

॥ अंतरी पेटवू ज्ञानज्योत ॥

**KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY, JALGAON**



**Syllabus for
M.A. ECONOMICS**

Second Year (SEMESTER III and IV)

FACULTY OF HUMANITIES

With effect from Academic Year – 2022-2023 for IInd Year

(Syllabus Structure under revised CBCS Pattern for PG Course in the
Subject of Economics)

Syllabus submitted by Board of Study, Economics

Syllabus Restructuring Committee

For M.A. Economics Part -II

Dr. Manojkumar J. Gaikwad (Chairman, Board of Studies Economics)	
Professor (Dr.) Jitendra D. Talware (Chairman Syllabus Restructuring Committee)	
Dr. Jagatrao U. Dhangar (Member)	Professor (Dr.) S.B. Wayese (Member)
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Prof. S.S. Vasave (Member)	Prof. Vishal. P. Hause (Member)
Professor (Dr.) N. L. Chavhan (Special Invitee Member)	

**Summary of Distribution of Credits under CBCS Pattern Scheme
For
M.A. Economics**

Sr.No	Type of course	Sem I	Sem-II	Sem III	Sem IV
01	Core	12	12	12	12
02	Skill-based/ Elective	04	04	04	04
03	School Elective	-	-	-	-
04	Project	-	-	-	-
05	Audit	02	02	02	02
06	Total Credits	18	18	18	18

Subject Type	Core	Skill Based/ Elective	School Elective	Project	Audit	Total
Credits	48	16	00	00	08	72

Total Credits = 72

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
M. A. Economics (w. e. f. A. Y. 2021 -2022)

Course credit scheme

Semester	(A) Core Courses			(B) Skill Based / Elective Course			(C) Audit Course (No weightage in CGPA)			Total Credits (A+B+C)
	No. of Courses	Credits (T+P)	Total Credits	No. of Courses	Credits (T+P)	Total Credits	No. of Courses	Credits (Th.)	Total Credits	
I	3	4 + 0	12	1	4 + 0	4	1	2	2	18
II	3	4 + 0	12	1	4 + 0	4	1	2	2	18
III	3	4 + 0	12	1	4 + 0	4	1	2	2	18
IV	3	4 + 0	12	1	4 + 0	4	1	2	2	18
Total Credits	48			16			8			72

(T, Theory; P, Practical)

Structure of Curriculum

		First Year				Second Year				Total Credit Value
		Semester I		Semester II		Semester III		Semester IV		
		Credit	Course	Credit	Course	Credit	Course	Credit	Course	
(A)	Prerequisite and Core Courses									
	Theory	4	3	4	3	4	3	4	3	48
	Practical	0	0	0	0	0	0	0	0	0
(B)	Skill Based / Subject Elective Courses									
1	Theory /Practical	4	1	4	1	4	1	4	1	16
(C)	Audit Course (No weightage in CGPA calculations)									
1	Practicing Cleanliness	2	1							2
2	Personality & and Cultural Development Related Course			2	1					2
3	Technology Related + Value Added Course					2	1			2
4	Professional and Social + Value Added Course							2	1	2
	Total Credit Value	18	5	18	5	18	5	18	5	72

List of Audit Courses (Select any ONE course of Choice from Semester II; Semester III and Semester IV)

Semester I (Compulsory)		Semester II (Choose One)		Semester III (Choose One)		Semester IV (Choose One)	
		Personality and Cultural Development		Technology + Value Added Course		Professional and Social + Value Added Course	
Course Code	Course Title	Course Code	Course Title	Course Code	Course Title	Course Code	Course Title
AC-101	Practicing Cleanliness	AC-201 (A)	Soft Skills	AC-301(A)	Computer Skills	AC-401(A)	Human Rights
		AC-201 (B)	Sport Activities	AC-301(B)	Cyber Security	AC-401 (B)	Current Affairs
		AC-201 (C)	Practicing Yoga	AC-301(C)	Use of SPSS in Social Sciences	AC-401(C)	Economy of Maharashtra
		AC-201 (D)	Introduction to Indian Music	AC-301(D)	Application of E-Learning	AC-401(D)	The economy of the Khandesh Region

Semester-wise Course Structure of M. A. I Economics (w.e.f. A.Y. 2021-2022)

Semester I

Course Code	Course Type	Title of the Course	Contact Hour/Week	Distribution of Marks for Examination					Credits
				Internal		External		Total	
				Th.	Pr.	Th.	Pr.		
PG-ECO- 101	Core	Advanced Microeconomic Analysis-I	04	40	--	60	--	100	04
PG-ECO- 102	Core	Public Finance-I	04	40	--	60	--	100	04
PG-ECO -103	Core	Statistics -I	04	40	--	60	--	100	04
PG-ECO -104	Skill Based/ Elective	Choose one of the following A. Agricultural Economics-I B. Industrial Economics C. Environment Economics	04	40	--	60	--	100	04
PG-AC- 101	Audit Course	Practical Cleanliness	02	--	100	--	--	100	02
Total Credit for Semester I: 18 (T = Theory: 04; P = Practical: 0; Skill Based: 4; Audit Course:2)									

Semester II

Course Code	Course Type	Title of the Course	Contact Hour/Week	Distribution of Marks for Examination					Credits
				Internal		External		Total	
				Th.	Pr.	Th.	Pr.		
PG-ECO-201	Core	Advanced Microeconomic Analysis -II	04	40	--	60	--	100	04
PG-ECO -202	Core	Public Finance-II	04	40	--	60	--	100	04
PG-ECO -203	Core	Statistics -II	04	40	--	60	--	100	04
PG-ECO -204	Skill Based/ Elective	Choose one of the following A. Agricultural Economics-II B. Rural Development C. Demographic Economics	04	40	--	60	--	100	04
PG-AC- 201	Elective Audit Course	Choose one out of Four AC-201 (A/B/C/D)	02	100	--	--	--	100	02
Total Credit for Semester I: 18 (T = Theory: 04; P = Practical: 0; Skill Based: 4; Audit Course:2)									

Semester-wise Course Structure of M.A. II Economics (w.e.f. A.Y. 2022-2023)

Semester III

Course Code	Course Type	Title of the Course	Contact Hour/Week	Distribution of Marks for Examination					Credits
				Internal		External		Total	
				Th.	Pr.	Th.	Pr.		
PG-ECO -301	Core	Monetary Economics-I	04	40	--	60	--	100	04
PG-ECO -302	Core	Economics of Development and Growth-I	04	40	--	60	--	100	04
PG-ECO -303	Core	International Economics-I	04	40	--	60	--	100	04
PG-ECO -304	Skill Based/ Elective	Choose one of the following A. Econometrics-I B. Research Methodology for Economics C. Principles of banking and finance D. Urban Economics	04	40	--	60	--	100	04
PG-AC- 301	Audit Course	Choose one out of Four AC-301 (A/B/C/D)	02	100	--	--	--	100	02
Total Credit for Semester I: 18 (T = Theory: 04; P = Practical: 0; Skill Based: 4; Audit Course:2)									

Semester IV

Course Code	Course Type	Title of the Course	Contact Hour/Week	Distribution of Marks for Examination					Credits
				Internal		External		Total	
				Th.	Pr.	Th.	Pr.		
PG-ECO -401	Core	Monetary Economics-II	04	40	--	60	--	100	04
PG-ECO -402	Core	Economics of Development and Growth-II	04	40	--	60	--	100	04
PG-ECO -403	Core	International Economics-II	04	40	--	60	--	100	04
PG-ECO -404	Skill Based/ Elective	Choose one of the following A. Econometrics-II B. Research Methodology for Economics-II With Project C. Indian financial market D. Labour Economics	04	40	--	60	--	100	04
PG-AC- 401	Audit Course	Choose one out of Four AC-401 (A/B/C/D)	02	100	--	--	--	100	02
Total Credit for Semester I: 18 (T = Theory: 04; P = Practical: 0; Skill Based: 4; Audit Course:2)									

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M.A.Economics

Equivalence of M.A. Economics: Part – I : Semester: I

OLD PATTERN (W.E.F ACADEMIC YEAR:2017-18)				NEW PATTERN (W.E.F ACADEMIC YEAR: 2021-22)			
Sr.	Paper Code	Nature of Paper	Title Of The Paper	Sr. No.	Paper Code	Nature of Paper	Title Of The Paper
1	Eco:111	Core Compulsory	Advanced MicroEconomics: I	1	PG-ECO-101	Core	Advanced Microeconomic Analysis-I
2	Eco:112	Core Compulsory	Modern Public Economics: I	2	PG-ECO-102	Core	Public Finance-I
3	Eco:113(A)	Optional Paper	Statistics For Economics	3	PG-ECO-103	Core	Statistics-I
4	Eco:113 (B)	Optional Paper	Schools of Economic Thoughts				
5	Eco:114 (A)	Optional Paper	Economics of Agriculture & Rural Development	4	PG-ECO-104 (A)	Optional	Agricultural Economics-I
6	Eco:233(B)*	Optional Paper	Economics of Labor-I	5	PG-ECO-104 (B)	Optional	Industrial Economics
7	Eco:114 (C)	Optional Paper	Economics of Environment	6	PG-ECO-104 (C)	Optional	Environment Economics

Equivalence OF M.A. Economics: Part – I : Semester: II

OLD PATTERN (W.E.F ACADEMIC YEAR: 2017-18)				NEW PATTERN (W.E.F ACADEMIC YEAR:2021-22)			
Sr. No	Paper Code	Nature of Paper	Title of The Paper	Sr. No	Paper Code	Nature of Paper	Title of The Paper
1	Eco:121	Core Paper	Advanced MicroEconomics: II	1	PG-ECO-201	Core Paper	Advanced Microeconomic Analysis-II
2	Eco:122	Core Paper	Modern Public Economics: II	2	PG-ECO-202	Core Paper	Public Finance-II
3	Eco:123 (A)	Optional Paper	Research Methodology for Economics	3	PG-ECO-203	Core Paper	Statistics-II
4	Eco:123 (B)	Optional Paper	Comparative Economic Systems in the World				
5	Eco:124 (A)	Optional Paper	Economics of Agriculture & Rural Development	4	PG-ECO-204 (A)	Optional Paper	Agricultural Economics-II
6	Eco:243(B)*	Optional Paper	Economics of Labor-II	5	PG-ECO-204 (B)	Optional Paper	Rural development
7	Eco:124(C)	Optional Paper	Economics Of Population	6	PG-ECO-204 (C)	Optional Paper	Demographic Economics

