DEPARTMENT OF ECONOMICS CENTRAL UNIVERSITY OF RAJASTHAN

Learning Outcome Based Curriculum Framework (LOCF) For Int.

M.Sc. B.Ed. in Economics

Programme Objectives: The M.Sc. Bed Programme is intended to enable the students to understand the principles, theories and applications of both disciplines of economics and education, to develop classroom teaching skills and pedagogy of economics education and to apply the economic concepts and tools on research of economics and education field

Programme Outcome:

- 1. To gain an understanding of core economic principles and how they apply to a wide range of real-world issues.
- 2. To analyze relevant economic literature, concretize economic problems, and have insight into how you may draw the connection between theory and empirical conditions
- 3. To use economic models and communicating both the underlying assumptions of these models, as well as the results from theoretical and empirical model-based analysis.
- 4. To analyze existing economic models and evaluate their relevance for theoretical and practical problem solving
- 5. To use relevant models and methods, independently but under supervision, and undertake applied work and research projects in economics
- 6. To conduct research to evaluate important questions in social sciences by reviewing academic literature, collecting data, and applying econometric methods.

		Course: Microeconomics I (ECO	9 401)							
TF	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED							
Т	Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4							
			Total: 4							
Cou	ırse Objective:									
Соц	The Course examines how individuals and firms make decisions by weighing up preferences, costs and benefits, and how the interaction of their decisions leads to utility-maximization, market and social outcomes. The model of market supply and demand is employed to examine the effects of taxes, subsidies and other government interventions in market activity. The implications of different market structures, including perfect competition and monopolistic are examined. Course Outcomes: The students will be able to									
1	Demonstrate an understate to compare the choices of		s, demand functions and preference structure							
2	Demonstrate the ability	to apply optimization techniques to decisi	ons made by consumers and firms							
3	Students will be able t function analysis	o demonstrate an understanding of prod	lucer choice, including cost and production							
4	Demonstrate an underst making that underlies m		esources and the optimal individual decision							
5	Identify perfect competition, monopoly and monopolistic market structures and discuss their implications for									
6	Explain the advantages and potential shortcomings of markets, discuss the conditions under which markets do and do not work well									
	of the consumer under a Comparative statics of Slutsky Equation, derive Perfect Substitute, perfe Unit 2 Theory of Production are proportions, the multi-p	Iternative preference structures- Utility, I the consumer's decision, income and substitution of ordinary and compensated demarked compliments and quasi-linear utilities, I d Costs, The Production function- Assume roduct firm and production possibility se	ptions, Variation in Scale, Variation in input t. Minimization of costs in the long and the							
	Cobb-Douglas, CES, and	cost functions from production functions d Trans-log production functions and their	s; derived demand for factors of production, properties;							
	Unit 3 Perfect competition — short run and long run equilibrium of the firm and industry, supply curve; Monopoly — short run and long run equilibrium, price discrimination, welfare aspects, monopoly control and regulation; Natural Monopoly									
	Unit 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,									
	 Basic Readings Gravelle, H and Ray Rees (2004), <i>Microeconomics</i>, 3rd edition, Prentice Hall Longman London. Sen, A. (1999), <i>Microeconomics : Theory and Applications</i>, Oxford University Press, New Delhi. Varian, H. (2005), <i>Intermediate Microeconomics: A Modern Approach</i> W.W. Norton, New York. Roy Choudhary, K Microeconomics, Vol 1. Varian, H. (2004), <i>Microeconomic Analysis</i>, W.W. Norton, New York. Microeconomic Theory: Basic Principles and Extensions (Upper Level Economics Titles)Cengage; 11 edition (2014) 									
	T	PO-CO Compliance Matrix								
	PO1	PO2 PO3 PO4 PO3	5 PO6							

CO1	3	2							
CO2	2	2		3					
CO3	3	2		3					
CO 4	2			3					
CO 5	2								
CO 6	2								
*1: Low, 2:	*1: Low, 2: Medium, 3: High								

	Course: Macroeconomics I (ECO	402)
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4

This course Introduces students to the main classes of models in modern macroeconomics. The first half of the course will be aimed at providing students with astound knowledge of modern macroeconomic theories of income and employment determination while the second half will deal with the theories of consumption and investment along with measures to analyze unemployment and inflation including contrasting economic views on unemployment. Final part of the course will mainly focuses on integration of goods and money market and the use of fiscal and monetary police to achieve economic goals.

