Learning Outcomes – based Curriculum Framework (LOCF) and Syllabus for Post-Graduate Programme

in

ECONOMICS



Programme

Post-Graduation in Economics (Syllabus effective from 2020-21 Admission batch)

SCHOOL OF ECONOMICS GANGADHAR MEHER UNIVERSITY SAMBALPUR, ODISHA-768004 2020

VISION

• To develop outstanding Economics and policy oriented programs with faculty that are recognized for excellence in teaching and research and earn recognition as Center of Excellence at national and international level.

MISSION

As a department, we are committed to:

- Enable our students to develop analytical as well as critical thinking skills.
- Promote inter-disciplinary research among the faculties and the students to create state of art research facilities.
- Adopt experiential learning, including cooperative education, as a means to introduce students to the world of professional life, reinforce classroom teaching.
- Assist students in the development and advancement of career goals.
- Enable our learners to become policy literate and thus be more informed as citizens and more productive as human resource.
- Develop an environment conducive to promoting high-quality applied research so that it can contribute to policy at the global, national or local level, or that is useful in the conduct of business or the administration of government or non-profit organizations.
- Achieve academic excellence in Economics through innovative teaching and learning processes.

Programme Outcomes (POs) for Post-Graduation in Economics

- **PO-1:** Disciplinary Knowledge: Acquaint with the deeper and multidisciplinary knowledge, aware about recent innovations in the academic field
- **PO-2:** Critical Thinking: Able to critically analyze, synthesis and evaluate the theories, their development and application context.
- **PO-3:** To develop problem solving innovative thinking with robust communication and academic writing skills
- **PO-4:** Research Aptitude: Scientific and research thought and abilities not only to carry out independent research but also disseminate
- **PO-5:** Individual and Team work: Acquire the competency to work responsibly as an individual or as a member or leader of the group in multi-disciplinary environments
- **PO-6:** Life-Long Learning: Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout life.
- PO-7: Ethics: Capability to identify and apply ethical issues related to one's work, avoid unethical behaviour such as fabrication of data, committing plagiarism and unbiased truthful actions in all aspects of work.
- **PO-8:** Investigation of Problems: Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions.

Programme Specific Outcomes (PSOs) for Post-Graduation in Economics

School of Economics, G.M U, Sambalpur (Programme: PG in Economics)

PSO No	Programme Specific Outcomes (PSOs)
	Upon completion of this programme the student will be able:
PSO1	To acquire advanced knowledge of Economics & Development issues of Indian Economy in general and Economy of Odisha in particular.
PSO2	To conduct economic analysis using mathematical and statistical techniques especially by developing questionnaire, collecting primary data through field surveys.
PSO3	To forecast the future course of changes and development through their knowledge of policies and programmes of government and development agencies in the larger issues of epistemology in social sciences.
PSO4	To visualize the real world situation and enhance entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.
PSO5	To apply economic theory for critically analyzing the real national and international problems for a thorough evaluation of economic events and makes them responsible citizens.

SEM No.	Course Code	St-Graduation in Economics, (GN Name of the Course	Credits
I SEMINO.	ECO-101		4
1	ECO-101 ECO-102	Micro Economic Theory-I	4
	ECO-102 ECO-103	Macro Economic Theory-I Economics of Social	4
			4
	ECO-104	Infrastructure-I	4
	ECO 105	Quantitative Techniques &	4
	ECO-105	computer applications-I	4
TT	ECO 201	Development Economics-I	4
II	ECO-201	Micro Economic Theory-II	4
	ECO-202	Macro Economic Theory-II	4
	ECO-203	Economics of Social	4
	ECO-204	Infrastructure-II	4
		Quantitative Techniques &	4
	ECO-205	computer applications-II	
		Development Economics-II	
	Electives		
	ECO-206-A		4
	ECO-206-B	New Institutional Economics	4
	ECO-206-C	Mathematical Economics	4
		New Frontiers in Economics	
III	ECO-301	Public Economics- I	4
	ECO-302	International economics-I	4
	ECO-303	Environment & Resources	4
	ECO-304	Economics-I	4
		Advanced Econometrics-I	
	ECO-305		4
		Behavioural Economics	
	Electives		
	ECO-306-A		4
	ECO-306-B	Indian Economy	4
	ECO-306-C	Regional Economics	4
		Indian Financial System	
IV	ECO-401	Public Economics- II	4
	ECO-402	International economics-II	4
	ECO-403	Environment & Resources	4
	ECO-404	Economics-II	4
		Advanced Econometrics-II	
	ECO-405		4
		Project/Dissertation	

Programme Structure of Post-Graduation in Economics, (GMU, Sambalpur)

Syllabus for Post-Graduation in Economics

SEM-1- 1/	/5: ECO-101 (M	icro Economic Theory-I)									
	PG Semester – I (Course Outcomes:COs)										
Title of t	the Course & Course N	licro Economic Theory – I	Number of Credits - 4								
Code	(1	CCO-101)									
Pre-requisi mathematic		ts must have basic knowledge of	of elementary microeconomics with								
Course Ob	jective: To develop a theory	etical understanding of strategic	behaviour of economic agents and								
decision m	aking.										
On comple	etion of the course, the studen	ts will be able to:									
CO1	Analyze and evaluate cons	umer behavior at advanced level.									
CO2	Articulate the producer's optimizing behavior.										
CO3	Derive and evaluate firm and industry behavior under competitive and monopoly market										
CO4	Evaluate oligopoly firm be	havior under differential firm obje	ectives.								

Units	Course content
U-1	Theories of demand- utility, indifference curve (income and substitution effects: Slutsky theorem, compensated demand curve) and their applications: Revealed Preference Theory: Revision of demand theory by Hicks: Characteristics of goods approach: consumers choice involving risk.
U-2	Theory of Production and Costs: Production function- short period and long period; law of variable proportions and returns to scale, Isoquants Least Cost combination of inputs: Returns to factors; Economies of scale; Elasticity of substitution; Euler's Theorem; Traditional and modern theories of Costs-Empirical evidence, Derivation of Cost functions from production functions.
U-3	: Price and Output Determination: Perfect competition- short run and long run equilibrium of the firm and industry, price and output determination, supply curve; Monopoly- short run and long run equilibrium, price determination, welfare aspects, monopoly control and regulation, Price discrimination of first, second and third degree, Multiplant monopolist firm, Bilateral monopoly.
U-4	Monopolistic competition- general and Chamberlin approaches to equilibrium, equilibrium of the firm and the group with product differentiation and selling costs, excess capacity under monopolistic and imperfect competition, criticism of monopolistic competition ; Oligopoly- Non –collusive (Cournot, Betrand, Edgeworth, Chamberlin, Kinked demand curve and Stackelberg's solution) and collusive (Cartels and mergers,Price leadership and basing point price system) models ; Price and output determination under monoposony and bilateral monopoly.
	Recommended Books: 1. Kreps, David M. (1990) A Course in Microeconomic Theory, Princeton University Press, Princeton. 2. Koutsoyiannis, A (1979), Modern Micro Economics, Mac Millan Press, London 3. Layard, P.R.G. and A.W. Walters (1978), Mircoeconomic Theory, Mc Graw Hill, New York. 4. Varian, H (2000) Microeconomic Analysis, W.W. Norton, New York. 5. Baumol, W.J. (1982) Economic theory and Operation analysis, Prentice Hall of India, New Delhi. 6. Gree, H.A.G (1971) Consumer Theory, Penguin, Harmondsworth. 7. Hirshleifer J. and A. Glazer, (1997) Price Theory and Applications, Prentice Hall of India, New Delhi. 8. Da Costa, G.C (1980) Production, Prices and Distribution, Tata Mc Graw Hill, New Delhi.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3		1		1	2	3	1	3	2	2	3
CO2	3	3		1		1	2	3	1	3	2	1	3
CO3	3	3		1		1	3	3	1	2	3	1	3
CO4	3	3		1		1	2	2	1	3	2	1	3
	3	3		1		1	2	3	1	3	2	1	3

SEM-1- 2/5 ECO-102 (Macro Economic Theory – I)

	H	G Semester – I (Cour	se Outcomes:COs)
Title of the Co	urse & Course Code		Theory – I	Number of Credits - 4
		(ECO-102)		
Pre-requisites	for the Course: Basic of	concepts of Consump	tion and Production	on
Course Object	ive: To understand the	macroeconomic conc	epts like National	Income, Employment, Consumption,
Investment wi	th their inter-relationshi	ps and the role of ef	fective demand in	determining employment, output and
interest rates.				
On completion	of the course, the stude	nts will be able to:		
CO1	Develop an understar	iding of elementary	theoretical found	ation of key issues and policies on
	national income accou	nting, inflation and in	terest rates.	
CO2	Possess deeper under	standing of the conc	epts like multipli	ier, monetarism, the natural level of
	unemployment, and fis	cal policy.		
CO3	Apply the art of abstra	cting and building sma	all models related	to the macroeconomics.
CO4	Analyze the important	e of regulating the fin	nancial system, an	nd draws attention to the limitations to
	policymaking in an op	en economy.	• ·	

Units	Course content
U-1	National Income and Accounts- Circular Flow of Income with government and Open Economy, Three and Four sector economy; different forms of national income accounting- social accounting, input output accounting, flow of funds accounting and balance of payments accounting. National Income and Welfare.
U-2	Consumption function- Keynes's psychological law of consumption- implications of the law ; short run and long run consumption function, Empirical evidence on consumption function ; Income – consumption relationship- absolute income, relative income, life cycle and permanent income hypotheses.
U-3	Supply of Money- Financial intermediation- a mechanistic model of bank deposit determination ; A behavioral model of money supply determination, a demand determined money supply process; RBI approach to money supply ; High powered money and money multiplier ; budget deficits and money supply ; control of money supply.
U-4	Neo-Classical and Keynesian synthesis- Neo-classical and Keynesian views on interest; The IS-LM model ; Extension of IS-LM model with Government sector ; Relative effectiveness of monetary and fiscal policies; Extension of IS- LM models with labour market and flexible prices.
	Recommended Books: 1. Branson W.A. (1989), Macroeconomic Theory and Policy, Harper and Row, New York. 2. Dornbusch, R and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc. New York. 3.
	 New Tork. 2. Dornbusch, R and F. Stanley (1997), Macroeconomics, McGraw Titti, Inc. New Tork. 5. Hall, R.E and J.B Taylor (1986), Macroeconomics, W.W. Norton, New York. 4. Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd. New Delhi. 5. Levacic, R. and Rebmann, A. (1982), Macro Economics- An introduction to Keynesian –Neoclassical controversies, Macmillan, London. 6. Mankiw, N. G. (2010), Macroeconomics, Worth Publishers, 7th edition. 7. Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd. New York. 8. Shapiro E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2		1			2	2	1	2	2	2	1
CO2	3	3		1			1	2	2	2	1	2	2
CO3	3	2		1			2	2	3	3	2	3	2
CO4	2	2		1			2	1	3	2	3	2	2
	3	3		1			2	2	2	2	2	2	1

SEM-1- 3/5 ECO-103 (Economics of Social Infrastructure-I)

	PG Semester – I (Course Outcomes: COs)										
Title of the Co	ourse & Course Code	Economics	of	Social	Number of Credits - 4						
		Infrastructure-I									
		(ECO-103)									
Pre-requisites	for the Course: Basic k	nowledge of social	sciences	5							
Course Object	tive: To acquaint the	earners with different	ent appr	oaches to s	ocial infrastructure with externalities.						
Understanding	g the social sector polic	eies in India can ma	ike awar	e the future	e citizens on policy issues and human						
capital format	ion.										
On completion	n of the course, the stud	lents will be able to:									
CO1	Identify and understa	nd the concept of so	ocial infr	astructure.							
CO2	Interpret the idea of I	numan development	t and Ex	amine the c	lifference between human capital and						
	human development.										
CO3	Analyze the import	ance of nutrition	both i	in human	development and human resource						
	development.										
CO4	Assess and review so	cial sector policies i	in India.								

