

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
CHHATRAPATI SAMBHAJINAGAR.**



**Circular / Acad Sec./ PG / NEP PG-II Yr Curri./Affi. Col./ 2024.**

It is hereby inform to all concerned that, on the recommendation of Dean of Faculty of Humanities; **the Academic Council at it's Meeting held on 08<sup>th</sup> April, 2024 has accepted the "following Subject wise revised Curriculum at PG Level as per National Education Policy-2020" for all concerned affiliated colleges** under the Faculty of Humanities.

Sr. No.	UG/PG Course Curriculum Name	Semester
01.	M. A. <u>Second</u> Year as per NEP [Marathi] for Colleges	IIIrd & IVth
02.	M. A. <u>Second</u> Year as per NEP [Hindi] for Colleges	IIIrd & IVth
03.	M. A. <u>Second</u> Year as per NEP [English] for Colleges	IIIrd & IVth
04.	M. A. <u>Second</u> Year as per NEP [Urdu] for Colleges	IIIrd & IVth
05.	M. A. <u>Second</u> Year as per NEP [Arabic] for Colleges	IIIrd & IVth
06.	M. A. <u>Second</u> Year as per NEP [History] for Colleges	IIIrd & IVth
07.	M. A. <u>Second</u> Year as per NEP [Political Science] for Colleges	IIIrd & IVth
08.	M. A. <u>Second</u> Year as per NEP [Public Administration] for Colleges	IIIrd & IVth
09.	M. A. <u>Second</u> Year as per NEP [Economics] for Colleges	IIIrd & IVth
10.	M. A. <u>Second</u> Year as per NEP [Geography] for Colleges	IIIrd & IVth
11.	M. A. <u>Second</u> Year as per NEP [Psychology] for Colleges	IIIrd & IVth

**This is effective from the Academic Year 2024-25 and Onwards as per 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,  
Chhatrapati Sambhajinagar-431 004.  
Ref. No. SU/PG-II Yr/ Affi.Colleges  
/ NEP Curri/ 2024/26772-81

}}  
}}  
}}  
}}  
}}

**Deputy Registrar,  
Academic.**

Date: 21.05.2024.

\*\*\*\*\*

:: 02 ::

**Copy forwarded with compliments to:-**

- 1] **The Principal, all concerned affiliated colleges,**  
Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar.
- 2] **The Director, University Network & Information Centre, UNIC,**  
with **a request to upload this Circular on University Website.**

**Copy to :-**

- 1] **The Director, Board of Examinations & Evaluation,**
- 2] **The Sec. Officer, [Concerned 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, Chhatrapati Sambhajnagar.

--\*\*--

DrK\*210524/-

**DR. BABASAHEB AMBEDKAR  
MARATHWADA UNIVERSITY,  
CHHATRAPATI SAMBHAJINAGAR**



Curriculum of  
**M. A. [ Economics ]**  
**Semester-III & IV**

**‘under National Education Policy-2020’**

For  
**“Affiliated Colleges Level”**

**[ Effective from the Academic Year 2024-25 & Onwards ]**

*Dr. Deleed Arj 1/17*

**Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati.  
Sambhajinagar**

**Illustrative Credit Distribution structure for Two Year PG as per NEP 2020  
(For Affiliated College only)**

**M.A. Economics**

**M.A. Economics Semester III**

Paper Code	Paper Name	No. of Credits
Mandatory Course		
ECOM-301	Theory of Public Finance	04
ECOM-302	Indian Economy	04
ECOM-303	Industrial Economics	04
ECOM-304	Share Market	02
Elective - 3 - Select any one from basket		
ECOE-301	Mathematics For Economics	04
ECOE-302	Environmental Economics	
ECOE-303	Insurance Economics	
Research Project		
ECOM-305	Research Project-1	04
	<b>Total credit for Third semester</b>	<b>22</b>

**M.A. Economics Semester IV**

Paper Code	Paper Name	No. of Credits
Mandatory Course		
ECOM-401	Indian Public Finance	04
ECOM-402	Service Sector In India	04
ECOM-403	Development Economics	04
Elective - 4 - Select any one from basket		
ECOE-401	Econometrics	04
ECOE-402	Economy of Maharashtra	
ECOE-403	Computer Application in Economics	
Research Project		
ECOM-405	Research Project-2	06
	<b>Total credit for Fourth semester</b>	<b>22</b>
	<b>Total credit for Third and Fourth semester</b>	<b>44</b>



**M.A. (Economics) SYLLABUS**

<b>Course Code No. ECOM- 301</b>	<b>No. of Credits: 4</b>	<b>Semester: III</b>
<b>Course Title:</b>	<b>Theory of Public Finance</b>	
<b>Course Objectives:</b>		
<b>On successful completion of the course students will able to:</b>		
1) To develop an ability to understand the changing role of fiscal policy of modern governments.		
2) To discuss and deliberate the concepts and theories in public economics.		
3) To improve the understanding level for various policies in public economics.		
4) To know the structure of public expenditure and its theories.		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
<b>I</b>	<b>Introduction:</b> 1.1 Meaning, concepts and role of public finance. 1.2 Changing perspective Government in a mixed Economy. 1.3 Meaning and features of private goods, public goods, social goods, merits goods, club goods. 1.4 Allocation of Resources, provision of public goods. 1.5 Impossibility of Decentralized provision of public goods- contribution of Samuelson, Musgrave.	<b>16</b>
<b>II</b>	<b>Tax Theory</b> 2.1 Tax: meaning, types (direct and indirect), principles and effects. 2.2 Benefits Approach: Lindal's solution and limitations. 2.3 Limitation of the benefits approach. 2.4 Ability to pay Approaches: Indices of ability to pay- objective and subjective 2.5 Optimal taxation: contents of optimal taxation.	<b>16</b>
<b>III</b>	<b>Theory of Public Expenditure</b> 3.1 Meaning and nature of public expenditure. 3.2 Canons and classification of public expenditure. 3.3 Wagner's Law of increasing state Activities, extending Wagner's law 3.4 Wiseman- Peacock hypotheses, Arrow's impossible theorem.	<b>14</b>
<b>IV</b>	<b>Public Debt:</b> 4.1 Sources of Public Debt. 4.2 Burden of Public Debt. 4.3 Deficit Financing, Public-Borrowings and level of Prices. 4.4 Causes of Increasing Public Debt. 4.5 Principles of Public Debt management and Repayment.	<b>14</b>

**Course Outcomes:** After completion of this course the students will be able to;

- 1) Analyse the Economic Issues related to Local to Global Scenarios.
- 2) Understand how Economic Policies Effect the Common People through interactions.
- 3) Analyse various policies in Public Economics like, policy, taxation policy, Public Debt policy, public expenditure etc.
- 4) Analyse causes and effects of fiscal reforms.
- 5) Interpret various aspects of Indian fiscal federalism.