Course Outcomes: The students will be able to

- 1 Demonstrate the problem of macroeconomic aggregations using partial and general equilibrium analysis
- Examine how the economy behaves at the aggregate level and how national income is measured and determined both in closed and open economy context
- Demonstrate various theories explaining the major factors determine consumption expenditure on final goods and services.
- Define money and describe the theories on money demand and money supply including the process of money creation by the banking system and the role of the central bank.
- Apply macroeconomic measures to analyze unemployment and inflation including contrasting economic views on unemployment.
- Explain the components of aggregate economic activity, fluctuations and effects for the national economy and how fiscal policy is used to achieve economic goals.

Unit - 1: Introduction to Macroeconomics

Why and how to study macroeconomics; Scope of macroeconomics, Macroeconomic Variables- Stocks and Flows, Problem of Aggregation: Macroeconomic Equilibrium. National Income Accountings.

Macroeconomic Debate (Introductory)

Classical Macroeconomics: The Economy in the long run; Keynesian approach of Macroeconomics.

Models of Income and Employment Determination: An Overview. Walrasian interpretation of Keynesian unemployment; New Keynesian Interpretation, Post-Keynesian Interpretation. New classical economics.

Unit - 2 Consumption Function and Investment Function

Keynes consumption theory, Kuznet's Puzzle, Life Cycle Hypothesis, Permanent Income Hypothesis, Random Walk Hypothesis, Keynesian Theory of Investment, Accelerator principles, Neo-Classical and New Classical Theories of Investment.

<u>Unit - 3</u> Money and Inflation

Demand for Money- Friedman, Baumol, Tobin, Patinkin's Real Balance Effect, Issues regarding endogenous and exogenous supply of money, R.B.I.'s Approach to Supply of Money Demand-Pull and Cost-Push Inflation, Phillips Curve Controversy, Natural Rate of Unemployment-Adaptive expectations and Rational expectations models of inflations.

The quantity theory of money.

$\underline{Unit - 4}$ Economy in the short-run

Goods markets and the IS curve, Financial or money market and the LM curve, Goods market and money market together-The IS-LM model- closed economy case; Fiscal policy and monetary policy under alternative supply assumptions, Policy Mix. Aggregate demand and supply.

Recommended Texts.

- 1. Dornbusch Rudi, Fischer, Stanley and Startz Richard. *Macroeconomics*, Tata McGraw-Hill Publishing Co. Ltd.
- 2. Mankiw Gregory N. Macroeconomics, Worth publishers
- 3. Blanchard Olivier. Macroeconomics, Prentice Hall

			PO-CO	O Complianc	e Matrix			
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1	2	3	2					
CO2	2		2	3	2			
CO3	2	2						
CO 4	1	2						
CO 5			3	2	2			
CO 6	2	2						
*1: Low, 2: N	Medium, 3: Hi	gh						

Tl	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED				
7	Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4				
			Total: 4				
Cor	arse Objective:						
Cov	provide the basics of ma various applied econom	wide range of mathematical methods in appartmentical methods and the range of mathematics problems. Also the course attempt to produce the range and formulating various economics will be able to	matical techniques that are used to explain provide the insight of some advance level				
1		nge of mathematical tools that are used to ex	plain various economic theories				
2		te the economic meaning of mathematical m					
3	Optimize the resources	and thus understand how the economic police	cymakers make decision.				
4	4 Demonstrate most of the theories in economics precisely and strategically.						
5	Understand the econom	ic dynamics.					
	Unit 1						

Concept of a function; Limits, continuity and differentiability of a real valued function; Convex and concave functions, Differentiation- Partial and total; Interpretation of partial derivatives. Optimization with single and multivariable functions- Unconstrained and constrained optimization in simple economic problems. Integration-simple and Definite, Applications to Economic variables

Unit 2

Concept of a vector - its properties; Concept of matrix - their types, Simple operations on matrices, matrix inversion. Determinants and their basic properties; Solution of simultaneous equations through Cramer's rule; Jacobians and Hessians: Input-output Analysis. Difference equations - Solution of first order and second order difference equations; Differential Equations

Unit 3

Linear programming — Basic concept; Formulation of a linear programming problem — Its structure and variables; Nature of feasible, basic and optimal solution; Solution of simple linear programming problems through graphical and simplex method; Concept of duality and statement of duality theorems; Formulation of the Dual and its interpretation.

Unit 4

Game Theory: an introduction. Dominated and Dominant Strategies: The Prisoner's Dilemma, mixed strategy Nash Equilibrium; Saddle point solution; Simple applications to economics.