Units	Course content
U-1	Approaches to Social Infrastructure
	Human Resource Development and Human Development: Differences and Linkages, Measurement of
	Human Development - Special Characteristics of Education, Health, Nutrition and Environment -
	Externalities and Role of the State -Social Infrastructure and Economic Growth
U-2	Human Capital - Theory of Human Capital, Consumption and Investment Aspects - Education,
	Productivity and Employment-Rates of Return and their Measurement - Issues and Limitations -
	Endogenous Growth Theories: Romer and Lucas -Concept of Social Capital: Role and Policy Implications
U-3	Approaches to Nutrition- Concepts of under nutrition and malnutrition- Characterization and measurement
	of under nutrition-Linkages with Morbidity, Mortality, Implications for Human capital formation-
	Implications for Economic analysis and policy.
U-4	Social Sector Policies in India: Policy Framework in Five-Year Plans - Economic Reforms and Social
	Sectors - Typology of Economic Growth and Human Development in Indian States - Trends and
	Disparities in Social Infrastructure Development - Role of Public and Private Sectors - Financing of
	Social Sectors - Pricing of Social Sectors - Social Attainment - Limitations of Policy - Social Security -
	Special Policy Issues.
	Recommended Books: 1. Berman, P. (ed), Health Sector Reforms in Developing Countries: Making
	Health Development sustainable. Harvard Series on Population and International Health, Boston (1995).
	2. Blaug, M., Introduction to economics of Education, Penguin, London (1972). 3. Klarman, H. E., The
	Economics of Health, Colombia University Press, New York (1965). 4. Schultz, T.W., Investment in
	Human Capital, Free Press, New York (1971).

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	2	1	1	1	1	2	1	2	1	1
CO2	2	1	2	2	1	1	1	1	2	1	2	1	2
CO3	3	2	1	1	1	1	1	1	1	1	2	2	1
CO4	1	2	2	2	1	2	1	1	2	1	2	1	1
	2	1	2	2	1	1	1	1	2	1	2	1	1

SEM-1—4/5 ECO-104: (Quantitative Techniques & Computer Applications – I)

	Р	G Semester – I (Course Outcome	s: CO	s)
Title of the Co	ourse & Course Code	Quantitative	Techniques	&	Number of Credits - 4
		Computer App	olications-I		
		(ECO-104)			
Pre-requisites	for the Course: Basic k	nowledge of mat	hematics and con	npute	r fundamentals will be an advantage.
Course Objec	tive: To familiarize	the students to	use the technic	ques o	of mathematical analysis which are
commonly app	olied to understand and	analyze econom	ic concepts. Eco	nomic	es being based on empirical evidence,
computer appl	ications have emerged	as the key instru	nents of econom	ic ana	lysis, research and forecasting.
On completion	n of the course, the stud	lents will be able	to:		
CO1	Understand the use of	f calculus in choi	ce behaviour of e	conoi	mic agents.
CO2	Illustrate matrix oper	ation, minors, co	factors, use cofac	ctor m	nethod to find inverse of a matrix, use
	Cramer's rule to solv	e systems of equa	ations.		
CO3	Demonstrate knowled	lge of dynamic o	ptimization and	time-v	varying choice problems of economic
	agent.				
CO4	Identify, critically e	valuate and syn	nthesize the sub	stanti	ve theories and create models for
	understanding econor	nic behavior with	n computer applie	cation	s.

Units	Course content
U-1	Mathematical methods-I : Calculus : Concepts of function, Limit, Continuity and derivative ; Rules of
	differentiation ; Rules of partial differentiation and interpretation of partial derivatives ; Problems of
	Maxima and minima in single and multivariable functions ; Concept of integration ; simple rules of
	integration. Application of derivatives and integration in Economics.
U-2	Mathematical methods-II : Matrix algebra : Determinants and their basic properties ; Solution of
	Simultaneous equations through Cramers rule , concept of Matrix- their types, simple operations on
	matrices, matrix inversion and rank of a matrix, Concept of vector- its properties ; Matrices and vectors,
	Concept of Quadratic forms- Eigen roots and Eigen vectors ;
U-3	Difference equations & Differential equations- Solution of first order and second order difference
	equations. Economic applications of Difference and Differential equations.
U-4	Computer Application in Economics : Basic applications of Microsoft Office- Excel, MS Word and Power
	Point, Application in Tabulation, Frequency Distribution, Correlation & Regression Analysis.
	Recommended Books: 1. Chiang A.C. (1986), Fundamental methods of Mathematical Economics,
	McGraw Hill, New York. 2. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan
	Press and ELBS London. 3. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India,
	New Delhi. 4. K. Sydsaeter and P. Hammond (2002), Mathematics for Economic Analysis, Pearson
	Educational Asia: Delhi. 5. Gupta, S. P. (1978), Statistical Methods, Sultan Chand and Sons. 6. Gupta, S.
	C. and V. K. Kapur (1970), Mathematical Statistics, Sultan Chand and Sons. 7. Murray R. Spiegel (1992),
	Theory and Problem of Statistics, Schaum's Outline Series, Metric edition 8. Gupta, S. C. (1981),
	Fundamentals of Statistics, Himalaya Publishing House

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	2	1	2	1	3	1	3	1	1	3
CO2	2	1	2	2	2	2	1	3	1	3	2	1	2
CO3	3	1	2	2	2	2	1	2	1	2	1	1	3
CO4	3	1	2	2	1	2	1	3	1	3	2	1	3
	3	1	2	2	1	2	1	3	1	3	2	1	3

SEM-1-5/5 ECO-105: (Development Economics – I)

	PG Semester – I (Course Outcomes:COs)									
Title of the O	Course & Course Code Development Economics-I (ECO-105) Number of Credits - 4									
Pre-requisite	es for the Course: Preliminary idea of approaches to economic development and basic mathematics.									
Course Obj	ective: Make the students acquaint with models of development and development strategies.									
Understand	decision making regarding choice of technology and choice of scale and various criteria for									
investment.										
On completi	on of the course, the students will be able to:									
CO1	Learn the models of economic development and critically analyze growth and development									
	strategies.									
CO2	Examine about choices of technology with scale and investment criteria.									
CO3	Synthesize the different aspects of economic development and can use these things in their future									
	research as well as in qualifying the various national level tests.									
CO4	Understand and acquaint with the evolution and measures of development.									

Units	Course content
U-1	Economic Growth-I : Economic growth and development- factors affecting economic growth, ; capital, labour and technology ; Growth models- Harrod and Domar, instability of equilibrium ; Neo-classical growth models- Solow Swan model, Cambridge criticism of Neo-classical analysis of growth, Kaldor's growth model.
U-2	Economic Growth-II : Technological progress- embodied and disembodies technical progress, Hicks, Harrod, Exogenous and endogenous technical progress, Learning by doing, AK Model of growth
U-3	Social and Institutional Aspects of development- Development and underdevelopment- Perpetuation of underdevelopment, Measuring development and development gap- Per capita income, inequality of income, Human development index, Multi-dimensional Poverty Index ; Human resource development ; Economic development and institutions- markets and market failure, state and state failure, issues of good governance.
U-4	Theories of development- Classical theory of development, Ricardo, Malthus, Karl Marx and development of capitalistic economy- theory of social change, surplus value and profit, Partial theories of growth and development- vicious circle of poverty, circular causation, unlimited supply of labour, big push, balanced growth, unbalanced growth, critical minimum effort thesis, low income equilibrium trap; Dualism- technical, behavioural and social; Ranis and Fei model.
	Recommended Books: 1. Ghatak, S (1986) An Introduction to development Economics, Allen and Unwin, London 2. Higgins, B. (1959) Economic Development, WW Norton, New York. 3. Meier G.M.(1986) Leading Issues in Economic Development, Oxford University Press, New York 4. Basu, Kaushik (2000) Analytical Development Economics: The less developed Economy Revisited, Oxford University Press, India. 5. Ray Debraj (2000) Development Economics, Oxford University Press, India. 6. Chenery H and T.N. Srinivasan (Eds) (1989) Handbook of Development Economics, Vols. 1&2, Elsevier, Amsterdem. 7. Todaro, M.P (1996) Economic Development, Longman, London 8. Thirlwal, A.P (1999) Growth and Development, Macmillan, UK. 9. Hayami, Y. (1997) Development Economics, Oxford University Press, New York 10. Sen, A.K. (Ed) (1990) Growth Economics, Penguin, Harmondsworth.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	1			1	1	2	3	1	2	1	2
CO2	3	2	1			1	2	3	3	1	1	1	2
CO3	2	3	1			3	2	2	2	1	3	1	3
CO4	3	2	1			2	2	2	3	1	2	2	2
	3	2	1			2	2	2	3	1	2	1	2

SEM-2-1/8 ECO-201: (Micro Economic Theory – II)

	PG Semester – II (Course Outcomes:COs)											
Title of the C	Course & Course Micro Economic Theory-II (ECO-201) Number of Credits - 4											
Code												
Pre-requisites for the Course: Basic knowledge of factor pricing, Distribution and Welfare Economics will be an added advantage.												
		students to factor pricing, Distribution and We										
each factor of pr	oduction in Nationa	l Income, calculation of remuneration for the fa	actors of the production.									
On completion o	of the course, the stu	dents will be able to:										
CO1 U	Jnderstand and com	pare modern developments in theory of firm's	behavior									
CO2 E												
CO3 E												
CO4 C	Compare the various	s criteria for evaluating social welfare and arriv	ing at a social choice.									

Units	Course content
U-1	Alternative Theories of the Firm : Critical evaluation of marginal analysis ;Baumol's sales revenue maximization model ; Williamson's model of management discretion. Marris model of managerial enterprises ; Full cost pricing rule ; Bain's limit pricing theory and its recent developments including Sylos-Labinis model, Behavioural model of the firm ; game theoretic models.
U-2	Distribution- Neo-classical approach- Marginal productivity theory ;Product exhaustion theorem ; Theory of distribution in imperfect product and factor markets ; determination of rent, wages, interest and profit ; macrotheories of distribution- Ricradian, Marxian, kalecki and kaldor's
U-3	General Equilibrium - Partial and general equilibrium, Walrasian excess demand. The economics of information, Elementary Game Theory
U-4	Welfare Economics- Pigovian welfare economics ; Pareto optimal conditions, Value judgement ; Social welfare function ; Compensation principle; Inability to obtain optimum welfare- Imperfections, market failure, decreasing costs ;Theory of Second Best.
	Recommended Books: 1. Kreps, David M. (1990) A Course in Microeconomic Theory, Princeton University Press, Princeton. 2. Koutsoyiannis, A (1979), Modern Micro Economics, Mac Millan Press, London 3. Layard, P.R.G. and A.W. Walters (1978), Mircoeconomic Theory, Mc Graw Hill, New York. 4. Varian, H (2000) Microeconomic Analysis, W.W. Norton, New York. 5. Baumol, W.J. (1982) Economic theory and Operation analysis, Prentice Hall of India, New Delhi. 6. Gree, H.A.G (1971) Consumer Theory, Penguin, Harmondsworth. 7. Hirshleifer J. and A. Glazer, (1997) Price Theory and Applications, Prentice Hall of India, New Delhi. 8. Da Costa, G.C (1980) Production, Prices and Distribution, Tata Mc Graw Hill, New Delhi.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3		1		1	2	3	1	3	2	2	3
CO2	3	3		1		1	2	3	1	3	2	1	3
CO3	3	3		1		1	3	3	1	2	3	1	3
CO4	3	3		1		1	2	2	1	3	2	1	3
	3	3		1		1	2	3	1	3	2	1	3