**Reference Books:**

- 1) Mueller, D.C. (1979), 'Public Choice', Cambridge University Press, Cambridge.
- 2) Rajesh K. Jha (2012) Public Finance. Pearson Publication. New Delhi.
- 3) Stiglitz, Joseph E (1999), Economics of Public Sector, W. W. Norton and Company New York.
- 4) Stiglitz, Joseph E (1986), 'Economics of Public Sector, Norton, New York'.
- 5) Patil J.F. (2011), 'Vruddhi va vikasache arthshashtra', Phadke Prakashan, Kolhapur.
- 6) Datir R.K., Lomate G.J. Chaiantamani R.M. (2015), 'Sarvajanik Aywyay, Nirali, Pune.'
- 7) Y.V. Reddy, G.R. Reddy (2019), 'Indian Fiscal Federalism', Oxford University Press, New Delhi.
- 8) Bhatia H.L. (2024) 'Public finance' (32<sup>nd</sup> Edition), Vikas Publishing house, New Delhi.
- 9) Mankar & Sharma (2001), 'Public Finance Theory & Practice', Himalaya Publishing, New Delhi.
- 10) Mundle Sudipto (2005), 'Public Finance: Policy Issues for India', Oxford University Press, New Delhi.
- 11) Deshpande D.K.(1984), 'Sarvajnikvitta', Shri Mangesh Prakashn, Nagpur.
- 12) Tyagi B. P., (2003-04), Public Finance, Jai Prakash Nath & Co., Meerut.

**Web References:**

- 1) <https://www.economicdiscussion.net/government/role-of-government-in-economics-systems/4041>
- 2) <https://www.youtube.com/watch?v=Y2q6ECLJBAg>
- 3) <https://www.imf.org.in>
- 4) <https://www.nipfp.org.in>
- 5) <https://www.youtube.com/watch?v=QFehvfAZ-VM>
- 6) <https://www.yourarticlelibrary.com/economics/5-main-aspects-of-fiscal-federalism-in-india/39563>
- 7) <https://www.indiabudget.nic.in>
- 8) <https://www.rbi.org.in>

**Recommended Journals:**

- 1) South Asian Journal of Macroeconomics and Public Economics-Sage Journals.
- 2) Journal of Public Economics-Elsevier.
- 3) Journal of Public Economics- Science Direct.
- 4) The Indian Economic Journal- Sage Journals.



<b>Course Code No: ECOM - 302</b>	<b>No. of Credits: 04</b>	<b>Semester: III</b>
<b>Course Title:</b>	<b>INDIAN ECONOMY</b>	
<b>Course Objectives:</b>		
<ol style="list-style-type: none"> <li>To provide information about the Indian Economy to the students. They should also be able to know the intersectoral relationship of the various sectors of the Indian Economy.</li> <li>To provide knowledge about various issues regarding Indian Economy.</li> <li>To increase information of students about various policies of the Government.</li> </ol>		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
I	<b>Problems of the Indian Economy:</b> 1.1 Poverty, Inequality, Unemployment and Policy Implications. 1.2 Inter-state disparities in India. 1.3 Global Recession- It's impact on Indian Economy.	15
II	<b>The Agriculture Sector:</b> 2.1 Land reforms, Green Revolution and Agricultural Productivity. 2.2 WTO and Indian Agriculture, Agricultural Subsidies, Agrarian Crisis in India. 2.3 Agricultural Policy 2000, Farmer Policy 2007. 2.4 Agricultural Prices and Public Distribution System, Food Security.	15
III	<b>The Industrial Sector:</b> 3.1 Role of public and private sector in Indian Economy. 3.2 New Industrial Policy 1991- Privatization, Disinvestment Policy in India. 3.3 Problems of MSMEs, Sick Industries in India. 3.4 Special Economic Zone.	14
IV	<b>The External Sector:</b> 4.1 Composition and Direction of Foreign Trade 4.2 Situation of India's Balance of Payments since 1991 4.3 Foreign Trade Policy of India -2015-2020, 4.4 Foreign Capital- FDI and FII in India, 4.5 MNCs in India: Reason of growth, Critical Appraisal of MNC 4.6 Exchange Rate Policy in India – FERA – 1973, FEMA -1999.	16

**Course Outcomes:**

At the end of this course,

- 1) Students will be able to analyze main problems of Indian Economy.
- 2) Students will be aware of Agricultural Sector.
- 3) Students will be able to examine Indian Industrial policy.
- 4) Students will be able to understand role of external sector in an Indian Economy.
- 5) Students should be able to understand the sectoral performance and its impact on the growth of India.

**Suggested Readings:**

1. Brahmananda P.R. and Panchmukhi V.R., 2001, Ed. Development Experience in Indian Economy, Inter-state Perspective, Book well, New Delhi.
2. Gupta, S.P., 1989, Planning and Development in India: A Critique, Allied Publishers Private Limited, New Delhi.
3. Bhagwati Jagdish, 2004, In Defense of Globalization, Oxford University Press, U.K.
4. Datt Gaurav & Nag Biswajit, 2024, Datt and Sundharams Indian Economy 73<sup>rd</sup> Edition, S. Chand and Company PVT.LTD., New Delhi.
5. Singh Ramesh, 2010, Indian Economy, Tata McGRAW Hill Education Private Limited, New Delhi.
6. Bhalla G.S., (2007), Indian Agriculture Since Independence, National Book Trust, New Delhi.
7. Datt Gaurav & Mahajan Ashwani, 2015, Datt and Sundharam Indian Economy, S. Chand and Company PVT.LTD., New Delhi.
8. National Policy for farmers, 2007, Department of Agriculture & Cooperation Ministry of Agriculture Government of India.
9. Exchange Rate Policy and Modelling in India, 2010, RBI.
10. Bala Shashi, 2021, Decoding Agrarian Crisis: Emerging Challenges, V.V. Giri National Labour Institute, Noida.
11. Government of India, Economic Survey, Ministry of Finance, New Delhi.
12. Mishra & Puri, Indian Economy, Himalaya Publishing House, New Delhi.
13. देशपांडे श्रीधर आत्माराम व देशपांडे विनायक श्रीधर, 2010, भारतीय अर्थव्यवस्था (संक्रमण आणि विकास), हिमालया पब्लिशिंग हाऊस, मुंबई.
14. नीलांजन बानिक, 2017, भारतीय अर्थव्यवस्था, SAGE प्रकाशन, नवीन दिल्ली.
15. कुलकर्णी प्रभाकर रामचंद्र, 1999, भारतीय अर्थव्यवस्था, विद्या बुक्स पब्लिशर्स, औरंगाबाद.

<b>Course Code No: ECOM - 303</b>		<b>No. of Credits: 04</b>	<b>Semester: III</b>
<b>Course Title:</b>		<b>Industrial Economics</b>	
<b>Course Objectives:</b> The objectives for this course are as follows: 1 To understand the industrial organization & its foundation. 2 To understand the location theory of industry. 3 To provide information about the new industrial policy. 4 To provide knowledge about various issues related to private sector.			
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>	
I	<b>Introduction</b> 1.1 Meaning, Scope, Need and Significance of Industrial Economics. 1.2 Factors Affecting to the Industrial Development 1.3 Linkages to other Sectors with Industrial Sector.	15	
II	<b>Industrial Location Theory</b> 2.1 Determinant Factors of Industrial Location 2.2 Weber's Theories of Industrial Location 2.3 Florence's Theories of Industrial Location 2.4 Empirical evidences of paradoxes to the theories of Industrial Location.	15	
III	<b>Industrial Policy:</b> 3.1 New Industrial Policy (1991) and later developments growth and productivity of Indian industry, critics on New Industrial Policy. 3.2 Industrial employment and Labor Laws in India 3.3 National Manufacturing Policy 3.4 Make in India 3.5 Startup India	14	
IV	<b>Issues Related to Private Sector</b> 4.1 Private Corporate sector in economic reform period 4.2 MRTP Act and Competition Act 4.3 Ease of Doing Business 4.4 Corporate Social Responsibility	16	
<b>Course Outcomes:</b> At the end of this course, 1. Students will be to aware the Industrial Economics Scope and Significance. 2. It will help students understand the Industrial Location theory. 3. Students will be able to understand the new industrial policy. Students will aware about issue related to private sector.			