Recommended Texts

- 1. Chiang, Alpha, C. and Kevin Wainwright. Fundamental methods of Mathematical
- 2. Economics, latest edition, McGraw Hill.
- 3. Knut Sydsaeter and Peter J Hammond. Mathematics for Economic Analysis, Pearson
- 4. Education India.
- 5. Carl P Simon and Lawrence Blume. Mathematics for Economists, W. W. Norton &
- 6. Company.
- 7. Mike Rosser. Basic Mathematics for Economists, Routledge
- 8. Eric Rasmusen. Games and Informations, Basil Blackwell.
- 9. Martin, J Osborne. An Introduction to Game Theory, Oxford University Press.

			PO-CO C	Compliance N	Matrix			
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1	2	2	2	2				
CO2			3	3				
CO3			2	2	2	2		
CO 4			2	2	2	2		
CO 5		3	2	3				
*1. Low 2. Med	lium 3. High							

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	Co	ourse Name: Environmental Economics	and Policy (ECO 404)						
T	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
7	Γheory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4						
			Total: 4						
Coı	urse Objective:								
-	problems. This course economic regulatory too	targets to apprise the environment-econo ls in handling environmental problems.	peconomics in dealing with environmental my interactions and familiarize the various						
Coi	urse Outcomes: The stude								
1	Understand the main interactions between the environment and the economy and the physical constraints that place limits on the interaction								
2	Be familiar with the history of the discipline of environmental economics and what is included in the discipline								
3			ail allocate environmental goods optimally.						
4		ork for correcting market failures.							
5		es to analyze environmental problems and							
6	Have the knowledge of critique of these matters		, criteria for its design and assessment, and						
7	Apply the various quant	itative regulations on the basis of criteria of	of cost effectiveness.						
	MODULE I (15) What is environmental e	economics?							
	Distinction between environmental Economics and natural resource economics. Introduction to Environmental Economics: Historical perspectives (classical, neo-classical and modern) Interface between Economy, Environment and Development; Environment versus development Controversy. First and second law of thermodynamics. Efficiency and choice, Problems of Market Failure: Public bads and externalities. Social								
	choice of optimum pollu		mure, rubile bads and externations, Social						
		Regulation: Pigovian solutions; Subsidies ch: bargain Solution. Buchanan's theory.	for Abatement of pollution, Property Rights						
	MODULE III (15)								

Quantitative regulation: Command and Control- Standard setting; Tradable pollution permits; Refundable deposits, Output Tax.

MODULE IV (15)

The Problem of uncertainty and risk in Environmental policy choice; Regulation with unknown Control cost; Monitoring emissions, enforcement and Moral hazard; Environmental Risk and uncertainty.

Suggested Texts:

- 1. Kolstad, C, D. (2003) Environmental Economics, Oxford university Press
- 2. Thomas and Callan, Environmental Economics, Cengage Learning, 2009.
- 3. Tietenberg, T. (1996), Environmental and Natural Resource Economics, Harper Collins, College Publishers, New York, Fourth Edition
- Bhattacharya, R. N. (Edited) (2001), Environmental Economics: An Indian Perspective, Oxford University Press, New Delhi.

	PO-CO Compliance Matrix								
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	2	2							
CO2	2	2							
CO3		2	2	2					
CO4		2	2	2					
CO5		2	3	3	2	2			
CO6	2	2			2	2			

CO7		2	3	3	2	2			
*1: Low, 2: Med	*1: Low, 2: Medium, 3: High								

		Course Name: Microeconomics II ((ECO407)						
T	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
r	Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4						
			Total: 4						
Co	urse Objective:								
	policy, and micro-found The workhorses of mac Familiarity with the mat	dations. The focus will be on substantive roeconomic issues will be applied to analyerial covered in texts as mention in Macro	oeconomics of fluctuations, open economy, issues and applications of basic principles. yse economy-wide topics of current interest. economics-I is assumed.						
Co	urse Outcomes: The stude								
1		ability of explaining some core economic							
2	Demonstrate how the ec	onomy works at different situations both is	n short-run as well as long-run.						
3	Apply the economic theories the contemporary economic and social issues								
4	Develop skills of synthesising the argument found in academic research and also in media.								
5	Develop skill of logical Oligopoly & Game Th								
	and collusive (Cartels monopsony and bilate Strategies, Repeated Ga Theory of Distribution Neo-classical approach	and mergers, price leadership) model ral monopoly; Game Theory: Nash Eqmes, Zero-Sum Game, Mixed Strategies (15) — Marginal productivity theory; Product	d demand curve and Stackelberg's solution) s; Price and output determination under juilibrium, Prisoners' Dilemma, Dominant exhaustion theorem; Elasticity of technical istribution in imperfect product and factor						
	General Equilibrium(1	.5)							
	Partial and general equi existence, stability and Production without cons	librium, Walrasian excess demand and inp l uniqueness of equilibrium and genera sumption — one sector model	ut-output approaches to general equilibrium, ll equilibrium, coalitions and monopolies;						
	Welfare Economics (1:								
	Compensation principle		alue judgment; Social welfare function; ossibility theorem; Rawl's theory of justice, y, Public Good						
	References								
		l Ray Rees (2004), <i>Microeconomics</i> , 3 rd ec Michael D. Wiston and Jerry G. Green (19							
	Delhi.	Microeconomics: Theory and Application							
	4. Stigler, G. (1996), <i>Theory of Price</i> , (4th Edition), Prentice Hall of India, New Delhi.								