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M.A.Economics

Equivalence of M.A. Economics: Part – II : Semester: III

OLD PATTERN (W.E.F ACADEMIC YEAR:2018-19)				NEW PATTERN (W.E.F ACADEMIC YEAR: 2022-23)			
Sr.	Paper Code	Nature of Paper	Title Of The Paper	Sr. No.	Paper Code	Nature of Paper	Title Of The Paper
1	Eco:231	Core Compulsory	Advanced Monetary Economics: I	1	PG-ECO 301	Core	Monetary Economics-II
2	Eco:232	Core Compulsory	Theories of Economic Development	2	PG-ECO 302	Core	Economics Development and Growth-II
3	Eco:233(A)	Choose any One	International Economics-I	3	PG-ECO 303	Core	International Economics-II
4	Eco:233 (B)		Economics Of Labor - I				
5	Eco:234 (A)	Choose any One	Computer Applications in Economics Analysis-I	4	PG-ECO 304 (A)	Choose any One	Econometrics-II
6	Eco:234(B)*		Modern Banking System in India	5	PG-ECO 304 (B)		Research Methodology for Economics-II
7	Eco:234 (C)		Mathematical Economics	6	PG-ECO 304 (C)		Principles of banking and finance
				7	PG-ECO 304 (D)		Urban Economics

Equivalence OF M.A. Economics: Part – II : Semester: IV

OLD PATTERN (W.E.F ACADEMIC YEAR: 2018-19)				NEW PATTERN (W.E.F ACADEMIC YEAR:2022-23)			
Sr. No	Paper Code	Nature Of Paper	Title Of The Paper	Sr. No	Paper Code	Nature Of Paper	Title Of The Paper
1	Eco:241	Core Paper	Advanced Monetary Economics: II	1	PG-ECO 401	Core Paper	Monetary Economics-II
2	Eco:242	Core Paper	Theories Of Economic Growth	2	PG-ECO 402	Core Paper	Economics Development and Growth-II
3	Eco:243 (A)	Optional Paper	International Economics-II	3	PG-ECO 403	Core Paper	International Economics-II
4	Eco:243 (B)	Optional Paper	Economics Of Labor - II				
5	Eco:244 (A)	Optional Paper	Computer Applications in Economics Analysis-II	4	PG-ECO 404 (A)	Choose any One	Econometrics-II
6	Eco:244 (B)*	Optional Paper	Financial Markets in India	5	PG-ECO 404 (B)		Research Methodology for Economics-II with Project
7	Eco:244 (C)	Optional Paper	Econometrics	6	PG-ECO 404 (C)		Indian financial market
					PG-ECO 404 (D)		Labour Economics

Programme at a Glance

Name of the programme (Degree)	: M. A. (Economics)
Faculty	: Humanities
Duration of the Programme	: Two years (four semesters)
Medium of Instruction and Examination	: English, Marathi
Exam Pattern	: 60: 40 (60 marks University exam and 40 marks continuous internal departmental exam/assessment)
Passing standards	: 40% in each exam separately (separate head of passing)
Evaluation mode	: CGPA
Total Credits of the programme	: 72 (48 core credits + 16 Skill-based or Elective credit + 08 audit course credits)

Programme Objectives for M.A. Programme:

1. To understand history, human behavior and social interactions, translating into many different career paths down the road.
2. To relate roles and impact of information policies, practices, and information itself on diverse populations, including under-served groups, in a rapidly changing technological and global information society.
3. To evaluate Communication and networking for personal and professional growth, leadership, collaboration, policy development, and change management.
4. To develop teaching, research, and service, including interdisciplinary activities that contribute to the advancement of the field.
5. To express the field's philosophy, principles, and legal & ethical responsibilities.

Programme Outcomes (PO) for M.A. Programme:

Upon successful completion of the M.A. programme, the students will be able to:

PO No.	Programme Outcomes	Cognitive level
PO1	Students will be understood history, human behavior and social interactions, translating into many different career paths down the road.	2
PO2	Students will be able to relate the roles and impact of information policies, practices, and information itself on diverse populations, including under-served groups, in a rapidly changing technological and global information society	2
PO3	Students will be able to evaluate Communication and networking for personal and professional growth, leadership, collaboration, policy development, and change management.	4
PO4	Students will be developed in teaching, research, and service, including interdisciplinary activities that contribute to the advancement of the field.	6
PO5	Students will be able to express the field's philosophy, principles, and legal and ethical responsibilities.	2

Programme Specific Objectives (PSOs): M. A. Economics

- To teach the latest developments in the principles of economic theory.
- To teach applications of theories in analyzing current economic problems.
- To inculcate effective communication, written and oral, about the field of Economics.
- To impart substantive knowledge of core areas in Economics and the ability to think critically about them.
- To acquaint with the history and evolution of the discipline of Economics.

Programme Specific Outcomes for M. A. Economics

After completion of the M. A. Economics programme, the students should be able to:

Programme Specific Outcome (PSO) No.	Programme Specific Outcome	Cognitive Level
PSO1	Students will be able to understand the latest developments in the principles of economic theory.	2
PSO2	Students will be able to understand the applications of theories in analyzing current economic problems.	2
PSO3	Students will be able to develop effective communication, written and oral, in the field of Economics.	3
PSO4	Students will be able to evaluate substantive knowledge of core areas in Economics and the ability to think critically about them.	4
PSO5	Students will be able to connect themselves with the history and evolution of the discipline of Economics.	4

PG-ECO-301: Monetary Economics-I

Course Objectives (COBs):

- To identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.
- Discuss the linkages between financial markets and the real economy, and how these linkages influence the impact of economic policies over different time horizons.
- To describe the main macroeconomic theories of short term fluctuations and long term growth in the economy.

Unit 1 Introduction to Monetary Economics and Money Hrs. 15

- 1.1 Monetary Economics Meaning – Nature, Scope, Importance.
- 1.2 Money – Definition, Classification, Function, Near Money.
- 1.3 The Circulation flow of Money – Household – Business sector, Saving – Investment, Government sector, foreign sector, Importance of circulation flow of money.
- 1.4 Neutrality of Money – Classical System, Keynesian System, Monetarist View.
- 1.5 Paper currency standard – Merits, Demerits, Principles and Method of Note Issue.

Unit 2 The Quantity Theory of Money Hrs. 15

- 2.1 The Theory of Money – Meaning of value of Money, Fisher’s cash transaction theory, Cambridge cash balance theory / Equation, Keynes fundamental equations.
- 2.2 Income – Expenditure theory of Money – Income expenditure approach, Saving – Investment approach, Superiority of Income, Expenditure theory over quantity theory.
- 2.3 The Keynesian Theory of Money and Price – Keynes Reformulated Quantity theory of Money.
- 2.4 Friedman’s Quantity theory of Money.
- 2.5 The Real Balance effect – Patinkin’s theory, Pigou effects.

Unit 3 The Demand for Money Hrs. 15

- 3.1 The Classical Approach
- 3.2 Liquidity Preference Theory of Money
- 3.3 Boumal’s Approach
- 3.4 Tabin’s Portfolio selection model

Unit 4– The Supply of Money Hrs. 15

- 4.1 Supply of Money – Definition, Determinants
- 4.2 High Powered Money, Money Multiplier

- 4.3 Measures of Money supply in India, New Measures of RBI
- 4.4 The Liquidity Theory of Money – Radcliffe – Sayers thesis, Gurley – Show views.
- 4.5 Role of Money in classical and Keynesian Theories.
- 4.6 Role of commercial bank in money supply and credit control by Central Bank.

References:-

- 1. Chandler LV, Goldfeld (1977) The Economics of Money and Banking, Harper & Raw, New York.
- 2. Miskin F (2003) The Economics of Money: Banking and Financial Market, AddisonWesley Longmate, New York.
- 3. Coghlan R (1980) The Theory of Money and Finance, Macmillan London.
- 4. Walsh, Carl (2010) Monetary Theory and Policy, The MIT Press Cambridge Massachusetts.
- 5. Gupta Suraj (2016) Monetary Economics, S. Chand and Company, N.D.
- 6. Zingan L.M. (2004) Monetary Economics, Vrunda Pub. N. D.
- 7. Rana, Varma – Macro Economics Analysis, Vishal Pub. Co. N.D.
- 8. Chavhan NL (2018) Macro Economics, Prashant Pub. Jalgaon
- 9. Mithani DM (2021) Macro Economics, Himalaya Pub. Mumbai
- 10. Mahore (2005) Maudrik Arthshashra, Himalaya Publishing, Mumbai / Nagpur.
- 11. Deshpande (2006) Paishache Siddhant Aani Paisavishayak Vyavhar, Himalaya Publishing, Nagpur.
- 12. Ram Deshmukh, Sthool Arthashashra, Vidya Prakashan, Nagpur.

Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-301.1	Students will be able to critically evaluate the consequences of basic monetary policy and fiscal policy under differing economic conditions.	5
PG-ECO-301.2	Students can identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.	1
PG-ECO-301.3	Students will be able to discuss the linkages between financial markets and the real economy, and how these linkages influence the impact of economic policies over different time horizons.	2
PG-ECO-301.4	Able to describe the main macroeconomic theories of short term fluctuations and long term growth in the economy.	2

PG-ECO -302: Economics Development and Growth- I

Course Objectives (COBs):

- To furnish the students with development theories.
- To highlight the classical new classical and modern approaches towards development.
- Emphasis will be on economy-wide aspects of economic development.

Unit 1 Introduction to Development

16 Hrs.

- 1.1 Development - Meaning Indicators, Determinant Factors Economic and non-Economic
- 1.2 Measures of Economic Development
- 1.3 Concept of sustainable Development- Meaning Importance, and Advantages, Structural Diversity of Developing countries.
- 1.4 Human Development Index and physical quality of life Index (PQLI)
- 1.5 Obstacles of Economic Development.

Unit 2 Theories of Development

14 Hrs.

- 2.1 Classical Theories of Economic Development, the contribution of Adam Smith, Ricardo and J-s Mills, Karl Marx. Theory of social change, surplus value and Profit
- 2.2 Myrdal's Theory - circular causation
- 2-3 Leibensteins critical minimum effort theories, Nelsons Law - Income Equilibrium Trap
- 2.4 Fai Ranis Theory of Economic Development

Unit 3 Strategies of Development

16 Hrs.

- 3.1 Balanced and unbalanced growth.
- 3.2 Rosenstein Rodan's Big-push Theory
- 3.3 Dependency theory: Agriculture and Economic development
- 3.4 Role of capital formation Internal and External Sources of capital formation
- 3.5 Human capital formation and Economic Development

Unit 4 Sectoral Aspect of Development

14 Hrs.

- 4.1 Role of Agricultural and Industries in Economic Development
- 4.2 Infrastructure and Economic Development – Meaning and importance
- 4.3 International Trade and Economic Development
 - Importance of International Trade, International Trade and Economic Development
 - FDI, FII, MNCS, FERA, and FEMA
- 4.4. Role of Finance in Economic Development

REFERENCE:

1. Puri V.K. and Mista S.K. Indian Economy 39th Revised & updated Edition - Himalaya Publishing House (2021)
2. Higgins, B. (1966), Economic Development – Problems, Patterns and Policies, Central Book Depot, Allahabad.
3. Datta and Sundaram, Indian Economy.
4. Ramesh Singh, Indian Economy, Tata Mc-Graw Hill Publication.
5. Uma Kapila, Indian Economy.
6. Todaro M.P.(1996), Economic Development Longman 6th Edition, London.
7. Solow R.M.(2000), Growth Theory and exposition, Oxford University Press, Oxford.
8. Meier D.M.and Baldwin T.E. Economic Development.
9. Mishra and Puri, Development and planning Theory and practice.
10. सिंह एस. पी.- आर्थिक विकास एवं नियोजन १९८९, एस. चन्द एंड कंपनी रामनगर नई दिल्ली ११००५५.
11. पाटील जे. एफ., वृद्धी व विकासाचे अर्थशास्त्र (२०११) फडके प्रकाशन कोल्हापूर.