**Reference Books :**

1. Ferguson, Paul R. and Glenys J. Ferguson, (1994), Industrial Economics - Issues and Perspectives, Macmillan, London.
2. Shepher, William G. (1985), The Economics of industrial Organization, Prentice - Hall, Inc, Englewood Cliffs, N. J.
3. Staley, E & Morse R. (1965), Modern Small Industry for Developing Countries, McGraw Hill Book Company.
4. Puri V. K., Misra S. K., Garg B. (2022), Indian Economy, Himalaya Publishing House, Mumbai.
5. Symeonids G.: Industrial Economics ,2011, London School of Economics & Political Science.
6. Ahluwalia, I. J. (1985), Industrial Growth in India - Stagnation since Mid-sixties, Oxford University Press, New Delhi.
7. Ahluwalia, I. J. (1991), Productivity and Growth in Indian Manufacturing, Oxford University Press, New Delhi.
8. Vepa R. K. (1988), Modern Small Industry in India, Sage Publications.
9. Srivastava, M.P. (1987), Problems of Accountability of Public Enterprises in India, Uppal Publishing House, New Delhi.
10. पवार सुमित्रा, पाटील एस. डी. आणि सोनावणे प्रशांत, औद्योगिक अर्थशास्त्र, प्रशांत पब्लिकेशन जळगाव.
11. कुलकर्णी अविनाश, औद्योगिक अर्थशास्त्र, डायमंड पब्लिकेशन, पुणे.



<b>Course Code No: ECOM - 304</b>		<b>No. of Credits: 02</b>	<b>Semester: III</b>
<b>Course Title:</b>		<b>Share Market</b>	
<b>Course Objectives:</b> The objectives for this course are as follows: 1.To understand the students about basic terminologies of share market and its application. 2. To facilitate students identify about the candlestick chart, patterns, and take investment decision. 3. To aware the students about fundamental concept and technical indicators and Knowledge of share Market.			
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>	
I	<b>Introduction:</b> 1.1 Share Market – Meninge, Concept and types, Participants in the Share Market 1.2 SEBI – Power and Functions, Role in share Market. 1.3 Capital Market - Primary Market, Secondary Market. 1.4 Stock Exchanges in India - Sensex, Nifty and Sectors Indices.	15	
II	<b>Analysis of Share Market</b> 2.1 Types of Charts, candle formation, types of candles. 2.2 Types of Candlestick Pattern - Single and double Candlestick Pattern 2.3 Chart patterns - Reversal Pattern and Continuation Pattern.	15	
<b>Course Outcomes:</b> After this course completed outcomes will be as follows 1.Students will be able to understand about share market. 2. Students will analysis about share market. 3. Students will be earn on the basic of share Market Knowledge.			

**Suggested Readings:**

1. Punithavathy Pandian, "Security Analysis and Portfolio Management", Vikas Publishing House Pvt. Ltd.
2. Prasanna Chandra, "Investment Analysis and Portfolio management", Tata McGraw Hill, rd 3d Edn., 2008
3. Prasanna Chandra, "Investment Analysis and Portfolio management", Tata McGraw Hill,
4. Julian Walmsley, "New Financial Instruments", John Wiley & Sons, 2 edition, Inc 1998.
5. Bharati V. Pathak, "The Indian Financial System: Markets, Institutions and Services", rd Pearson education, 3 edn.
6. Bhole I. M.: "Financial Markets and Institutional": Tata McGraw Hill, New Delhi.
7. Chandler M. V. and Goldfeld S. M: Economics of Money and Banking: Harper and Row, New York.
9. V. A. Avadhani, Investment and Securities Market in India, Himalaya Publishing House.
10. Sanjeev Agarwal, A Guide to Indian Capital Market, Bharat Publishers
11. Ravi Puliani and Mahesh Puliani, Manual of SEBI, Bharat Publication
12. Jain, P.C.(1943), 'India Builds Her War Economy, Kitab Mahal, Allahabad.

13. Duguid, Charles. (1901), "The Story of the Stock Exchange - its History and Position, Grant Richards, London
14. SEBI Bulletin, Various Issues, Mumbai.
15. SEBI, Handbook of Statistics, Various Issues, Mumbai
16. The origins of Industrial Capitalism in India
17. History Regulation and Organization of the Stock market in India.

**Web Resources:**

<http://www.usatoday.com/story/money/business/2014/04/01/ozy-nifty-50-stocks/7156447/>  
[http://shodhganga.inflibnet.ac.in/bitstream/10603/12571/10/10\\_chapter%203.pdf](http://shodhganga.inflibnet.ac.in/bitstream/10603/12571/10/10_chapter%203.pdf)  
[http://shodhganga.inflibnet.ac.in/bitstream/10603/7800/8/08\\_chapter%202.p](http://shodhganga.inflibnet.ac.in/bitstream/10603/7800/8/08_chapter%202.p) Financial Services In India By G. Ramesh Babu check this site  
<http://archives.digitaltoday.in/businesstoday/20020120/stockmarkets2.html> [http://www.business-standard.com/article/beyond-business/150-years-later-115071001354\\_1.html#.V1t1\\_kb0uMl.twitter](http://www.business-standard.com/article/beyond-business/150-years-later-115071001354_1.html#.V1t1_kb0uMl.twitter)  
<http://www.mapsofindia.com/on-this-day/july-9-1875-the-bombay-stock-exchange-is-formed>  
<http://www.rediff.com/money/2006/apr/20bspec.htm>  
<http://economictimes.indiatimes.com/markets/bse-sees-fastest-sensex-rally-since-2003/articleshow/2665162>  
[http://economictimes.indiatimes.com/articleshow/2665167.cms?utm\\_source=contentofinterest&utm\\_medium=text&utm\\_campaign=cppst](http://economictimes.indiatimes.com/articleshow/2665167.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst)

**SEBI Web Resources:**

<http://www.sebi.gov.in/sebiweb/home/list/4/41/0/0/History-of-Indian-Securities-Market>,  
<http://www.thebubblebubble.com/1987-crash/>  
[http://www.sebi.gov.in/History/History Report1948.pdf](http://www.sebi.gov.in/History/History%20Report1948.pdf)  
<http://www.investopedia.com/ask/answers/140.asp>  
[http://www.na-businesspress.com/JABE/KumarS\\_Web14\\_4\\_.pdf](http://www.na-businesspress.com/JABE/KumarS_Web14_4_.pdf)



