



Savitribai Phule Pune University

(Formerly University of Pune)

Faculty of Humanities
Board of Studies in Economics

New Syllabus for Affiliated Colleges of SPPU

M.A. Economics Part - II

[Semester III & IV]

**Choice Based Credit System Syllabus
NEP 2020**

To be implemented from Academic Year 2024-2025

INTRODUCTION:

M.A in Economics Program (Pattern 2023/CBCS/NEP2020) will be introduced in the following order:

- a) First Year PG 2023-2024
- b) Second Year PG 2024-2025
- ✓ M. A. Degree Programme will consist of four semesters divided into two Years.
- ✓ The First Year (Semester I and II), Second Year (Semester III and IV), Choice Based Credit System
- ✓ Examination will be held for each semester. Continuous Internal Assessment (CIA) will have 30% weightage and Semester End Assessment (SEA) will carry 70% weightage. Internal assessment tools used for previous semester should be avoided for the next Semester.
- ✓ It covers in-depth study of Economics as a major subject at post-graduation level with focus on the advanced economic theory, different streams in the subject of Economics like micro, macro, public economics, international economics, agricultural economics, rural and urban development, demography, financial systems and market, its application, policy making and contemporary changes in the subject.

OBJECTIVES OF M.A. IN ECONOMICS PROGRAMME ARE:

- 1) To develop a strong foundation of advanced economic theory aligned with the graduation and honours program.
- 2) To help students to gain the comprehensive understanding of the policy making for rural and urban economy along with national and international level.
- 3) To help students in understanding the intricacies of policy making process from local to global level.
- 4) To build the theoretical foundations of Economics and its inter and multidisciplinary relationship with respect to pure and other social sciences.
- 4) To develop an understanding about the role of the national and international governments/institutions in building consensus about the policies that help in welfare.
- 5) To make aware the students about the interrelations between economy and society and develop a critical thinking about policy making, growth and development and sustainability.

PROGRAMME SPECIFIC OUTCOMES (PSOS):

- PSO - 1. Knowledge of Economic Theories:** Graduates of M.A. in Economics will possess a strong understanding of economic theories, including microeconomics, macroeconomics, econometrics, and other specialized areas of economics.
- PSO - 2. Analytical Skills:** Graduates will be able to apply economic concepts and theories to analyse real-world economic issues, such as market behaviour, policy implications, and economic trends. They should also be able to critically evaluate economic research and data using statistical and econometric techniques.
- PSO - 3. Research and Writing Skills:** Graduates will have developed advanced research and writing skills, including the ability to conduct independent research, analyse economic data, and communicate their findings effectively through written reports, policy briefs, and other forms of economic writing.
- PSO - 4. Policy Analysis:** Graduates will be able to assess the impact of economic policies on various stakeholders and evaluate their effectiveness in achieving desired outcomes. They should also be able to propose evidence-based policy recommendations to address economic challenges and promote economic growth.
- PSO - 5. Quantitative Skills:** Graduates will develop a strong foundation in quantitative methods, including statistical and econometric techniques, and be able to apply these skills to analyse economic data and conduct empirical research.
- PSO - 6. Communication Skills:** Graduates will be able to communicate complex economic concepts and findings to different audiences, including policymakers, business leaders, and the general public, in a clear and concise manner.
- PSO - 7. Critical Thinking:** Graduates will develop critical thinking skills and be able to analyse economic problems from multiple perspectives, consider trade-offs, and propose innovative solutions based on economic principles and evidence.
- PSO - 8. Professional Ethics:** Graduates will understand and adhere to the professional ethics and standards of the economics, including academic integrity, objectivity, and confidentiality in research and policy analysis.
- PSO - 9. Professional Development:** MA Economics programs often include professional development components, such as internships or seminars, to prepare students for careers in economics.

Syllabus Designing Committee

MA – I – Economics, Semester – I & II

Sr. No.	Name of Professor	BoS Member / Member
1	Dr. Sunil P. Ugale	Chairman
2	Dr. Vilas B. Adhav	BoS Member
3	Dr. Amita Yadwadkar	BoS Member
4	Dr. Gorakshanath K. Sanap	BoS Member
5	Dr. Baban M. Sonawane	BoS Member
6	Dr. Nitin D. Ade	BoS Member – Coordinator
7	Dr. Madhav H. Shinde	BoS Member
8	Dr. Parmeshwar S. Gadkar	BoS Member
9	Dr. Somnath V. Patil	BoS Member
10	Dr. Jaywant R. Bhadane	BoS Member
11	Dr. Amol A. Gaikwad	BoS Member
12	Dr. Ramdas K. Gadge	BoS Member
13	Dr. Suresh Manid	BoS Member
14	Mr. Jignesh C. Furiya	BoS Member
15	Dr. Ajit Bhandakkar	BoS Member
16	Dr. Santosh K. Dalavi	Member
17	Dr. Basavraj C. Patil	Member
18	Dr. Jayashri P. Jadhav	Member
19	Dr. Subhash S. Agale	Member
20	Dr. D. S. Talule	Member
21	Dr. Hanumant P. Shinde	Member
22	Prof. Sham L. Satarle	Member
23	Dr. Manasi Kurtkoti	Member
24	Dr. Ramesh S. Desai	Member
25	Dr. Pratap J. Phalphale	Member
26	Dr. Bejmi Gregari Lobo	Member
27	Dr. Mohan Kamble	Member

**Credit distribution structure for Two Years PG
M.A. Economics, Part – I & II**

With effect from Academic Year 2023-2024

Level	Semester	Credits Related to Major		RM	OJT	RP	Total
		Mandatory / Core	Electives				
6.0	I	12 (T)+2 (P)	4 (T)	4	0	0	22
	II	12 (T)+2 (P)	4 (T)	0	4	0	22
Total Credit – 1 Years / 2 Semester		28	8	4	0	0	44
6.5	III	12 (T)+2 (P)	4 (T)	0	0	4	22
	IV	10 (T)+2 (P)	4 (T)	0	0	6	22
Total Credit - 2 Years / 4 Semester		54	16	4	4	10	88

Abbreviations – 1. T – Theory
2. P – Practical
3. RM - Research Methodology
4. OJT: On Job Training (Internship)
5. FP - Field Project
6. RP - Research Project

**Credit distribution structure and Subject Title for M.A. Economics
– Semester III & IV**

With effect from Academic Year 2024-2025

Level	Semester	Credits Related to Major		RM	OJT	RP	Total
		Mandatory/Core	Electives				
6.5	III	1. EC0-601-MJ- Macro Economic Analysis I - [4T] 2. EC0-602-MJ-- Economic Growth & Development I- [4T] 3. EC0-603-MJ- Indian Financial System I- [4T] 4. EC0-604-MJP- Indian Financial System II [2P]	1. EC0-611-MJ- Demography- [4T] or 2. EC0-612-MJ- Mathematical Economics - [4T] or 3. EC0-613-MJ- Rural Development - [4T]	-	-	ECO-631-RP- Research Project [4]	22
6.5	IV	1. EC0-651-MJ- Macro Economic Analysis II - [4T] 2. EC0-652-MJ- Economic Growth & Development II- [4T] 3. EC0-653-MJ- Economics of Environment I [2T] 4. EC0-654-MJP- Economics of Environment II [2P]	1. EC0-660-MJ- Public Policy- [4T] or 2. EC0-661-MJ- Urban Economics - [4T] or 3. EC0-662-MJ- Econometrics [4T]	-	-	ECO-681-RP- Research Project [6]	22
Total Credit - 1 Years / 2 Semester		26	8	-	-	10	44

Abbreviations – 1. ECO – Economics

2. MJ – Major Subject

3. MJP - Major Practical Subject

4. RP - Research Project

Examination Pattern:

A] Total 4 Credits – Theory Subject

Total Marks: 100

Scheme of Examination:

- a. Internal Assessment 30 Marks (Minimum Marks 12 for passing)
- b. Semester End Exam 70 Marks (Minimum Marks 28 for passing)

Pattern for Semester End Assessment in both the semesters:

Time (3 Hours), 4 Credit Course, Marks (70)

Q.1 Answer any one out of two. (15 Marks)

Q.2 Answer any one out of two. (15 Marks)

Q.3 Answer any one out of two. (15 Marks)

Q.4 Answer any one out of two. (15 Marks)

Q.5 Write Short Note (Any two out of four) (10 Marks)

B] Total 2 Credits – Theory Subject

Total Marks: 50 Marks

Scheme of Examination:

- a. Internal Assessment 15 Marks (Minimum Marks 6 for passing)
- b. Semester End Exam 35 Marks (Minimum Marks 14 for passing)

Pattern for Semester End Assessment in both the semesters:

Time (2 Hours), 2 Credit Course, Marks (35)

Q.1 Answer any one out of two. (15 Marks)

Q.2 Answer any one out of two. (15 Marks)

Q.3 Write Short Note (Any one out of two) (5 Marks)

C] Total 2 Credits - Practical Subject

Total Marks: 50 Marks

Scheme of Examination:

- a. Internal Assessment - 15 Marks
- b. Practical Assessment - 35 Marks

Suggested assessment tools for PG courses:

The concerned teacher shall announce the units for which internal assessment will take place. Teachers should choose any three tools out of given below for Internal Assessment among that written test of 10 marks is mandatory.