Course Outcomes (COs):

After completion of this course, students will be able to-

Course Outcome	Course Outcome	Cognitive Level
PG ECO302.1	Students will get knowledge about essential tools and concepts of development economics, to prepare them to understand what makes underdevelopment persist and what helps development succeed.	2
PG ECO 302.2	Students will acquire knowledge of the principal issues of economic development to prepare students for advanced study and policy-oriented research in this subject area.	3
PG ECO 302.3	Emphasis will be on economy-wide aspects of economic development.	3

PG-ECO -303: International Economics-I

Course Objectives (Cobs):

- To understand the Impact of International Economics
- Discuss various theories related to International Trade i.e., Comparative Cost, International value etc.
- Discuss on Economics of Scale and trade.
- To understand Gains from Trade Terms Trade.
- This Course Provides knowledge regarding International Economics.

Unit 1 Introduction to International Economics Hrs.15

- 1.1. International Economics- Meaning, Nature, Scope
- 1.2 International Trade - Meaning, Importance, Effect
- 1.3 Similarities and Differences between Internal Trade and External Trade
- 1.4 International Division of Labour- Meaning and Determinants of International Division of Labour.

Unit 2 Theories of International Trade – I Hrs.15

- 2.1- Comparative cost Theory / Ricardian Theory
- 2.2 Empirical Evaluation of classical comparative cost Theory
- 2.3. Mills Theory of International value
- 2.4. Marshall - Edgeworth offer curve Explanation
- 2.5. Opportunity cost Doctrine

Unit 3 Theories of International Trade – II Hrs.15

- 3.1 Heckscher - Ohlin Theory of International Trade
- 3.2 Factor price equilibrium theorem.
- 3.3. Stopler - Samuelson and Rybczynski Theorems
- 3.4 Leontief Paradox
- 3.5. Extensions of H.O.Theory

Unit 4 The New Theories of International Trade Hrs.15

- 4.1 International Trade - Economies of scale and Trade, Differentiated Product and Trade Differences in Tastes and Trade Specific factor Model.
- 4.2 Kravis Theory of availability and Linder's theory.
- 4.3 Technological gap and product Cycle Model of Trade, Kyenen and Emmanuel theory of Trade.
- 4.4 Intra - Industry Trade - Meaning, Neo- H.O. Model, Neo- Chamberlian Model, Neo-Hotelling Models.
- 4.5 Oligopolistic Models - Brander- Krugman Model, Reciprocal Dumping Model.
- 4.6 Gains from Trade: Income distribution static, dynamic and Terms of Trade- Prebish, Singer thesis of Terms of Trade.

REFERENCES:-

1. Soderstrom, B O (1991) International Economics, The McMillan Press Ltd. London
2. Elkworth P.T. International Economics (1961), The McMillan Press Ltd. London
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10. Bapat B.G. (1982) Antarrashtriya Vyapar Siddhant aani Dhoran (Marathi), Marathi
11. Zamare G.N., Antarrashtriya Arthashastra, Pimplapure & Co., Nagpur
12. Modak S.K. Antarrashtriya Arthashastra (Marathi). Shree Vidya Prakashan, Nagpur
13. Chavan N.L. (2005) Antarrashtriya Arthashastra, Prashant Publication, Jalgaon
14. Desai & Bhalerao, Bhartiya Arthashastra, Nirali Prakashan, Pune
15. Chavan N.L (2020) International Trade (Theory and Practice) Prashant Publication, Pune.

Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-303.1	Students will be able to discuss the major economic theories of international trade and analyze the economic implications of alternative trade policies.	2
PG-ECO-303.2	Students will be able to trace the development of the international financial architecture and the international monetary system and evaluate the implications of different exchange rate regimes for domestic macroeconomic policy.	5
PG-ECO-303.3	Students will be able to trace the origins of various processes of international (global or regional) economic integration and discuss their implications for the international patterns of productive specialization.	3

PG-ECO -304 A: Econometrics-I

Course Objectives (Cobs):

- To acquaint students with the basic knowledge of econometrics.
- To make students compatible with using the regression models.
- To equip students to understand the problems of autocorrelation, heteroscedasticity, multicollinearity and specification errors.
- To familiarize students with dummy variables and their uses.

Unit 1: Introduction to Econometrics

Hrs.15

- 1.1 Meaning, Nature and Scope of Econometrics.
- 1.2 Variable, Constant and Parameter.
- 1.3 Population and Sample.
- 1.4 Types, Sources and Accuracy of Data.
- 1.5 Important Distributions.
- 1.6 Methodology of Econometric Study.

Unit 2: Simple and Multiple Regression Models

Hrs.15

- 2.1 Simple Linear Regression Model and its estimation through the OLS method.
- 2.2 Assumption of Classical Linear Regression Model.
- 2.3 BLUE Properties of Estimators (Gauss-Markov Theorem).
- 2.4 Multiple Linear Regression Model and its estimation through the OLS method.
- 2.5 Concepts of R^2 and Adjusted R^2 .

Unit 3: Problems with CLRM

Hrs.15

- 3.1 Autocorrelation: Meaning, Causes, Consequences, Detection and Remedies.
- 3.2 Heteroscedasticity: Meaning, Causes, Consequences, Detection and Remedies.
- 3.3 Multicollinearity: Meaning, Causes, Consequences, Detection and Remedies.
- 3.4 Specification Error: Meaning, Types, Consequences, Detection and Remedies.

Unit 4: Dummy Variable Technique

Hrs.15

- 4.1 Concept of Dummy Variables
- 4.2 Regression Analysis with Dummy Variables
- 4.3 Uses of Dummy Variables
- 4.4 Concept of Dummy Variable Trap
- 4.5 Using Dummy Variables for Policy Evaluation

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Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-304. A 1	Students will have compatible knowledge of basic econometrics.	3
PG-ECO-304. A 2	Students will use the regression models to study the relationships between variables.	3
PG-ECO-304. A 3	Learners would understand the problems in regression analysis like auto-correlation, heteroscedasticity and multicollinearity.	2
PG-ECO-304. A 4	Students will be familiar with dummy variables and their uses	2

PG-ECO-304: B Research Methodology for Economics

Course Objectives (COs):

- Use data to construct economic arguments and understand the research problems associated with interpreting the results.
- Use various methods along with the economic models to assess the validity of various economic and policy-relevant arguments.
- Understand the role of sample selection/indignity in affecting results and how one might best correct these issues.

Unit 1 Introduction to Economic Research

Hrs: 15

- 1.1 Meaning, Nature, Objectives and Importance of Economic Research
- 1.2 Problems and Limitations of Research in Economics
- 1.3 Types of Economic Research
- 1.4 Research Methods versus Methodology
- 1.5 Criteria of Good Research

Unit 2 Research Problem and Research Design

Hrs: 14

- 2.1 Research Problem: Meaning- Selection – Necessity - Technique Involved
- 2.2 Research Proposal and Design: Meaning – Need
- 2.3 Features of a Good Design - Important Concepts Relating to Research Design
- 2.4 Different Research Designs

Unit 3 Research Process

Hrs: 15

- 3.1 Steps in Research Process, Ethics in Research
- 3.2 Objectives of the research
- 3.3 Hypothesis- Definition, Characteristics and Importance
- 3.4 Review of Literature, Need and sources for Reviewing Literature.

Unit 4 Data Collection Methods: Sampling Techniques

Hrs: 16

- 4.1 Meaning & Need of Data, Types of Data
- 4.2 Primary Data & Secondary Data Their Limitations
- 4.3 Data Collection: Population / Census v/s Sampling Method
- 4.4 Sampling, Meaning & Definition, Selection & Size of Samples
- 4.5 Types of Sampling- Probability or Random Sampling: Meaning, Merits & Demerits

4.6 Systematic Random Sampling, Stratified Random Sampling, Two-Stage Sampling
Purposive/ Convenience Sampling, Quota Sampling.

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Course Outcomes (COs):

After completion of this course, students will be able to-

Course Outcome	Course Outcome	Cognitive Level
PG-ECO-304 B.1	Use data to construct economic arguments and understand the research problems associated with interpreting the results.	6
PG-ECO-304 B.2	Use various methods along with the economic models to assess the validity of various economic and policy-relevant arguments.	5
PG-ECO-304 B.3	Understand the role of sample selection/indignity in affecting results and how one might best correct these issues.	2

PG-ECO – 304 C: Principles of Banking and Finance

Course Objectives (Cobs):

- To understand Banking structure, Commercial banks, Regional Rural Banks, and Cooperative Banking in India.
- To relate Reserve Bank of India, Important Functions of RBI.
- To evaluate Financial Institutions and Markets.
- To express financial sector reforms in India

Unit 1 Banking Structure

Hrs.-15

- 1.1 Functions of modern commercial Bank –
- 1.2 Structure of Banking system in India.
- 1.3 System of Banking: Group Banking, Chain Banking, Unit Banking, Branch Banking.
- 1.4 Banking Operations- Prudential norms, classification of assets, provisioning requirement of assets, disclosure standards, risk management system.
- 1.5 Priority sector advances.
- 1.6 NPA

Unit 2 Reserve Bank of India

Hrs.-15

- 2.1 RBI – Objective Organization, nationalization of RBI.
- 2.2 Function of RBI.
- 2.3 Recent monetary policy of RBI
- 2.4 Role of RBI in Economic Development
- 2.5 Challenges to RBI Autonomy
- 2.6 Regulation of banking, Non-banking financial Institution by RBI.