## Elective :3

NEP :Syllabus

M.A. Economics

W.E.F.2024-25

### M.A. ( Economics ) SYLLABUS

<b>Course Code No. ECOE-301</b>	<b>No. of Credits : 4</b>	<b>Semester : III</b>
<b>Course Title :</b>	<b>MATHEMATICS FOR ECONOMICS</b>	
<b>Course Objectives:</b> 1) To provide foundations of major techniques to solve. 2) To give students deeper understanding and working knowledge. 3) To create mathematical awareness regarding economics phenomena. 4) To developed the economic analysis skill with mathematical tools among students.		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
<b>I</b>	<b>Determinant and matrices:</b> 1.1 Determinant. 1.2 Types of matrices. 1.3 Laws- Associative, Commutative, Distributive 1.4 Rank of matrix. 1.5 Cramer's Rule	<b>14</b>
<b>II</b>	<b>Differentiations:</b> 2.1 Rules of differentiation of one variable function with proof. 2.2 Higher order derivative. 2.3 Rules of differentiation of two variables function. 2.4 Partial higher order derivative ,cross derivative.	<b>16</b>
<b>III</b>	<b>Theory of consumer Behaviour:</b> 3.1 Utility function-properties and uses, Indirect utility function. 3.2 Cardinal and ordinal utility maximization. 3.3 Concept of elasticity: mathematical derivation of elasticity, types of elasticity.	<b>12</b>
<b>IV</b>	<b>Analysis of the firm and market equilibrium:</b> 4.1 Production function- properties of production function, Cobb-Douglas production function, CES production function. 4.2 Cost functions: short run and long run cost function. Modern approach to theory of costs. 4.3 Input demand functions. 4.4 Price and output determination in perfect competition. 4.5 Monopoly: Price discrimination, market discrimination. 4.6 Monopolistic competition. 4.7 Duopoly and Oligopoly.	<b>18</b>

**Course Outcomes:**

- 1) Students will aware regarding to economic anlaysis with mathematical techniques .
- 2) Students will learn various mathematical techniques for economics interpretation.
- 3) Analyze consumer behaviour for utility maximization.
- 4) Apply pricing and output decisions in diverse market structure with mathematical techniques.

**Suggested Readings:**

1. Chiang A.C.(1986)Fundamental methods mathematical economics, McGraw, Hill New York.
2. Dowling ET. Introduction to mathematical Economics (2nd Edition ), (schaum's outline series of theory and problems ), McGraw -Hill,USA,1992.
3. Aggrawal B.M.(2010), Business mathematical and statistics, Ane Books Pvt,Ltd, New Delhi.
4. Bhose D.(2007),mathematical Economics , Himalaya publishing house, Nagpur .
5. Monga G.S.(1999), mathematics and statistics for Economics, vikas publishing , House pvt. Ltd. New Delhi.
6. Metha and Madnani (1992), mathematics for Economists Chand, New Delhi .
7. Mishra P.N.,(2003), Quarantine techniques for managers ,Excel Book private Limited, New Delhi.
8. Henderson and Quandt(1985), microeconomics theory :A mathematical Approach (third edition McGraw -Hill.
9. Agarwal H.S.(1976), Introduction to Econometrics, Lakshmi Nagar Agarwal, Agra.



<b>Course Code No: ECOE-302</b>	<b>No. of Credits: 04</b>	<b>Semester: III</b>
<b>Course Title:</b>	<b>ENVIRONMENTAL ECONOMICS</b>	
<b>Course Objectives:</b>		
<ol style="list-style-type: none"> <li>1) To aware students about Environment, Ecology and Economics.</li> <li>2) To aware students about Environmental accounting.</li> <li>3) To provide knowledge about various issues regarding environmental problems.</li> <li>4) To increase information of students about Environmental Governance and Management</li> </ol>		
<b>Unit</b>	<b>Course Content</b>	<b>Lecture Hrs.</b>
<b>I</b>	<b>Environment and Economics:</b> 1.1 Environment, Ecology and Ecosystem: Inter linkages between Environment, Ecology and Economics. 1.2 Environment as a necessity and luxury. 1.3 Environment – population linkage. 1.4 Environmental problems in developing countries.	12
<b>II</b>	<b>Environmental Accounting:</b> 2.1 Renewable and non – renewable resources. 2.2 Pollution - Environment linkage. 2.3 Market failure for environmental goods. 2.4 Environment as a public goods; the commons problem. 2.5 Property right approach to environmental problem. 2.6 Indicators of sustainable development and Environmental accounting.	18
<b>III</b>	<b>Environmental Problems and Measures:</b> 3.1 Pollution: Air Pollution, Water Pollution, Soil Pollution, Noise pollution, forest pollution and its impact on human life. 3.2 Climate change and its economic impact. 3.3 Environmental policy and measures in India. 3.4 Environment protection laws, Global Warming.	12
<b>IV</b>	<b>Environmental Governance and Management:</b> 4.1 Integrated environmental and economic accounting and the measurement. 4.2 Environmentally corrected GDP and Ecological Footprint Analysis 4.3 Global Environmental Governance - the Montreal and Kyoto Protocol. 4.4 International Environmental Treaties and Institutions - WTO and TRIPS as related to environmental issues. 4.5 Environmental regulations and assessment in Indian context.	18
<b>Course Outcomes:</b>		
At the end of this course students should be able to -		
<ol style="list-style-type: none"> <li>1. Understand the inter linkages between environment, ecology and economics.</li> <li>2. Optimal use of natural resources.</li> <li>3. Aware about the economic impact of environmental problems.</li> <li>4. Explain the global governance and management of environmental resources.</li> </ol>		

• **Suggested Readings:**

1. Anthony C. Fisher (1981): Resource and Environmental Economics, Cambridge University Press.
2. Ahmed M. Hussien (2014): Principles of Environmental Economics. 4th Ed, Routledge.
3. Horst Siebert (2010): Economics of the Environment: Theory and Policy, 7th Ed, Springer.
4. Anthony C. Fisher (1981): Resource and Environmental Economics, Cambridge University Press
5. Fisher, A.C(1981) Resource and Environmental Economics, Cambridge University Press, Cambridge
6. Hussien, A.M. (1999) Principles of Environmental Economics, Routledge, London.
7. Jeroen C.J.M. Van den Bergh (1999) Handbook of Environmental and Resource Economics, Edward Elgar Publishing Ltd.U.K.
8. Kavi Kumar, in Kanchan Chopra and Vikram Dayal (2009), (Ed). Hand book of Environmental Economics; Oxford University Press.
9. Kolstad, C.D.(1999) Environmental Economics, Oxford University Press, New Delhi
10. Pearce,D.W. and R.Turner (1991) Economics of Natural Resource Use and Environment John Hopkins University Press, Baltimore.
11. Perman, R.Ma and J.McGilvary (1996) Natural Resource and Environmental Economics, Logman, London.
12. 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)
13. Bhardwaj, R. (1983), Managing Limits to Growth, Asian and Pacific Development Centre, Kula Lumpur.
14. Nijkamp, P. (Ed.) (1976), Environmental Economics, Vol. 1 & II, Martinus Nijhoff, Leiden.
15. Charles Peering (1987), Economy and Environment Cambridge University Press, New York.
16. Ali, S. A. (1979), Resources for Future Economic Growth Vikas Publishing House, New Delhi.
17. Rathore, M. S. (Ed.) (1996), Environmental and Development, Rawat Publications, Jaipur.
18. Garge, M. R. (Ed.) (1996), Environmental Pollution and Protection, Deep and Deep Publications, New Delhi.
19. विश्वास कदम (२००५), विकासाचे अर्थशास्त्र व पर्यावरण, नक्षत्र प्रकाशन, औरंगाबाद.
20. पुरोहित वसुधा (२००५), विकास व पर्यावरणाचे अर्थशास्त्र, विद्या बुक्स पब्लिशर्स, औरंगाबाद.



21. खंदारे विकास (२००५), विकास आणि पर्यावरणीय अर्थशास्त्र,  
कैलास पुब्लिकेशन, औरंगाबाद.

