4 Sequential decisions, network recursive solutions. problems (7) 2.5 Bellman's principle of optimality.(2)	15
III	**Assignment Problem and** 3.1 Meaning and Nature of the Problem 3.2 Methods of Solution 3.3 Computational Procedure	15
IV	**Transportation Problem** 4.1 Meaning and Nature of Transportation Problem 4.2North-West Corner Method and Other Methods 4.3 Optimality Test (5)	12
Course Outcomes: **After completion of the course students should be able to** 1. evaluate the various possibilities for optimal solutions in business decision making 2. analyze optimum transportation cost and assignment and do optimality check. 3. suggest various investment plans for risk minimization		

Readings :

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, McGraw Hill, London
4. JOSEF KALLRATH and JOHN M. WILSON, Business Optimization Using Mathematical Programming, MACMILLAN PRESS LTD Houndmills, Basingstoke, Hamsphire 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

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Course Code No.: ECODE-403	No. of Credits: 04	Semester: IV
Course Title:	**FINANCIAL MARKETS**	

Course Objectives:

The course introduces topics such as the structural organization of financial market, and the role they play in economy, Structure of Money and Capital markets. Regulatory policies of RBI and SEBI.

Unit	Course Content	Periods
I	Meaning and types of financial instruments, Structure & role of financial market, financial development & economic development, Equilibrium of financial markets.	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, repos & reverse repos, recent development in money market.	15
III	Meaning & importance of capital market, structure of Indian capital market, new issue market, stock markets, stock market indices – Sensex, Nifty and foreign indices, regulation of stock exchange and role of SEBI.	15
IV	Meaning of financial services, Mutual fund, Housing finance, Depository, Securitization, Derivatives agreements, Financial sector reforms in India.	15

Course Outcomes:

After completion of the course students should be able to

1. Correlate the financial & economic development.
2. Analyze the functioning of stock market.
3. Explain the concepts of various financial services.

Suggested Readings:

1. Avdhani V.A. (2008), "Investment and Securities Markets in India", Himalaya Publishing House, Mumbai.

2. BhasinNiti (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 Servicies", 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", CambridgeUniversity 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:

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. ReetaMathur (2008), "Monetary Innovations", Wide Vision, Jaipur.

8. SahooS.C., DasS.C. (2009), "Insurance Management test and cases", Himalaya Publishing House, Mumbai.

9. Tyagi C.L., TyagiMadhu (2007), "Insurance-Law and practice", Atlantic publisher and distributors, New Delhi.

M.A.(Economics) SYLLABUS

Course Code No.: ECODE-404	No. of Credits: 04	Semester: IV
Course Title:	**DEVELOPMENT ECONOMICS**	

Course Objectives:

The aim of this course is to familiarize students with issues concerning economic development and Policies in India. It will help students to understand the application of economic theories.

Unit	Course Content	Periods
I	**Introduction:** Planning in India up to 1991 - Impact of British Colonial rule on Indian's Economy - Evolution of Plan Models and its Success - The Political Economy of Liberalization Reforms - The Impact of Liberalization.	15
II	**Microeconomics of Development :** Markets in Agriculture – Land:Land Ownerships and Tenancy, Land Size and Productivity, Land Reforms in India,Agricultural Tax - Labour: Labour Categories, Labour Market in ICRISAT Villages - Credit : Demand of Credit, Rural Credit Markets and its Features.	15
III	**Macroeconomics of Development :** Formal and Informal Urban Sector - Features of ICRISAT Villages - Population Growth and Economic Development: Demographic Transition Theory- Population Growth: Positive and Negative Effects - Broad Features of Population Growth in India & Its Regional Dimension.	15
IV	**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 - Social and Income Inequality in India – Concept of Economic Inequality - North & South Development Inequalities in India	15

Course Outcomes Learning:

After completion of the course students should be able to

1. Students shall have the tools to understand current policy debate and contribute to policy making informally.
2. Know the historical experience of development and inter linkages in land, labour and credit markets.
3. Describe issue of poverty and income inequality in developing countries.

Suggested Readings:

1) Basu, Kaushik, 1998, "Analytical Development Economics", OUP, New Delhi.

2) Ray, Debraj (2004), "Development Economics", OUP, New Delhi.

3) Bardhan (1999), Political Economy of Reforms in India, New Delhi: NCAER.

4) Basu, K. (ed.) (2004), India's Emerging Economy, New Delhi, Delhi: OUP.

5) Ahluwalia, M. (2002), State-level Performance under Economic Reforms in India, in: Krueger.

6) Delong, Bradford (2001) (mimeo), India since Independence: An Analytic Growth Narrative, http://www.j-bradford-delong.net

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) SenAmarty 1999, "Commodities and Capabilities", OUP, New Delhi.

13) Bardhan, P. and ChirstopherUdry 1999, "Development Microeconomics", OUP, New Delhi.

14) Debraj Ray, "Development Economics", Oxford, 2006.

15) India Inequality Report.

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