Unit 3 Regional Rural Banks and Co-operative Banking in India

Hrs. 15

- 3.1 Regional rural Banks – Objective, Function, Achievement and weaknesses.
- 3.2 Co-Operative Bank – Meaning Structure and Development of Co-Operative Bank.
- 3.3 Objective and Function of rural and urban Co-Operative Bank. (State Co-Operative Bank, District Co-Operative Bank, Urban Co-Operative Bank, Janata Co-Operative Bank)
- 3.4 Co-Operative credit society's types and progress.
- 3.5 NABARD – objective, function and Role in rural development

Unit 4 Banking Sector Reforms in India

Hrs.-15

- 4.1 Banking Reform since 1991- Narsimha Committee Report-I & II
- 4.2 Reforms in Banking Sector: Prudential regulation and supervision, Rehabilitation of Nationalized Public sector Banks, Reduction in the SLR and CRR, Deregulation of Instant Role promoting competition phasing out of Directed credit Base Rate Banking laws (Amendment) Act-2012.
- 4.3 New Technology in Banking Sector – Importance and Benefits of N.T.
- 4.4 Computerization of Banking - Core Banking, Net Banking, Tele Banking, Mobile Banking

4.5 Bank Services - ATM, Credit and Debit Cards, EFT, NEFT, RTGS, ECS, NSS, E purchase, E-money, electronic fund Transfer at Point of Sale, EFTPOS)

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Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-304. C 1	Students will be able to explain Banking structure, Commercial banks, Regional Rural Banks, and Co-operative Banking in India.	3
PG-ECO-304. C 2	Students will be able to understand the Reserve Bank of India and its Important Functions of RBI.	2
PG-ECO-304. C 3	Students will be able to comprehend Financial Institutions and Markets.	3
PG-ECO-304. C 4	Students will be able to analyze financial sector reforms in India.	4

PG-ECO-304: D URBAN ECONOMICS

Course Objectives (CObs):

- Discuss Dimensions of Urban Development.
- To understand the relation between Development and Planning.
- Discuss Recent Urban Problems and Recent Programmes of Urban Development.

Unit 1 Urbanisation and Human Settlement Hrs. 15

1.1 Urbanization: Meaning – World Urbanisation

Urbanization in India; urban size and growth - Pattern of urbanization

1.2 Urban morphology- factors of urbanization

1.3 Human Settlements: urban spatial structure

1.4 Agglomeration economics – urban sprawl

Unit 2 Economics of City Size Hrs. 15

2.1 Smart city: Concept – Problems and Prospects

2.2 Market forces in the development of cities- the size of the city

2.3 Economics of location: Central place theory-Industrial location theory

2.4 Economic base theory and economic base multiplier

Unit 3 Urban Problems Hrs. 15

3.1 Housing and Slums -Drinking Water - Sanitation system

3.2 Urban crime-- Poverty and inequality – The urban quality of life measurement

3.3 Transport and Communication

3.4 Urbanization and Climate change

Unit 4 Urban Planning and Management Hrs. 15

4.1 Concept of town and urban planning–Urbanization Policy–Role of realestate

4.2 Financing of urban infrastructure: Municipal bonds

4.3 Role of civil society in Planning and Management

4.4 Urban Local government – Role – revenue sources - Municipal Administration

REFERENCES:

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11. Mohan, R. (1979), Urban Economics and Planning Models, John Hopkins University.

Course Outcomes (COs):

After completion of this course, students will be able to-

Course Outcome	Course Outcome	Cognitive Level
PG-ECO304 D.1	Students will be able to understand the dimensions of Urban Development.	2
PG-ECO304 D.2	Will understand the relation between Development and Planning.	2
PG-ECO304 D.3	Will acquire knowledge on Recent Urban Problems and Recent Programmes of Urban Development.	3

PG-ECO-401: Monetary Economics-II

Course Objectives (COBs):

- To identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.
- Discuss the linkages between financial markets and the real economy, and how these linkages influence the impact of economic policies over different time horizons.
- To describe the main macroeconomic theories of short term fluctuations and long term growth in the economy.

Unit 1 Trade Cycle

Hrs.15

- 1.1 Trade Cycle – Meaning, Types and Stages.
- 1.2 Theories of Trade Cycle – Hawtrey, Hayek, Schumpeter, Keynes, Friedman, Samuelson, Hicks, and Kaldor Theory of Trade Cycle.
- 1.3 Measures to Control Trade Cycle – Monetary Policy, Fiscal Policy.

Unit 2 Inflation and Deflation

Hrs.15

- 2.1 Inflation – Meaning Types, Inflationary Gap.
- 2.2 Deflation – Meaning, Deflationary Gap.
- 2.3 Theories of Inflation – Demand-Pull Inflation, Demand Push Inflation, Mixed Theory, Sectoral Structural, Mark up Inflation.
- 2.4 Philips Curve – Relation between unemployment and Inflation. Long-run and short-run Philips's curve, Rational Expectation, Policy Implications of the Philips Curve, Stagflation.
- 2.5 Inflation, Deflation – Causes, Effects.

Unit 3 Monetary Policy

Hrs.15

- 3.1 Monetary Policy – Meaning Goals, Tradeoff in Monetary Goals, Targets.
- 3.2 Monetary Policy – Expansionary, Restrictive, Role of Monetary Policy in Developing Countries.
- 3.3 Monetary Policy – Views of Classical, Keynesian and Modern, Time Lags in Monetary Policy.
- 3.4 Monetary Transmission Mechanism – Classical Theory, Keynesian Theory, Monetarist Theory, Neo-Keynesian Theory.

Unit 4 Monetarist V/S Keynesianism

Hrs.15

- 4.1 Monetarist Revolution – Meaning, Features.
- 4.2 Fiscal Policy – Objective, Instruments.
- 4.3 Co-ordination between Monetary and Fiscal Policy – Swan Model, Mundellian Model.
- 4.4 Monetarist V/S Keynesianism – Theoretical differences, Policy differences.
- 4.5 Crowding out effect – Types, Fiscal Policy, Roosa Effect.
- 4.6 Rational Expectation – Rational expectation, Hypothesis.
- 4.7 International Monetary System- Present International systems, reforms in international systems, Cryptocurrency.

REFERENCES:-

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2. Miskin F (2003) The Economics of Money: Banking and Financial Market, Addison Wesley Longmate, New York.
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Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-401.1	Students will be able to critically evaluate the consequences of basic monetary policy and fiscal policy under differing economic conditions.	5
PG-ECO-401.2	Students can identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.	1
PG-ECO-401.3	Students will be able to discuss the linkages between financial markets and the real economy, and how these linkages influence the impact of economic policies over different time horizons.	2
PG-ECO-401.4	Able to describe the main macroeconomic theories of short term fluctuations and long term growth in the economy.	2

PG-ECO 402: Economics Development and Growth-II

Course Objectives (COBs):

- To furnish the students with development theories.
- To highlight the classical new classical and modern approaches toward development.
- Emphasis will be on economy-wide aspects of economic development.

Unit 1 Concept of Economic Growth 14 Hrs.

- 1.1 Economic growth - Meaning Indicators, Determinant Factors of Economic Growth
- 1.2 Features of Modern Economic Growth, Economic Growth and Social Justice
- 1.3 Self-Reliance and Indian Economic growth, Impact of COVID on Economic Growth
- 1.4 Obstacles in Economic Growth

Unit 2 Some Growth Models- I 16 Hrs.

- 2.1 Classical Models (Growth Theories) - Adam Smith, Karl Marx and Schumpeter
- 2.2 Neoclassical Models (Growth Theories) - Meads and Solow Models, critical Evaluation of Neoclassical Models
- 2.3 The stages theory of Economic growth
- 2.4 Keynesian Theory of underdeveloped countries. Essence and Relevance of Keynesian theory and Post Keynesian phases, steady states and stability
- 2.5 Harrods model of Economic Growth, Domars Model of Economic Growth

Unit 3 Some Growth Models- II 14 Hrs.

- 3.1 Lewis Theory of Unlimited supply of Labour
- 3.2 The Kaldors Model of Distribution
- 3.3 Mrs. Joan Robinsons Model of Capital Accumulation
- 3.4 A.K. Sen's Model - Explanations of cross country. Differentials in Economic growth

Unit 4 Technological Change and Investment Criteria 16 Hrs.

- 4.1 Institutions and Economic growth
- 4.2 Contribution of Technology to Growth
- 4.3 Choice of Techniques
- 4.4 Hicks and Harrod's views on Neutrality
- 4.5 Investment Criteria – Meaning
 - 4.5.1 Marginal Social Productivity Criteria Rate of return criteria
 - 4.5.2 Objectives of Factor allocation of Investment

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1. Puri V.K. and Mista S.K. Indian Economy 39th Revised & updated Edition - Himalaya Publishing House (2021)
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Course Outcomes (COs):

After completion of this course, students will be able to-

Course Outcome	Course Outcome	Cognitive Level
PG ECO302.1	Students will get knowledge about essential tools and concepts of development economics, to prepare them to understand what makes underdevelopment persist and what helps development succeed.	2
PG ECO 302.2	Students will acquire knowledge of the principal issues of economic development to prepare students for advanced study and policy-oriented research in this subject area.	3
PG ECO 302.3	Emphasis will be on economy-wide aspects of economic development.	3

PG-ECO -403: International Economics-II

Course Objectives (Cobs):

- To understand free trade and protection policy, Tariff, Dumping etc.
- Discuss on causes of adverse Balance of Payment and measures to correct adverse Balance of Payment.
- To understand the adjustment mechanism of the Balance of Payment.
- To understand the theories of Foreign Exchange Rate.
- Discuss various issues related to foreign capital, foreign aid, MNCs etc.
- To understand the new international economic order and international debt problem.

Unit 1 International Trade Policy Hrs.15

- 1.1 Free Trade- Meaning, Arguments for free Trade, Arguments Against Free Trade
- 1.2. Protection - Meaning, Arguments for Protection Infant Industry arguments, Elimination of distortions argument, Employment Arguments, Anti-dumping Argument, Balance of payment Argument, Terms of trade Arguments, Revenue Argument, Proper labour Argument
- 1.3 Protection and less Developed countries.
- 1.4 Tariffs-Meaning, Types, Effects of Tariffs under Partial Equilibrium, and General equilibrium
- 1.5 Non Tariffs- Imports Quota (Meaning, objectives, Types, Effects of Quota)
- 1.6 Dumping - Meaning, Types, objectives, Price Determination under Dumping, Effect of Dumping, Anti-Dumping measures.

Unit 2 Balance of payments Hrs.15

- 2.1 Balance of payment – Meaning, components, Disequilibrium, and causes of Adverse in BOP and Measures to Correct Adverse in BOP.
- 2.2 Adjustment Mechanisms Of Balance of Payment - BOP adjustment under Gold Standard, flexible exchange system, Devaluation and Bop adjustment.
- 2.3 Approaches of Bop Adjustment – Elasticity approach, Marshall Lerner Condition, J-‘curve’ effect
- 2.4. Policy to adjustment in the BOP. Expenditure Policy, monetary approach Absorption approach, Direct Control, monetary Fiscal mix- swan Model, Mundellian Model

Unit 3 Foreign Exchange Rate Hrs.15

- 3.1 Foreign Exchange Rate - Meaning, Instruments, Types of Exchange Rate
- 3.2 Foreign Exchange market - Meaning, functions
- 3.3 Theories of Exchange Rate - Equilibrium exchange rate, Mint Parity theory, Purchasing Power Parity theory, Balance of Payment theory,
- 3.4 Causes of changes in the exchange rate.
- 3.5 Devaluation - Meaning, effects, and Conditions.
- 3.6 Theories of Optimum Currency Area- Mundell, Mckinnon, Kennen, Magnifico, Woods's theory General Theory Merits -Demerits of OCA

Unit 4 New International Economic order Hrs.15

- 4.1 New International Economic order - Meaning, Basis, Need, objectives and features
- 4.2. Implications of the NIEO Programme
- 4.3 Advance towards NIEO- An Assessment
- 4.4 Crisis in the NIEO (1997-98 and 2008) Causes and efforts to solve the Crisis
- 4.5 International Debt Problem - Magnitude causes, Debt Relief measures.