SEM-2-2/8 ECO-202: (Macro Economic Theory- II)

	PC	3 Semester – II (Course C	Outcomes:C	COs)						
Title of the	Course & Course	Macro Eco	omic	Theory-II	Number of Credits - 4						
Code		(ECO-202)									
Pre-requisites	Pre-requisites for the Course: Prior knowledge on Price, Income and Employment.										
Course Object	tive: Students will be	acquainted with	latest de	velopment	in post-Keynesian analysis.						
On completion	n of the course, the stu	dents will be abl	e to:								
CO1	Know the basic appr	oaches involved	in the Po	ost-Keynes	ian demand for money.						
CO2	Examine the interrel	ationships invol	ved amo	ng inflatio	n and unemployment through Phillips						
	curve.										
CO3	Examine expectation	is formation by u	sing the	business c	ycles.						
CO4	Analyze the move understanding of new				mployment and develop a critical						

Units	Course content
U-1	Post-Keynesian Demand for Money- Post Keynesian approaches to demand for money- Patinkin and the ral Balance effect, Approaches of Baumol and Tobin ; Friedman and the Modern quantity theory ; Crisis in Keynesian economics and the revival of monetarism. Macroeconomics in an open economy- Income determination in an open economy. Foreign trade multiplier, Internal and external equilibrium- Mundell-Fleming model.
U-2	Theory of Inflation- Keynesian and Monetarist approaches to inflation ;Structuralist theory of inflation ; Phillips curve analysis- Short run and long run Phillips curve, Samuelson and Solow- the Natural rate of unemployment hypothesis, Tobin's modified Phillip's curve ; Adaptive expectations and rational expectations, Policies to control inflation.
U-3	Business Cucles- Theories of Schumptere, kaldor, Samuelson and Hicks.Goodwins model ; Control of business cycles- relative efficiency of monetary and fiscal policies.
U-4	New Classical Macroeconomics- The New classical critique of micro foundations, the new classical approach, Policy implications of new classical approach- empirical evidence. New Keynesian Macro Economics, Efficiency wage Hypothesis, Gift Exchange Model, insider Outsider Model, Menu Cost Theory, Labour Contract Model, Policy implications of the new Keynesian model.
	Recommended Books: 1. Branson W.A. (1989), Macroeconomic Theory and Policy, Harper and Row, New York. 2. Dornbusch, R and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc. New York. 3. Hall, R.E and J.B Taylor (1986), Macroeconomics, W.W. Norton, New York. 4. Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd. New Delhi. 5. Levacic, R. and Rebmann, A. (1982), Macro Economics- An introduction to Keynesian –Neoclassical controversies, Macmillan, London. 6. Mankiw, N. G. (2010), Macroeconomics, Worth Publishers, 7th edition. 7. Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd. New York. 8. Shapiro E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2		1			2	2	1	2	2	2	1
CO2	3	3		1			1	2	2	2	1	2	2
CO3	3	2		1			2	2	3	3	2	3	2
CO4	2	2		1			2	1	3	2	3	2	2
	3	3		1			2	2	2	2	2	2	1

				Р	G Seme	ster – II	(Cours	e Outco	mes: CO	s)						
Title of	the Cou	urse & C	Course C			mics of					r of Cred	lits - 4				
								CO-203								
Pre-requ	uisites f	or the C	ourse: E	Basic kn												
									ches to a	social in	frastruct	ure with	external			
													es and hu			
capital f	0			1							1	5				
On com			ourse, th	ne stude	nts will	be able	to:									
CO1	Identify the difference between health and health care and describe the features of health as an															
	economic commodity.															
CO2						and supply aspects of health care, education and articulate the different market										
					e output. Analyze the problems of health care finance and prospects of medical											
					n developing countries.											
CO3								educati	ion and	judge the	e import	ance of	investmei			
-			-			al choice				, , , , .	1					
CO4								in hea	lth care	due to	asvmm	etric inf	ormation			
									measur		<i>J</i>					
Units						<u> </u>		se conte								
U-1	Ecor	nomics of	of Healt	th : Dis	tinction	betwee	n health	n and he	ealth car	e. Healtl	n as an (economi	c commo			
													investmer			
									1				r health o			
Healthcare output, Technical efficiency, Production frontier, Multi product firm- Return additively, allocative efficiency. Returns to scale, Short run cost functions and economies Markets in health care: Perfect competition, Monopoly- market concentration, contestable Monopolistically competitive market- product life cycle, long run equilibrium, Oligopoly.																
than profit maximization- growth maximization, behavioral																
	per physician, market failure & role of Government															
U-2													sk, demar			
	supp	ly of he	alth insu	urance, l	health ir	nsurance	e market	& prob	lems, He	ealth care	e financia	al-option	s, Health			
													are sche			
					-	ate publ	ic mix.	Equity	in health	ncare Fin	nance He	ealth sect	tor reform			
		loping c														
U-3										1	1	1	Valuing ir			
													- benefit			
											ket, info	rmationa	l output f			
										pproach.						
U-4													of educa			
													on as a gl			
private good/ bad, Market & market failure in higher education, asymmetric information, adv																
	& moral hazard. Interaction between state & higher education. Indian education system - challen								hallenges							
		y initiat			-		1) ==					~				
													tries: Ma			
													Roston (19			
													in, H. E.,			
								s, New	York (1	965). <i>4</i> .	Schultz	, <i>T.W.</i> , .	Investmer			
	1 Hum					ork (197		7.5	D <i>a</i> - :	7977	D <i>a</i>	D <i>a</i> - :				
		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5			
	PO1	102	-		1	1	1	1	2	1	2	1				
	PO1 3	1	2	2					-		-	-	1			
CO1 CO2	PO1 3 2	1 1	2	2	1	1	1	1	2	1	2	1	1 2			
CO2 CO3	PO1 3	1 1 2	2 1	2 1		1	1	1	1	1	2	1 2	1 2 1			
	PO1 3 2	1 1	2	2	1											

SEM-2-4/8 ECO-204: (Quantitative Techniques & Computer Applications-II)

	PG Semester – II (Course Outcomes: COs)							
Title of the Co	ourse & Course Code	Quantitative	Techniques	&	Number of Credits - 4			
		computer appl	ications-II					
		(ECO-204)						
	for the Course: Basic o		A A		0			
Course Object	tive: To familiarize th	e students with	basic statistical t	echni	ques and train students about use of			
Computer app	lications for attaining a	higher degree of	precision in fore	ecastin	ng.			
On completion	On completion of the course, the students will be able to:							
CO1	Analyze the estimates	s of multiple reg	ressions and infe	erentia	al statistics with the help of software			
	and interpret it.							
CO2	Validate the estimates of weights, distributive tables, regression and any other relevant techniques							
	by using economic va	riables.						
CO3	Attain the basic know	ledge on comput	er for testing eco	nomie	c hypotheses and forecasting.			
CO4	Develop the idea on u	ses of statistical	software for bette	er und	lerstanding of the subject matter.			

Units	Course content
U-1	Meaning, assumptions and limitations of simple correlation and regression analysis ; Spearman's rank correlation coefficients and their properties; Concept of the least squares and the lines of regression ;
	Standard error of estimate ; partial and multiple correlation and regression
U-2	Methods of estimation of non-linear equations – parabolic, exponential, geometric, modified exponential, Gompertz and Logistic relationships.
U-3	Various types of events- classical and empirical definitions of probability; Laws of addition and multiplication ; Conditional probability and concept of interdependence ; Bayes theorem and its implications ; Expectations, Properties of Binomial, Poisson and Normal distributions. Concept of an estimator and its sampling distribution ; desirable properties of an estimator ; Formulation of statistical hypotheses- Null and alternative ; Goodness of fit ; Confidence intervals and levels of significance ; Hypothesis testing based on Z, t, Chi-square
U-4	Basic concept of sampling- random and non-random sampling ; Simple random, stratified random and PPS sampling; Computer Applications: Use of statistical packages (S.P.S.S. & E View) in frequency distribution, correlation and regression analysis, ANOVA, TimeSeries Tests.
	Recommended Books: 1. Chiang A.C. (1986), Fundamental methods of Mathematical Economics, McGraw Hill, New York. 2. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS London. 3. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi. 4. K. Sydaester and P. Hammond (2002), Mathematics for Economic Analysis, Pearson Educational Asia: Delhi. 5. Gupta, S. P. (1978), Statistical Methods, Sultan Chand and Sons. 6. Gupta, S. C. and V. K. Kapur (1970), Mathematical Statistics, Sultan Chand and Sons. 7. Murray R. Spiegel (1992), Theory and Problem of Statistics, Schaum's Outline Series, Metric edition 8. Gupta, S. C. (1981), Fundamentals of Statistics, Himalaya Publishing House.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	2	1	2	1	3	1	3	1	1	3
CO2	2	1	2	2	2	2	1	3	1	3	2	1	2
CO3	3	1	2	2	2	2	1	2	1	2	1	1	3
CO4	3	1	2	2	1	2	1	3	1	3	2	1	3
	3	1	2	2	1	2	1	3	1	3	2	1	3

SEM-2-5/8 ECO-205: (Development Economics – II)

PG Semester – II (Course Outcomes: COs)								
Title of the Course & Course Code Development Economics-II (ECO-205) Number of Credit								
Pre-requisit	Pre-requisites for the Course: Basic knowledge of growth and development theories with economic planning.							
Course Obje	Course Objective: To familiarize students with sectoral growth, approaches to development in developing countries							
with econor	with economic planning in global perspective.							
CO1	Understand the signification	Understand the significance of sectoral growth and development approaches in developing countries.						
CO2	Interpret the implications	Interpret the implications of international trade theories for developing countries.						
CO3	Review how the macroeconomic policies impact the internal growth prospects and external balance of							
	developing economies.		_					
CO4	Propose suitable policy of	changes in regional and micro planning in the con	ntext of the Indian economy.					