<b>Course Code No: ECOE - 303</b>		<b>No. of Credits: 04</b>	<b>Semester: III</b>
<b>Course Title:</b>		<b>Insurance Economics</b>	
<b>Course Objectives:</b>			
1.To give knowledge about insurance business. 2.The Course is Given in -depth knowledge of insurance business. 3. To Understand the Working and function of the insurance Sector. 4. To Study the inter -relationship between insurance & Risk Management 5. To Analyze the role of Insurance Business Intermediaries.			
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>	
I	<b>Introduction of Insurance:</b> 1.1. Definitions of Insurance, Characteristics & Scope of Insurance, Nature & Importance of Insurance. 1.2. Principle of Contract of Insurance. 1.3. General Concepts of Insurance, Insurance and hedging 1.4. Types of Insurance. 1.5. Role of Insurance in Economic Development.	15	
II	<b>Insurance Regulation in India:</b> 2.1. Insurance Act,1938-Summary Provision of Insurance Act,1938. 2.2. Insurance Regulatory and Development Authority (IRDA)- Introduction, Purpose, Duties, Power, and function of IRDA. 2.3. Operations of IRDA-Insurance Policyholder Protection Under of IRDA-Exposure /Prudential norms. 2.4. Summary Provision related to Act-Consumer Protection Act and Transfer of Property Act.	15	
III	<b>Life &amp; Crop Insurance Business:</b> 3.1. Importance of Life Insurance. 3.2. Various plans of life Insurance. 3.3. Performance of life Insurance Government & Privat Sector in India. 3.4. Performance of Crop Insurance in India.	14	
IV	<b>General Insurance Business:</b> 4.1Fundamental Principles of general insurance. 4.2 Fire Insurance, Marine Insurance. 4.3Motor Insurance, Personal Accident Insurance, Liability insurance. Miscellaneous Insurance, Claims Settlement.	16	
<b>Course Outcomes:</b>			
At the end of this course, 1) Demonstrate knowledge of insurance contracts and provisions. 2) The feature of property-liability insurance. 3) Employee benefit plans. 4) Demonstrate knowledge of the operation and management of insurance entities. 5) The economic implication of organizational design and structure.			

**Suggested Readings:**

1. George Rejda, Principles of Risk Management and Insurance, Pearson Education.
2. S. Balachandran, General Insurance, Insurance Institute of India.
3. S. Balachandran, Karve, Palav, Life Insurance, Insurance Institute of India.

4. M. Y. Khan, Indian Financial System, Tata McGraw-Hill.
5. Bharti Pathak, Indian Financial System, Pearson Education.
6. C. Arthur, William Jr., Michael Smith, Peter Young, Risk Management and Insurance, McGraw-Hill
7. Trieschmann, Gustavson, Hoyt, Risk Management and Insurance, South Western College Publishing.
8. Gupta, P. K, Insurance and Risk Management, Himalaya Publishing House
9. Insurance Theory and Practice Nalini Prava Tripathy & Prabir Pal, Prentice Hall of India, Pvt Ltd, New Delhi
10. Gupta P. K. (2008), Fundamentals of Insurance, Himalaya Publishing House, Delhi..
11. Dionne G. and S.E. Harringdon (Eds.) (1997), Foundations of Insurance Economics, Kluwer Academic Publishers, Boston.
12. Finsinger J. and Pauly M.V. (Eds.) (1986), The Economics of Insurance Regulation: A Cross national study. Macmillan, London.

**Additional Readings:**

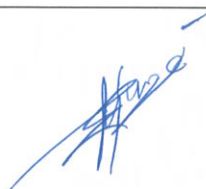
1. Desai G. R. (1973), Life Insurance in India Its History and Dimensions of Growth, Macmillan India Ltd..
2. Fredric G. Crane(1980), Insurance Principles and Practice, Johan Wiley.
3. Kaushal and Mohanty, (2002), Insurance Law Manual, Universal Law Publishing Co. Pvt. Ltd.
4. Muller Lutz (1966), Basic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

**Web Resources:**

1. [www.indiainfoline.com](http://www.indiainfoline.com)
2. [www.insuremagic.com](http://www.insuremagic.com)
3. [www.bimaonline.com](http://www.bimaonline.com)
4. [www.insure.com](http://www.insure.com)
5. [www.irdaindia.org](http://www.irdaindia.org)
6. [www.insuranceinstituteindia.com](http://www.insuranceinstituteindia.com)

### M.A. (Economics) SYLLABUS

<b>Course Code No: ECOM-305</b>	<b>No. of Credits: 04</b>	<b>Semester: III</b>
<b>Course Title:</b>	<b>RESEARCH PROJECT-1</b>	
<b>Course Objectives:</b> 1. To develop the research skill of student. 2. To aware the student about social and economic problems in society. 3. To generate employment ability among the students.		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
I	Student can choose the topics for case study / pilot project related to his/her major subject in concern with his supervisor.	60
<b>Course Outcomes:</b> There are following outcomes of this course 1. After the completion of this course research skill of students will develop. 2. Students will be able to organize socio-economic surveys. 3. Students will get the job on the basis of research knowledge. 4. Students will analyze various socio-economic issues in society.		



**M.A. (Economics) SYLLABUS**

<b>Course Code No. ECOM- 401</b>	<b>No. of Credits : 4</b>	<b>Semester : IV</b>
<b>Course Title :</b>	<b>Indian Public Finance</b>	
<b>Course Objectives:</b> On successful completion of the course students will able to: <ol style="list-style-type: none"> <li>1. To understand the nature, structure and functioning of public economics with reference to India.</li> <li>2. To familiar with the tax structure and different taxes of the Indian Government.</li> <li>3. To analyze the growth and Trends of public expenditure of the Indian Government.</li> <li>4. To examine fiscal federalism and its implications in the Indian Economy.</li> </ol>		
<b>Unit</b>	<b>Course content</b>	<b>Lectures Hours</b>
I	<b>THE INDIAN TAX STRUCTURE:</b> 1.1 Tax revenue of the central government. 1.2 Taxes on Income and Wealth- personal income tax, corporation tax, taxes on wealth and capital. 1.3 Indirect taxation - GST - Meaning, Silent Features, Benefits and critical evaluation. 1.4 Custom Duties. 1.5 Evaluation of Indian Tax Structure.	16
II	<b>PUBLIC EXPENDITURE IN INDIA: TRENDS AND ISSUES</b> 2.1 Growth and Trends of public expenditure in India 2.2 Composition of the Government expenditure in India. 2.3 Causes of the Rise in public expenditure in India. 2.4 Public Expenditure Management in India.	14
III	<b>PUBLIC DEBT IN INDIA:</b> 3.1 The role of Debt Finance. 3.2 Central Government Debt- Composition: Public Debt and Other Liabilities. 3.3 Debt of state government - size and Composition. 3.4 Causes of the Rapid growth of public debt. 3.5 Problems of public debt. 3.6 Public Debt Management.	14
IV	<b>FISCAL FEDERALISM IN INDIA:</b> 4.1 Nature of Indian federalism in India. 4.2 Division of resources, Transfer of resources. 4.3 Fifteenth Finance Commission. 4.4 Current Budget of the Union Government of India.	16
	<b>COURSE OUTCOMES:</b> After completion of this course the students will be able to- <ol style="list-style-type: none"> <li>1. Have conceptual clarity on the structure of public Economics in India.</li> <li>2. Understand the tax structure under the constitution of India.</li> <li>3. Analyze the trends and growth of public expenditure in India.</li> <li>4. Evaluate the fiscal federalism and center - State relations.</li> </ol>	