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Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-403.1	Students will be able to discuss the major economic theories of international trade, to analyze the economic implications of alternative trade policies.	2
PG-ECO-403.2	Students will be able to identify major economic characteristics of selected world regions.	1
PG-ECO-403.3	Students will be able to trace the origins of various processes of international (global or regional) economic integration and discuss their implications for the international patterns of productive specialization.	2
PG-ECO-403.4	Students will be able to discuss the major economic theories of international trade and analyze the economic implications of alternative trade policies.	2

PG-ECO -404 A: Econometrics-II

Course Objectives (Cobs):

- To elaborate on students about the dynamic econometric models.
- To equip students to identify and solve the simultaneous equation models
- To develop an understanding of learners in time series analysis.
- To familiarize students with panel data techniques.

Unit 1: Dynamic Econometric Models

Hrs.15

- 1.1 Concept of lag and reasons for lags in regression.
- 1.2 Autoregressive and distributed lag models.
- 1.3 Koyak distributed-lag model.
- 1.4 Adaptive Expectations and Partial Adjustment model.
- 1.5 Almon approach to the distributed-lag model.
- 1.6 Instrumental variables.

Unit 2: Simultaneous Equation Models

Hrs.15

- 2.1 Introduction and Examples.
- 2.2 The Simultaneous Equation Bias and Inconsistency of OLS Estimators.
- 2.3 Structural form and Reduced form model.
- 2.3 The Identification Problem and Rules of Identification.
- 2.5 Methods of Estimating Simultaneous Equation System: Recursive Methods, Indirect Least Squares (ILS) and 2SLS Method.

Unit 3: Time Series Analysis

Hrs.15

- 3.1 Introduction to Time Series Analysis and Data.
- 3.2 Stationary Stochastic Process: Weakly Stationarity and Strongly Stationarity.
- 3.3 Non-stationary Stochastic Process: Unit Root Process and Random Walk model; Dickey-Fuller test, Co-integration -Engle-Granger test, spurious regression.
- 3.4 Integrated Stochastic Process
- 3.5 Forecasting with ARIMA modelling, Box-Jenkins methodology and Vector Auto-Regression (VAR).

Unit 4: Panel Data Techniques

Hrs.15

- 4.1 Panel Data: Meaning and Necessity
- 4.2 Panel Data and Illustrative Examples
- 4.3 Estimation of Panel Data Regression Model: Fix Effects Approach
- 4.4 Estimation of Panel Data Regression Model: Random Effect Approach

REFERENCES:

1. Anderson, T.W. (1958), Introduction to Multivariate Statistical Analysis, Chapman and Hall, London
2. Koutsoyiannis (2007), Theory of Econometrics (5th edition), The Macmillan Press Ltd., London
3. Krishna, K. L. (1997), Econometric Applications in India, Oxford University Press, New Delhi
4. Maddala, G. S. (2007), Econometrics, McGraw Hill, New York
5. Gujarati, D. N. (2007), Basic Econometrics (4th Edition), Mc Graw Hill, New Delhi
6. Gujarati, D. N., Dawn C. Porter (2009), Basic Econometrics (6th Edition), McGraw Hill, New Delhi
7. Maddala, G. S. (2007), Econometrics, McGraw Hill, New York.
8. Madhani G.M.K.(2006) Introduction to Econometrics Principles and Applications, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi

Course Outcomes (Cots) :

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-404. A 1	Students would understand the use of dynamic econometric models.	2
PG-ECO-404. A 2	Students will identify and solve the simultaneous equation models.	3
PG-ECO-404. A 3	Understanding of learners in time series analysis will be developed.	4
PG-ECO-404. A 4	Learners will be familiar with the panel data techniques.	2

PG-ECO-404: B Research Methodology for Economics-II with Project

Course Objectives (COs):

- Use data to construct economic arguments and understand the research problems associated with interpreting the results.
- Use various methods along with the economic models to assess the validity of various economic and policy-relevant arguments.
- Understand the role of sample selection/indignity in affecting results and how one might best correct these issues.

Unit 1 Data Collection and Data Analysis Hrs: 15

- 1.1 Questionnaire Method, Meaning, Types, Merits & Demerits
- 1.2 Interview Method-Meaning, Types, Merits & Demerits, Precautions are taken for Interview
- 1.3 Observation-Meaning, Types, Merits & Demerits, Precautions are taken for Observation
- 1.4 Problem of Measurement in Economic Research.

Unit 2 Data Processing, Tabulation, and Representation-I Hrs: 15

- 2.1 Concept of Data Processing
- 2.2 Fieldwork Validation, Data Editing and Coding, Index Numbers
- 2.3 Classification of data: Meaning Functions
- 2.4 Tabulation: Meaning, Parts of Table, Requisite of Good Table & Types of Tables

Unit 3 Data Processing, Tabulation, and Representation- II Hrs: 14

- 3.1 Diagrammatic Presentation: Types of Line, Bar, & Pie Diagrams
- 3.2 Analysis of Data & its Interpretation.
- 3.3 Statistical Techniques used for Data Analysis, Interpretation of Data, Use of Computers.
- 3.4 Elements /Types of Data Analysis

Unit 4 Hypothesis Testing & Report Writing Hrs: 16

- 4.1 Tests of significance, level of significance,
- 4.2 Type I and Type II errors,
- 4.3 Hypothesis testing based on t, χ^2 (Chi-square) and F tests
- 4.4 Report writing- Types of Research Reports
- 4.5 Elements of Research Report.

*** Internal Examination 40 Marks is based on Project.**

REFERENCES: -

1. G. C. Ramamurthy, Research Methodology, Kogent Learning Solution, New Delhi.
2. Kothari- C. R. Research Methodology, Methods and Techniques – Willey Eastern Ltd., 1988.
3. Krishnaswmy, O.R. and Ranganathan, M. (2005) Methodology of Research in Social Research.
4. Lundberg, George A.: Social Research, Long mans, Green and Co., New Delhi.
5. बोराडे रा.र. संशोधन पद्धतीशास्त्र, पुणे विद्यार्थीगृह प्रकाशन, सप्टेबर २००५.
6. डॉ. आगलावे प्रदीप, सामाजिकशास्त्र संशोधन शास्त्र व तंत्रे, श्री साईनाथ प्रकाशन, नागपूर, तिसरी आवृत्ती २०१०.
7. पाटील ज.फा., के. जी. ताम्हणकर पी., अर्थशास्त्रीय संशोधनाची ओळख, कॉन्टीनेंटल प्रकाशन, पुणे, प्रथमआवृत्ती१९७९.

Course Outcomes (COs):

After completion of this course, students will be able to-

Course Outcome	Course Outcome	Cognitive Level
PG-ECO-404 B.1	Use data to construct economic arguments and understand the research problems associated with interpreting the results.	6
PG-ECO-404 B.2	Use various methods along with the economic models to assess the validity of various economic and policy-relevant arguments.	5
PG-ECO-404 B.3	Understand the role of sample selection/indignity in affecting results and how one might best correct these issues.	2

PG-ECO – 404 C: Indian Financial Market

Course Objectives (Cobs):

- To understand The Indian Financial market.
- To relate The Money Market, Primary Market, Secondary Market.
- To evaluate Reforms in Indian Financial System
- To express Mutual Funds and Other Services

Unit 1 Financial System in India

Hrs.-15

- 1.1 Structure of financial system.
- 1.2 Financial system and economic development
- 1.3 Functions of the financial system.
- 1.4 Key elements of a well-functioning financial market
- 1.5 Nature & Role of Financial Institutions and financial market.

Unit 2 Money Market

Hrs.-15

- 2.1 Introduction to Money Market
- 2.2 Institution and Instruments of Money Market
- 2.3 Significance of Money Market
- 2.4 Characteristics of Developed and Underdeveloped Money Market
- 2.5 Defects of the Indian Money Market
- 2.6 Suggestions for improvement in the Indian Money Market
- 2.7 Recent Reforms in the Indian Money Market

Unit 3 Capital Market

Hrs.-15

- 3.1 Nature, structure, Instruments and Features of Indian Capital Market.
- 3.2 Stock market in India: N.S. E., B.S.E., O.T.C.E.I. Function, Role, Progress and Problems.
- 3.3 Equity market.
- 3.4 Corporate Bond Market in India.
- 3.5 Derivate Market in India. i) Meaning, Development of the Derivatives Market, Function and Regulations ii) Forex Derivatives: Meaning, Development, Functions & Regulations. iii) Rupees Interest Rate Derivatives Meaning, Development, Functions & Regulations. iv) Commodity derivatives market in India: Evolution, Structure, Mechanism, Function& Regulation.
- 3.6 S.E.B.I.: Functions and Its Impact on Capital Market.
- 3.7 Securities Depository in India: Importance, Functions and Problems.
- 3.8 Credit Rating Services: Meaning, Need, Benefits & Rating Agencies in India. (CRISIL, ICRA, CARE)

Unit 4 Financial Services

Hrs.-15

- 5.1 Leasing
- 5.2 Hire-Purchase.
- 5.3 Factoring and Forfeiting
- 5.4 Housing finance
- 5.5 Venture capital financing.

REFERENCES:

1. Shekhar K.C., (2013) Banking Theory and practices, Vikas Publishing House Pvt.Ltd., New Delhi
2. Agrawal O.P., Modern Banking of India, Himalaya Publishing House, Mumbai
3. Mujumdar N.C., (2013) Modern Banking, New Central Book Agency (P)Ltd., Kolkata.
4. Bhole L.M., (1982) Financial Market and institutions, Tata McGraw- Hill Publishing Co. Ltd. New Delhi.
5. Babu Ramesh (2010) Indian Financial System, Himalaya Publishing House, Mumbai.
6. Joshi V. N. (2013) E- Banking in India., Garima Prakashan, Kanpur.21.
7. Gordon, Natarajan (2010) Financial Market and Services, Himalaya Publishing House, Mumbai.
8. Bhasin Niti (2009) Monetary, Banking and Financial Development in India. New Century Pub.New Delhi.
9. Kothari Rajesh (2010) Financial Services in India, Sage pub. New Delhi.
10. Ramchandran, banking WWW.mjppublishar.com
11. Parameswaran, Indian Banking S. Chand and Co. N.D.
12. Perminder Khanna (Vol I and II) Advanced study in money and Banking. Atlantic Publisher. N.D.
13. Bharati Pathak (2014) The Indian financial system, Person N.D.
14. Khan, (Fifth Edition) financial services The McGraw Hill
15. Vasant Desai, the Indian Financial system and development, Himalaya Publishing House, Mumbai.
16. Gaurav Datta and Mahajan (Latest Edition) Indian Economy, S. Chand and Co. N.D.
17. Mishra and Puri (Latest Edition) Indian Economy Himalaya Publishing House, Mumbai.
18. Kolate S.M. (2014) Indian banking System (Marathi) Prashant Pub. Jalgaon.
19. Chavhan N.L. (2019) Principle and Practices of Banking, Prashant Publication Jalgaon.
20. Chavhan N.L. (2020) Modern Banking and Indian Financial Market (Marathi) Prashant Publication Jalgaon
21. Chavhan N.L. (2022) Financial Markets and Institutions in India, Prashant Publication Jalgaon.