- i. Lecture/Library notes
- ii. Seminar presentation
- iii. Short Quizzes / MCQ Test
- iv. Home Assignments
- v. Tutorials
- vi. Oral test
- vii. Group Discussion
- viii. Study Tour
- ix. Written Test
- x. Open Book Test
- xi. Field Visit
- xii. Industrial Visit
- xiii. Book / Article Review

Teaching Methodology:

1. Classroom Teaching
2. Guest Hours
3. Discussions
4. Surveys
5. Power Point Presentation
6. Visit to Institutions
7. Research Papers & Projects
8. E-content & ICT tools

New Syllabus as per NEP 2020

MA – II ECONOMICS
SEMESTER - III

Savitribai Phule Pune University
(Formerly University of Pune)

MA - ECONOMICS

SEMESTER - III

- Subject List -

Sr. No.	Subject Type	Subject Code & Title	Credits		
			Theory	Practical	Total
1	Mandatory	EC0-601-MJ- Macro Economic Analysis I	4	-	4
2	Mandatory	EC0-602-MJ- Economic Growth & Development I	4	-	4
3	Mandatory	EC0-603-MJ- Indian Financial System I	4	-	4
4	Mandatory	EC0-604-MJP- Indian Financial System II	-	2	2
5	Elective	EC0-611-MJ- Demography	4	-	4
	Elective	EC0-612-MJ- Mathematical Economics			
	Elective	EC0-613-MJ- Rural Development			
6	Research Project	ECO-631-RP- Research Project	-	4	4
Total			16	06	22

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Macro Economic Analysis - I

Course Code: ECO 601 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

Macroeconomic or aggregative economic analysis establishes the functional relationship between various aggregates of the economy. Aggregative analysis assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered essential for proper comprehension of different issues and policies. Macroeconomics now is not only a scientific method of analysis but also a body of empirical economic knowledge. The course equips the students at the postgraduate level to understand systematic facts and theoretical developments for empirical analysis,

Course Objectives:

- To provide a thorough understanding of the principles of macroeconomics and the application of macroeconomic concepts in real-life situations.
- To discuss the modern developments in macroeconomics.

Program Outcome:

After Completing this Course, the students will be;

- Able to analyse and demonstrate knowledge of the basic theories/laws in macroeconomics.
- Able to evaluate macroeconomic concepts, models and its use in policy making and real life situations.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Approaches to Macro Economics	14
	1.1 - Meaning, Nature, Scope, Importance & limitations of Macro Economics	
	1.2 - Classical Approach-Introduction and main features	

	1.3 - Keynesian Approach-Introduction and main features	
	1.4 – Neo-classical Approach-Introduction and main features	
2	2. National Income and Social Accounting	16
	2.1 - Meaning & Concepts of National Income – GDP, GNP, NDP, NNP, Nominal & Real National Income.	
	2.2. - Circular Flow of Income in two, three and four sector economy, Withdrawals & Injections	
	2.3 - Different forms of national income accounting- 1. Social Accounting - Concept & Importance 2. Flow of funds Accounting 3. Balance of payments Accounting	
	2.4 - Matrix presentation of Social Accounting	
3	3. Money	14
	3.1 - Meaning, Evolution and Functions of Money	
	3.2 - Money and Near Money	
	3.3 - Quantity Theory of Money, Cash Balance Approach	
	3.4 - The Liquidity Theory of Money	
4	4. Demand and Supply of Money	16
	4.1 - Demand for Money- Classical and Keynesian Approaches	
	4.2 - Post Keynesian Theories of Demand for Money, Tobin's Approach, Baumol's Inventory Theoretic Approach, Friedman's Theory of Demand for Money.	
	4.3 - A Behavior Model of Money Supply Determination.	
	4.4. RBI approach to Money Supply-High Powered Money and Money Multiplier; Money Supply and Open Economy.	
	4.5. Control of Money Supply.	

Basic Reading List:

1. August Swan Enberg (2005) 'Macroeconomics Demystified' A Self Teaching Guide, Mcgraw Hill Education
2. Ackley,G.(1978), Macro Economics : Theory and Policy, Macmillan, New York.
3. Agrawal Vanita, Macroeconomics: Theory and Policy, Pearson Publication, New Delhi.
4. Ahuja H.L., Macroeconomics: Theory and Practice, S. Chand & Co. New Delhi.

5. Blackhouse, R. and A. Salansi (Eds.) (2000) *Macroeconomics and the Real World* (2 Vols.), Oxford University Press, London. Dornbusch,
6. Campbell R. McConnell, Stanley L. Brue, (2001) *Macroeconomics: Principles, Problems and Policies*, McGraw Hill, Inc, New York.
7. Froyen Richard T (2006) 'Macroeconomics– Theories and Policies' Pearson Education; 8th edition
8. Gupta S.B. (1997) 'Monetary planning for India' OUP
9. Jha, R. (1991), *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd., New Delhi.
10. Mankiw Gregory (2007) 'Macroeconomics' Worth, New York
11. Rao, V.K.R.V. (1983) *India's National Income : 1950 to 1980*, Saxe Publications, New Delhi
12. Gupta, S.B. (1995), *Monetary Planning in India*, OUP, New Delhi.
13. Sampat Mukherjee (2013), 'A Global Text-Macroeconomics', New Central Book Agency
14. Soumyen Sikdar (2006) 'Principles of Macroeconomics' Oxford University Press

Press Recommended Readings:

1. Branson, W.A. (1989), *Macroeconomic Theory and Policy*, (3rd Edition), Harper and Row, New York.
2. Culbertson, J.M. (1968), *Macroeconomic Theory and Stabilization Policy*, McGraw Hill, Kogekosh, Tokyo.
3. Dusenbery, J.S. (1949), *Income Saving and the Theory of Consumer Behavior*, Harvard University Press, Harvard.
4. Edey, M. and A.T. Peacock (1967), *National Income and Social Accounts*, Hutchinson University Library, London
5. Dornbusch, Fischer, Startz (1988) 'Macroeconomics', TMH (2012)
6. Friedman, M. (1957), *The Theory of Consumption Function*, Princeton University Press Princeton.
7. Friedman, M. (1956), *Studies in the Quantity Theory of Money*, The University of Chicago Press, Chicago
8. Glahe, Fred, R. (1973), *Macroeconomics: Theory and Policy*, Harcourt Brace Jovanovich, Inc, New York.
9. Harris Lawrence (1980) 'Monetary Theory' McGraw Hill Inc.
10. Keynes, J.M. (1936), 'The General Theory of Employment Interest and Money', 7 Macmillan, London.
11. Ruggles, R. and N. Ruggles (1956), *National Income Accounts and Income Analysis*, McGraw Hill New York.
12. Shapiro, E. (1996) *Macroeconomic Analysis*, Galgotia Publications, New Delhi.

13. D. Wrightsman 'An Introduction to Monetary Theory and Policy' The Free Press New York 1983
14. Bhise V.B, Khandare V.B & Babar, (2014) Macro Economics, Chinmay Publication Aurangabad.
15. Kute S & Rithe M, Macro Economics, Prashant Publication Jalgaon, MS, India.

Recommended Journals:

1. Applied Economics- Taylor & Francis Online
2. Journal of Macroeconomics-Elsevier
3. Macroeconomics and Finance in Emerging Market Economies- Taylor & Francis Online
4. The Indian Economic Journal- Sage Journal

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Economic Growth and Development - I

Course Code: ECO 602 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

The course makes an attempt to provide an introduction to the economics of Growth and Development and at the same time provide an understanding of the analytical rigor of the subject. Growth and Development-I is a core course that covers meaning and concept of Economic Growth and Development, measuring the economic growth and development, theories of economic growth and development, poverty, inequality and unemployment and role human capital in economic development. Growth and development-I will try to clear the concepts regarding the economic growth and development and provides basic knowledge to the students to get engaged in the activities.

Course Objectives:

1. To enable learning and understanding of the basic concepts and process to measure the growth and economic development etc.
2. To analyze and evaluate the obstacles in the process of economic growth and development

Course Outcome:

After Completion of the Course, the Students will be;

1. Able to apply the concepts of economic growth and compare international comparison of economic development, etc.
2. Able to analyze and demonstrate knowledge of the economic growth and development theories of economic growth and development

Unit No.	Unit Title and Contents	Hours
1	1. Concepts of Growth and Development	15
	1.1 - Concepts of Growth and Development	
	1.2 - Measuring Economic Development: Income and Alternative Measures	

	1.3 – International Comparison of Incomes: PPP and Exchange Rate Approaches	
	1.4 – Developing Economies – Concepts	
	1.5 – Barriers to Economic Development	
2	2. Theories of Economic Development and Growth	15
	2.1 - Classical Theory of Economic Development: Adam Smith	
	2.2. - The Harrod-Domar Model	
	2.3 - Solow model of economic growth	
	2.4 - The Big push theory	
	2.5 - The New (Endogenous) Growth Theory	
3	3. Poverty, Inequality and Unemployment	15
	3.1 – Poverty – Meaning, Uni-dimensional & Multi-dimensional Poverty, Multi-Dimensional Poverty Index of NITY Ayog, Measures to Reduce Poverty.	
	3.2 - Measuring Inequality, Lorenz Curve, Gini Coefficient, Functional Distribution, trends in inequality.	
	3.3 – Unemployment; Meaning and Types, Disguised Unemployment, Trends in Unemployment and Measures to Reduce Unemployment	
4	4. Human Capital and Economic Development	15
	4.1 -Human Capital; Meaning and Concept, Role of Human Capital in Economic Development	
	4.2 - Human Capital Approach of Development	
	4.3 - Optimum Population, Costs and Benefits of Population Growth, Growing Population and Urbanization.	
	4.4 – Human Development – Quality of life, HDI, Investment in Health, Education and Training	

Basic Reading List:

1. Basu Kaushik (1998) Analytic Development Economics: The Less Developed Economy Revisited', OUP
2. Behrman, S. and T.N. Srinivasan (1995), Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.

3. Felix Raj, Sampat Mukherjee, Mallinath Mukherjee, Amitava Ghose, Ranjanendra N. Nag (2007) “Contemporary Development Economics from Adam Smith to Amartya Sen”, New Central Book Agency Private Limited
4. Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of Development, (3rd Edition), W.W. Norton, New York.
5. Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York
6. Meier Gerald M. and James E. Rauch, “Leading Issues in Economic Development” Oxford University Press, 2006
7. Ray Debraj (1998) “Development Economics”, Oxford University Press
8. Solow Robert M. (2000) “Growth Theory An Exposition” Oxford University Press
9. Thirlwall, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
10. Todaro, M.P. (1996), (6th Edition), Economic Development, Longman, London.

Recommended Readings:

1. Banerjee Abhijit V, Esther Duflo (2013) ‘Poor Economics: Rethinking Poverty & the Ways to End it’ Penguin
2. Barro Robert J. and Xavier Sala-i-Martin (2004) “Economic Growth ” Prentice Hall of India Brown, M. (1966), On the Theory and Measurement of Technical Change, Cambridge University Press, Cambridge, Mass.
3. Chenery, H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development Economics, Vols.1 & 2, Elsevier, Amsterdam
4. Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
5. Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of Development,(3rd Edition), W.W. Norton, New York.
6. Meier, G.M. (1995), Leading Issues in Economic Development, (6th Edition), Oxford University Press, New Delhi.
7. Nayyar Deepak (2019) ‘Resurgent Asia’ OUP
8. Todaro Michael (1981) “Economics for A Developing World”, Longman, London.
- 9 Wavre Anilkumar & Londhe M , Economics of Development and Planning , (2019) Educational Publishers , Jalgaon , MS, India.