## References:

1. Bhatiya H.L. (2024), Public Finance, 32<sup>nd</sup> Edition, Vikas Publishing House Private Limited, Noida
2. Datt Gaurav, Mahajan Ashwani, (2024) Indian Economy, 73<sup>rd</sup> Edition, S Chand and Company Limited, Noida
3. Government of India, Report of the Fifteenth Finance Commission, 2021-2026. (Delhi-2020).
4. Government of India, Various Economic Survey, Various issues.
5. Gupta J. R., (2007), Public Economics in India, Atlantic Publisher & Distributers, New Delhi
6. Puri V.K., Misra S.K., Garg Bharat, (2023), Indian Economy 41<sup>st</sup> Edition, Himalaya Publishing House, Mumbai
7. Reserve Bank of India, State Finance, A Study of Budgets, Various issues.
8. Sing Ramesh (2024), Indian Economy, 16<sup>th</sup> Edition, Mc Graw Hill Education Private Limited, Chennai
9. Sury M.M (2010), Finance Commission and Fiscal Federalism in India, New Century Publications, New Delhi
10. Sury M.M. (2020) Public Economics, New Century Publications, New Delhi
11. White Paper on GST by the Empowered Committee.

## Extra Reding List :

1. Gupta J.R. , Public Economics in India: Theory & Practices, Atlantic Publishers, New Delhi.
2. Lekhi R.K., Public Finance, , Kalyani Publication, New Delhi
3. Musgrave R.A., Musgrave P.B. (2005), The Theory Public Finance, McGraw Hill Book Company
4. Singh S.K. (1986) Public Finance in Developed and Developing Countries, S.Chand and Company Ltd, New Delhi.
5. Tripathy R.N. Public Finance in Underdeveloped Countries.
6. Tyagi B.P., Public Finance, Jai Prakash Nath Pub. Meerat (UP).



<b>Course Code No: ECOM-402</b>		<b>No. of Credits: 04</b>	<b>Semester: IV</b>
<b>Course Title:</b>		<b>SERVICE SECTOR IN INDIA</b>	
<b>Course Objectives:</b>			
<ol style="list-style-type: none"> <li>1. To aware students about service sector in Indian economy.</li> <li>2. To aware students about Role of Service Sector.</li> <li>3. To provide knowledge about performance of service sector in India</li> <li>4. To increase information of students about Policy Issues and reforms for Service Sector</li> </ol>			
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>	
I	<b>Service Sector:</b> 1.1 Meaning, Nature, Characteristics and Classification of services. 1.2 Contribution of service sector in Indian economy. 1.3 Employment generation in service sector of India.	12	
II	<b>Role of Service Sector:</b> 2.1 Service Sector in India and Maharashtra. 2.2 Importance, Composition and Growth of service sector. 2.3 share of service sector in national income.	12	
III	<b>Performance of Service Sector in India:</b> 3.1 Growth and performance of service sector in India – Pre and post-Independence period. 3.2 Performance of Banking and Finance Sector. 3.3 Performance of Information and Technology Sector. 3.4 Performance of Social Infrastructure- Health and Education.	18	
IV	<b>Policy Issues and reforms for Service Sector:</b> 4.1 (i) FDI, (ii) Disinvestment, (iii) Tariff and Taxes and (iv) Sector Specific Issues. 4.2 Reforms in the Service Sector. 4.3 Recent Policies for Service sector in India and Maharashtra. 4.4 National Investment and Infrastructure Fund (NIIF) and impact on Service Sector in India.	18	
<b>Course Outcomes:</b>			
At the end of this course, Students should be able to :-			
<ol style="list-style-type: none"> <li>1. Aware about service sector.</li> <li>2. Understand the role of service sector in Indian economy.</li> <li>3. Aware of the performance of service sector in India.</li> <li>4. Explain the Policy Issues and reforms for Service Sector.</li> </ol>			

### Suggested Readings:

1. Jan Owen Jansson, (2013), The Economics of Services, Edward Elgar publishing limited, UK
2. Talluru Sreenivas, (2006), Service Sector in Indian Economy, Discovery Publishing Pvt. Ltd , New Delhi
3. Panagariya, Arvind, (2008). India the Emerging Giant, New York: Oxford University Press.
4. Kaushik Basu (ed), (2010). The Oxford Companion to Economics in India. Oxford University Press, New Delhi.
5. Ministry of Finance (2007). "Strategy for India's Services Sector: Broad Contours", Working Paper 1.
6. Bhagwati, Jagdish N. (1984). "Splintering and Disembodiment of Services and Developing Nations", The World Economy, Volume 7, Issue 2, pages 133–144, June 1984.
7. Hansda, S. K. (2001). "Sustainability of Services-led Growth: An Input Output Analysis of Indian Economy", RBI Occasional Working Paper, Vol. 22, No. 1, 2 and 3.
8. Ansari, Mohammed I (1995). 'Explaining the Service Sector Growth: An Empirical Study of India, Pakistan, and Sri Lanka', Journal of Asian Economics 6, No. 2: 233-246.
9. Barry Eichengreen and Poonam Gupta (2011). 'The two Waves of Service-Sector Growth', Oxford Economic Papers, 65, No. 1: 96-123.
10. Sirari A S, and Bohra N S (2011). 'Foreign Direct Investment (FDI) in India's Service Sector: A Study of Post Liberalisation', International Journal of Economic Research, No. 2: 10-18.
11. Wu, Yanrui (2007). 'Service Sector Growth in China and India: A Comparison', China: An International Journal 5, No. 1: 137-154.
12. Gaurav Dutt and Ashwani Mahajan (ed.), Indian Economy (2012). Dutt and Sundharam, S. Chand and Company Ltd, New Delhi.
13. Bhole L. M. & J. Mahakud (2009). Financial Institutions and Markets, 5th Edition, Tata McGraw Hill Publishing Company Ltd.
14. Basu, K. (2015). An Economist in the Real World: The Art of policymaking in India , Penguin Viking.
15. Kapila, U (2015). Indian Economy Since Independence, Academic Foundation, New Delhi.
16. ) Krugman P. R., M. Obstfeld & M. J. Melitz (2018). International Economics: Theory and Policy, 10th Edition, Pearson India
17. Sharan Vyuptakesh and Indra Natn Mukherjee (2001). India's External Sector, Oxford University Press, New Delhi