Varian, H. (2004), Microeconomic Analysis, W.W. Norton, New York.

PO3

Modern Microeconomics 2e, Koutsoyiannis 2nd Revised edition Edition 2nd Publisher:

PO-CO Compliance Matrix

PO6

PO5

PO4

Roy Choudhary, K; Microeconomics, Vol 2,3.

Macmillan, ISBN: 9780333778210, 0333778219

PO2

PO1

CO1	2	2							
CO2	2	2	2						
CO3			3	3	3				
CO 4					3	3			
CO 5	2	2	3			2			
*1: Low. 2:	*1: Low. 2: Medium. 3: High								

Course Name: Macroeconomics II (ECO 408)										
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED								
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4								
		Total: 4								

The Course will selectively cover recent developments in macroeconomics of fluctuations, open economy, policy, and micro-foundations. The focus will be on substantive issues and applications of basic principles. The workhorses of macroeconomic issues will be applied to analyze economy-wide topics of current interest. Familiarity with the material covered in texts as mention in Macroeconomics-I is assumed.

Course Outcomes: The students will be able to

- 1 Demonstrate how the economy works at different situations both in short-run as well as long-run.
- 2 Apply the economic theories the contemporary economic and social issues.
- 3 Understand how the fiscal policy makers and the monetary policy makers interact and also they can able to analyze the policy decision.
- 4 Improve to make economic policy debate.

Module-1 Macroeconomics in the Short Run (20)

Fluctuations of Macroeconomic variables, The Stylized facts.

Open Economy Issues: Open economy IS-LM and IS-MP, the Mundell-Flemming Model, Macroeconomic Policy and Exchange Rate Regimes. Asset Price Volatility, Interest rate and Exchange rates, Crisis models and Strategic interactions.

Module-2 Micro-foundations of Real and Nominal Rigidities (20)

Determination of Aggregate supply curve, Wage-Price rigidities. Imperfect Information, Imperfect Competition and Asymmetric Information, Solving for Rational Expectation Equilibrium, Coordination Failure

Module-3 Macroeconomics in the Medium Run (10)

Ricardian Equivalence, the Open economy consumption smoothing, and foreign capital, the firm; Tobin's 'q' theory of investment, Business Cycle Dynamics-nominal and real.

Module-4 Macro Policy (10)

Coordination of Fiscal and Monetary Policy, Rules versus Discretion, Credibility, Commitment devices, Monetary Transmission Mechanism and Targeting, Policy debates.

Recommended Texts-

- 1. Blanchard Olivier & Fischer Stanley. Lectures on Macroeconomics. Cambridge: MIT Press,
- 2. Blanchard Olivier. *Macroeconomics*, Prentice Hall
- 3. Heijdra B., van der Ploeg F. Foundations of Modern Macroeconomics, Oxford University Press
- 4. Romer D. Advanced Macroeconomics. McGraw Hill Book Company: London,

PO-CO Compliance Matrix									
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	2	2							
CO2			3	3	2	2			

CO3	2	2	2	1							
CO 4				3	3	3					
*1: Low, 2: Med	*1: Low, 2: Medium, 3: High										

Course Name: Theories of Economic Growth (ECO 409

TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4
		Total: 4

This course offers an introduction to the theories and models of economic growth. It will use these models to shed light both on the process of economic growth at the world level and on sources of income and growth differences across countries. Topics covered include income distribution and economic growth, where Kaldor and Pasinetti's work will be mentioned, and the standard economic growth model of Solow. Macroeconomic questions addressed include: Why are some countries rich and some poor? What differences among countries can explain economic success and failures? This course is aimed at Economics students on the Mathematical Pathway and homework questions will typically involve solving problems etc. Course also employs the knowledge of endogenous growth models of AK, Lucas and Romer and its interpretation within theoretical model.