Reports:

1. Human Development Report, 1995-2009, UNDP, OUP Latest Reports
2. RBI Bulletin (latest issues)
3. World Development Report, Latest Reports
4. World Development Indicators, World Bank, OUP, Latest Reports

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Indian Financial System-I

Course Code: ECO 603 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

The financial system is the strong economic backbone of the global economy. The interaction between financial institutions and major financial instruments provides an important perspective on finance and the financial system. Financial institutions play an important role in the development process of the economy. By examining how financial institutions came into being, their roles and functions, students will gain a richer and more intuitive understanding of modern financial markets and institutions. This is the basis of the curriculum. This course is ideal for anyone who wants to increase their knowledge and skills in finance.

Course Outcome:

After completion of this course the students will be able;

1. To understand fundamentals of modern financial system.
2. To understand financial system and its relationship with economic development
3. To Analyze international financial environment
4. To understand The Indian Financial market.
5. To evaluate Reforms in Indian Financial System
6. To understand the role of the Reserve Bank of India in Indian financial system.
7. To provide the knowledge of various financial and non-financial institutions.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Financial System in India	14
	1.1 –Financial System – Meaning, Role of Financial System in Economic Development,	

	1.2 – Structure of Indian Financial System, Financial Institutions, Financial Markets, Financial Instruments.	
	1.3 – Development of Indian Financial System, Financial Sector Reforms in India.	
2	2. Reserve Bank of India 2.1 – Objective and Functions of RBI. 2.2. – Autonomy of Reserve Bank of India; Advantages and Limitations. 2.3 – Role of RBI in Indian Economy – Note Issuing, Government Banker, Banker’s bank, supervisory authority, etc. 2.4 - Monetary policy of RBI – Recent Developments and Challenges.	14
3	3. Banking Institutions in India 3.1 – Evolution of Banking in India, Performance of Commercial Banks, RRBs and Co-operative Banks in India. 3.2 - Role of banks in economic development, Credit Creation and Profitability of banks, 3.3 – Policies for development of Banking in India – Nationalization of banks – meaning and objectives, Mergers 3.4 – Banking sector reforms – Profitability and NPAs of banks in India, Modern technology in banking sector of India.	16
4	4. Financial Markets in India 4.1 - Classification of Financial Market in India. 4.2 - Indian Money Market: Features, Significance Functions and Instruments, Defects of the Indian Money Market 4.3 - Capital Market: Constituents of Capital Market, Structure, Role and Financial Instruments of Capital Market 4.4 - Credit Rating Services: Meaning, Need, Benefits & Rating Agencies in India. (CRISIL, ICRA,CARE)	16

Basic Reading List:

1. Bhole, L. M., Jitendra Mahakud (2017) ‘Financial Institutions and Markets’ Tata McGraw Hill, ND
2. Das S. C. (2015) ‘The Indian Financial System: Markets, Instruments, Institutions, Services and Regulations’ PHI Learning

3. Pathak, Bharati (2009) 'The Indian Financial System, Pearson Education
4. Frederic Mishkin and Stanley Eakins (2006) 'Financial Markets and Institutions', Pearson 5th Ed
5. Gurusamy S. (2004) "Financial Markets and Institutions", Vijay Nicole Imprints
6. Machiraju H.R. (2006) 'Indian Financial System, Vikas Publications, ND
7. Khan M.Y. "Indian Financial System", New Delhi: Tata McGraw-Hill Pub. Co

Recommended Readings:

1. Bhasin, Niti (2014) "Indian Financial System: Evolution and Present Structure" New Century Publications.
2. Chandavarkar Anand (1996) "Central Banking in Developing Countries" St. Martin's Press, USA
3. D. Muralidharan (2009) 'Modern Banking Theory and Practice,' PHI Learning Pvt. Ltd. New Delhi
4. Harker, P.T., S. A. Zenios (2000) 'Performance of Financial Institutions', CUP, UK
5. Indian Institute of Banking and Finance (2018) 'Central Banking', Macmillan Publishers, India
6. Indian Institute of Banking and Finance (2017) 'Information Systems for Banks', Taxmann Publishers, India
7. Prasad, K.N.(2001) 'Development of India's Financial System,' Sarup and Sons, New Delhi
8. Saha Siddhartha (2017) 'Indian Financial Systems and Markets, McGraw Hill Education
9. Sharma, K.C. (2007) 'Modern Banking in India,' Deep and Deep Publications New Delhi
10. Vasudevan A. (2003) "Central Banking in Emerging Economies" Academic Foundation

Reports:

1. RBI Annual Reports, Monthly Reviews, Occasional Papers (www.rbi.org.in)
2. Reports on Currency and Finance
3. Economic and Political Weekly

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Indian Financial System-II

Course Code: ECO 604 MJP

No. of Credits: 2 Credits [Practical]

No. of Hours: 60 Hours

Total Marks: 50 Marks

Preamble

The financial system is the strong economic backbone of the global economy. The interaction between financial institutions and major financial instruments provides an important perspective on finance and the financial system. Financial institutions play an important role in the development process of the economy. By examining how financial institutions came into being, their roles and functions, students will gain a richer and more intuitive understanding of modern financial markets and institutions. This is the basis of the curriculum. This course is ideal for anyone who wants to increase their knowledge and skills in finance.

Course Outcome:

After completion of this course the students will be able;

1. To understand fundamentals of modern financial system.
2. To understand financial system and its relationship with economic development
3. Analyze international financial environment
4. To understand The Indian Financial market.
5. To evaluate Reforms in Indian Financial System
6. To understand the role of the Reserve Bank of India in Indian financial system.
7. To provide the knowledge of various financial and non-financial institutions.
8. To understand the Indian Share Markets.

PRACTICAL WORK

Unit No.	Practical Work Contents	Hours
1	1. Practical	30
	1.1 – Study of Financial Institutions in India	

	1.2 - Study of Stock Market in India	
	1.3 - Study of Multi Commodity Exchange (MCX).	
	1.4 - Analysis of SEBI – BSE & NSE	
	1.5 - Study of Bank Nifty Components	
	1.6 - Study of Nifty 50	

Note: Students should prepare the Practical Work Book.

Sr. No.	Practical Exam Pattern	Marks
1.	Internal Assessment - Teachers should choose any three tools out of given above for Internal Assessment	15
2.	Practical Assessment a] Practical work Book – 15 Marks b] Viva Voce / Presentation (Problem Solving / PPT / Poster) – 20 Marks	35
	Total	50

Basic Reading List:

1. Bhole, L. M., Jitendra Mahakud (2017) 'Financial Institutions and Markets' Tata McGraw Hill, ND
2. Das S. C. (2015) 'The Indian Financial System: Markets, Instruments, Institutions, Services and Regulations' PHI Learning
3. Pathak, Bharati (2009) 'The Indian Financial System, Pearson Education
4. Frederic Mishkin and Stanley Eakins (2006) 'Financial Markets and Institutions', Pearson 5th Ed
5. Gurusamy S. (2004) "Financial Markets and Institutions", Vijay Nicole Imprints
6. Machiraju H.R. (2006) 'Indian Financial System, Vikas Publications, ND
7. Khan M.Y. "Indian Financial System", New Delhi: Tata McGraw-Hill Pub. Co

Recommended Readings:

1. Bhasin, Niti (2014) "Indian Financial System: Evolution and Present Structure" New Century Publications.
2. Chandavarkar Anand (1996) "Central Banking in Developing Countries" St. Martin's Press, USA

3. D. Muralidharan (2009) 'Modern Banking Theory and Practice,' PHI Learning Pvt. Ltd. New Delhi
4. Harker, P.T. ,S. A. Zenios (2000) 'Performance of Financial Institutions', CUP, UK
5. Indian Institute of Banking and Finance (2018) 'Central Banking', Macmillan Publishers, India
6. Indian Institute of Banking and Finance (2017) 'Information Systems for Banks', Taxmann Publishers, India
7. Prasad, K.N.(2001) 'Development of India's Financial System,' Sarup and Sons, New Delhi
8. Saha Siddhartha (2017) 'Indian Financial Systems and Markets, McGraw Hill Education
9. Sharma, K.C. (2007) 'Modern Banking in India,' Deep and Deep Publications New Delhi
10. Vasudevan A. (2003) "Central Banking in Emerging Economies" Academic Foundation

Reports:

1. RBI Annual Reports, Monthly Reviews, Occasional Papers (www.rbi.org.in)
2. Reports on Currency and Finance
3. Economic and Political Weekly

Recommended Journals:

1. Prajnan [NIBM],
2. Journal of Banking and Finance- Elsevier
3. Journal of Money, Credit and Banking- Wiley Online
4. Journal of Banking and Financial Technology-Springer

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Elective

Course Name: Demography

Course Code: ECO 611 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The paper also enlightens the students on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques. In recent times, the gender aspect of the population has acquired importance and these have also been included in the framework of study. Fertility and Aging are also vital characteristics of the undergoing structural change. Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics and also to the rationale, need and evolution of population policy.

Course Objectives:

1. To provide an understanding of Demography and its application under various topics under economics.
2. To demonstrate the practical and the applied aspects of Demography and the study of Population and its relation to Economics.