**M.A. (Economics ) SYLLABUS**

<b>Course Code No. ECOM- 403</b>	<b>No. of Credits : 4</b>	<b>Semester : IV</b>
<b>Course Title :</b>	<b>DEVELOPMENT ECONOMICS</b>	
<b>Course Objectives: On successful completion of the course students will able to:</b>		
<ol style="list-style-type: none"> <li>1. To expose students to concepts and basic issues of Economic Development.</li> <li>2. To make aware about the Human Resource Development Index.</li> <li>3. To develop keen interest in various sectoral aspects of Economic Development, as well as develop their theoretical, empirical and analytical skills.</li> <li>4. To understand the critical key theories of modern economic development.</li> </ol>		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
<b>I</b>	<b>Introduction:</b> 1.1 Meaning, Features and types of Development Economics. 1.2 Determinant factors of economic development , Factors affecting economic development . 1.3 Measurement of economic development policy of inclusive development of India. 1.4 The basic issues of economic development of India.	<b>14</b>
<b>II</b>	<b>Human Resource Development &amp; Different Development Indices:</b> 2.1 Meaning of Human Resource Development, Forms of Human Resource Development, Importance and measurements of Human Resource Development. 2.2 Amartya Sen's Capabilities Approach. 2.3 Human Development Index. 2.4 Human Poverty Index.	<b>16</b>
<b>III</b>	<b>Theories of Economic Development:</b> 3.1 Schumpeter's theory of economic development, 3.2 Lewis theory of unlimited supply of labour. 3.3 Nurkse's theory of disguised unemployment. 3.4 Myrdal's theory of circular causation.	<b>16</b>
<b>IV</b>	<b>Sectoral Aspects of Economic Development:</b> 4.1 Role of Information Communication Technology (ICT) in economic development. 4.2 Role of agriculture and industries in economic development. 4.3 Role of finance in economic development. 4.4 Role of international trade in economic development.	<b>14</b>
<b>Course Outcomes:</b>		
At the end of the syllabus the students will be able to:		
<ol style="list-style-type: none"> <li>6) Identify the determinants and affecting factors of economic development.</li> <li>7) Evaluate the modern theories of economic development.</li> <li>8) Examine the role of sectoral aspects in the economic development.</li> <li>9) Critically examine the HDI and HPI.</li> </ol>		

**Suggested Readings:**

1. Aggarwal R.C. : Economics of Development and Planning, Lakshmi Narain, Aggrawal, Agra.
2. Ashwani Saith and M.Vidyabhaskar: ICTs and Indian Economic Development,

- a. Sage Publications, New Delhi.
3. Debraj Dasgupta : Development Economics ,A very Short Introduction, Oxford University Press, New Delhi.
  4. Hayami, Y.: Development Economics Oxford University Press, New York.
  5. Higgins, B.: Economic Development-Problems, Patterns and Policies, Central Book Depot, Allahabad.
  ६. Human Development Report ( 2019 and 2020)
  7. Jingan,M.L.: The Economics of Development and Planning, Vrinda Publication, New Delhi.
  8. Lekhi, R.K. :The Economics of Development and Planning, Kalyani Publishers, New Delhi.
  9. Mishra and Puri : Development and Planning Theory and Practice, Himalaya Publishing House, New Delhi.
  10. Naga Raju Battu: Human Resource Development, APH Publishing Corporation, New Delhi.
  11. Thirlwall, A.P: Economics of Development,9<sup>th</sup> Edition, Palgrave Macmillan.
  12. Todoru, M.P. & Smith, S.C: Economic Development,10<sup>th</sup> Edition, Addison- Wesley.
  13. Uday Kumar Halder , Human Resource Development, Oxford University Press, New Delhi.
  14. India: National Multidimensional Poverty Index , A Progress Review, NITI Aayog 2023
  15. चतुर्भुज मामोरीया : भारत का आर्थिक विकास एवं नियोजन , प्रथम आवृत्ती ,एस. बी.पी.डी. पब्लिशिंग हाउस.
  16. पाटील जे .एफ.: वृद्धी व विकासाचे अर्थशास्त्र , फडके प्रकाशन ,कोल्हापूर
  17. पुरोहित वसुधा : विकास व पर्यावरणाचे अर्थशास्त्र,विद्या बुक्स पब्लिशर्स ,औरंगाबाद.
  18. मिश्रा जे.पी. : भारत की आर्थिक नितियां,साहित्य भवन पब्लिकेशन ,आगरा.



## Elective :4

NEP :Syllabus

M.A. Economics

W.E.F.2024-25

### M.A. (Economics) SYLLABUS

<b>Course Code No: ECOE-401</b>	<b>No. of Credits: 04</b>	<b>Semester: IV</b>
<b>Course Title:</b>	<b>ECONOMETRICS</b>	
<b>Course Objectives:</b> The objective of this paper is to convert qualitative statements into quantitative statements. 1. To provide an understanding of basic Econometric theory. 2. Develop knowledge of applied Econometrics 3. Apply models to real-world problems and on interpreting the estimation results.		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
I	<b>Simple and Multiple Regression Analysis.</b> 1.1 Two and Three variable Linear Model. 1.2 The Ordinary least-Squares Method. 1.3 Tests of significance of parameter estimates. 1.4 Test of Goodness of Fit. 1.5 Properties of Ordinary Least-Squares Estimators.	18
II	<b>Application of Linear Regression Model.</b> 2.1 Growth Rates:- Linear Growth Rate, Compound Growth Rate. 2.2 Cobb-Douglas Production Function. 2.3 Demand Function. 2.4 Supply Response Function.	12
III	<b>Problems in Regression Analysis.</b> 3.1 Multicollinearity. 3.2 Heteroscedasticity. 3.3 Autocorrelation. 3.4 Errors in Variables.	12
IV	<b>Simultaneous-Equations and Time –Series Methods.</b> 4.1 Simultaneous-Equations Models. 4.2 Identification. 4.3 Estimation:- Indirect Least Squares and Two –Stage Least Squares. 4.4 Lags:- Autoregressive Linear Model, Distributed Lag Model, Koyak Lags, Almon Distributed Lag. 4.5 Estimate Marginal Effects as Percent changes and Elasticities:- The log –Linear Model, The Log-Log Model	18
<b>Course Outcomes:</b> At the end of this course- 1: Understand core concepts and techniques in Econometrics. 2 :- Gain necessary knowledge of various regression models and their assumptions. 3:- Learn to run simultaneous equation models.		

**Suggested Readings:**

1. Gujarati, Damodar (2003), Basic Econometrics, 4<sup>th</sup> Edition, Tata McGraw-Hill Publishing Company, New Delhi.
2. Studenmund, A.H. (2017), Using Econometrics: A practical Guide, Pearson Education, Limited.Noida.
3. Koutsoyiannis, A. (2006) Theory of Econometrics, 4 th Edition,
4. Hilmer and Chandan Sharma. (2020) Practical Econometrics, special Indian Edition.McGraw-Hill Companies, Inc., New York.EE
5. Acharya-Madnani. (1988) Applied Econometrics For Agricultural Economists ,Himanshu Publications Udaipur.
6. G.M.K.Madnani. (1980) Introduction to Econometrics Principles and Applications , Oxford & IBH Publishing co. PVT. Ltd. New Delhi.
7. B.C. Mehta & Kranti Kapoor. (2005) Fundamentals of Econometrics,7<sup>th</sup> Edition, Himalaya Publishing House Mumbai
8. S. Shyamala & Navdeep Kaur. (2019)Econometrics Theory and Appications, 3<sup>rd</sup> Edition, Vishal Publishing co.Jalandhar.
9. Kerry Patterson. (2000) An Introduction to Applied Econometrics A time series approach, Palgrave Publishers Ltd New York.
10. Hamid R. Seddighi. (2012) Introductory Econometrics A Practical approach, 1<sup>st</sup> Edition, Routledge New York.
11. Neeraj R. Hatekar .(2010) Principles of Econometrics An Introduction (Using R), 1<sup>st</sup> Edition, Sage Publication India Pvt Ltd, New Delhi.
12. Damodar Gujarati. (2015), Econometrics by Example 2<sup>nd</sup> Edition,Palgrave Publishers Ltd New York.
13. Dilip M.Nachane. (2010), Econometrics Theoretical Foundation and Empirical Perspectives, 2<sup>nd</sup> Edition , Oxford University Press, New Delhi.
14. James H.Stock & Mark W. Walson (2003), Introduction to Econometrics, 1<sup>st</sup> Edition, Pearson Education (Singapore) Pte.Ltd.