Units	Course content
U-1	Sectoral aspects of development- Role of agriculture in economic development; Efficiency and productivity in agriculture, New technology and sustainable agriculture ; Globalisation and agricultural growth, rationale and pattern of industrialization in developing countries ; The choice of techniques and appropriate technology and employment ; Efficiency of small-scale vs. large-scale production ; terms of trade between agriculture and industry ; Infrastructure and its importance ; Labour market and their functioning in developing countries.
U-2	Trade and economic development- International trade as engine of growth ; Static and dynamic gains from trade, Prebisch, Singer and Myrdal thesis vs. Free trade ; Export-led growth ; Dual gap analysis ; balance of payments ; tariffs and effective protection ; Post-GATT international economic order ; WTO and developing countries.
U-3	Macro-economic policies and Development- Role of monetary and fiscal policies in developing countries- price savings, inflation and growth- Empirical evidence ; external resources- FDI, aid vs. trade, technology inflow ; MNC activity in developing countries ; Borrowings- domestic and external ; Burden of borrowing- IMF and World bank policies in developing countries.
U-4	 Allocation of resources- Need for investment criteria in developing countriespresent vs future, Alternative investment criteria; Cost-benefit analysis; Shadow prices, project evaluation and UNIDO guidelines. Planning and development- Need for planning-democratic, decentralized and indicative planning, micro-planning, review of Indian plan models and planning. Recommended Books: 1. Ghatak, S (1986) An Introduction to development Economics, Allen and Unwin, London 2. Higgins, B. (1959) Economic Development, WW Norton, New York. 3. Meier G.M.(1986) Leading Issues in Economic Development, Oxford University Press, New York 4. Basu, Kaushik (2000) Analytical Development Economics: The less developed Economy Revisited, Oxford University Press, India. 5. Ray Debraj (2000) Development Economics, Oxford University Press, India. 6. Chenery H and
	<i>T.N. Srinivasan (Eds) (1989) Handbook of Development Economics, Oxford University Press, India. 6. Chenery H and T.N. Srinivasan (Eds) (1989) Handbook of Development Economics, Vols. 1&2, Elsevier, Amsterdem. 7. Todaro, M.P (1996) Economic Development, Longman, London 8. Thirlwal, A.P (1999) Growth and Development, Macmillan, UK. 9. Hayami, Y. (1997) Development Economics, Oxford University Press, New York 10. Sen, A.K. (Ed) (1990) Growth Economics, Penguin, Harmondsworth</i>

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	1			1	1	2	3	1	2	1	2
CO2	3	2	1			1	2	3	3	1	1	1	2
CO3	2	3	1			3	2	2	2	1	3	1	3
CO4	3	2	1			2	2	2	3	1	2	2	2
	3	2	1			2	2	2	3	1	2	1	2

SEM-2-6/8 ECO-206-A: New Institutional Economics

	PG Semester – II (Course Outcomes: COs)							
Title of	f the Course & Course Code	New	Institutional	Economics	Number of Credits - 4			
		(Elect	ive) (ECO-206	A)				
Pre-req	Pre-requisites for the Course: Fundamental idea on the concept of "institution".							
	Course Objective: To acquaint the students on the evolution, functions and structure of institutions. Understand							
the role	the role of transaction costs and property rights in the context of economic institutions.							
CO1	Understand the theories of o	ld institı	utional economic	S.				
CO2	Outline the institutional structure of a society and the limits. Demonstrate the inter dependence of social,							
	political and economic institutions.							
CO3	Assess the implications of transaction costs and property rights for economic institutions.							
CO4	Develop a suitable synthesis of best practices in the present scenario using property right institutions.							

Units	Course content
U-1	Preliminaries of the Old Institutional Economics: The concept of Institutions in the old institutional economics; Adam Smith's "The Theory of the MoralSentiments"; The pragmatic philosophy of William James, Charles Peirce, John Dewey and Clarence Ayers;formation of habits, the rule of thumb, development of customs traditions and mores as regulators of social conduct; development of legal institutions. TB Veblen: The Theory of the Leisure Class – informalinstitutions/habits and traditions, government as part of the established, institutional system (vested interests),proposal of a system of industrial planning by technical experts, Jungian Archetypes and social psychology; R Commons and JK Galbraith - formal (legalized) institutions, Scientific investigation methods; WC Mitchell- Establishment of Institutions, National Bureau of Economic Research (NBER), Statistical basis for study of institutions, New School for Social Research, origins of agent-based theory; G Myrdal –interdependence of social, political, economic and institutional phenomena, modernization ideals. Religion as an institution: Max Weber's The Protestant Ethic and the Spirit of Capitalism. Kenneth Boulding: Grants Economics; The three-fold taxonomy of social organization
U-2	Introduction to Institutional Analysis: The concept of institution in the New Institutional Economics: Institutions and organizations. Functions of social and economic institutions; Interaction situations and the types of norms: prisoners' dilemma-type situation; co-ordination situation; inequality situation; Enforcement characteristics; Institutional structure of a society; Formal and informal institutions; Sanctions for disobeying norms (self-enforcing sanctions, guilt, shame, informational sanctions, bilateral costly sanctions, multilateral costly sanctions); Conditions of norms' effectiveness. Interaction of formal and informal institutions; The limits of imitations of institutions from best-performing countries; The problems of their enforceability; A Comparative view of the Old Institutional Economics and the New Institutional Economics and modern institutionalism.
U-3	Transaction Costs: The concept of transaction; Market and intra-firm transactions; Transaction costs as friction in the economy; Transaction costs and transformation costs; Interdependency between transaction costs and transformation costs; Types of market transaction costs and means of transaction costs minimization (search and information costs; measurement costs; bargaining and decision costs; supervision and enforcement costs); Comparative advantages and shortcomings of the legal enforcement mechanism; Reputation as a contract enforcement device; Ideal model of "perfect reputation"; Shortcomings of the reputation as a contract enforcement mechanism. Reputation and the "free rider problem"; Reputations aided by institutions. Transaction costs, the main types of economic exchange and their institutional structure; Coexistence of the main types of economic exchange in the modern society; Transaction cost measurement.
U-4	Economic Theory of Property Rights: The definition of property rights; Property rights in different Laws/traditions; The property rights approach: some basic concepts. Specification of property rights, the bundle of rights, partitioning of property rights, attenuation of property rights; Assigning of property rights: the internalization of externalities; The Coase Theorem; Critic of Coase (dynamic effects of alternative legal rules, wealth effect, distributional effects, strategic behavior and the problem of holding-out, endowment effect, sociological critic, unrealistic assumption about zero transaction costs); Alternative

property rights regimes; Common property (open access) and the tragedy of the commons; Exclusive property rights and the conditions for their emergence; The first economic revolution. Communal property; Optimal group size; Private property; Moral and economic aspects of private property; Public property; The emergence of property rights; The optimistic theory of the emergence of property rights (naive model); The interest-group theory of property rights; The costs of collective action; The theory of rent-seeking; Interest-groups and rent-seeking behavior in an economy.

Recommended Books: 1. Smith Adam "An enquiry into the nature and causes of wealth of nations", (1776) 2. Galbraith J.K "American Capitalism: the concept of countervailing power", Routledge Pub. (2017) 3. Acemoglu D., Robinson J A, "Why nations fail", Profile Books Ltd. 4. Williamson Oliver E., Winter Sidney G., Oxford University Press, "The Nature of the firm", (1993). 5. Coase Ronald H "The Problem of Social Cost", Palgrave McMillan Publications (1960).6. Coase Ronald H "The firm, The Market and the Law", University of Chicago Press, (1988). 7. Vatiero Massimiliano "The theory of transaction in institutional economics: a history", Routledge Pub. (2020).

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	1	1	1	1	1	1	1	1	1	1	2
CO2	2	1	1	2	1	1	2	2	1	1	2	1	2
CO3	2	2	1	1	1		2	2	2	1	1	1	2
CO4	3	1	1	1	1	1	3	2	1	1	2	2	1
	2	2	1	1	1	1	2	2	1	1	1	1	2

SEM-2-7/8 ECO-206-B: (Mathematical Economics)

SEM-2-776 ECO-200-D. (Wathematical Economics)									
	PG Semester – II (Course Outcomes: COs)								
Title of the Co	ourse & Course Code	Mathematical Economics	Number of Credits - 4						
	(Elective) (ECO-206-B)								
Pre-requisites	Pre-requisites for the Course: Basic knowledge of calculus.								
Course Object	tive: to strengthen the	theoretical understanding of the studer	nt by adopting mathematical approach						
for analyzing	economic theories.	<u> </u>							
On completion	On completion of the course, the students will be able to:								
CO1	Understand the consumers equilibrium more objectively with the help of different forms of utility								
	forms.								
CO2	Examine the theory	of firm's equilibrium and familiarise	the students with various forms of						
	production functions l	naving practical relevance.							
CO3	Experiment the idea	of different types of market and e	quilibrium in the respective market						
	mathematically.								
CO4	Develop solutions to	Economic problems from program	ming and game theoretic approach.						
	Appraise the Operation	ons Research model like Input-Out	put model and Linear Programming						
	model for obtaining a	nd optimum solution under complex ed	conomic situations.						

Units	Course content
U-1	Theory of Consumer Behaviour- Cardinal and ordinal utility maximization ; Slutsky equation,
	compensated demand functions, income, substitution and price effects ; Concept of elasticities-
	generalizations to n variable case; separate and additive utility functions; homogeneous and homothetic
	utility functions ; constant elasticity of substitution (CES) and transcendental logarithmic utility functions ;
	duality theorem ; consumers surplus ; Theory of revealed preference and index numbers ; Linear
	expenditure systems.
U-2	Theory of production- Production function- homogeneous and nonhomogeneous,
	Properties of production function ; CES, VEX and trans-log production function. Simple derivation of
	short run and long run cost functions ; Modern approach to theory of costs ; Cost function, constrained
	optimization of a producer ; Generalisation to n variable case ; Input demand functions ; Adding up
	theorem, Technical progress through production function.
U-3	Price determination in various markets- price determination in perfect competition, monopoly,
	monopolistic competition, duopoly, oligopoly, and monopsony; Pricing of factors of production;
TT A	Bilateral monopolyMarket equilibrium- Marshallian and walrasian equilibrium conditions
U-4	Game theory- Liner programming and Input-Output analysis : Concept of game- Two person zero-sum
	game, Payoff matrix, pure and mixed strategies. Maximin and Minmax solutions ; Saddle point solution ; Non- constant sum game ; Prisoners dilemma ;
	Linear programming- Primal and dual problem; Simplex method; transport and storage problems and
	other applications of linear programming in economics; Input-output analysis- Open and closed systems;
	Hawkins-Simon conditions ; Leontief's dynamic system .
	ramano onion conditiono, Econter o dynamic system.
	Recommended Books: 1. Allen RGD (1974) Mathematical Analysis for Economists, Macmillan Press and
	ELBS, London. 2. Chiang, A.C (1986), Fundamental Methods of Mathematical Economics, Mac Graw
	Hill, New York. 3. Henderson & Quandt, Micro Economic Theory, A mathematical approach, Mac Gaw
	Hill, New Delhi. 4. Allen, RHD, (1976) Mathematical Economics, Macmillan, London 5. Arrow K.J., and
	M. Intrilligator, (Eds) (1982), handbook of Mathematical Economics, Volumes, I, II, III, North Holland,
	Amsterdam. 6. Hadley, G (1962) Linear Programming, Addison Wesley Publishing Co., Massachusetts

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	2	2		2	1	2	1	3	1	1	2
CO2	2	1	3	3		2	1	3	2	3	2	1	2
CO3	2	2	2	3		2	2	3	2	3	1	1	2
CO4	3	1	3	2		3	1	3	2	3	1	1	1
	2	1	3	3		2	1	3	2	3	1	1	2

SEM-2-8/8 ECO-206-C: New Frontiers in Economics

	PG	Semester - II (Course Outcomes: COs)							
Title of the Cours	se & Course Code	New Frontiers in Economics	Number of Credits - 4							
		(Elective) (ECO-206-C)								
Pre-requisites for	the Course: Basic conc	epts of micro and macroeconomics.								
Course Objective	Course Objective: To familiarize the students with new developments in the discipline of Economics.									
On completion of	f the course, the student	s will be able to:								
CO1	Outline the nuances of	of new classical economics and post-Ko	eynesian economics.							
CO2	Enable the students to	o identify and describe the latest develo	opments in the field of economics.							
CO3		proaches to the concept of welfare fro	m Rawls to Sen and Appraise gender							
issues and the feminist economic theories.										
CO4	Develop new ideas to	deal with troublesome environmental	issues							