Course Outcomes: The students will be able to

- 1 Demonstrate a deep analytical understanding of exogenous and endogenous growth models
- 2 Understand the main insights into the economic growth process that economists have gleaned over the past half century.
- 3 Solve and manipulate a variety of simple models in economic growth.
- 4 Identify applications and limitations of the models learned.
- 5 Develop an understanding of the evolution of growth models;
- Display a good grasp of those factors that contribute to or inhibit economic growth (population, capital, technology, human capital, and institutions;
- 7 Develop the understanding of Solow growth model and its applications in real life
- 8 Understand the conditional and unconditional convergence in growth models
- Develop the understanding of role of money, wealth, saving, physical capital, income distribution, and role of initial per capita, in economic growth.

Module-1 (15)

Problem of Economic Growth- Problem of Economic Growth and the General Solution; Growth Equilibrium; Harrod –Domar Model of Economic Growth

Module-2 (15)

Neo-Classical Models of Growth: Growth model of R.M. Solow, Instability & Convergence debate, Ms. Joan Robinson and Concept of Golden Age and Golden Rule of Accumulation; Models of Optimum Economic Growth- Keynes-Ramsey Rule, Cass-Koopmans Model

Module-3 (15)

Neo-Keynesian Models of Growth & Distribution- Kaldor and L. Pasinetti

Technology and Growth- Hicks, Harrod and Solow- Neutrality of Technical Change, Embodied and Disembodied Technical Change, Growth Accounting.

Money and Growth- James Tobin and H.G. Johnson;

Module-4(15)

Endogenous Growth Models- AK Models, Lucas Model of Human Capital, Romer Model of Endogenous Innovation.

Recommended Texts

- 1. Barro, Robert J. and Xavier Sala-i-Martin, Economic Growth, McGraw-Hill,
- H.G. Jones, "An Introduction to Modern Theories of Economic Growth" McGraw-Hill Book Company
- 3. Jones C.I., "Introduction to Economic Growth" W.W. Norton & Company, New York
- 4. Romer, David, Advanced Macroeconomics, New York: McGraw-Hill Co.,
- 5. Sen, A.K.,ed.(1970) Growth Economics, Penguin Books.
- 6. Blanchard, O. and Fischer, S. 1989. Lectures on Macroeconomics.

·	PO-CO Compliance Matrix								
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	3	3							
CO2	2	2							
CO3			3	3					
CO 4			3	3					
CO5			3	3					
CO6	3	3							
CO7			3	3	2	3			
CO8	2	3							
CO9	3	3							
*1: Low, 2:	*1: Low, 2: Medium, 3: High								

Course Name: Econometrics (ECO 411)										
TEACHING SCHEME EXAMINATION SCHEME CREDITS ALLOT										
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4								
		Total: 4								
Course Objective:										
_	, ,	anced knowledge of mathematics and gression analysis to students so that they are								

The course is quantitatively rigorous and requires advanced knowledge of mathematics and statistics. An important objective of the course is to introduce regression analysis to students so that they are able to understand its applications in different fields in economics. Attention is also given to the violations of CLRM model, aspects of discrete choice models, and simultaneous equations models. Specifically, by the end of the course, students will be able to specify assumptions, formulate and estimate appropriate models, interpret the results and test their statistical significance. Students are required to conduct research in teams where they apply the techniques learnt during the course and present their results.

Course Outcomes: The students will be able to

- 1 Estimate the regression model, derive the parameter estimators and learn to interpret.
- Learn the consequences of the violations of CLRM assumptions, how to detect the problems of autocorrelation and heteroskedasticity and also able to learn to learn the remedial measures.
- Understand and would learn to quantify the qualitative variables and the interpretations. They would learn to use the dummy variables both as explanatory as well as dependent variable.
- 4 Learn the important simultaneous equation models and the simultaneous equation bias.
- 5 Use these techniques of econometrics in their MA dissertations

Module-1(15): Classical Linear Regression Model- two and three variables- assumptions, estimation, testing and forecasting, BLUE properties of OLS estimators (derivation and proof); Variance of disturbance term; Regression through the origin; Matrix method of linear regression models; Introduction to multiple linear regression model and tests of linear restrictions; Simple regression coefficients versus partial regression coefficients.

Module-2(15): Multicollinearity, Auto-correlation, and Heteroscedasticity: Nature, Causes, Consequences,

Detection and Remedial measures.

Module-3 (15): Models for Binary Choice-Linear Probability Model; The logit and the Probit Model. Dummy variables.

Module-4 (15): Simultaneous Equation Models (Structural form and Reduced form) and Simultaneos Equation Bias; Identification (Under-identified, Exactly identified and Over-identified model); Various Methods of Simultaneous Equation Model Estimation.