Course Outcomes (Cots):

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-404. C 1	Students will be able to explain The Indian Financial market	2
PG-ECO-404. C 2	Students will be able to understand The Money Market, Primary market, Secondary market	2
PG-ECO-404. C 3	Students will be able to comprehend Reforms in Indian Financial System	2
PG-ECO-404. C 4	Students will be able to analyze Mutual Funds and Other	3

	Services	
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PG-ECO – 404 D: Labour Economics

Course Objectives (COs):

- To understand Issues about the labour market, wage theories, employment policies trade unions and collective bargaining in the globalized economy have become vitally important for developing countries.
- In a country like India where the bulk of the labour force is in the unorganized sector and the organized sector is witnessing “Jobless” growth.
- This paper exposes students to theoretical as well as empirical issues relating to the labour market with special reference to India.

Unit 1 Introduction to Labour

Hrs. 15

- 1.1 Meaning and concepts of Labour, significance and Peculiarities of Labour
- 1.2 Labour Economics: Definition, Nature, scope and importance of Labour Economics
- 1.3 Characteristics of Industrial and Agricultural Labour in Developing countries.
- 1.4 Labour Problems in the developing countries.

Unit 2 Labour Market and Policies

Hrs. 15

- 2.1 Labour Market, Nature and characteristics.
- 2.2 Demand for Labour about size Pattern of investment.
- 2.3 Choice of technologies and Labour Policies
- 2.4 Supply of Labour, Growth of Labour force, Labour Market Policies
- 2.5 Mobility of Labour meaning occupational and geographical mobility
- 2.6 Impact of mechanization on Agriculture Labour

Unit 3 Employment and wage determination

Hrs.15

- 3.1 Employment and development relationship
- 3.2 Poverty and unemployment
- 3.3 Unemployment - Types concepts and measurement Employment Policy
- 3.4 Wage Determination- Classical, Neo-Classical and bargaining theories
- 3.5 concepts of Minimum Wage and efficiency Wage
- 3.6 Productivity and Wage relationship

Unit 4 Women and Child Labour

Hrs. 15

- 4.1 Main features of Women Labour and child labour
- 4.2 Women and child Labour Participation in organized and unorganized sectors

4.3 Main Problems of Women Labour in India

4.4 Causes of Employment of children.

4.5 factors Affecting Employment of Women Labour

4.6 Legislative measures for Welfare and Protection for Women and Child Labour in India

Reference

1. Bhagoliwal T. N. Economics of Labour and industrial relations, Sahitya Bhavngar (2002)
2. Roy B Helfgott: Labour Economics. Random House New York (1973).
3. Punekar S. D Deodhar S.B, Saraswati Sankaran, Labour Welfare Trade Union and Industrial Relations Himalaya Publishing House, New Delhi (2012)
4. Bazen Stephen (2011). Econometric methods for Labour Economics, Oxford, UK
5. Jabwala R and R. K Subrahmanyam [Eds] [2000] The Unorganized sector: Work Security and Social Protection Sage Publishers, New Delhi.
6. Papola T-S and Sharma, AN [Eds] [1999] Gender and Employment in India, Vikas Publishing House, New Delhi
7. Sharma A. N. and A. Kundu [Ed] [2001] informal sector in India: Emerging Perspectives institute for Human Development New Delhi
8. Smith Stephen W. [2003] Labour Economics Routledge, USA

Course Outcomes (Cots):

After completion of this course, students will able to-

Course Number	Course Outcomes	Cognitive Level
PG-ECO-404. D 1	Students will be able to understand Issues about the labour market, wage theories, employment policies trade unions and collective bargaining in the globalized economy have become vitally important for developing countries.	2
PG-ECO-404. D 2	Students will be able to understand the labour force is in the unorganized sector and the organized sector is witnessing “Jobless” growth.	2
PG-ECO-404. D 3	This paper will offer exposure to the students to theoretical as well as empirical issues relating to the labour market with special reference to India.	4

AUDIT COURSES
SEMESTER-I
(Compulsory Course: Campus-level)
PG-AC-101: Practicing Cleanliness

Course Objectives (CObs):

To make students aware of Clean India Mission and inculcate cleanliness practices among them

-
- Awareness programme on
 - Swachh Bharat Abhiyan (Clean India Mission)
 - Clean Campus Mission
 - Role of youth in the Clean India Mission
 - Cleaning activities inside and surroundings of Department buildings.
 - Tree plantation and further care of planted trees
 - Waste(Liquid/Solid/e-waste) Management, Japanese 5-S practices
 - Planning and execution of a collection of Garbage from different sections of the University campus
 - Role of youth in power saving, pollution control, control of global warming, preservation of groundwater and many more issues of national importance.
 - Cleanest School/Department and Cleanest Hostel contests
 - Painting and Essay writing competitions
-

Course Outcomes (COts):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
PG-AC101.1	Identify the front of cleanliness at home/office and other public places.	02
PG-AC101.2	Plan and observe cleanliness programmes at home and other places.	02
PG-AC101.3	Practice Japanese 5-S practices in regular life	03

SEMESTER-II
(Optional: Campus-level)
(Personality and Cultural Development Related)

PG-AC-201(A): Soft Skills

Course Objectives (COs):

To inculcate different soft skills among students

Unit 1. Introduction to soft skills (02 Hrs)

Formal definition, Elements of soft skills, Soft vs. Hard skills, Emotional quotient, Goal setting, life skills, Need for soft skills, Communication skills, etiquette & Mannerism.

Unit 2. Self-Assessment (04 Hrs)

Goal setting, SWOT analysis, attitude, moral values, self-confidence, etiquette, non-verbal skills, achievements, positive attitude, positive thinking and self-esteem.

Activity: The teacher should prepare a questionnaire which evaluates students in all the above areas and make them aware of these aspects.

Unit 3. Communication Skills (08 Hrs)

Types of communication: Verbal, Non-verbal, body language, gestures, postures, gait, dressing sense, facial expressions, the peculiarity of the speaker (habits).

Rhetoric speech: Prepared speech (topics are given in advance, students get 10 minutes to prepare the speech and 5 minutes to deliver, Extempore speech (students deliver speeches spontaneously for 5 minutes each on a given topic), Storytelling (Each student narrates a fictional or real-life story for 5 minutes each), Oral review (Each student orally presents a review on a story or a book read by them)

Drafting skills: Letter, Report & Resume writing, business letters, reading & listening skills

Activity: The teacher should teach the students how to write a letter, report and build resumes. The teacher should give proper format and layouts. Each student will write one formal letter, one report and a resume.

Unit 4. Formal Group Discussion, Personal Interview & Presentation skills (04 Hrs)

Topic comprehension, Content organization, Group speaking etiquettes, driving the discussion & skills.

Preparation for personal interview: dress code, greeting the panel, crisp self-introduction, neatness, etiquettes, language tone, handling embarrassing & tricky questions, graceful closing.

Activity: Each batch is divided into two groups of 15 to 14 students each. Two rounds of a GD for each group should be conducted and the teacher should give them feedback. Interviews are to be conducted.

Unit 5. Aptitude and analytical skills (08 Hrs)

Quantitative aptitude, Numerical reasoning, verbal reasoning, diagrammatic test, situational tests, logical thinking.

Analytical skills: Definition, Types, problem-solving

Unit 6. Life skills (04 Hrs)

Time management, critical thinking, sound and practical decision making by dealing with conflicts, stress management, leadership qualities

Activity: The teacher can conduct a case study activity to train students in decision-making skills. The teacher should conduct a session on stress management and guide students on how to manage stress. The teacher may conduct stress-relieving activities in the class. He/she may counsel students individually to know their problems and guide them to deal with them effectively.

Books:

1. Basics of Communication in English: Francis Sounderaj, MacMillan India Ltd.
 2. English for Business Communication: Simon Sweeney, Cambridge University Press
 3. An Introduction to Professional English and Soft Skills: Das, Cambridge University Press
 4. Quantitative Aptitude: R.S. Agrawal
-

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
PG-AC 201A.1	Identify their lacunas about some soft skills and try to overcome the same.	02
PG-AC 201A.2	Practice learned soft skills in real life and do their jobs more effectively	03
PG-AC 201A.3	Identify their lacunas about some soft skills and try to overcome the same.	02

PG-AC-201(B): Practicing Sports Activities

Course Objectives (COs):

To motivate students toward sports and provide therewith required training

SR NO.	NAME OF THE SPORT/GAME (Select ONE of the Following)	SYLLABUS OF THE COURSE	TIMING (02 Hours in a Week)	SEMESTER
1	Volleyball	<ul style="list-style-type: none">• General Fitness• Basic Fitness• Specific Fitness• History of the Game• Basic Skill of the Game• Major Skill of the Game• Technique & Tactics of the Game• Game Practice	Morning: 07 to 09 AM OR Evening: 05 to 07 PM	Total 30 Hours in Each Semester
2	Athletics			
3	Badminton			
4	Cricket			
5	Basketball			
6	Handball			
7	Kabaddi			
8	Kho-Kho			
9	Table-Tennis			
10	Swimming			

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
PG-AC201B.1	Identify one or more sports of their choice and develop more interest to participate in University/National level sports events.	02
PG-AC201B.2	Practice the learned sports activities regularly in real life	03

PG-AC-201(C): Practicing Yoga

Course Objectives (COs):

To motivate students toward yoga and provide the required training

-
- Yog :Meaning, Definition & Introduction, Objectives
 - Primary Introduction of Ashtanga Yoga
 - Preparation of Yogabhyas
 - Omkar Sadhana, Prayer, Guru Vandana
 - Sukshma Vyayamas
 - Suryanamaskar(15 Postures)
 - Asanas :
 - Sitting (Baithaksthiti) - Vajrasana, Padmasan, Vakrasan, Ardha-Pashchimotanasanan
 - Supine (Shayansthiti) - Uttan Padaasan(Ekpad/Dwipad), Pavanmuktasana, Viparitarani Aasan, Khandarasan, Shavasana
 - Prone (Viparitshayansthiti) - Vakrahasta, Bhujangasana, Saralhasta Bhujangasana, Shalabhasana(Ekpad/Dwipad), Makarasana
 - Standing (Dhandsthiti) - Tadasana , TiryakTadasana, Virasana, Ardh Chakrasana
 - Primary Study of Swasana: Dirghaswasana, Santhaswasana, JaladSwasana - 6 Types
 - Pranayama : Anuloma-viloma, Bhramari
-