Units							Cours	se conter	nt						
U-1	Th	eoretical	Issues:	Post Key	ynesian a	and Beh	avioural	l Econor	nic Theo	ry					
	1.	Post Ke	ynesian	critique	of neoc	classical	econon	nics –Di	istributio	n theory	- Macr	odynami	cs. Bour	nded	
	rati	onality,	framing	g and e	ndowme	ent effe	ct," def	aults fo	r choice	" –Pros	pect theo	ory and	heuristic	cs –	
	Be	havioral	Econom	ics and	the finar	ncial sec	tor – Be	havioral	l Econom	nics and	oublic fir	nance.			
	2.E	Buchanaı	ı's Publi	c Choic	e Appro	ach- Sti	iglitz Pr	ivate Us	se of Pul	olic Inter	est- Nec	o- Classi	cal: Rati	onal	
	Ex	pectation	ns - Sen.	's Appro	ach to W	Velfare.	Develo	pment a	s expansi	ion of ca	pabilities	5			
U-2	De	Development Policy Issues													
	Inc	India in the Emerging World System - Changing Perceptions about the role of the Government - Growth													
	and	and pattern of International Economic Relations: Aid Investment and Trade													
	Fin	Financial sector and economic growth: financial globalization, "optimum financialization".													
U-3		Welfare and Gender Economics: Utilitarianism - Rawlsian theory of welfare - Amartya Sen"s capability													
		theory. Becker"s theory of family and gender discrimination - Feminist economic theory: methodology													
	and	and basic principles – capability approach and gender: Nussbaum's basic capabilities framework –													
		Women empowerment and economic development.													
U-4		Environmental Issues - Sustainable Development - Waste Management - Natural Disaster Management -													
		Environmental Policies.													
			ded Boo												
	1.1	Dornbus	ch, R, S.	Fischer	& R. Sta	artz Mac	ro-econ	omics. T	Tata Mc (Grew-Hi	ll, New L	Delhi (20	00).		
	2.1	Dornbus	ch, Fisch	her, Stra	tz. Macr	roeconoi	mics, Ta	ta McG	raw-Hill.	New De	elhi (2004	4).			
	3. 1	N. Grego	ory Manl	kiw, Prin	ciples o	f Macro	econom	ics, (201	14).						
	4.	Campbel	ll McCor	nell and	l Stanley	, Brue, I	Macroec	conomics	s: Princip	oles, Pro	blems, &	Policies	s (2014).		
									n (India)					and	
									Hypothe						
			",http://									v			
	7. 1	Muth, J.I	F. 1961.	Rationa	l Expect	ations a	nd the T	heory o	f Price M	lovement	ts, Econo	metrica,	29(3), p	р.	
									Past, Pr					-	
	8. (G. Akerl	of, (2001	'), "Beĥ	avioral I	Macroec	conomic.	s and M	acroecon	nomic Be	havior",	Nobel P	rize Lect	ure.	
	9.1	Buchana	n James	N, Tullo	ock Gord	don (196	5), The	calculus	s of conse	ent: Logi	cal found	dations o	f		
			nal Dem							_					
					, Third I				s of Gena						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	2	1	1	2	2	1	3	2	1	1	1	1	2	ļ	
CO2	2	1	1	3	2	1	2	3	1	2	2	1	2	ļ	
CO3	2	2	2	3	1	1	3	3	2	1	1	1	2	ļ	
CO4	3	1	1	2	2	1	2	3	2	1	1	1	1		
	2	1	1	3	2	1	3	3	2	1	1	1	2]	

SEM-3-1/8 ECO-301: (Public Economics – I)

	PG	Semester – III (Course Outcomes: C	COs)							
Title of the	Course & Course	Public Economics (ECO-301)	Number of Credits - 4							
Code										
Pre-requisites for the Course: Basic understanding of the role and functions of the government.										
	Course Objective: Role and functions of the Government in an economy have been changing with the passage of time. This paper covers the theoretical aspects of Public Economics and Public Finance.									
On completion	n of the course, the stu	idents will be able to:								
CO1	Understanding of the	e rationale for the existence of moder	n governments.							
CO2	Know how there is a	llocation of resources by public polic	ey and role of voting system.							
CO3	Understand the functions and effectiveness of fiscal policy.									
CO4	Familiar with variou	s tax system in India.								

Units	Course content
U-1	Introduction- Role of Govt. in organized society; changing perspectives government in a mixed economy, public and private sector, co-operation or competition; Govt. as an agent for economic planning and development; Government as a tool for operationalising the planning process; private goods, public goods, market failure- imperfections, decreasing costs, externalities, public goods.
U-2	Public choice- Private and public mechanism for allocating resources, problems for allocating resources, problems of preference revelation and aggregation of preferences, Voting systems, Arrow Impossibility theorem, An economic theory of democracy, Politico-eco-bureaucracy ; rent seeking and directly unproductive profit seeking (DUP) activities. Rationale for public policy : Allocation of resources, provision of public goods, voluntary exchange models, impossibility of decentralized provision of public goods (contributions of Samuelson and Musgrave).
U-3	Fiscal policy- full employment, anti-inflation, economic growth, redistribution of income and wealth, interdependence of fiscal and monetary policies, budgetary deficits and its implications, Fiscal policy for stabilization-automatic vs. discretionary stabilization ; Alternative measures of resource mobilization and their impact on growth, distribution and prices, balanced budget multiplier
U-4	Indian Public Finances- Indian tax system ; Revenues of the Union, States and local bodies ; Major taxes in India, base of taxes, direct and indirect taxes, taxation of agriculture, expenditure tax, reforms in direct and indirect taxes, taxes on services ; Non-tax revenue of centre, States and local bodies ; Analysis of central and state government budgets ; Lack of flexibility incentral and state budgets, shrinking size of development finance throughbudgets ; Trends in public expenditure and public debt ; Fiscal crisis and fiscal sector reforms in India ; Reports of Finance commissions in India.
	Recommended Books : 1. Atkinson, A.B. and J.E. Siglitz (1980) Lectures on Public Economics, Tata McGraw Hill, New York 2. Auerbach, A.J. and M. Feldstern (Eds) (1985) Handbook of Public Economics, Vol.I, North Holland, Amsterdam. 3. Jha, R (1998) Modern Public Economics, Routledge, London 4. Musgrave, R.A. (1959) The Theory of Public Finance, McGraw Hill, Kogakhusa, Tokyo 5. Shoup, C.S (1970) Public Finance, Aldine, Chicago 6. Peacock . A and G.K. shaw (1976) The Economic Theory of Fiscal Policy, George Allen and Unwin, London. 7. American Economic Association (1955) Readings in Fiscal Policy, George Allen and Unwin, London.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3		1		2	1	2	2	1	2	2	3
CO2	2	2		1		1	2	2	1	2	3	2	2
CO3	2	2		1		2	2	2	2	2	1	3	2
CO4	1	1		1		1	3	3	2	2	3	2	1
	2	2		1		2	2	3	2	2	3	2	2

SEM-3-2/8 ECO-302: (International Economics – I)

	PG	Semester – III (Course Outcomes:	COs)								
Title of the	Course & Course	International economics-I	Number of Credits - 4								
Code	(ECO-302)										
Pre-requisites for the Course: Basic concepts of micro and macroeconomics.											
Course Objective: To provide an understanding of the broad principles of international trade and their											
welfare implic	cations for the econom	ies.									
On completion	n of the course, the stu	dents will be able to:									
CO1	Understand and com	pare different theories of internation	al trade								
CO2	*										
CO3	Examine and reflect on the economic policies that include international trade.										
CO4	Deduce policies to a	ttain balance in the economy									

Units	Course content
U-1	Theory of International trade- Theories of absolute advantage of Adam Smith, comparative advantage of
	David Ricardo, Law of reciprocal demand, Marshal Edgeworth Offer curve analysis, Heberler opportunity
	cost, modern theory of international trade- Heckscher-Ohlin theorem, factor intensity reversal argument,
	Leontief paradox, the factor price equalization theorem, Kravis and Linder theory of trade.
U-2	Measurement and gains from trade – Terms of trade; net and gross barter terms of trade, single and double
	factorial terms of trade, income terms of trade,
	Hypothesis of secular deterioration of terms of trade, its empirical relevance
	and policy implications for less developed countries, hypothesis of secular deterioration of terms of trade, ;
	Trade as an engine of economic growth, immiserising growth
U-3	Monetary theory of international trade- Balance of payment: meaning and components, autonomous and
	accommodating transaction, equilibrium Bop, balance of payment adjustment mechanism under flexible
	prices, interest rates, and income level with fixed exchange rates and flexible exchange rates.
U-4	Absorption approach and monetary approach, internal and external balance: adjustment of BOP through
	policy instruments- expenditure changing, expenditure switching and exchange control methods Trevor
	Swan model
	Recommended Books: 1. Salvatore, D (2014) International Economics: Trade and Finance, Wiley
	Students' Edition, 11th Edition. 2. Soderstein, Bo. And G. Reed, (1994) International Economics, The
	Palgrave Macmillan, London, 3rd (revised) edition. 3. Cherunilam, Francis (2017), Mc Graw Hill,
	Education 4. Carbough, R.J. (1999) International Economics, International Thomson Publishing, New
	York. 5. Chacoliades, M. (1990) International Trade : Theory and Policy, Mc Graw Hill, Kogakusha,
	Japan 6. Acharya, Rajat (2013) International Economics An Introduction to Theory and Policy, Oxford
	University Press, New Delhi.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3		2		2	1	3	2	1	2	2	3
CO2	3	2		2		1	2	3	2	3	3	2	2
CO3	2	3		2		2	2	3	3	3	1	3	2
CO4	3	1		2		1	3	3	2	2	3	2	3
	3	3		2		2	2	3	2	3	3	3	3

SEM-3-3/8 ECO-303: (Environment & Resource Economics – I)

	PO	G Semester – III (Course Outcomes: C	Os)							
Title of th	ne Course & Course Code	Environment & Resource	Number of Credits - 4							
		Economics – I (ECO-303)								
Pre-requi	sites for the Course: Prelimin	nary idea about ecology and environm	ental issues.							
		ques to integrate environmental concer	ms with economic development and							
policy-ma	aking to move towards sustain	nable development.								
On comp	letion of the course, the stude									
CO1	Define the key issues r	egarding sustainability, environmenta	degradation and economic growth.							
CO2	Describe the analytic	cal framework adapted by the dis-	cipline of Economics to include the							
	environmental concerr	is in its analysis.								
CO3	Appraise different tech	nniques of valuation and cost benefit	analysis that goes into decision making							
	in environmental Econ	omics.								
CO4	Develop ways in whic	Develop ways in which economic principles can be used for environmental protection and pollu								
	control.									

Units	Course content
U-1	Fundamentals: Environment economy interaction, The circular Economy, Environmental quality as a public good, Public goods and bads, natural resources, trade-off between environmental quality and economic goods, growth and environment-environmental Kuznets curve
U-2	: Market failure, The nature of market failure and problems of externalities associated with environmental problems, Pollution as Externality, Optimal Externality, Property rights, the theory of externalities and Coase theorem, Coase theorem and its implications in environmental regulations,
U-3	Cost-benefit analysis and the valuation of environmental resources, Economic limits of growth- population, resource use and environmental degradation, affluence, technology and environmental degradation, environmental issues in developing countries
U-4	Theories of Optimal use of renewable resources: Growth curves, MSY, Costs and revenue, profit maximization, open access and common property solutions, preservation value, discount rate and price change effects, Theories of optimal use of exhaustible resources, Resource price and backstop technology, Environmental and development trade off and the concept of sustainable development; Integrated environmental and economic accounting and themeasurement of environmentally corrected GDP
	Recommended Books : 1. Kolstad, C. D (1999) Environmental economics, Oxford University Press, New Delhi 2. Sankar, U (Ed.) (2001) Environmental Economics, Oxford University Press, New Delhi 3. Hanley N (1997) Environmental Economics in Theory and Practice, Macmillan, London. 4. Tietenberg T. (1994) Environmental Economics & Policy, Harper Collins, New York. 5. Bromley D W, (ed.) (1995) Handbook of Environmental Economics, Blackwell, London 6. Bhattacharya, R.N. (2001) Environmental Economics an Indian Perspective, Oxford University Press, New Delhi 7. Hussen, AM (1999) Principles of Environmental Economics, Routledge, London.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	2	2	1	3	2	1	1	1	1	2
CO2	2	1	1	3	2	1	2	3	1	2	2	1	2
CO3	2	2	2	3	1	1	3	3	2	1	1	1	2
CO4	3	1	1	2	2	1	2	3	2	1	1	1	1
	2	1	1	3	2	1	3	3	2	1	1	1	2

SEM-3-4/8 ECO-304: (Advanced Econometrics – I)

	PC	G Semester – III (Course Outcomes: CO	Ds)						
Title of the Co	ourse & Course Code	Advanced Econometrics – I	Number of Credits - 4						
		(ECO-304)							
Pre-requisites	Pre-requisites for the Course: Students must have basic knowledge of Statistical and Mathematical methods.								
Course Objective: To provide students exposure to econometric theory, model building and data analysis.									
On completion	On completion of the course, the students will be able to:								
CO1	State the use of statist	State the use of statistical techniques to analyse Economic data and relations.							
CO2	Understand the Linea	ar and Non- Linear regression models	s. Evaluate statistical significance of						
	results obtained throu	gh hypothesis testing.							
CO3	Sketch the problems e	Sketch the problems encountered in hypothesis testing and the remedies.							
CO4	Develop appropriate	statistical models for use in economic	modelling. Design economic models						
	using simultaneous ec	quations, qualitative data and time serie	s data.						