Course Outcome:

After Learning this course, the students will be;

1. Able to develop, demonstrate and examine various topics under Demography.
2. Able to evaluate and examine subject areas in economics bringing out the relation to population studies and demography.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Demography	10
	1.1 – Demography: Meaning and Concept, Demography and Economics, Development of Population Studies.	
	1.2 – The Optimum Population Theory, The Malthusian theory of Population.	
	1.3 – Post-Malthusian Theories of Population, The Theory of Demographic Transition	
2	2. Growth of Population: World Scenario	16
	2.1 – Stages of Population Growth – Primitive, Pre-Industrial	
	2.2. - World Population Growth and Distribution, Growth of population in Developed and Developing Countries.	
	2.3 - Measures of Population Growth - International Comparison of Population.	
3	3. Population and Development	20
	3.1 – Technological Change and Population, Effects of Development on Population Growth and vice versa.	
	3.2 - Population and Natural Resources- Environment, Population, Savings and Economic Growth.	
	3.3 - Population and Labour force- Labour Force Participation & Work Force Participation.	
	3.4 - Population Policy, 2000 in India.	
4	4. Demography of India	14
	4.1 – Phases of Growth of Population in India, Size and Growth of Population in India.	
	4.2 –Birth rate –factors affecting Fertility, Causes and Measures to reduce birth rate in India,	
	4.3 – Mortality in India, Causes and Measures to reduce Mortality	
	4.4 – Age and Sex Structure- Determinants, Rural – Urban Distribution.	

Basic Reading List

1. Bogue, D.J. (1971), Principles of Demography, John Wiley, New York
2. Bhende, Asha A., Tara Kanitkar (2013) *Principles of Population Studies*, Himalaya Publishing House, Mumbai
3. Mujumdar P. K (2013) “Indian’s Demography: Changing Demographic Scenario in India”, Rawat Publications
4. Sinha V.C., Easo Zacharia (1986) ‘Principles of Demography’ Allied Publishers, 2nd Edition
5. Srinivasan Krishnamurthy (2017) “Population Concerns in India: Shifting Trends, Policies and Programs” Sage Publications
6. Srinivasan, K. and A. Shariff (1998), India: Towards Population and Demographic Goals, Oxford University Press, New Delhi

Reports

1. Census of India, Census Commissioner and Registrar General of India, Government of India, New Delhi, Latest Census
2. Family Welfare Programme in India, Year Book 2012, Government of India
3. National Family Health Survey, Government of India & IIPS, Mumbai, Recent Reports
4. National Population Policy 2000, Government of India
5. United Nations (1973) “Determinants and Consequences of Population Trends”

Recommended Books

1. Agarwala S.N. (1972), “India’s Population Problem”, Tata McGraw-Hill Co
2. Bose, A. (1996), “India’s Basic Demographic Statistics”, B.R. Publishing, New Delhi
3. Chakraborti Rajagopal D (2004) “The Greying of India: Population Ageing in the Context of Asia” Sage Publications
4. Chenery H., T.N. Srinivasan (Eds.) (1989), “HandBook of Development” Economics, Vol.1 & 2 Elsevier, Amsterdam
5. Choubey, P.K. (2000), “Population Policy in India”, Kanishka Publications, New Delhi
6. Dasgupta Sukti, Sher Singh Verick (2016) “Transformation of Women at Work in Asia: An Unfinished Development Agenda” Sage Publications
7. Easterlin Richard A (1987) “Population and Economic change in Developing Countries”, National Bureau of Economic Research, University of Chicago Press
8. G Giridar (Ed) (2014) “Population Aging In India” Cambridge University Press

9. Gulati, S.C. (1988), “Fertility in India: An Econometric Study of a Metropolis”, Sage, New Delhi. Economics
10. Seth Mira (2001) “Women and Development: The Indian Experience”, Sage 20
11. Simon,J.L.(1992), “ Population and Development in Poor Countries”, Princeton University Press.
12. Srinivasan, K. (1998), “Basic Demographic Techniques and Applications”, Sage, New Delhi
13. Kute S & Rithe M , Demography , (2017) ,Prashant Publication , Jalgaon MS, India .

Recommended Journals:

1. Antyajaa – Indian Journal of Women and Social Change - Sage
2. Demography – Springer
3. Economic and Political Weekly
4. Journal of Population Research - Springer
5. Journal of Demographic Economics - Cambridge
6. Management and Labour Studies- Sage
7. Population and Development Review – Wiley Online
8. Population Studies – Taylor and Francis Online

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Elective

Course Name: Mathematical Economics

Course Code: ECO 612 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

The role of Mathematics is equally important in Economics. The use of Mathematics can provide a better understanding of various areas under Economics with mathematical applications to economic theories and with the help of modelling techniques. Mathematical applications help understand, discuss and appreciate micro and macroeconomics concepts and theories better. Besides, applied economics make use of mathematical applications to provide more elaborate and enhanced understanding of challenges in the real world.

Course Objectives:

1. To provide an understanding of Mathematics and its application under various topics under economics.
2. To demonstrate the practical and the applied aspects of economics with the help of Mathematics.

Course Outcome:

After Learning this course, the students will be;

1. Able to develop, demonstrate and examine various topics under economics with the help of Mathematics.
2. Able to evaluate and examine subject areas in economics with the mathematical economics.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Nature of Mathematical Economics	15
	1.1 – Introduction & Meaning, Mathematical Economics versus Nonmathematical Economics.	
	1.2 - The concept of Sets, Real Number System, Ingredients of Mathematical Models – variables, constants, parameters, Equations and Identities.	
	1.3 - Power of Number; Logarithms and their Properties, Introduction to Algebra, Linear and Quadratic Equations.	
	1.4 – Types of Functions – Constant, Polynomial, Rational, Non algebraic, Logarithmic Functions, Extensions of function - More than two independent variables	
2	2. Equilibrium Analysis in Economics	10
	2.1 – Equilibrium: Meaning	
	2.2. – Partial Equilibrium – Linear Model, Non-linear Model and General Model.	
	2.3 - Market Demand, Supply Curves, Total Revenue, Cost Functions	
	2.4 – Indifference Curves, General Production Function, Isoquants	
	2.5 – Production Possibility Frontiers and its use in Economics	
3	3. Matrix Algebra	10
	3.1 – Meaning, Matrices and Vectors, Elementary operations of Addition and subtractions of matrices, Scalar Multiplication etc.	
	3.2 - Transpose and Inverse of Matrices, Rank of a Matrix, Finding Inverse Matrix.	
	3.3 – National Income Model, Solution of Simultaneous Equation using Matrices.	
4	4. Differential Calculus	15
	4.1 – Meaning, Concept of Derivative, Concept of Limit – Limit Theorems, Continuity at a point, Over and Interval.	

	4.2 - Rules of Differentiation Including Product, Quotient, and Chain Rule, Partial Differentiation.	
	4.3 –Differentials and Derivatives, Total Derivatives, Derivatives of Implicit Functions.	
	4.4 - Profit Maximization in the different types of Markets	
	4.5 - Price Discrimination by Monopolist to Maximize Profits	
5	5. Integration	10
	5.1 - Indefinite integral of Algebraic, Exponential and Logarithmic Functions	
	5.2 - Define Integrals	
	5.3 - The relation between Average and Marginal concepts	
	5.4 - Capital values under Continuous Interest	

Basic Reading List:

1. Chaing A. C (2017) 'Fundamental Methods of Mathematical Economics' McGraw Hill Education
2. Edward Dowling (2011) 'Schaum's Outline of Introduction to Mathematical Economics' 3rd Edition (Schaum's Outlines), McGraw Hill Education
3. Simon Carl P. and Blume Lawrence (1994) 'Mathematics for Economists' W. W. Norton & Co.

Recommended Books:

1. Hoy (2012) Mathematics for Economics, Prentice Hall India
2. Pemberton Malcolm, Nicholas Ray (2016) 'Mathematics for Economists' Manchester University Press
3. Rosser M. J. (1993) 'Basic Mathematics for Economists' Routledge
4. Sydsaeder Knut, Hammond p., Strom A. (2013) 'Essential Mathematics for Economics' Pearson Education
5. Yamane Taro (1981) 'Mathematics for Economists: An Elementary Survey' Prentice Hall India Learning Private Ltd.

Recommended Journals:

1. Indian Journal of Pure and Applied Mathematics-Springer
2. Journal of Mathematical Economics- Elsevier

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Elective

Course Name: Rural Development

Course Code: ECO 613 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

Rural Economics is a specialized area in economics studying rural economies, both farm as well as non-farm. Rural Economics provides an understanding of the various aspects of rural economies on production, growth, development and livelihood with a relevant theoretical background. The subject discusses rural economic structure, rural infrastructure as well as rural employment. Various topics are discussed and analyzed that concern sustainable development of rural economies.

Course Objectives:

1. To develop an understanding of rural economics in the theoretical as well as practical context.
2. To discuss and debate the various issues and challenges faced by rural economies with reference to the farm and non-farm sector, the growth and development of rural economies, etc.

Course Outcome:

After Learning this Course, the Students will Develop -

1. Ability to analyze and evaluate the subject with reference to various aspects of rural economies.
2. Ability to develop an understanding of the rural sector with its intricacies and imperfections and to be able to construct intellectual dialogue on the challenges of agriculture w.r.t. the Indian Economy.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Rural Economy: An Introduction	10
	1.1 - Definition of a Rural Economy, Characteristics of Rural Economy.	
	1.2 – Difference between Rural & Urban Economy.	
	1.3 – Basic Elements of Rural Development, Some Dilemmas in Development.	
2	2. Theories of Rural Development	15
	2.1 – Rural Development – Classical Approach	
	2.2. – Modernization theory, Dependency Theory of Rural Development.	
	2.3 – Lewis Model of Rural Development, Human Capital Model, Gandhian Model of Rural Development	
3	3. Rural Development – Determinants and Challenges	20
	3.1 – Determinants of Rural Development – Resources – Natural & Physical, Changes in Output, Technology, Infrastructure, Organizations and Institutions.	
	3.2 – Role of Agriculture, Rural Industries, Panchayati Raj Institutions in Rural Development.	
	3.3 – Challenges before Rural Development – Agriculture Distress, Finance, Irrigation, Poverty, Unemployment & Migration	
	3.4 - Education & Health in Rural Areas, Status of Infrastructure.	
4	4. Rural Development Policies in India	15
	4.1 – Rural Development Policies – National Forest Policy, Land Reforms, Agriculture Price Policy, Rural Credit Policy, National Agriculture Policy, Policy for Cooperatives.	
	4.2 – Poverty and Unemployment Alleviation Programmes – Public Distribution System, IRDP, MGNAREGA, PM - Awas Yojana.	