Recommended Text Book

1. Damodar N. Gujarati, *Basic Econometrics*; 4th Edition, McGraw Hill, 2008.

Supplementary References

- 2. Damodar Gujarati, Essentials of Econometrics: McGraw Hill, 2005.
- 3. C. Mukherjee, H.White and M. Wuyts, *Econometrics and Data Analysis for Developing Countries*, Routledge, 1998.
- RamuRamanathan, *Introductory Econometrics with Applications*: Cengage Learning (Thompson), 2002.
- 5. Introductory Econometrics ByJaffery Wooldridge.
- 6. Theory of Econometrics By A. Koutsyannis.
- 7. Introduction to Econometrics By G. S. Madalla

	PO1	PO2	PO3	PO4	PO5	PO6			
CO1			3	3	2	2			
CO2	2	3	3	3					
CO3	2	3	3	3					
CO 4	3	3	3	3					
CO 5			3	3	3	3			
*1: Low, 2: M	*1: Low, 2: Medium, 3: High								

	Course Name: Theories of Internation	al Trade (ECO501)
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4
		Total: 4

Course Objective:

3

The course examines the gains from trade, the determinants of patterns of international trade and the effects of trade on income distribution, the relationship between trade, and economic growth. The course relies predominantly on a standard collection international trade models to understand the motivations behind modern trade policies. Course employs the understanding of classical, neo-classical and modern trade theories and its implications for economic welfare and gain. Course develops the understanding of analyzing the partial and general equilibrium effect of trade policies and theory of custom union. This course is also discussing about the recent issues of WTO and regional trade agreements.

Course Outcomes: The students will be able to

- 1 Compare at the level of formal analysis, the major models of international trade and be able to distinguish between them in terms of their assumptions and economic implications.
- 2 Develop the basic understanding of trade theories and its interpretation and implication on world economy

Analyze the partial and general equilibrium effect of trade policies, a) trade policy instruments such as tariffs, quotas, export subsidies, (b) retaliatory measures such as anti-dumping duties and countervailing duties and (c) the creation of regional trading arrangements such as free trade areas, customs unions and common market.

- Distinguish and critically analyze the main arguments for protection and conversely be able to critically evaluate the relevance and realism of arguments for free trade, taking into account the costs and benefits of trade policy measures on different sections of the community and the implications for the formulation of trade policy. Analyze the partial and general equilibrium effect of theory of custom union
- 6 Analyze the effects of Immiserizing growth and intra-industry trade
- Identify major recent developments in the world trading system, and be able to critically analyse the WTO 7 negotiations and regional trading arrangements.
- 8 Analyze the country's gain in free, restricted and no trade situations
- measure the economic welfare and gain of participating international trade
- 10 Measure the trade gain through offer curves, trade indifference curve and production possibility curves

Module 1(20)

'Classical theory, Absolute Advantage, Comparative advantages and labour productivity differences as the basis of trade. "Trade is better than no trade". Constant costs and complete specialization in a two good, one factor model, Extension to multi country and multi commodity trade. Gains from trade and terms of trade, Neo- classical trade theory - two factor, two goods and variable cost model. Opportunity cost. Incomplete specialization, Heckscher Ohlin factor endowment model.factor price equalization Theorem. Stolper-Samuelson theorem. Specific Factor Model

Module 2 (20)

Leontief Paradox and factor intensity reversals and pattern of trade, Intra-industry and intra-firm trade. Modern explanations of trade patterns Transportation costs. Increasing returns. Product differentiation.

Trade under imperfect competition, Technology and demand. Empirical testing of trade models.

Terms of trade and Offer curves. Growth and terms of trade effects. Rybczynski theorem. Immiserizing growth.Growth and factor mobility – immigration and capital mobility.

New Trade Theories: Kravin, Canon, Posner, Vernon, Krugman

Module 3 (20)

General equilibrium effects of tariffs on welfare. Offer curves and tariffs. Arguments for protection.Quotas.Comparison of tariffs and quotas. Countervailing duties and export subsidies. Effects of tariffs on factor prices. Effective rate of protection. Dumping. Non-tariff barriers. Voluntary Export Restraints, Export Subsidies etc.

Theory of customs union - 'second best' argument - trade creation and trade diversion, Stages of integration Regional trade groupings, GATT and WTO

- Pugel, T.A.(2008), *International Economics*, 13th Edition, Tata Mcgraw hill publishing Co, New Delhi.
- 2. Bhagwati, J. N., A. Panagariya and T.N.Srinivasan(1998), Lectures on International Trade, OUP, New Delhi, Second Edition.
- 3. Krugman, P.A. and M Obstfeld (2003), International Economics: Theory and Policy, Sixth Ed.
- 4. Dominick Salvatore, International Economics: Trade and Finance, John Wiley International Student Edition, 10th edition, 2011.