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
PG-AC 201C.1	Identify and practice some Yoga asanas regularly in their life to remain healthy.	02
PG-AC 201C.2	Provide guidance and practice about Yoga to their friends, parents and relatives.	02

PG-AC-201(D): Introduction to Indian Music

Course Objectives (COs):

To motivate students toward Indian music and provide the minimum required training

-
- Definition and brief about generation of Swar, Saptak, Thaata, Raaga, Aavartan, Meend, Khatka, Murkee, Taal, Aalaap etc.
 - Taal and its uses - Treetaal, Daadraa, Zaptaal, Kervaa.
 - Information of Badaakhyaal, Chhotaakhyaal (one), Sargam, Lakshangeet (information)
 - Detailed information on Tambora
 - Detailed information on Harmonium and Tabla.
 - Five filmy songs based on Indian Classical Music (Theory and Presentation)
 - Sound Management - Basic information on Sound Recording (including Practicals)
 - Composition of Music as per the Story
 - Preparing news write-ups of the Seminars, Library Musical Programmes held at the nearest Akashwani, by personal visits.
-

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
PG-AC 201D.1	Identify different types of music.	02
PG-AC 201D.2	Develop more interest to learn and practice Indian music.	05

SEMESTER-III
(Optional: Campus + School level)
(Technology + Value-added)

AC-301(A): Computer Skills
(Campus-level)

Course Objectives (CObs):

To inculcate different daily useful computer skills among students

Unit 1: Elements of Information Technology (02 Hrs)

- 1.1 Information Types: Text, Audio, Video, and Image, storage formats
- 1.2 Components: Operating System, Hardware and Software, firmware
- 1.3 Devices: Computer, Mobile Phones, Tablet, Touch Screen, Scanner, Printer, Projector, smart boards
- 1.4 Processor & Memory: Processor functions, speed, Memory types: RAM /ROM /HDD /DVD-ROM/Flash drives, memory measurement metrics

Unit 2: Office Automation-Text Processing (05 Hrs)

- 2.1 Views: Normal View, Web Layout View, Print Layout View, Outline View, Reading Layout View
- 2.2 Working with Files: Create New Documents, Open Existing Documents, Save Documents to different formats, Rename Documents, Close Documents
- 2.3 Working with Text: Type and Insert Text, Highlight Text, Formatting Text, Delete Text, Spelling and Grammar, paragraphs, indentation, margins
- 2.4 Lists: Bulleted and Numbered Lists,
- 2.5 Tables: Insert Tables, Draw Tables, Nested Tables, Insert Rows and Columns, Move and Resize Tables, Moving the order of the column and/or rows inside a table, Table Properties
- 2.6 Page Margins, Gutter Margins, Indentations, Columns, Graphics, Print Documents,
- 2.7 Paragraph Formatting, Paragraph Attributes, Non-printing characters
- 2.8 Types of document files: RTF, PDF, DOCX etc

Unit 3: Office Automation-Worksheet Data Processing (05 Hrs)

- 3.1 Spreadsheet Basics: Adding and Renaming Worksheets, Modifying Worksheets,
- 3.2 Moving Through Cells, Adding Rows, Columns, and Cells, Resizing Rows and Columns, Selecting Cells, Moving and Copying Cells
- 3.3 Formulas and Functions: Formulas, Linking Worksheets, Basic Functions, Auto Sum, Sorting and Filtering: Basic Sorts, Complex Sorts, Auto-fill, Deleting Rows, Columns, and Cells
- 3.4 Charting: Chart Types, drawing charts, Ranges, formatting charts

Unit 4: Office Automation- Presentation Techniques and slide shows (06 Hrs)

- 4.1 Create a new presentation, AutoContent Wizard, Design Template, Blank Presentation, Open an Existing Presentation, PowerPoint screen, Screen Layout
- 4.2 4.2 Working with slides: Insert a new slide, Notes, Slide layout, apply a design template, Reorder Slides, Hide Slides, Hide Slide text, add content, resize a placeholder or textbox, move a placeholder or text box, delete a placeholder or text box, Placeholder or Text box properties, Bulleted and numbered lists, Adding notes
- 4.3 Work with text: Add text and edit options, Format text, Copy text formatting, replace fonts, Line spacing, Change case, Spelling check, Spelling options
- 4.4 Working with tables: Adding a table, entering text, deleting a table, changing row width, adding a row/column, Deleting a row/column, Combining cells, Splitting a cell, Adding colour to cells, Aligning text vertically in cells, To change table borders, Graphics, Add clip art, Add an image from a file, Save & Print, slide shows, slide animation/transitions.

Unit 5: Internet & Applications: (04 Hrs)

- 5.1 Computer Network Types: LAN, PAN, MAN, CAN, WAN, Defining and describing the Internet, Brief history, Browsing the Web, Hypertext and hyperlinks, browsers, Uniform resource locator
- 5.2 Internet Resources: Email, Parts of email,
- 5.3 Protecting the computer: Password protection, Viruses, Virus protection software, Updating the software, Scanning files, Net banking precautions.
- 5.4 Social Networking: Features, Social impact, emerging trends, issues, Social Networking sites: Facebook, Twitter, LinkedIn, Orkut, online booking services
- 5.5 Online Resources: Wikipedia, Blog, Job portals, C.V. writing
- 5.6 e-learning: e-Books, e-Magazines, e-Newspapers, OCW (open course wares): Sakshat (NPTEL) portal, MIT courseware

Unit 6: Cloud Computing Basics (03 Hrs)

- 6.1 Introduction to cloud computing
- 6.2 Cloud computing models: SAS, AAS, PAS
- 6.3 Examples of SAS, AAS, PAS (DropBox, Google Drive, Google Docs, Office 365 Prezi, etc.)

References:

1. TCI, "Introduction to Computers and Application Software", Publisher: Jones & Bartlett Learning, 2010, ISBN: 1449609821, 9781449609825
 2. Laura Story, Dawna Walls, "Microsoft Office 2010 Fundamentals", Publisher: Cengage Learning, 2010, ISBN: 0538472464, 9780538472463
 3. June Jamrich Parsons, Dan Oja, "Computer Concepts Illustrated series", Edition 5, Publisher Course Technology, 2005, ISBN 0619273550, 9780619273552
 4. Cloud computing online resources
-

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC301A.1	Identify their lacunas in some computer skills and try to overcome the same.	02
AC301A.2	Practice the learned computer skills in real life and do their jobs more effectively	03

AC-301(B): Cyber Security (*Campus-level*)

Course Objectives (COs):

To make students aware of different daily useful cyber security skills/rules

Unit 1: Networking Concepts Overview (03 Hrs.)

Basics of Communication Systems, Transmission Media, ISO/OSI and TCP/IP models, Network types: Local Area Networks, Wide Area Networks, Internetworking, Packet Formats, Wireless Networks: Wireless concepts, Advantages of Wireless, Wireless network architecture, Reasons to use wireless, Internet.

Unit 2: Security Concepts (07 Hrs.)

Information Security Overview, Information Security Services, Types of Attacks, Goals for Security, E-commerce Security, Computer Forensics, Steganography.

Importance of Physical Security, Biometric security & its types, Risk associated with improper physical access, Physical Security equipment.

Passwords: Define passwords, Types of passwords, Passwords Storage – Windows & Linux.

Unit 3: Security Threats and vulnerabilities (07Hrs)

Overview of Security threats, Hacking Techniques, Password Cracking, Types of password attacks, Insecure Network connections, Wi-Fi attacks & countermeasures, Information Warfare and Surveillance.

Cyber-crime: e-mail related cyber-crimes, social network-related cyber-crimes, Desktop related cyber-crimes, Social Engineering related cyber-crimes, Network related cyber-crimes, Cyber terrorism, Banking crimes,

Unit 4: Cryptography (05 Hrs.)

Understanding cryptography, Goals of cryptography, Types of cryptography, Applications of Cryptography, Use of Hash function in cryptography, Digital signature in cryptography, Public Key infrastructure,

Unit 5: System & Network Security (03 Hrs.)

System Security: Desktop Security, email security: PGP and SMIME, Web Security: web authentication, Security certificates, SSL and SET, Network Security: Overview of IDS, Intrusion Detection Systems and Intrusion Prevention Systems, Overview of Firewalls, Types of Firewalls, VPN Security, Security in Multimedia Networks, Fax Security.

Unit 6: OS Security (02 Hrs.)

OS Security Vulnerabilities updates and patches, OS integrity checks, Anti-virus software, Design of secure OS and OS hardening, configuring the OS for security, Trusted OS.

Unit 7: Security Laws and Standards (03 Hrs.)

Security laws genesis, International Scenario, Security Audit, IT Act 2000 and its amendments.

References:

1. Skills Factory, Certificate in Cyber Security, Text Book Special edition, especially published for KBC NMU, Jalgaon
 2. BPB Publication, “Fundamentals of Cyber Security”, Mayank Bhushan, Rajkumar Singh Rathore, Aatif Jamshed
 3. CreateSpace Independent Publishing Platform, “Cyber Security Basics”, Don Franke, ISBN-13: 978-1522952190 ISBN-10: 1522952195
 4. Online references
-

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC301B.1	Practice learned cyber security skills/rules in real life.	03
AC301B.2	Explain/Guide cyber security skills/rules to their friends, parents and relatives	02

AC-301(C): Use of SPSS in Social Sciences
(School-level)

Course Objectives (COs):

To understand and use SPSS in social sciences.

- **Introduction to SPSS** - Meaning and purpose, using the windows in SPSS: Title Bar, Menu Bar, Tool Bar, Status Bar; Using SPSS windows: Data View, Variable View Open SPSS files, Create and Modify Data files and Load Excel files Coding. (05 Hrs.)
- **Data Management in SPSS (I)** - Data Modification: Recode Variables, create new variables, select cases, Split cases, Rank cases (05 Hrs.)
- **Data Management in SPSS(II)** - Visual Binning, Various transformations; logarithmic, inverse, cubic, quadratic etc. (05 Hrs.)
- **Descriptive Statistics (I)** - Frequency Tables, Descriptive Tables, Cross Tabulation, Multiple Responses (05 Hrs.)
- **Descriptive Statistics (II)** - Pie Charts, Box plots, Graphs with Chart Builder, Contingency Tables, Export to word processing programs. (05 Hrs.)
- **Testing Data** - Associations in contingency tables, binomial test, Types of t-tests, Analysis of Variance, Correlation, Regression Analysis, Factor analysis, ANOVA, Non-parametric techniques. (05 Hrs.)