	4.3 Social Welfare Oriented Programmes. Self-Help Groups Promotion.	
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Basic Reading List:

1. Datt Gaurav and Ashwini Mahajan: Datt and Sundharam's Indian Economy, S. Chand and Company Private Limited, New Delhi. (Available in Hindi also)
2. Green, Gary Paul (2013): Handbook of Rural Development, Edward Elgar Publishing Limited.
3. Guinjoan Eloi, Anna Badia, Antoni Tolla (2016): The New Paradigm of Rural Development: Theoretical Considerations and Reconceptualization Using the "Rural Web" Boletín de la Asociación de Geógrafos Españoles N0 17-2016; pages 495-500. ISSN 0212-9426.
4. Puri and Mishra: Indian Economy, Himalay Publishing House. (Available in Hindi also)
5. Ray, Christopher (2001): Culture Economies: A Perspective on Local Rural Development in Europe, Center for Rural Economy, New Castle University, UK.
6. Van der Ploeg, J.D. and Terry Marsden (2008): Unfolding Webs: The Dynamics of Regional Rural Development, Royal Van Gorcum, Assen, The Netherlands.

Recommended Books:

1. Katar Singh & Anil Shishodia (2023), Rural Development: Principles, Policies and Development, Atlantic Publishers and Distributors (P) Ltd.
2. K. R. Gupta (2004), Rural Development in India, Atlantic Publishers and Distributors (P) Ltd
3. M. Ghosh (2013), Rural Development in India: Challenges and Prospects, Serials Publication
4. B K Prasad (2003), Rural Development: Concept Approach and Strategy, Sarup & Sons Publishers.

Recommended Journals:

1. Artha Vijnana, Gokhale Institute of Politics and Economics.
2. Arthamimansa, Vidarbha Arthashastra Parishad, Maharashtra.
3. Arthasamwad, Marathi Arthashastra Parishad, Maharashtra.
4. Indian Economic Review, Department of Economics, Delhi School of Economics.
5. Labour and Development, V.V. Giri National Labour Institute.
6. The Indian Journal of Economics, Department of Economics, University of Allahabad.

Syllabus

Class: M.A. - II Economics

Semester: III

Course Type: Credits Related to Major – Research Project

Course Name: Research Project

Course Code: ECO 631 RP

No. of Credits: 4 Credits [Project]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble:

Students who complete their post-graduation in Economics are mentally equipped to pursue research in the same discipline. It is generally accepted that research is nothing but extension and application of knowledge in a certain specialized field. Therefore students who do their post-graduation, as internal students will be given an opportunity to get exposed to a few elements of social research and also they are expected to complete a small research project under the expert guidance and supervision, Elementary knowledge of research methodology shall consolidate and deepen their understanding of various branches of Economics.

Preparing a Research Project Proposal is intended to train them in scientific thinking and art of systematic presentation. It is essentially a job-oriented exercise to enable them to take up the exciting field of social and economic research.

Course Objectives:

1. To enable an understanding of Research and its methods under various areas of economics.
2. To demonstrate the practical and the applied aspects of research in relation to Economics.

Course Outcome:

1. Ability to develop, demonstrate and examine topics under Economics to pursue research.
2. Ability to evaluate and examine subject areas in economics and explore possibilities of research.

Part I: III Semester students shall submit a Research Project Proposal minimum 2500 words & maximum 3,000 words or 10-15 pages in three copies to the Head of the Department on or before 15th September. The Research Project Proposal shall be prepared under the guidance of an internal postgraduate recognized teacher.

Part II: An internal supervisor shall assess each Research Project Proposal for out of 30 marks, based on the outline and quality of the Research Project Proposal.

Viva voce: Research Project Proposal - 30 Marks, A viva voce examination of each candidate shall be held where he/she will have to make a presentation of the Research Project Proposal. A panel of two referees shall be formed out of whom one shall be an internal examiner. The viva voce shall carry 40 marks. Internal & external examiners shall give out of 20 marks each. The copies of Research Project Proposal and the record of the viva voce examination shall be maintained by the center for two more academic years for inspection.

Tentative Format for Research Project Proposal / Outline

1. Introduction
2. Review of Relevant Literature
3. Importance of Study
4. Statement of Problem
5. Hypothesis
6. Objectives of Study
7. Research Methodology
 - A. Research Method
 - B. Tools of Data Collection
 - i) Primary Data
 - ii) Secondary Data
 - C. Selection of Sample
 - D. Techniques of Analysis of Data
10. Scope & Limitations of the study
11. Scheme of Chapter (Tentative)
 1. Introduction
 2. Research Methodology
 3. Review of Literature
 4. Profile of Study Area
 5. Data Analysis
 6. Finding & Suggestion
 7. Bibliography
 8. Appendix

Evaluation Method

Sr. No.	Research Project Proposal	Marks
1	Internal Assessment – Research Project Proposal - Research problem, Relevant Literature, Methodology, contents and quality of the Research Project Proposal	30
2	Project Assessment a] Research Project Proposal - 30 Marks b] Viva Voce / Presentation – 40 Marks [Internal Examiner 20 + External Examiner 20]	70
Total		100

References:

- 1) Wilkinson and Bhandarkar - Methodology and Techniques of Social research - Pauline, Young - Scientific Social Surveys and Research
- 2) Goode and Hatt - Methods in Social Surveys and Research
- 3) Krishnaswamy K.N. and Appalyer Sivakumar (2009): Management Research Methodology, Pearson Education Publication,. N. Delhi
- 4) Sharma Prasad and Satyanarayana (ed) Research Methods in Social Sciences
- 5) Moser and Kalton - Survey Methods in Social Investigations
- 6) Sadhu and Singh - Research Methodology in Social Sciences
- 7) Kurein C. T. A guide to research in Economics.
- 8) Devendra Thakur - Research Methodology in Social Sciences
- 9) Basotia G.R. Sharma K.K.- Research Methodology
- 10) Kothori C.R. Research methodology New era Publication

New Syllabus as per NEP 2020

MA - II ECONOMICS
SEMESTER - IV

Savitribai Phule Pune University

(Formerly University of Pune)

MA II - ECONOMICS SEMESTER - IV

- Subject List -

Sr. No.	Subject Type	Subject Code & Title	Credits		
			Theory	Practical	Total
1	Mandatory/Core	EC0-651-MJ- Macro Economic Analysis - II	4	-	4
2	Mandatory/Core	EC0-652-MJ- Economic Growth & Development - II	4	-	4
3	Mandatory/Core	EC0-653-MJ- Economics of Environment - I	2	-	2
4	Mandatory/Core	EC0-654-MJP - Economics of Environment - II	-	2	2
5	Elective	EC0-660-MJ- Public Policy	4	-	4
	Elective	EC0-661-MJ- Urban Economics			
	Elective	EC0-662-MJ- Econometrics			
6	Research Project	ECO-681-RP- Research Project	-	6	6
Total			14	08	22

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Macro Economic Analysis - II

Course Code: ECO 651 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

Macroeconomics or aggregative economics analysis establishes the functional relationship between various aggregates of the economy. Aggregative analysis assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered essential for proper comprehension of different issues and policies. Macroeconomics now is not only a scientific method of analysis but also a body of empirical economic knowledge. The course equips the students at the postgraduate level to understand systematic facts and theoretical developments for empirical analysis,

Course Objectives:

- To provide a thorough understanding of the principles of macroeconomics and the application of macroeconomic concepts in real-life situations.
- To discuss the modern developments in macroeconomics.

Course Outcome:

Students will Develop -

- Ability to analyze and demonstrate knowledge of the basic theories/laws in macroeconomics.
- At the end of the course, the student should be able to evaluate macroeconomic concepts, models and its use in real life situations.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Consumption and Investment	14
	1.1 - Meaning and Concepts of Consumption Function (APC, MPC)	
	1.2 - Psychological Law of Consumption	
	1.3 - Factors Influencing Consumption Function	

	1.4 - Investment – Meaning, Gross and Net Investment, Autonomous and Induced Investment	
	1.5 - Marginal Efficiency of Capital	
	1.6 - Investment Multiplier, Acceleration Principle	
2	2. IS-LM Curve Model	16
	2.1 - Introduction – The Structure of Model	
	2.2. - Derivation of IS Curve and LM Curve – Shifts in IS Curve and LM Curve, Causes of shifts in IS and LM Curve	
	2.3 - Simultaneous Equilibrium in Goods Market and Money Market – Extension IS-LM model with government sector Fiscal Policies	
3	3. Inflation And Deflation	16
	3.1 - Inflation Meaning and Types, Demand Pull and Cost Push Inflation	
	3.2 - Inflation and Unemployment – Philips Curve , Relation between short -run Philips Curve and long-run Philips Curve	
	3.3 - Deflation Meaning , Causes and Effects	
	3.4 - Stagflation and Supply – Side Economics – Stagflation in India 1991, Causes of Stagflation	
	3.5 - Supply -Side Economics – Taxation and Labor Supply, Incentive to Save and Investment, the Tax wedge – tax revenue and Laffer Curve , a critical appraisal of supply of supply side Economics	
4	4. Classical Macro Economics and Open Economy Issues	14
	4.1 - Introduction – Meaning of Rational Expectations – Barrow's view	
	4.2 - The Neo-Classical Model	
	4.3 - The Role of the Monetary and Fiscal Policy	
	4.4 - Rational Expectations and The Real Business Cycles	
	4.5 - Open Economy – Balance of Trade – Balance of Payments – Mundel – Fleming Model, Exchange Rate Regimes.	