 U-1 Basic Economterics- Nature, meaning and scope of econometrics: Simple and general linear regression model- Assumptions, Estimation (through OLS approach) and prop estimators, Gauss Markov theorem; Concepts and derivation of R2 and Adjusted R2; U-2 Concept of analysis of variance approach and its application in regression analysis; Generalis Squares (GLS) Estimation of non-linear equations- parabolic, exponential, geometric, hyperbolic, modified exp Gompertz and logistic functions. U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of problet heteroscedasticity; Multicollinearity and autocorrelation; Problems of specification error, E measurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing s stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN Probit models- Applications, estimation under Linear restrictions (Restricted Least Squares). 	ed Least
estimators, Gauss Markov theorem; Concepts and derivation of R2 and Adjusted R2; U-2 Concept of analysis of variance approach and its application in regression analysis; Generalis Squares (GLS) Estimation of non-linear equations- parabolic, exponential, geometric, hyperbolic, modified exp Gompertz and logistic functions. U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of probleteroscedasticity; Multicollinearity and autocorrelation; Problems of specification error, Hemeasurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	ed Least
U-2 Concept of analysis of variance approach and its application in regression analysis; Generalis Squares (GLS) Estimation of non-linear equations- parabolic, exponential, geometric, hyperbolic, modified exp Gompertz and logistic functions. U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of probleteroscedasticity; Multicollinearity and autocorrelation; Problems of specification error, Emeasurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	
Squares (GLS) Estimation of non-linear equations- parabolic, exponential, geometric, hyperbolic, modified exp Gompertz and logistic functions. U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of problems of specification error, E measurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing s stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	
Estimation of non-linear equations- parabolic, exponential, geometric, hyperbolic, modified exp Gompertz and logistic functions. U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of problems of specification error, E measurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing s stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	onential,
Gompertz and logistic functions. U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of problems of specification error, Emeasurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	onential,
U-3 Problems of regression analysis – Nature, test, consequences and remedial steps of problems heteroscedasticity; Multicollinearity and autocorrelation; Problems of specification error, Emeasurement (Errors in variables) U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	
U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing s stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	
U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing s stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	
U-4 Regressions with Qualitative Independent variables- Dummy variable technique- Testing s stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPN	rrors of
stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPM	
stability of regression models comparing to regressions, interaction effects, seasonal analysis, pi linear regression, use of dummy variables, regression with dummy dependent variables; The LPM	
linear regression, use of dummy variables, regression with dummy dependent variables; The LPM	
	1, Logii,
Recommended Books : 1. Jhonston J. (1991), Econometric Methods, McGraw Hill Book Co. Lo	ndon?
AsteriouDimitrious, (2006), Applied Econometrics, Palgrave Macmillan, New York 3. Gujr	
(1995), Basic Econometrics, (2 nd edition) McGraw Hill, New Delhi 4. Kmenta, J. (1977), Ele	
Econometrics, (reprint edition) University of Michigan Press, New York. 5. Koutsoyiannis A.	
Theory of Econometrics (2nd ed.) The Macmillan Press Ltd. London. 6. Madalla G.S.	
Econometrics, McGraw Hill, New York. 7. Intrilligator, M.D. (1978), Econometric Methods, Te	(199/),
and Applications, Prentice Hall, Englewood Cliffs, New Jersey. 8. Pindyck, Robert S. and L	· · · · · · · · · · · · · · · · · · ·
Rubinfeld, (1976), Econometric Models and Economic Forecasts, International Student edition, M	chniques
Hill.	chniques Daniel L.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	3	3	2	1	1	2	1	3	1	2	2
CO2	2	2	3	3	2	2	1	3	2	3	2	2	2
CO3	2	2	2	3	1	2	2	3	2	3	1	3	2
CO4	3	2	3	2	2	3	1	3	2	3	1	3	1
	2	2	3	3	2	2	1	3	2	3	1	3	2

SEM-3-5/8 ECO-305: (Behavioural Economics)

	PG	Semester - III (Course Outcomes: C	Os)						
Title of the	Course & Course	Behavioural Economics (ECO-	Number of Credits - 4						
Code 305)									
Pre-requisites for the Course: Good knowledge about neoclassical economics									
Course Objective: To familiarize the students with various anomalies found in neoclassical economic models									
and adopt behavioural approach to address them.									
On completion of the course, the students will be able to:									
CO1	Understand the basic	es of behavioural economics and recog	gnize the anomalies of standard						
	economic neoclassic	al models.							
CO2	Understand and eval	uate the decision making under certai	n situation.						
CO3	To examine behaviour under uncertain situation and develop understanding of modern								
	advancement in the field.								
CO4	Evaluate the strategi	c interaction & behaviour in dynamic	time framework.						

Units	Course content
U-1	INTRODUCTION: History and Evolution of Behavioral Economics, Objectives and Scope, Relationship
	with other Disciplines, Structure of the subject Matter, Methodology of the Study Theories, Evidence,
	Consilience, Foundations: The neo classical Model, Axioms, assumptions, Evolutionary Biology of
	Utility, The Neuroscientific basis of Utility, Types of Utility, Broadening Rationality, policy Implications
	Applications- Altruism and the Brain, The psychology of super market selling
U-2	Behavioral Alternatives in Decision Making under Certainty; opportunity costs, sunk Costs, Menu
	Dependence and decoy effect, Loss aversion and the endowment effect, anchoring and adjustment,
	Violation of rationality of Neoclassical Model- Gambler's fallacy, Conjunction and disjunction fallacies,
	Base rate fallacy, Conformation bias, Availability Bias, Self- evaluation Bias, Magical Beliefs, Causes of
	Irrationality, Application- Celebrity contagion and imitative magic
U-3	Decision - making under Risk and Uncertainty: Conventional Approaches to modifying Expected Utility
	theory, Prospect Theory, reference Points, Loss Aversion, Shape of Utility Function, Decision- weighting,
	Criticism of Prospect theory, Brief introduction to Recent Theories, Application- The Endowment Effect,
	Bundling and Mental Accounting, Framing and Editing, Choice Bracketing and dynamics, Application-
	why you can't find a cab on a rainy day
U-4	Inter Temporal Choice: The Discounted Utility Model- Origin, Features, Methods & Anomalies,
	Alternative Inter-temporal Choice Models- Time Preference, time Consistent Preferences, Hyperbolic
	Discounting, Modifying the Instantaneous utility Function, Case Studies- The Saving problem, The Desire
	for rising consumer profiles.

Recommended Books: Philosophical problems of behavioural economics by SteffanHeidel, Routlege, 1996 18 Varieties of modern economic rationality – from Adam Smith to Contemporary Behavioural and evolutionary economists by Michael S Zoubulakis, Routledge, 1997 Behavioural foundations of economics by J.L. Buxter, McMillan Press, Choice, Behavioural economics and addiction, edited by Ruby E Vachinich and Nick Heather, Pergamon Elsevier, 2003, Advance in understanding strategic behaviourgame theory experiments and bounded rationality, edited by Steffan Huck, Palgrave, McMillan, 2004 Loewenstein (1987) "Anticipation and the Valuation of Delayed Consumption". Economic Journal, 97(387): 666-684. Brunnermeier, Markus, K., and Jonathan A. Parker (2005). "Optimal Expectations." American Economic Review, 95(4): 1092-1118. Kahneman and Tversky (1979) "Prospect Theory: An Analysis of Decision Under Risk", Econometrica, 47(2): 263–291. List (2003) "Does Market Experience Eliminate Market Anomalies?", Quarterly Journal of Economics, 118(1): 41-71. Koszegi and Rabin (2006), "A Model of Reference-Dependent Preferences", Quarterly Journal of Economics, 121(4): 1133-1165. Sydnor, Justin. 2010. "(Over)insuring Modest Risks." American Economic Journal: Applied Economics, 2(4): 177-99 Charness and Rabin (2002) "Understanding Social Preferences with Simple Tests" Quarterly Journal of Economics, 117(3): 817–869. Lazear, Edward P., Ulrike Malmendier, and Roberto A. Weber. 2012. "Sorting in Experiments with Application to Social Preferences." American Economic Journal: Applied Economics, 4(1): 136-63. DellaVigna, List, Malmendier. 2012. "Testing for Altruism and Social Pressure in Charitable Giving". Quarterly Journal of Economics, 127(1): 1-56. Rabin (1993) "Incorporating Fairness into Game Theory and Economics", American Economic Review, 83(5): 1281–1302. Fehr and Gachter, (2000), "Fairness and Retaliation: The Economics of Reciprocity", Journal of Economic Perspectives, 14(3): 159–181. Fehr, E. and Schmidt, K. (1999) "A Theory of Fairness, Competition, and Cooperation" The Quarterly Journal of Economics, 114(3): 817-868. Thaler, Richard H. 1988. "Anomalies: The Ultimatum Game." Journal of Economic Perspectives, 2(4): 195-206.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	2	2	1	3	2	1	1	1	1	2
CO2	2	1	1	3	2	1	2	3	1	2	2	1	2
CO3	2	2	2	3	1	1	3	3	2	1	1	1	2
CO4	3	1	1	2	2	1	2	3	2	1	1	1	1
	2	1	1	3	2	1	3	3	2	1	1	1	2

SEM-3-6/8 ECO-306-A: (Indian Economy)

	PC	Semester – III (Course Outcomes: COs)						
Title of the Co	ourse & Course Code	Indian economy (ECO-306-A)	Number of Credits - 4					
Pre-requisites for the Course: Knowledge about theories and models of growth and development.								
Course Object	tive: Enable the st	udents to appreciate the evolution of Ind	dian economy, its institutional					
framework, pl	anning policy and the re	elevance of international trade.						
On completion	On completion of the course, the students will be able to:							
CO1	List the basic characteristics of Indian economy and its potential on natural resources.							
CO2	Examine agriculture a	s the foundation of economic growth and de	velopment, analyse the progress					
	and changing nature o	f agricultural sector and its contribution to the	ne economy as a whole.					
CO3	Not only appraise the	status of the economy as a whole, they wou	ld understand the basic features					
	of Odisha's economy	, sources of revenue, how the state governme	ent finance its programmes and					
	projects.							
CO4	4 Formulate policies of inclusive growth for the Indian economy in general and economy of Odisha							
	in particular.							