References:

- Coakes, S.J., *SPSS Analysis without Anguish*, John Wiley and Sons, Australia, 2005
- Einspruch Eric L. (2004), “Next Steps with SPSS”, London/New Delhi, Sage Publication
- Einspruch Eric L. (2005), “An Introductory Guide to SPSS for Windows”, London/New Delhi, Sage Publication, 2nd Eds.
- Field, A., *Discovering Statistics Using SPSS*, Sage Publications Ltd, 2005.
- Gerber, S.B. and Finn, K.V., *Using SPSS for Windows-Data Analysis and Graphics*, Springer, USA, 2005
- Kirkpatrick, L.A. and Feeney, B.C., *A Simple Guide to IBM SPSS Statistics*, Cengage Learning, 2012.
- Pandya, K., Bulsari, S. and Sinha, S., *SPSS in Simple Steps*, Kogent Learning Solutions, dream tech Press, New Delhi, 2012.
- मॅनफ्रेडतेग्रोतेन्युईसआणिमॅथीज्सेन, (२०१७), “SPSS चेप्राथमिकपाठ” न्यूदिल्ली, सेजभाषापब्लिकेशन.

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC301C.1	Students will be able to understand the knowledge of SPSS.	02

AC301C.2	Justify Practical knowledge of SPPSS in research	05
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AC-301(D): Application of E-Learning

(School-level)

Course Objectives (COs):

To acquire knowledge and awareness about E-resources.

- Introduction to E-Learning -Meaning nature and scope of e-learning, Types of e-learning, Need importance of e-learning Limitations of e-learning. Hrs:05

- E-Resources - Definition and types of e-resources, eBook, Inflibnet, virtual Hours, Skype and video conferencing and a media. Hrs:05

- Strategy of e Learning-Advantages and disadvantages of e-learning. Hrs:05

- E-Governance - E-Governance an introduction, Government governance and democracy, ICT for development. Hrs:05

- E-Governance projects in India -Measures to be considered before going for e-governance, Challenges before the government and the governance. Hrs:05

- E-Commerce -Introduction to e-commerce and e-commerce activities, Marketing security & E-Payment system, Customer relationship management, Supply chain management and implementation of e-commerce. Hrs:05

References:

1. E-Government for Developing Countries: Opportunities and Challenges". The Electronic Journal on Information Systems in Developing Countries (EJISDC) 2004.
2. Teriz, N (2011). "The impact of e-commerce on international trade and employment" Procedia - Social and Behavioral Sciences. 24: 745–753.
3. Mayer, R. E. (2001). *Multimedia learning*. New York: Cambridge University Press.

Press. [ISBN 978-0-521-78749-9](https://doi.org/10.1016/B978-0-521-78749-9).

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC301D.1	Students will be able to understand the knowledge of E-learning.	02
AC301D.2	Develop of approach to E-learning in changing world	06

SEMESTER-IV

(Optional: Campus + School level)
(Professional and Social + Value Added Course)

AC-401(A): Human Rights (Campus-level)

Course Objectives (COs):

To make students aware of human rights and human values

Unit 1: Introduction to Human Rights

- 1.1 Concept of Human Rights
- 1.2 Nature and Scope of Human Rights
- 1.3 Fundamental Rights and Fundamental Duties
- 1.4 Interrelation of Rights and Duties

Unit 2: Human Rights in India

- 2.1: Meaning and Significance of:
- 1) Right to Equality 2) Right to Freedom, 3) Right against Exploitation, 4) Right to Freedom of Religion, 5) Cultural and Educational Rights, and
 - 6) Right to Constitutional Remedies.
- 2.2 Constitutional Provisions for Human Rights
- 2.3 Declaration of Human Rights
- 2.4: National Human Rights Commission

Unit 3: Human Values

- 3.1: Meaning and Definitions of Values
- 3.2: Importance of values in the life of an Individual
- 3.3: Types of Values
- 3.4: Programmes for conservation of Values

Unit 4: Status of Social and Economically Disadvantaged people and their rights

- 4.1: Rights of women and children in the context of Social status
- 4.2: The Minorities and Human Rights
- 4.3: Status of SC/ST and other Indigenous People in the Indian Scenario
- 4.4: Human rights of economically disadvantaged Society.

References:

- 1) Human rights education – YCMOU, Nasik
 - 2) Value education – SCERT, Pune
 - 3) Human rights reference handbook – Lucille whare
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Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC401A.1	Practice the learned issues under human rights and human values in real life.	03
AC401A.2	Provide social justice to people around them and guide human rights to their friends, parents and relatives.	02

AC-401(B): Current Affairs

(Campus-level)

Course Objectives (COs):

To make students updated about current affairs of India and the world

Unit. No.	Title	Content	Hours
Unit – I	Politics & Economy	<ul style="list-style-type: none">National & International Political Activity, Organization.Economy & Business, Corporate world	08
Unit – II	Awards and recognitions	<ul style="list-style-type: none">National & International Awards and recognitionsBooks and authors	07
Unit –III	Science & Technology	<ul style="list-style-type: none">Software, Automobile, Space ResearchNew inventions and discoveries	07
Unit – IV	Environment & Sports	<ul style="list-style-type: none">Summit & conference, Ecology & Climate, Organization.National & International Games, Olympics, commonwealth etc.	08
Total			30

Suggested Course Reading (Use recent years 'data and current literature):

1. India 2019, by Publications Division Government of India
2. Manorama Year Book by Philip Mathew,
3. India 2019, Rajiv Maharshi
4. Quick General Knowledge 2018 with Current Affairs Update, Disha Experts
5. General Knowledge 2018: Latest Who's Who & Current Affairs by RPH Editorial Board.

Course Outcomes (COs):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC401B.1	Identify important issues currently/ recently happening in India or the world.	02
AC401B.2	Summarize current affairs regularly	05

AC-401(C): Awareness and Development of Personality
(School-level)

Course Objectives (CObs):

To make aware of personality development.

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- Introduction to the concept of Personality and ‘The Self’ (05 Hours)
 - Managing Self: Acceptance, and Improvement Programme (05 Hours)
 - Introduction to the Life Skills and their development (05 Hours)
 - Development of Life Skills, Application of Life Skills (05 Hours)
 - Introduction to the Soft Skills and their Development (05 Hours)
 - External Aspects of Personality Development: (05 Hours)
-

References:

१. Ciccarelli, S., Psychology (South Asian Edition). New Delhi: Pearson Publication.
२. बर्वे बी., व्यक्तिमत्व विकास, विद्या प्रकाशन, नागपूर.
३. पाध्ये एस. व्यक्तिमत्व विकास, अभ्यासक्रम पुस्तिका, य.च.म.मु.वि.नासिक.

Course Outcomes (COts):

After the completion of the course, students will be able to;

Course Outcome	Course Outcome	Cognitive Level
AC401C.1	Understand concepts regarding self-personality	02
AC401C.2	The student will be able to develop his personality	06

AC-401(D): Recent Trends in Community Development (School-level)

Course Objectives (COs):

In the modern era, every student needs to understand basic concepts of Community development. On this streak, the objectives of the course are to:

- Provide basic knowledge on community development and their implications
- Understand various issues in community development.

- Introduction of Community and Community Development (5 Hours)
- Program and Policies to Community Development (5 Hours)
- Practices: Corporate Social Responsibility, Smart Village (5 Hours)
- Techniques in Community Development: PRA, SWOC Analysis (5 Hours)
- Tools in Community Development: Micro Planning, Tree Analysis (5 Hours)
- Models: Ralegaonsiddhi, Hiware Bazar, Baripada and Mendhalekha (5 Hours)

References:

1. Robinson Jr, J. W., & Green, G. P. (Eds.). (2011). Introduction to community development: Theory, practice, and service-learning. Sage.
2. Phillips, R., & Pittman, R. (2008) An introduction to community development. Routledge
3. Rath G. C(ed.) 2006: Tribal Development in India, Sage Publication, New Delhi
4. Siddiqui H.Y:1997: Working with Communities – An Introduction to Community Work. Hira Publisher
5. प्रा .रा .ना .घाटोळे,ग्रामीण समाजशात्र आणि समुदाय विकास,मंगेश प्रकाशन, नागपूर
6. प्राडॉ .वि .रा .गुंजाळ (2011) पंचायतराज, ग्रामीण विकास आणि सरपंच,अथर्व प्रकाशन,जळगाव .
7. प्रा .बा .वि .तिजारे,सामुदायीक विकास आणि विस्तार शिक्षणपद्धती

Course Outcomes (COs):

This course shall help students learn basic concepts of community development applications, advantages, Government policy and programs for the same. Major issues concerned community development. After learning the course, the students should be able to:

Course Outcome	Course Outcome	Cognitive Level
AC401D.1	Examine policy and programs for community development	03
AC401D.2	Understand the tools and techniques for community development	02

Carrier Opportunity in Economics

Economists work as consultants, public policy analysts, financial managers, health insurance analysts and much more. One thing most of these career paths have in common, however, is the need for a master's degree to get your foot in the door and/or work your way through the ranks. Types of careers in economics that typically either require or benefit from a master's degree include:

- Economist
- IES (Indian Economic Service)
- Reserve Bank of India Special Officers (Grade B)
- Consultant
- Professor
- Policy Analyst
- Budget Analyst
- Market Researcher
- Data Scientist
- Statistician

WORK AS A GOVERNMENT ECONOMIST

According to the most recent statistics from the Bureau of Labor Statistics, 36 per cent of economists work for the government at the local, state and federal levels. Government economists serve in a wide variety of positions involving policy research and analysis. Economists play an important role at each level of the government as policymakers use their insights when drafting, reviewing and implementing policies and programmes. Working in the public sector, while not always the highest-paying option for master's degree holders, provides an opportunity to work on important societal problems, potentially improving the lives of others. Public sector jobs can also offer more security than some private-sector jobs.

WORK AS A PRIVATE-SECTOR ECONOMIST

Jobs in the private sector often require a Master's in Economics to gain even entry-level employment. For those who wish to enter the private sector, the knowledge and skills obtained in pursuit of a master's degree will be valuable for a wide range of careers. Economic consultants, for example, provide expert insight into complex financial and economic situations and offer expert testimony in major litigation cases. Consultants also apply economic analysis to help businesses evaluate and implement strategic decisions. Master's programmes that specialize in applied economics are particularly beneficial for students who wish to enter the private sector, as this discipline focuses on the application of economic principles in the real world.

OTHER OPPORTUNITIES WITH A MASTER'S IN ECONOMICS

There are many other career paths and job opportunities for students of economics. For instance, you may want to assume a consulting or research role at one of the many economic "think tanks" in the country that helps shape public policy decisions. Or if you have an interest in international development, a Master's in Economics can give you the skills to help solve global problems and prop up economically under-developed regions to the benefit of the people living there. Of course, there's also the academic route for economists. A Master's Degree in Economics is often the minimum requirement to teach economics at most two-year colleges; the Doctor of Philosophy degree is necessary for a faculty position in economics at most four-year colleges and universities. One of the best ways to set you up for a successful career in economics is to complete a master's degree.