Basic Reading List:

1. August Swan Enberg (2005) 'Macroeconomics Demystified' A Self Teaching Guide, Mcgraw Hill Education
2. Ackley,G.(1978), Macro Economics : Theory and Policy, Macmillan, New York.
3. Agrawal Vanita, Macroeconomics: Theory and Policy, Pearson Publication, New Delhi.
4. Ahuja H.L., Macroeconomics: Theory and Practice, S. Chand & Co. New Delhi.
5. Blackhouse, R. and A. Salansi (Eds.) (2000) Macroeconomics and the Real World (2 Vols.), Oxford University Press, London. Dornbusch,
6. Campbell R. McConnell, Stanley L. Brue, (2001) Macroeconomics: Principles, Problems and Policies', McGraw Hill, Inc, New York.
7. Froyen Richard T (2006) 'Macroeconomics– Theories and Policies' Pearson Education; 8th edition
8. Gupta S.B. (1997) 'Monetary planning for India' OUP
9. Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
10. Mankiw Gregory (2007) 'Macroeconomics' Worth, New York
11. Rao, V.K.R.V. (1983) India's National Income : 1950 to 1980, Sage Publications, New Delhi
12. Gupta, S.B. (1995), Monetary Planning in India, OUP, New Delhi.
13. Sampat Mukherjee (2013), 'A Global Text-Macroeconomics', New Central Book Agency
14. Soumyen Sikdar (2006) 'Principles of Macroeconomics' Oxford University Press

Press Recommended Readings:

1. Branson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
2. Culbertson, J.M. (1968), Macroeconomic Theory and Stabilization Policy, McGraw Hill, Kogekosh, Tokyo.
3. Dusenbery, J.S. (1949), Income Saving and the Theory of Consumer Behaviour. Harvard University Press, Harvard.
4. Edey, M. and A.T. Peacock (1967), National Income and Social Accounts, Hutchinson University Library, London
5. Fisher, Dornbusch, Schamalensee (1988) 'Economics' McGraw Hill International Edition ; 2nd edition
6. Friedman, M. (1957), The Theory of Consumption Function, Princeton University Press Princeton.
7. Friedman, M. (1956), Studies in the Quantity Theory of Money, The University of Chicago Press, Chicago

8. Glahe, Fred, R.(1973), Macroeconomics: Theory and Policy, Harcourt Brace Jovanovich, Inc, New York.
9. Harris Lawrence (1980) 'Monetary Theory' McGraw Hill Inc.
10. Keynes, J.M. (1936), 'The General Theory of Employment Interest and Money', 7 Macmillan, London.
11. Ruggles, R. and N. Ruggles (1956), National Income Accounts and Income Analysis, McGraw Hill New York.
12. Shapiro, E.(1996) Macroeconomic Analysis, Galgotia Publications, New Delhi.
13. D. Wrightsman 'An Introduction to Monetary Theory and Policy' The Free Press New York 1983
14. Bhise V.B , Khandare V.B & Babar , (2014) Macro Economics ,Chinmay Publication Aurangabad.
15. Kute S & Rithe M, Macro Economics, Prashant Publication Jalgaon, MS, India.

Recommended Journals:

1. Applied Economics- Taylor & Francis Online
2. Journal of Macroeconomics-Elsevier
3. Macroeconomics and Finance in Emerging Market Economies- Taylor & Francis Online
4. The Indian Economic Journal- Sage Journal

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Economic Growth and Development - II

Course Code: ECO 652 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble:

This paper includes growth and development, social and sartorial aspects of development, importance of agriculture and industry, the rationale and pattern of industrialization in developing countries. The other important issues related to development

Such as policy environment, infrastructure –linkages, role of international trade, role of monetary and fiscal policies, investment criteria and relevance for planning have been included. This paper deals with the theoretical aspects of the process of growth and development including the role of agriculture and industry as well as the role of the state

Course Outcomes:

- 1) The sectoral aspects of growth and development and policies will help the students to understand the social and political aspects of economic development
- 2) The students will be able to undertake cross country analysis for the policies formulated by the international financial institutions.
- 3) New Institutional Economics will help in understanding the role of institutions in economic development and help in analysing the public policy formation.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Sectoral Interdependence	15
	1.1 Role of Agriculture in Development, Barriers to Agriculture Development.	
	1.2 Reforms in Agriculture Sector – Land Reforms, Size of land holding, Technology in Agriculture sector.	

	1.3 Role of Industrial & Service Sectors in Development, Growth in Sectoral Output, Interdependence of Agriculture, Industry and Service Sectors.	
	1.4 Financing for Development – Keynesian Approach, Quantity Theory Approach, Financial System and Economic Development	
2	2. Technology and Development	15
	2.1 Role of Technology in Development, Technical Progress - Capital and Labour-Saving technical progress, neutral technical progress.	
	2.2 Techniques of Production – Labour Intensive and Capital Intensive, Employment versus Output, Technology and Developing Countries.	
	2.3 Investment in Human Capital – Education, Research and Development, Invention and Innovation.	
3	Development and Environment	15
	3.1 Economics and Environment, Concept of Sustainable Development and Environment Accounting	
	3.2 Environment Relationships to Population, Poverty, and Economic Growth	
	3.3 Environmental values, Measuring Environmental Values, Harvesting of Renewable and Non-renewable Resources	
	3.4 Global Warming and Climate Change – Impact upon Economic Development	
4	4. Development Strategies	15
	4.1 Planning Commission, Five Year Planning Model, NITY Ayog	
	4.2 New Economic Reforms, 1991 – Economic Stabilization & Structural Adjustment Programme, New Industrial Policy.	
	4.3 Agriculture Price Policy and New Agriculture Policy, Poverty and Unemployment Alleviation Programmes	
	4.4 Social Welfare-Oriented Programmes	

References –

1. James M. Cypher, James L. Dietz, The Process of Economic Development, Theory, Institutions, Applications and Evidence, Routledge

2. Chakravarti, S. (1982), Alternative approaches to the Theory of Economic Growth, Oxford University Press, New Delhi.
3. Ray Debraj, Development Economics, Oxford India.
4. Chenery, H. and t. N. Srinivasan (Eds.) (1989), Handbook of Development Economics, vols. 1 & 2, Elsevier, Amsterdam.
5. Analytical Development Economics: The Less Developed Economy Revisited, Kaushik Basu, Oxford India
6. Meier G.M, Rauch J.E., Leading Issues in Economic Development, 8th Edition, Oxford University Press
7. Behrman, S. and T. N. Srinivasan (1995), Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.

Websites:

1. <https://www.worldbank.org/>
2. <https://www.imf.org/en/Data>
3. <https://academic.oup.com/cje>
4. <https://www.adb.org/>

Recommended Journals -

1. Economic Development and Cultural Change- Chicago Press.
2. IMF Economic Review- Palgrave Macmillan
3. Review of World Economics-Springer

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Economics of Environment

Course Code: ECO 653 MJ

No. of Credits: 2 Credits [Theory]

No. of Hours: 30 Hours

Total Marks: 50 Marks

Preamble:

This practical is designed to understand economics of changes in environment. Presently the changes in environment are causing economic development all over the world. Therefore, it is necessary to understand the side effects of global warming on human being and economic development process. The students will study, understand the changes in climate and bring it to the field stakeholders especially the farmers.

Course Objectives:

1. To create environmental awareness among the students.
2. To understand the economic consequences of global warming.
3. To provide the information to public especially the farmers.

Course Outcome:

This practical will strengthen the environmental values among the students. The practical will aware the students on economics of environment. Moreover, the students will disseminate the importance of environment and the side effects of environment degradation to the public.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Environmental Economics	15
	1.1 - Meaning of environmental economics	
	1.2 - Role of environment in economic development	

	1.3 - Climate change and performance of economic sectors	
	1.4 - Economic development and environment cost	
	1.5 - Weather forecasting; role in economic activities.	
2	2. Environmental Challenges	15
	2.1 - Environment and Agricultural Development – Technological Change –Use of Water, Fertilizers, Pesticides – Groundwater and Forest Depletion	
	2.2 - Environment and Industrial Development – Pollution, Urbanization	
	2.3 - Global Environmental Issues – Depletion of Ozone Layer, Green House Effect, Global Warming, Climate Change, Loss of Bio-diversity	
	2.4 - Global warming and its effects on Indian economy	
	2.5 - Prevention of environment degradation, international agreements on environment protection.	

Reading List:

1. Baumol, W.J. & Oates, W.E. (1997), The Theory of Environmental Policy, Prentice Hall, Englewood-cliffs
2. Bhattacharya, R. N. (2006), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi
3. Field, Barry & Field, Martha (2016), Environmental Economics: An Introduction, McGraw-Hill Education, New York.
4. Managi, Shunsuke & Kuriyama, Koichi (2017), Environmental Economics, Routledge, London and New York
5. Singh, Katar & Shishodia, Anil (2010), Environmental Economics: Theory and Applications, Sage Publications, New Delhi
6. Smith, Stephen (2011), Environmental Economics: A Very Short Introduction, Oxford University Press, New York
7. Ulaganathan, Sankar (2006), Environmental Economics, OUP, New Delhi

Recommended Books:

1. Ali, S.A. (1979), Resources for Future Economic Growth, Vikas Publishing House, New Delhi.
2. Charles Peering (1987) Economy and Environment Cambridge University Press, New York.
3. Dorfman, R & N. Dorfman (Eds.) (1977), Economics of the Environment. W.W. Norton, New York.

4. Hanley, Nick; Shogren, Jason & White, Ben (2004), Environmental Economics in Theory and Practice, McMillan India Limited, Delhi

Recommended Journals:

1. Journal of Environmental Economics and Management
2. Review of Environmental Economics and Policy
3. Environmental and Resource Economics
4. Ecological Economics
5. Annual Review of Resource Economics
6. Land Economics

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Mandatory / Core

Course Name: Economics of Environment

Course Code: ECO 654 MJP

No. of Credits: 2 Credits [Practical]

No. of Hours: 60 Hours

Total Marks: 50 Marks

Preamble:

This practical is designed to understand economics of changes in environment. Presently the changes in environment are causing economic development all over the world. Therefore, it is necessary to understand the side effects of global warming on human being and economic development process. The students will study, understand the changes in climate and bring it to the field stakeholders especially the farmers.

Course Objectives:

1. To create environmental awareness among the students.
2. To understand the economic consequences of global warming.
3. To provide the information to public especially the farmers.

Course Outcome:

This practical will strengthen the environmental values among the students. The practical will aware the students on economics of environment. Moreover, the students will disseminate the importance of environment and the side effects of environment degradation to the public.

PRACTICAL WORK

Unit No.	Unit Title and Contents	Hours
1	1. Practical work	60
	2.1 - Making assignment on environment and its economics	
	2.2. - Conducting field visit and collecting information on side effects of environmental degradation and measures to control the degradation.	
	2.3 - Preparing a mini project on the work done.	

Note: Students should prepare the Practical Work Book.