1			PO-CO	O Complianc	e Matrix				
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	2	2							
CO2	3	3		1	1				
CO3			2	2					
CO 4		2	2	2	2				
CO5		2		2					
CO6		2		2					
CO7	2	2		2					
CO8	2	2	1	1					
CO9			2	2					
CO 10			2	2					
*1. Low 2. I	Madium 3. Hi	αh	•	•	•	•	•	•	•

*1: Low, 2: Medium, 3: High

	Course: Introduction to Environmental Valuation (ECO502)									
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED								
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4 (3 L+ 1 T)								
		Total: 4								
Carrage Objections										

Course Objective: The course aims to disseminate the techniques of valuing the worth of non-market commodities especially environmental goods and service. Several case studies based on different valuation techniques would help the students appreciate the application of these techniques in determining the worth of environmental commodities.

Course Outcomes: The students will be able to

- 1 Discern valuation criterion in environmental economics, including its key principles and methods.
- 2 Use microeconomic principles in valuation of environmental good and services
- 3 Determine consumer preferences to infer demand for environmental quality.
- 4 Apply approaches of non-market valuation of environmental goods and services, and of their strengths, weaknesses and methods of application
- 5 Demonstrate theoretical and practical application of different valuation techniques.
- 6 Apply cost benefit analysis to decide on a sustainable project.

Economic Valuation of Environmental Damage or Benefits I

Economic Theory and Measurement of Environmental Benefits. Demand for Environmental Service – Willingness to Pay and Willingness to Accept. Economic Valuation of Environmental Damage or Benefits II Concepts of Consumer's Surplus. Compensating and Equivalent Surplus in the context of rationed goods and the Environment.

Alternative Approaches and Methods of Environmental Valuation – I

- i. Revealed Preference and Stated Preference Method Hedonic Pricing, Household Production Function, Travel Cost Method, Defensive cost and Contingent Valuation Method.
- ii. Case studies to be discussed.

Alternative Approaches and Methods of Environmental Valuation -II

- i. Valuation of Health and Human Life
- iii. Case studies to be discussed

Alternative Approaches and Methods of Environmental Valuation –III

- i. Valuing Environment as Input in Production
- ii. Case studies to be discussed

Environmental Accounting and Measuring Green GDP

- i. Sustainable Macroeconomic Accounting of National Income and Wealth.
- ii. Green Accounting.
- iii. Environmental Cost-Benefit Analysis for Sustainable Development.
- iv. Rationale of Discounting the Future in the context of Sustainability
- 7. Theory of Krutilla-Fisher Equation for Preservation or Development

Kolstad C.D., Environmental Economics, Oxford University Press, 2000.

Johansson Per-Olov: The Economic Theory and Measurement of Environmental Benefits, Cambridge University Press, Cambridge, 1987.

Bhattacharya R.N. (ed.), Environmental Economics: An Indian Perspective, Oxford University Press, 2001.

M.N. Murthy Environment, Sustainable Development, and Well-being Valuation, Taxes, and Incentives, OUP May 2009

	PO-CO Compliance Matrix									
	PO1	PO2	PO3	PO4	PO5	PO6				
CO1	1	2			3					
CO2	1	2		3	3	2				

CO3	1	2	1	3	3	2			
CO 4			2	3	3				
CO 5			2	3	3	3			
CO 6	2	2		2	3	2			
*1: Low, 2: Medium, 3: High									

		Course Name: Development Econo	mics (ECO503)
TEA	ACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Th	eory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4
			Total: 4
	se Objective:		
			of development economics in the context of
			theories and approaches in dealing with
		ressing issues of poverty and inequality, w	with the concepts and measurement.
Cours	se Outcomes: The stude	ents will be able to	
1	Analyze the shift of for which is a multi-dime		mensional concept to economic development
2	Demonstrate familiari	ty with some central themes and issues of	economic development.
			th and development, major development and
3			agriculture in developing countries, poverty
	and population issues	facing the world, international trade, and i	mportance of foreign aid.
4	Examine the factors	responsible for perpetuation of the	conditions of underdevelopment in same
4	economies.		
5		measures of poverty and inequality and pr	
6	Review the policy imp	olications of these key development econo	mic theories
7			npacts upon practical implementation macro
,		in varying local and global contexts	
	Course Contents		
			ndicators.PPP and international differences.
			development. Colonialism and dependency
			eative destruction'. Rejection of trade as the
		Nurkse and Prebisch arguments. Structur	ral changes: Kuznets analysis of structural
	change.		
			Count Ratio, Income Gap Ratio, FGT Index.
			ni coefficient, Issues in composite Indices,
			U curve hypothesis, Inequality and growth –
			rguments, Rostow's stages of development,
		story analysis of characteristics of develop	
			unbalanced growth theories. Rosenstein –
		. Denison's growth accounting – Contribu	
			gument, Ranis-Fei Model, Unemployment-
			nvoluntary unemployment, Collusive theory
	dividend.	puration growth and critical Minimum El	ffort. Demographic transition. Demographic
-	Reference Readings		
	Reference Readings		