Units							Cours	e conter	nt					
U-1	Ind	ian Eco	nomy- 1	Basic fe	atures a	and issu	es relat	ing to ₁	populatio	n growt	th, plann	ing, mo	bilization	n of
							yment,	Poverty	, inequal	ity and I	Inclusive	growth,	, Sustain	able
	dev	velopmei	nt, Gove	rnment]	Budgetir	ıg.								
U-2													of irriga	
		and irrigation systems, storage, transport and marketing of agricultural produce and issues and related												
		constraints; technology in the aid of farmers. Issues related to direct and indirect farm subsidies and												
		minimum support prices; Public Distribution System - objectives, functioning, limitations, revamping;												
		issues of buffer stocks and food security; Technology missions; economics of animal-rearing. Food												
	1 4	processing and related industries in India- scope and significance, location, upstream and downstream requirements, supply chain management, Land reforms in India.												
U-3	Soc	cial and	Econo	mic Inf	rastructu	ıre: Edu	ucation,	Health	, Housir	ng, Enei	rgy, Por	ts, Road	ls, Airpo	orts,
													eir effects	
									elating to	India's	foreign	trade, ro	le of for	eign
			I, extern											
U-4		Odishan Economy- Basic features and issues relating to population growth, planning, mobilization of resources, growth, development and employment, Poverty, inequality and Inclusive growth, Sustainable												
							yment,	Poverty	, inequal	ity and	Inclusive	e growth	, Sustain	able
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	1	3	3	2	1	1	2	3	2	1	2	2	
CO2	2	2	3	3	2	2	1	3	3	1	2	2	2	
CO3	2	2	2	3	1	2	2	3	3	2	1	3	2	ļ
CO4	3	2	3	2	2	3	1	3	3	1	1	3	1	
	2	2	3	3	2	2	1	3	3	1	1	3	2	

SEM-3-7/8 ECO-306-B: (Regional Economics)

	PC	Semester – III (Course Outcomes: C	Os)						
Title of the	e Course & Course Code	Regional Economics	Number of Credits - 4						
		(ECO-306-B)							
Pre-requis	Pre-requisites for the Course: Basic knowledge about different aspects of Indian Economy.								
	Course Objective: To provide a broad understanding of the basics of regional economics, regional economic								
theories and regional development in India.									
On comple	etion of the course, the stud	ents will be able to:							
CO1	Define the key issues	relating to regional economic analysis	5.						
CO2	Demonstrate the theor	etical background of development dis	sparities of different regions.						
CO3	Examine the applicable	ility of theories of location, migration	, development with different						
	dimensions of regional development.								
CO4		Critique of regional planning and point out the deficiencies in removing regional as well as rural							
	urban disparities of In	dia.							

Units	Course content
U-1	Basics of Regional Economics:
	Need for study of Regional Economics, Definition of a region, Different types of regions, Differences between region and a nation, Objectives and scope of regional economic analysis - Regional economic problems – Causes - Economics of Geography – Krugman – Endogenous growth (Lucas and Romer).; Indicators of regional development, Social, Economic and Political factors in regional growth.
U-2	Regional Economic Theories – I Theories of Regional Economic Development – Cumulative Causation (Perroux, Myrdal, Hirschman) - Export base theory, Central place theory (Christaller), Sector theory (Colin Kuznets), Stages theory (Rostow).
U-3	Regional Economic Theories – II Theories of Location – Weber's and Florence - Migration and Regional Development – Todaro Model - Three dimensions of Regional Development – Density, Distance and Economic Divisions.
U-4	Regional Development in India:
	Socio-Economic Regional imbalance in India; Regional planning; Rural urban inequality; Role of Planning commission and finance commission in regional development, Trends in Regional Disparities in Income & Consumption, Sectoral Income and Employment Pattern across regions, Spatial Concentration of Industries in Liberalized Regime, Trends in regional agro production and productivity, Regional Distribution of Infrastructure, Trends in regional disparities in Infrastructure. Key issues in regional development of Odisha with special reference to Western Odisha and the KBK.
	Recommended Books: 1. Nayak Pulin B., Panda Santosh C, Pattanaik Prasanta K, "The Economy of Odisha: A Profile", OUP India (2016), 2.SethySusanta Kumar "Odisha Economy: Its growing dimensions", IBP (2019), 3. PattnaikNihar Ranjan "Economic History of Odisha", (1997), Indus Publishing Company, New Delhi. 4. Ghadei Committee Report 5. Odisha Economic Survey: 2020. 6. WODC: A profile.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	3	3	2	1	1	2	3	2	1	2	2
CO2	2	2	3	3	2	2	1	3	3	1	2	2	2
CO3	2	2	2	3	1	2	2	3	3	2	1	3	2
CO4	3	2	3	2	2	3	1	3	3	1	1	3	1
	2	2	3	3	2	2	1	3	3	1	1	3	2

SEM-3-8/8 ECO-306-C: (Indian Financial System)

	PG Semester – III (Course Outcomes: COs)							
Title of the Co	Title of the Course & Course Code Indian Financial System-(ECO-306-C) Number of Credits - 4							
Pre-requisites for the Course: Basic knowledge on Indian Financial System								
Course Object	Course Objective: To acquaint the students with the theory and practice of different financial institutions,							
financial assets	s, markets, government policies and the role of financial sector over time.							
On completion	n of the course, the students will be able to:							
CO1	List the broad features of Indian financial institutions with the regulating mechanism of NBFCs							
	and promotion of development banking.							
CO2	Describe the trend of savings & liabilities, Mobilization of resources through mutual funds and							
	development banking analysis.							
CO3	Examine the existence and development of non-banking financial institutions, know the important							
	role of Mutual funds, investment companies etc., utilize and effectively participate in the							
	development process.							
CO4	Experiment the conditions of financial markets and its impact							
	in the economy.							

 U-1 Introduction to Indian Financial System Significance and definition, purpose and organization, Liberalization of the financial system, determining savings, Composition of savings, financial liabilities, saving rate trend in India, F Intermediation U-2 Mutual Funds Objectives of Mutual funds, Resource Mobilization, Benefit of Mutual funds, Mutual funds i Types of Mutual Funds, Return from Mutual Funds, Mutual Fund holder's Account, SEBI direct Mutual Funds, Private Mutual Funds, Asset Management Company, Unit Trust of India, Mutua abroad, Evaluation of Performance of Mutual Funds, Money market Mutual Funds, Collective Inv schemes U-3 Non - Banking Finance Companies Definition, Mutual Benefit Finance Companies, Financial sectors reform, Liberalization mease NBFCS, Regulations for NBFCS accepting Public Deposits, Limits on acceptance of Deposits, Non-Banking companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Non- Substance Companies) Substance Companies (Substance Companies) Substance Companies (Substance Companies) Substance Companies S	inancial 1 India,
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Mutual Funds, Private Mutual Funds, Asset Management Company, Unit Trust of India, Mutual abroad, Evaluation of Performance of Mutual Funds, Money market Mutual Funds, Collective Invischemes U-3 Non - Banking Finance Companies Definition, Mutual Benefit Finance Companies, Financial sectors reform, Liberalization mease NBFCS, Regulations for NBFCS accepting Public Deposits, Limits on acceptance of Deposits,	f
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schemes U-3 Non - Banking Finance Companies Definition, Mutual Benefit Finance Companies, Financial sectors reform, Liberalization measure NBFCS, Regulations for NBFCS accepting Public Deposits, Limits on acceptance of Deposits,	l Funds
U-3 Non - Banking Finance Companies Definition, Mutual Benefit Finance Companies, Financial sectors reform, Liberalization measures NBFCS, Regulations for NBFCS accepting Public Deposits, Limits on acceptance of Deposits,	estment
Definition, Mutual Benefit Finance Companies, Financial sectors reform, Liberalization measured NBFCS, Regulations for NBFCS accepting Public Deposits, Limits on acceptance of Deposits,	
NBFCS, Regulations for NBFCS accepting Public Deposits, Limits on acceptance of Deposits,	
Non-Banking companies, deposits, distribution of deposits, Comparison of Net Owned Funds (Net Owned Funds)	
	OF) and
deposits, Capital issues by Finance Companies	
U-4 Development Banking	
Nature of development banking, Financial appraisal, Liquidity Ratios, BEP, Technical Ap	
Economical Appraisal and Social Cost - Benefit Analysis ,Promoter's Contribution, Appraisin	ig term
Loans, Choice of Financial Institutions	
Recommended Books :1. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata N	
Hill, 5th edition, 2011. 2. Prasanna Chandra, Financial Management, Theory and Practice, Tata M	
Hill, 6th edition, 2006. 3. John C., Hull, Options, Futures and Other Derivatives, Pearson Educat	
edition, 2005. 4. Dominick Salvatore, International Economics: Trade and Finance, John	
International Student Edition, 10th edition, 2011 5. Edminister, R.O, Financial Institutions, mark	1
Management, Mc Graw Hill, New York. 1986. 6. R.I Robonson, and D. Wrightman, Financial Mark	
Graw Hill, London.1981.	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	3	3	2	1	1	2	3	2	1	2	2
CO2	2	2	3	3	2	2	1	3	3	1	2	2	2
CO3	2	2	2	3	1	2	2	3	3	2	1	3	2
CO4	3	2	3	2	2	3	1	3	3	1	1	3	1
	2	2	3	3	2	2	1	3	3	1	1	3	2

SEM-4-1/5 ECO-401: (Public Economics-II)

	PG Semester – IV (Course Outcomes: COs)										
Title of the	e Course & Course Code	Public Economics-II (ECO-401)	Number of Credits - 4								
Pre-requisi	Pre-requisites for the Course: Basic knowledge of Indian Economy.										
Course Ob	Course Objective: To understand the policies, institutions and components of Indian Public Finance.										
On comple	n completion of the course, the students will be able to:										
CO1	Understand important	theories of public expenditure and re-	eforms in Indian expenditure budgeting.								
CO2		ental concepts of public economics, l reference of Indian economy.	public expenditure, public revenue, and								
CO3	Interpret various aspec	ts of fiscal federalism in Indian fisca	al scenario.								
CO4	Review and assess the	recent developments of the differen	t aspects of fiscal federalism.								