<b>Course Code No: ECOE – 402</b>	<b>No. of Credits: 04</b>	<b>Semester: IV</b>
<b>Course Title:</b>	<b>Economy of Maharashtra</b>	
<b>Course Objectives:</b> The objectives for this course are as follows. 1.To aware the students about various issues in Economy of Maharashtra. 2.To enable the students about problems in Economy of Maharashtra. 3.To prepare the students for competitive exam e.g. MPSC, UPSC.		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
I	<b>Introduction:</b> 1.1. General Information regarding Economy of Maharashtra. 1.2. Basic features of Economy of Maharashtra. 1.3. Significance and Role of Economy of Maharashtra in Indian Economy.	14
II	<b>Various Issues in Economy of Maharashtra:</b> 2.1. Population in Maharashtra - Size, Growth, Density, Rural and Urban Population, Literacy and Sex Ratio. 2.2. Birth Rate - Meaning, Causes and Remedies. 2.3. Unemployment - Meaning, Types, Causes and Remedies. 2.4. Poverty - Meaning, Types, Causes and Remedies.	16
III	<b>Agriculture in Maharashtra:</b> 3.1. Role of Agriculture in Economy of Maharashtra. 3.2. Productivity of Agriculture - Causes of Low Productivity and Remedies. 3.3. Land Reform in Maharashtra - Irrigation Projects in Maharashtra. 3.4. Agriculture Marketing - Problems and Measures.	15
IV	<b>Industrial Development in Maharashtra:</b> 4.1. Structure of Industries in Maharashtra. 4.2. Role of Industries in Development of Maharashtra. 4.3. Regional Imbalance in Industrial Development of Maharashtra. 4.4. Recent Industrial Policies in Maharashtra.	15
<b>Course Outcomes:</b> 1. Students will be aware about the general information of Maharashtra. 2. Increase the knowledge of students about various problems in Maharashtra. 3. Students will get the information regarding agricultural sector in Maharashtra. 4. Students will be aware about the industrial sector in Maharashtra.		

**Suggested Reading:**

1. Datt R. and K.P.M. Sundaram (2022), Indian Economy, S. Chand and Co. Ltd., New Delhi.
2. Gopal and Suman Banhri (2013), Indian Economy Performance and Policies, Pearson Publication Delhi.
3. Government of India, Yearly - Economic Survey of India, New Delhi.

4. Misra S.K. and V.K. Puri (2011), Indian Economy, Himalaya Publishing House, Mumbai.
5. RBI, Hand Book of Statistics of India.
6. Mungekar Bhalchandra, (Ed.) Economy of Maharashtra.
7. Economic Survey of Maharashtra, Directorate of Economics and Statistics, Government of Maharashtra.
8. चव्हाण एन.एल., गायकवाड मनोजकुमार, कृषी अर्थशास्त्र, प्रशांत पब्लिकेशन्स, जळगाव.
9. बिरादार माधव, महाराष्ट्राची अर्थव्यवस्था, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
10. सोळुंके आर.एस, महाराष्ट्राची अर्थव्यवस्था, कैलास पब्लिकेशन्स, औरंगाबाद.



<b>Course Code No: ECOE – 403</b>		<b>No. of Credits: 04</b>	<b>Semester: IV</b>
<b>Course Title:</b>		<b>Computer Application in Economics</b>	
<b>Course Objectives:</b> The objectives for this course are as follows. 1.To enable the students about use of MS-Office in Economics. 2.To prepare the students for data analysis by MS Excel. 3. To prepare the students for Output display.			
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>	
I	<b>Introduction:</b> 1.1.Definition and importance of computer 1.2.Basic components of computer - CPU, input and output devices: keyboard, mouse, scanner, printers 1.3.Types of computers and their applications, hardware, software and firmware. 1.4.Introduction to operating system, types and versions of operating system. 1.5.Components of the windows operating system: desktop, menus, taskbar, control panel, accessories. 1.6.Applications of internet and its use in Economic Research.	12	
II	<b>Basic of MS-Office:</b>  2.1. MS-Word: The MS-Word window, Entering, selecting, copying and moving text, Applying fonts and indenting text, creating numbering and bullets, finding and replacing text, spelling, grammar and thesaurus, references, creating page, headers and footers, endnote, constructing tables and mail merge.  2.2 MS Excel skills: Entering and Editing Cell Entries, Working with Numbers, Changing the worksheet layout, Formatting Text, Borders and Color, Printing in MS-Excel, Using Functions and References, Naming Ranges.	12	
III	<b>Data Analysis:</b> 3.1. Preparation of Frequency Distribution. 3.2 Calculation of Mean and Median 3.3 Standard Deviation. 3.4 Coefficient of Variation. 3.5 Correlation Coefficient. 3.6 Regression Coefficients and its slope. 3.7 Trend Line using Method of Least Squares and Moving Averages.	18	
IV	<b>Output Display:</b> 4.1. Interpretation of Output. 4.2 Transfer of Data Display Formats. 4.3 Creating and Editing Graphs. 4.4 Tables.	18	

**Course Outcomes:**

1. Students aware about the computer application .
2. Increase the knowledge of students about MS Office use in Research.
3. Students got the information regarding data analysis through MS Excel.
4. Students aware about the Output display.

**Suggested Reading:**

1. Rajaraman, V. (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.
2. Sanders D.H. (1988), Computers Today, Mc Gram Hill (3rd Edition)
3. Wood, M.B. (1983), Introduction Computer Security, Broadman Associates, Delhi.
4. Agrawal, Rajneesh and Bharat Bhushan Tiwari, (2008),, Data Communication and Computer Networks, New Delhi, Vikas Publishing House Pvt. Ltd.
5. Mishra S. K. and J.C. Binwal, (1991),, Computer Application in Social Science Research, New Delhi, Vikas Publishing House Pvt. Ltd.
6. Sanjay Saxena and Others, (2020), Computer applications in Economic analysis, Vikas Publishing House, New Delhi.



<b>Course Code No: ECOM-405</b>	<b>No. of Credits: 06</b>	<b>Semester: IV</b>
<b>Course Title:</b>	<b>RESEARCH PROJECT-2</b>	
<b>Course Objectives:</b> <ol style="list-style-type: none"> <li>1. To develop the research skill of student.</li> <li>2. To aware the students about research project writing skill.</li> <li>3. To aware the student about social and economic problems in society.</li> <li>4. To generate research employment ability among the students.</li> <li>5. To aware the students about local, state and national level socio-economic problems.</li> </ol>		
<b>Unit</b>	<b>Course Content</b>	<b>Lectures Hrs.</b>
I	Student can choose the research project related to his/her major subject in concern with his supervisor.	90
<b>Course Outcomes:</b> There are following outcomes of this course <ol style="list-style-type: none"> <li>1. After the completion of this course research skill of students will develop.</li> <li>2. Students will be able to organize socio-economic surveys.</li> <li>3. Students will get the job on the basis of research knowledge.</li> <li>4. Students will analyze various socio-economic issues in society.</li> <li>5. After completion of research project the students research approach will be developed related to local, state and national level socio-economic problems.</li> </ol>		

*Prof. Dileep Arjune*