Assessment Method

Sr. No.	Practical Exam Pattern	Marks
1.	Internal Assessment - Teachers should choose any three tools out of given above for Internal Assessment	15
2.	Practical Assessment a] Practical work Book – 15 Marks b] Viva Voce / Presentation (Problem Solving / PPT / Poster) – 20 Marks	35
	Total	50

Reading List:

1. Baumol, W.J. & Oates, W.E. (1997), The Theory of Environmental Policy, Prentice Hall, Englewood-cliffs
2. Bhattacharya, R. N. (2006), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi
3. Field, Barry & Field, Martha (2016), Environmental Economics: An Introduction, McGraw-Hill Education, New York.
4. Managi, Shunsuke & Kuriyama, Koichi (2017), Environmental Economics, Routledge, London and New York
5. Singh, Katar & Shishodia, Anil (2010), Environmental Economics: Theory and Applications, Sage Publications, New Delhi
6. Smith, Stephen (2011), Environmental Economics: A Very Short Introduction, Oxford University Press, New York
7. Ulaganathan, Sankar (2006), Environmental Economics, OUP, New Delhi

Recommended Books:

1. Ali, S.A. (1979), Resources for Future Economic Growth, Vikas Publishing House, New Delhi.
2. Charles Peering (1987) Economy and Environment Cambridge University Press, New York.
3. Dorfman, R & N. Dorfman (Eds.) (1977), Economics of the Environment. W.W. Norton, New York.
4. Hanley, Nick; Shogren, Jason & White, Ben (2004), Environmental Economics in Theory and Practice, McMillan India Limited, Delhi

Recommended Journals:

1. Journal of Environmental Economics and Management
2. Review of Environmental Economics and Policy
3. Environmental and Resource Economics
4. Ecological Economics
5. Annual Review of Resource Economics
6. Land Economics

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Elective

Course Name: Public Policy-I

Course Code: ECO 660 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

Public Policy is a specialized area in social sciences, with special reference to economics along with political science and sociology; the subject covers the study of public policy, the process and perspectives of policy making and the analysis and evaluation of Public Policy. The study of Public Policy provides an understanding of the various aspects of policy making on theories, concepts, process, methods, analysis and evaluation. The subject discusses public policy in historical perspective, the concepts of public policy, the methodologies for implementation as well as evaluation along with the impact of globalization on public policy.

Course Objectives:

1. To develop an understanding of public policy in the theoretical as well as practical context.
2. To discuss and debate the various aspects of public policy and policy making

Course Outcomes:

After learning this course, the students will be;

1. Able to analyze and evaluate the subject with reference to various aspects of Public Policy.
2. Able to develop an understanding of the public policy, its perspectives and processes and to be able to construct intellectual dialogue on the policy making and policy analysis and evaluation

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Introduction to Public Policy	14
	1.1 - Concept, Meaning and Definitions of Public Policy	
	1.2 - Historical Emergence and Relevance of Public Policy	
	1.3 - Nature and Scope of Public Policy	
	1.4 - Perspectives of Policy Making, Impact of Globalization on Policy making	
2	2. Public Policy Making	16
	2.1 – Institutionalism, Process of Policy Making	
	2.2 – Policy as a Political Tool	
	2.3 - Public Choice	
	2.4 - Strategic Planning	
3	3. Policy Implementation and Evaluation	12
	3.1 - Policy Implementation – Meaning, Concept and Methods	
	3.2 - Policy Evaluation - Concept and Methods	
4	4. Economics of Public Policy	18
	4.1 - Types of Public Policy Analysis – Empirical, Normative, Retrospective and Prospective, Descriptive and Prescriptive	
	4.2 - Actors in Public Policy Analysis - Government, Media, Civil Society, Multinational Agencies, Transnational Agencies, International Donor Agencies	
	4.3 - Constraints in Public Policy Analysis- Economic Constraints, International Constraints, Social and Cultural Constraints, Political Constraints/Feasibility	
	4.4 - Emerging Trends – Ombudsman, Local Bodies, Whistle Blowers, Citizens Organizations	

Basic Reading List:

1. Anderson James. E., (2010) Public Policy-Making: An Introduction”, Cengage Learning, 7th Edition
2. Birkland Thomas A., (2005), An Introduction to The Policy Process: Theories, Concepts, And Models of Public Policy Making, Armonk;
3. Chandler. Dye Thomas (2008), Understanding Public Policy, Singapore, Pearson Education
4. Chakrabarti Rajesh, Kaushiki Sanyal (2016) “Public Policy in India” OUP India
5. Mathur Kuldeep (2015) Public Policy and Politics in India: How Institutions Matter” OUP India
6. McCool, Daniel C. (ed.), (1995), “Public Policy Theories, Models, and Concepts: An Anthology”, NJ: Prentice-Hall
7. Moran Michael, Martin Rein, Robert E. Goodin (2018) “The Oxford Handbook of Public Policy” OUP
8. Saumitra Mohan (2018) “Indian Policy and Development: A Manual for National Schemes and International Policies” McGraw Hill Education

Recommended Books:

1. Ashford, Doug (ed.), (1992), “History and Context in Comparative Public Policy”, Ithaca, NY: University of Pittsburgh Press.
2. Bergerson, Peter J. (ed.), (1991), “Teaching Public Policy: Theory, Research and Practice”, Westport, RI: Greenwood Press
3. Dahl, Robert and Charles Lindblom, (1976), “Politics, Economics and Welfare”, New York, Harper
4. Dror.Y, (1989), “Public Policy making Re-examined”, Routledge, 2nd Edition
5. Hill Michael, (2005), The Public Policy Process, Harlow, UK; Pearson Education, 5th Edition
6. Houghton Bardach, Eugene (1977), “The Implementation Game: What Happens After a Bill Becomes a Law”, Cambridge, MA: MIT
7. Howlett, Michael, and M. Ramesh, (1995), “Studying Public Policy: Policy Cycles and Policy Subsystems”, OUP, Toronto
8. Jones, C.O., (1970), “An Introduction to the Study of Public Policy”, Belmont, Prentice - Hall
9. Lerner, D. and H.D.Lasswell (eds.), (1951), “The Policy Sciences”, Stanford University Press
10. Lindblom, C.E., and E.J., Woodhouse, (1993), “The Policy making Process”, 3rd ed., Prentice - Hall

11. Nachmias, David, (1979), “Public Policy Evaluation: Approaches and Methods”, New York: St. Martin's Press
12. Jay M. Shafritz (ed) (1998), “International Encyclopedia of Public Policy and Administration”, Westview Press
13. John, Peter, (2012), “Analysing Public Policy”, Routledge, 2nd Edition
14. M.E. Sharpe Brewer, Gary D., and Peter de Leon (1983), “The Foundations of Policy Analysis”, Homewood, IL.: The Dorsey Press
15. Bellinger William K (2015) “The Economic Analysis of Public Policy” Routledge, 2nd Edition

Recommended Journals

1. Indian Journal of Public Policy and Administration - Sage
2. International Journal of Public Policy – Inderscience
3. Journal of Asian Public Policy –Taylor and Francis Online
4. Journal of Public Policy – Cambridge
5. Journal of Public Policy and Administration – Science Publishing Group
6. Science and Public Policy – Oxford Academic Journals

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Elective

Course Name: Urban Economics

Course Code: ECO 661 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble

Urban Economics is a specialized area in economics studying urban economies. Urban Economics provides an understanding of the various aspects- conceptual and theoretical of urban economies. The subject discusses urban structure, urban infrastructure, urban development as well as labour and employment in urban spaces. Various contemporary topics are discussed and analyzed that concern sustainable development and livelihood creation in urban economies. It is also important to discuss the role of urban local bodies in the challenges of urbanization.

Course Objectives:

1. To develop an understanding of urban economics in the theoretical as well as practical context.
2. To elaborate and discuss on the various concepts and terminologies used in urban economies.
3. To discuss and debate the various issues and challenges faced by urban economies.

Course Outcome:

After Completing this Course, the Students will be;

1. Able to analyze and evaluate the subject with reference to various aspects of urban economies.
2. Able to develop an understanding of the urban spaces with its intricacies and imperfections and to be able to construct intellectual dialogue on the challenges of urbanization w.r.t. the Indian Economy.

At the end of this course a student will get an understanding of an Urban area, its special problems and the solutions adopted to deal with these problems.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Introduction to Urban Economics	12
	1.1 - Urban Economy – Concept and meaning, Process of Urbanization	
	1.2 - Growth of Urban Areas –Historical Perspective, Causes of Urbanization	
	1.3 - Urbanization and the drivers of Urban Economic Growth, Economics of Urban Growth	
2	2. Theories of Urban Growth	12
	2.1 - Classical Theories – The Von Thunen Model, Concentric Zone Model, Central Place Theory	
	2.2. - Modern Theories – Public Choice Theory, Planning Theory, Economics of Agglomeration	
3	3. Urban Problems and Governance	18
	3.1 – Types of Urban Local Bodies, Cantonment Board – Functions, Problems & limitations	
	3.2 - Slum Areas – Locations and Problems, Slum Development Policies, Local Body Finance	
	3.3 – Urban Poverty – Nature and Causes, Urban Transport – Types, Authorities and Problems	
	3.4 – Urban Labour Markets – Informal Employment	
4	4. Urban Development Policy in India	18
	4.1 - Urbanization in India – Growth of Urban Population, Migration	
	4.2 - Government Policies for Urban Development - Jawaharlal Nehru National Urban Renewal Mission (JNNURM)-2005, Atal Mission for Rejuvenation and Urban Transformation (AMRUT)-2015	
	4.3 – Pradhan Mantri Awas Yojana, Smart City Mission, National Urban Livelihood Mission, Heritage City Development and Augmentation (HRIDAY)	

Basic Reading List:

1. Ahrend, R., Lembcke, A. C., and Schumann, A. (2017). The Role of Urban Agglomerations for Economic and Productivity Growth. *International Productivity Monitor*, (32), 161.
2. Bhargava Gopal (2001): Development of India's Urban, Rural and Regional Planning in 21st Century, Gyan Publishing House, ISBN 9788121207140
3. Datt Gaurav and Ashwini Mahajan: Datt and Sundharam's Indian Economy, S. Chand and Company Private Limited, New Delhi. (Available in Hindi also)
4. Dwivedi Rishi Muni (2007): Urban Development in India 1947 to 2007. New Century Publications, New Delhi India. ISBN-10:8177081233
5. Mani N (2016): Smart Cities and Urban Development in India, New Century Publications ISBN 9788177084320

Recommended Books:

1. Puri and Mishra: Indian Economy, Himalay Publishing House.
2. Patel Sujata and Kushal Deb (2009): Urban Studies, Oxford University Press. ISBN-10: 0198062524.
3. Arthur O'Sullivan (2018) Urban Economics, McGraw Hill; 9th edition.
4. Jene Jacobs (1970), The Economy of Cities, Mass Market Paperback.
5. Zenou Yves, Urban Labour Economics, Cambridge University Press.
6. Button K. J., Urban Economics, Palgrave Macmillan.
7. Maarten van Ham, Tiit Tammaru, et al. (2021), Urban Socio-Economic Segregation and Income Inequality: A Global Perspective, Springer Publishers.