Units	Course content
U-1	
	Public expenditure- Wagner's law of increasing state activities ; Wiseman- Peacock hypothesis ; Pure
	theory of public expenditure ; Structure and growth of public expenditure ; Criteria of public investment ;
	Social costbenefit analysis- Project evaluation, Estimation of costs, discount rate ; Reforms in expenditure
	budgeting : Programme budgeting and zero base Budgeting.
U-2	Taxation- Theory of incidence ; Alternative concepts of incidence- Allocative and equity aspects of
	individual taxes ; benefit and ability to pay approaches ; Theory of optimal taxation ; Excess burden of
	taxes ; Tradeoff between equity and efficiency ; Theory of measurement of dead weight losses ; The
	problem of double taxation.
U-3	Public debt- Classical view of public debt ; Compensatory aspect of debt policy ; Burden of public debt ;
	Sources of public debt ; Debt through created money ; Public borrowings and price level ; Crowding out
	of private investment and activity; Principles of debt management and repayment. Fiscal federalism-
	Principles of multi-unit finance
U-4	Fiscal federalism in India ; Vertical and horizontal imbalances ; Assignment of function and sources of
	revenue ; Constitutional provisions ; Finance commission and Planning commission ; Devolution of
	resources and grants ; Theory of grants ; Resource transfer from union to states- Criteria for transfer of
	resources ; Centre- state financial relations in India ; Problems state's resources and indebtedness ;
	Transfer of resources from Union and States to local bodies.
	Recommended Books :1. Atkinson, A.B. and J.E. Siglitz (1980) Lectures on Public Economics, Tata
	McGraw Hill, New York 2. Auerbach, A.J. and M. Feldstern (Eds) (1985) Handbook of Public Economics,
	Vol.I, North Holland, Amsterdam. 3. Jha, R (1998) Modern Public Economics, Routledge, London 4.
	Musgrave, R.A. (1959) The Theory of Public Finance, McGraw Hill, Kogakhusa, Tokyo 5. Shoup, C.S.
	(1970) Public Finance, Aldine, Chicago 6. Peacock . A and G.K. shaw (1976) The Economic Theory of
	Fiscal Policy, George Allen and Unwin, London. 7. American Economic Association (1955) Readings in
	Fiscal Policy, George Allen and Unwin, London.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3		1		2	1	2	2	1	2	2	3
CO2	2	2		1		1	2	2	1	2	3	2	2
CO3	2	2		1		2	2	2	2	2	1	3	2
CO4	1	1		1		1	3	3	2	2	3	2	1
	2	2		1		2	2	3	2	2	3	2	2

SEM-4-2/5 ECO-402: (International Economics – II)

	PG Semester – IV (Course Outcomes: COs)											
Title of the	Course & Course	International Economics-II	Number of Credits - 4									
Code		(ECO-402)										
Pre-requisites	Pre-requisites for the Course: Basic knowledge of micro and macro economics											
Course Object	Course Objective: To provide an understanding of the broad principles of foreign trade, exchange rate											
determination	and international mor	etary system.										
On completion	n of the course, the stu	dents will be able to:										
CO1	Deduce the effect of	international trade on income and en	nployment.									
CO2	Reflect on the open a	and restrictive policy of international	trade.									
CO3	Corroborate the evol	ution and existence of International	monetary system.									
CO4	Conjecture the possi	Conjecture the possible changes in the role of the international financial institutions such as										
	WTO, World Bank,	IMF in the forthcoming periods.										

Units	Course content
U-1	Foreign trade multiplier with and without foreign repercussions and determination of national income and output, Demand and supply of export and import, Foreign exchange market, determination of foreign
	exchange rates, purchasing power parity, spot exchange rates, forward exchange rates, arbitrage and speculation
U-2	Free trade vs protection, Tariff: meaning and types, partial and general equilibrium andits welfare effects, theory of optimum tariff, effective rate of tariff, customs union- meaning and different types of economic integrations, partial and general equilibrium and its welfare effects
U-3	International Monetary System (past, present and future) gold standard, Brettonwoods system- its evolution and operation. Problems of international liquidity and role of IMF, conditional clauses of IMF, SDRs and developing countries
U-4	International debt and developing countries ; International Financial institutions – UNCTAD, World bank, Asian Development bank, WTO- their functions and objectives.
	Recommended Books: 1. Salvatore, D (2014) International Economics: Trade and Finance, Wiley
	Students' Edition, 11th Edition. 2. Soderstein, Bo. And G. Reed, (1994) International Economics, The Palgrave Macmillan, London, 3rd (revised) edition. 3. Cherunilam, Francis (2017), Mc Graw Hill,
	Education 19 4. Carbough, R.J. (1999) International Economics, International Thomson Publishing, New
	York. 5. Chacoliades, M. (1990) International Trade: Theory and Policy, Mc Graw Hill, Kogakusha,
	Japan 6. Acharya, Rajat (2013) International Economics An Introduction to Theory and Policy, Oxford
	University Press, New Delhi.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3		2		2	1	3	2	1	2	2	3
CO2	3	2		2		1	2	3	2	3	3	2	2
CO3	2	3		2		2	2	3	3	3	1	3	2
CO4	3	1		2		1	3	3	2	2	3	2	3
	3	3		2		2	2	3	2	3	3	3	3

SEM-4-3/5 ECO-403: (Environme	ent & Resource Economics- II)
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SEN1	SEM-4-5/5 ECO-405. (Environment & Resource Economics- 11)									
	PC	<u> 5 Semester – IV (Course Outcomes: CC</u>	Ds)							
Title of the Co	ourse & Course Code	Environment & Resource	Number of Credits - 4							
		Economics – II (ECO-403)								
Pre-requisites for the Course: Fundamental knowledge of principles of public finance and concepts of										
development.			-							
Course Object	ive: To provide studen	ts an exposure to different debates and								
approaches in	environmental econom	ics.								
On completion	n of the course, the stud	ents will be able to:								
CO1	List the dynamic resource utilisation problems in the context of optimal allocation of resources,									
		ons and Human Economy.	1							
CO2	Understand the diver	se frameworks of national and globa	l environmental problems, analytical							
		and regulatory mechanisms for er								
	sustainability.									
CO3	Argue that economic	objectives are not necessarily in conflic	et with environmental goals, and that							
	e	combined with community participation	6							
	environmental quality		1							
CO4		onment policy tools to address the issue	es of management of environment and							
		gional and national level.	5							
	1	U								

Units	Course content
U-1	The economic process and assimilative capacity of the environment, Failure of the market to allocate environmental resources optimally, common property resources and the economic problem, The tragedy of the commons, The macro economic effects of environmental regulation,
U-2	The economics of environmental regulation- pollution taxes, Transferrable emission permits, Measuring Environmental damage: Total economic value, Valuation methodologies- WTA, WTP, Hedonic price approach, Contingent valuation, Travel cost approach
U-3	Population and environmental quality, Poverty and its interaction with population and environment, Social and economic equity and environmental sustainability, urbanization and its impact on environment, Trade and environment, Pollution Haven and race to the bottom
U-4	India's environmental policy issues- Environmental regulations in India, People's participation in the management of common and forest lands- the institution of Joint Forest Management, and Joint Protected area Management, Social Forestry- rationale and benefits, Climate change and its economics.
	Recommended Books: 1. Kolstad, C. D (1999) Environmental economics, Oxford University Press, New Delhi 2. Sankar, U (Ed.) (2001) Environmental Economics, Oxford University Press, New Delhi 3. Hanley N (1997) Environmental Economics in Theory and Practice, Macmillan, London. 4. Tietenberg T. (1994) Environmental Economics & Policy, Harper Collins, New York. 5. Bromley D W, (ed.) (1995) Handbook of Environmental Economics, Blackwell, London 6. Bhattachary, R.N. (2001) Environmental Economics an Indian Perspetive, Oxford University Press, New Delhi 7. Hussen, A.M. (1999) Principles of Environmental Economics, Routledge, London.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	2	2	1	3	2	1	1	1	1	2
CO2	2	1	1	3	2	1	2	3	1	2	2	1	2
CO3	2	2	2	3	1	1	3	3	2	1	1	1	2
CO4	3	1	1	2	2	1	2	3	2	1	1	1	1
	2	1	1	3	2	1	3	3	2	1	1	1	2

SEM-4-4/5 ECO-404: Advanced Econometrics – II

PG Semester – IV (Course Outcomes: COs)									
Title of the Co	ourse & Course Code	Advanced Econometrics –II	Number of Credits - 4						
		(ECO-404)							
Pre-requisites	Pre-requisites for the Course: Students must have basic knowledge of Statistical and Mathematical methods.								
Course Object	Course Objective: To provide knowledge on Econometric applications of Economic theory.								
On completion	On completion of the course, the students will be able to:								
CO1	Develop understanding of the models in respect of simultaneous equations, time series analysis,								
	multivariate analysis and dynamic econometric models.								
CO2	Examine the forecasting technique with a single equation regression model and ARIMA technique								
	with Box-Jenkins methodology.								
CO3	Organize the models in econometrics by adopting PCA, Discriminant analysis, factor analysis and								
	cluster analysis in mult	ivariate problems.							
CO4	Judge the basic concep	Judge the basic concept of Auto regressive distributed lag model (ARDL) developed which will be							
	helpful for future resea	rch work with time series data.							

Units	Course content
U-1	Simultaneous Equation models- Introduction and examples; The simultaneous equation bias and
	inconsistency of OLS estimators ; The identification problem ; Rules of identification- order and rank
	conditions ; methods of estimating simultaneous equation system ; Recursive methods and OLS ; Indirect
	least squares (ILS), 2SLS, 3SLS and ML methods- Applications.
U-2	Time series Analysis- Deterministic time series models and stochastic time
	series model, forecasting techniques, Forecasting with a single equation regression model, forecasting with
	ARIMA modeling; Box-Jenkins methodology
U-3	Multivariate analysis- principal component analysis (PCA) & Discriminant Analysis, Factor Analysis,
	Cluster Analysis
U-4	Dynamic econometric model- Autoregressive and distributed lag models- Koyck model, partial adjustment
	model, adaptive expectations ; Instrumental variables ; Almon approach to distributed lag models,
	Compound Geometric Lag model.
	Recommended Books1. Jhonston J. (1991), Econometric Methods, McGraw Hill Book Co. London 2.
	Asteriou Dimitrious, (2006), Applied Econometrics, Palgrave Macmillan, New York 3. Gujrati D.N.
	(1995), Basic Econometrics, (2nd edition) McGraw Hill, New Delhi 22 4. Kmenta, J. (1977), Elements of
	Econometrics, (reprint edition) University of Michigan Press, New York. 5. Koutsoyiannis A. (1977),
	Theory of Econometrics (2nd ed.) The Macmillan Press Ltd. London. 6. Madalla G.S. (1997),
	Econometrics, McGraw Hill, New York. 7. Intrilligator, M.D. (1978), Econometric Methods, Techniques
	and Applications, Prentice Hall, Englewood Cliffs, New Jersey. 8. Pindyck, Robert S. and Daniel L.
	Rubinfeld, (1976), Econometric Models and Economic Forecasts, International Student edition, McGraw-
	Hill.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	3	3	2	1	1	2	1	3	1	2	2
CO2	2	2	3	3	2	2	1	3	2	3	2	2	2
CO3	2	2	2	3	1	2	2	3	2	3	1	3	2
CO4	3	2	3	2	2	3	1	3	2	3	1	3	1
	2	2	3	3	2	2	1	3	2	3	1	3	2

SEM-4-5/5 ECO- 405: Dissertation/Project

PG Semester – IV (Course Outcomes: COs)										
Title of the C	Course & Course Code	Dissertation	Number of Credits - 4							
Pre-requisites for the Course: Students must have basic knowledge of Statistical and Mathematical methods.										
Course Objective: To expose students to the social and real world contexts in which the subjects										
taught in tl	taught in the classroom have applications.									
On completion of the course, the students will be able to:										
CO1	Identify an economic problem and build a hypothesis to examine									
CO2	Apply the text book knowledge in real world economic scenario									
CO3	Analyse and interpret t	Analyse and interpret the results derived from data.								
CO4	Write research papers.									

The Dissertation/project is intended to establish the connection between Economics as confined to the text books and class rooms and Economics at play in the ground. It is expected to give an empirical content to the subject. Economics is defined as the study of mankind in the ordinary business of life. It studies individual as well as group behavior.

Dissertation/Project work at the postgraduate level is an in-depth study on a topic chosen by the student. The objective of the project work for the students at postgraduate level is to expose students to the social and real world contexts in which the subjects taught in the classroom have applications. Therefore, the topic must be related to the field of study the student is enrolled. It is undertaken with the guidance of a faculty supervisor, and involves a prolonged period of investigation and writing. The supervisor is supposed to help the student and mentor him/her throughout, from selection of the topic to submission of the project report.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	2	3	2	2	2	3	2	1	2	2	3
CO2	2	2	2	3	1	2	1	3	3	2	3	3	2
CO3	3	3	3	3	2	1	2	3	3	2	2	3	3
CO4	3	3	2	3	3	2	3	3	2	3	2	2	3
	3	3	2	3	2	2	3	3	3	2	2	3	3