Recommended Journals:

1. Urban India, National Institute of Urban Affairs
2. Urbanisation, Indian Institute for Human Settlement
3. Indian Economic Review, Department of Economics, Delhi School of Economics.
4. Labour and Development, V.V. Giri National Labour Institute.
5. The Indian Journal of Economics, Department of Economics, University of Allahabad.

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Elective

Course Name: Econometrics

Course Code: ECO 662 MJ

No. of Credits: 4 Credits [Theory]

No. of Hours: 60 Hours

Total Marks: 100 Marks

Preamble:

Application of economic theory needs a reasonable understanding of economic relationships and relevant statistical methods. The syllabus of econometrics is to equip the students with an understanding of theoretical econometrics and the relevant applications of the econometric methods. This course covers various econometric methods applicable for testing empirical relationships in economics and those needed for applied economic research. An introductory module on time series methods has also been included in this course, which constitutes an important tool for analysis in economic studies.

Course Objectives:

1. To understand the econometric modelling and apply it in research in order to analyse the data
2. To demonstrate the practical and the applied aspects of econometrics involved in conducting empirical studies.

Course Outcome:

This course will develop analytical skills among the students. Applications of the skills in research to test the hypothesis, relationship among the variables and in data analysis for policy making can also be the outcome of the course.

UNITS AND CONTENTS

Unit No.	Unit Title and Contents	Hours
1	1. Introduction to Econometrics	14
	1.1 Meaning of Econometrics, Structure of Economic Data; Cross-Sectional, Time Series, Pooled, Panel Data,	

	1.2 - Regression Method; Linear & Non-Linear, Population Regression Function (PRF), Sample Regression Function (SRF),	
	1.3 - Ordinary Least Squares (OLS) Method, Classical Linear Regression Model; Assumptions.	
2	2. Regression Models	16
	2.1 - Simple Regression Model: Definition and Interpretation, Properties of OLS Estimators	
	2.2. - Hypothesis Testing; F-Statistics, T-Test, P-Value, Confidence Interval, Test of Significance	
	2.3 - Multiple Regression Model; Interpretation, Partial Correlation Coefficient, Goodness of Fit and Analysis of Variance (ANOVA)	
	2.4 - Violation of Classical Assumptions – Multicollinearity, Heteroscedasticity, Autocorrelation – Meaning & Remedies	
3	3. Qualitative Data Regression	14
	3.1 - What is Qualitative Data? Nature of Binary (Dummy) Variables, Single and Multiple Independent Dummy Variables,	
	3.2 - Binary Dependent Variable; Linear Probability Model	
	3.3 - Introduction to Logit and Probit Models, Panel Data; Meaning and Inferences.	
4	4. Time Series Data Analysis	16
	4.1 - Nature of Time-Series Data, Time Series Regression Models, Stochastic Process,	
	4.2 – Test of Stationarity, Unit Root Test, AR, MA And ARIMA Models, Approaches to Forecasting,	
	4.3 – Simultaneous Equation Models and Identification Problem; Rank and Order Condition	
	4.4 – Simple Regression Tools in MS Excel, Open-Source Software for Data Analysis - R	

Basic Reading List

1. Enders Walter (2018) 'Applied Econometric Time Series', (4th ed.) Wiley India
2. Gujarati, D. N., Porter, D. C. & Gunasekaran, S. (2009). Basic Econometrics. (5th ed.). Tata McGraw Hill

3. H. Stock James, W. Watson Mark (2017) 'Introduction to Econometrics' Pearson Education, Third Edition
4. Maddala G. S., Kajal Lahiri (2012) 'Introduction to Econometrics', John Wiley & Sons.
5. Jeffrey M. Wooldridge (2019), Introductory Econometrics: A Modern Approach, Cengage Learning Products, Canada.

Recommended Books:

1. Dominick Salvatore and Derrick Reagle (2011) Schaum's Outline of Statistics and Econometrics, Second Edition (Schaum's Outlines).
2. Dougherty, C. (2011) Introduction to Econometrics (4th ed). Oxford University Press.
3. Gujarati Damodar (2017) 'Econometrics by Example', Palgrave Macmillan, 2nd edition
4. Jeffrey M. Wooldridge (2008) 'Introductory Econometrics: A Modern Approach' South Western, Second Edition
5. Koutsoyiannis A. (2001) 'Theory of Econometrics' Palgrave Macmillan, Second Edition
6. Nachane, Dilip M. (2008). Econometrics: Theoretical Foundations and Empirical Perspective (1st ed.). Oxford Textbooks

Recommended Journals

1. Journal of Quantitative Economics, The Indian Econometric Society
2. Quarterly Journal of Economics, Oxford Academic.
3. Econometrica, The Econometric Society
4. Journal of Econometrics - Elsevier
5. The Econometrics Journal, The Royal Economic Society

Syllabus

Class: M.A. - II Economics

Semester: IV

Course Type: Credits Related to Major – Research Project

Course Name: Research Project

Course Code: ECO 681 RP

No. of Credits: 6 Credits [Project]

No. of Hours: 90 Hours

Total Marks: 150 Marks

Preamble:

Students who complete their post-graduation in Economics are mentally equipped to pursue research in the same discipline. It is generally accepted that research is nothing but extension and application of knowledge in a certain specialized field. Therefore students who do their post-graduation, as internal students will be given an opportunity to get exposed to a few elements of social research and also they are expected to complete a small research project under the expert guidance and supervision, Elementary knowledge of research methodology shall consolidate and deepen their understanding of various branches of Economics.

Preparing a small dissertation is intended to train them in scientific thinking and art of systematic presentation. It is essentially a job-oriented exercise to enable them to take up the exciting field of social and economic research.

Course Objectives:

1. To enable an understanding of Research and its methods under various areas of economics.
2. To demonstrate the practical and the applied aspects of research in relation to Economics.

Course Outcome:

1. Ability to develop, demonstrate and examine topics under Economics to pursue research.
2. Ability to evaluate and examine subject areas in economics and explore possibilities of research.

Part I: IV Semester students shall submit a Research Project minimum 10000 and maximum 12,000 words in two copies. The Research Project shall be prepared under the guidance of an approved teacher.

Part II: An internal supervisor shall assess each Research Project for out of 100 marks, based on the methodology, analysis, contents and quality of the dissertation.

Viva-voce: A viva voce examination of each candidate shall be held where he/she will have to make a presentation of the Research Project and defend the research. A panel of two referees shall be formed out of whom one shall be an internal examiner. The viva voce shall carry 50 marks. Internal & external examiners shall give out of 25 marks each. The copies of Research Project and the record of the viva voce examination shall be maintained by the center for two more academic years for inspection.

Tentative Format for Research Project / Dissertation

1. Introduction
2. Review of Relevant Literature
3. Importance of Study
4. Statement of Problem
5. Hypothesis
6. Objectives of Study
7. Research Methodology
 - A. Research Method
 - B. Tools of Data Collection
 - i) Primary Data
 - ii) Secondary Data
 - C. Selection of Sample
 - D. Techniques of Analysis of Data
10. Scope & Limitations of the study
11. Scheme of Chapter (Tentative)
 1. Introduction
 2. Research Methodology
 3. Review of Literature
 4. Profile of Study Area
 5. Data Analysis
 6. Finding & Suggestion
 7. Bibliography
 8. Appendix

1. Title page / Cover Page
 - 1.1 - Title page
 - a. Title of the project
 - b. Degree for which project is submitted.
 - c. Name of the candidate
 - d. Name and designation of the supervisor.
 - e. Name of the College
 - f. Month and year the project is presented
 - 1.2. Undertaking
 - 1.3. Certificate
 - 1.4. Acknowledgement
 - 1.5. Contents
 - 1.6. List of Tables
 - 1.7. List of Graphs, Maps & Diagrams
2. The Main Text / Chapter (Tentative)
 - 2.1. Introduction
 - 2.2. Research Methodology
 - 2.3. Review of Literature
 - 2.4. Profile of Study Area
 - 2.5. Data Analysis
 - 2.6. Hypothesis testing
 - 2.7. Conclusions / Finding
 - 2.8. Suggestion / Recommendations
3. Bibliography
4. Appendix
 - a. Questionnaire
 - b. Interview Schedule
 - c. Observation Schedule (optional)
 - d. Coding Frame (optional)
 - e. Any Other
5. Abbreviations
6. Photographs

General Guidelines

1. **Report length:** minimum of 80-100 pages
2. **Alignment:** Justify
3. **Font:** Times New roman
4. **Font size:** 12
5. **Line spacing:** 1.5
6. **No Page Border**

Evaluation Method

Sr. No.	Research Project	Marks
1	Research Project Methodology, analysis, contents and quality of the Research Project	100
2	Viva-voce / Oral [Internal Examiner 25 + External Examiner 25]	50
Total		150

References:

- 1) Wilkinson and Bhandarkar - Methodology and Techniques of Social research - Pauline, Young - Scientific Social Surveys and Research
- 2) Goode and Hatt - Methods in Social Surveys and Research
- 3) Krishnaswamy K.N. and Appalyer Sivakumar (2009): Management Research Methodology, Pearson Education Publication, N. Delhi
- 4) Sharma Prasad and Satyanarayana (ed) Research Methods in Social Sciences
- 5) Moser and Kalton - Survey Methods in Social Investigations
- 6) Sadhu and Singh - Research Methodology in Social Sciences
- 7) Kurein C. T. A guide to research in Economics.
- 8) Devendra Thakur - Research Methodology in Social Sciences
- 9) Basotia G.R. Sharma K.K.- Research Methodology
- 10) Kothori C.R. Research methodology New era Publication