A.P. Thirlwall: Growth and Development, ELBS.

D Ray: Development Economics, OUP.

S. Ghatak: Introduction to Development Economics, Rutledge.

Kaushik Basu: Analytical Development Economics The Less Developed Economy Revisited, OUP.

D Lal; The Poverty of Development Economics, OUP.

G. Meier: Leading issue in Economic Development (4th Edition),OUP.

Meier and Rauch: Leading Issues in Economic Development (8th Edition), OUP

			PO-CC) Complianc	e Matrix		
	PO1	PO2	PO3	PO4	PO5	PO6	
CO1		3	2	2			
CO2	2	2					
CO3	3	3					
CO 4			2	2			
CO5	2	2	1				
CO6		3			2	2	
CO7	2	3			2	2	

Co	ourse Name: Development Issues in India	an Economy (ECO410)
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4
Course Objective:		

Course Objective:

The course introduces the students to the various dimensions of the Indian Economy and the contemporary Problems of Indian Economy. This course is also aims to provide the basic information regarding the developmental strategies and structural adjustment reform measures that countries across the world adopt to eradicate the poverty and unemployment, to reduce inequalities and regional imbalances. The course also focuses on the changing role of state, markets and civil society institutions with respect to economic development.

Course Outcomes: The students will be able to

- 1 Understand the Indian economy better and will get some idea about the problems faced by the Indian economy
- Demonstrate the development process in India after independence
- Develop a perspective on the external sector reforms and industrial sector reforms undertaken in global economies including in India for last three decades
- Demonstrate various structural adjustment programs and reform measure that the government of India has been initiated to eradicate poverty and unemployment, to reduce inequalities and regional imbalances since Independence
- 5 Understand what the primary measures of inflation in India are and be able to assess the impact of inflation on inflow and outflow of foreign capital India.

Problems in Indian Economy (15)

Concepts of development and under development, General characteristics of Indian economy, Growth and

Structural Change in the Indian Economy since 1950: Nature, causes and changes in sectoral income distribution and occupational structure, Poverty - The concept and measurement of poverty, Causes of poverty and Remedies, Unemployment - Concept and measurement of unemployment, Causes of unemployment and Remedies

Agriculture (15)

Role of Agriculture in Indian economy, Institutional Structure – land reforms in India Agricultural production and productivity – recent trends Sources of Agricultural finance, Agricultural Marketing - Problems and Remedies Rural indebtedness - Suicide of farmers – causes and remedies,, Economic liberalisation and merging trends in Indian Agriculture,

Industry, Tertiary Sector and Parallel Economy of India (15)

Industrial development during the planning period; Industrial policy of 1948, 1956, 1977 and 1991, Industrial licensing policy — MRTP Act, FERA and FEMA; Growth and problems of small scale industries; Role of public sector enterprises in India.

Service Sector in India – Growth, pattern and future prospects, Fiscal federalism-Centre state financial relations, Parallel Economy –Causes and impact of black money, Measures to control black money.

Planning and Economic Reforms (15)

Need and objectives of planning, Achievements and failure of 11th five year plan, 12th Five Year Plan – objectives, targets and strategy.

Rationale of Economic Reforms, Features and appraisal of Economic Reform Programme, Liberalization, Privatization and Globalisation of the economy

Foreign Trade and Policy

Trade policy during pre and post reform period, Liberalised Exchange Rate Management System. Foreign Direct Investment – Trends and issues, Indian foreign trade—composition, volume, direction and trade balance.

Reference Books

- 1. Kapila, Uma (Ed.): Indian Economy Performance and Policies, Academic Foundation,. New Delhi.
- 2. Datt R. & K.P.M. Sundharm, Indian Economy, S. Chand & Co. Ltd. New Delhi. Datt R. & K.P.M. Sundharm, Indian Economy, S. Chand & Co. Ltd. New Delhi.
- 3. Misra S.K. &V.K.Puri, Indian Economy Himalaya Publication houseMumba
- 4. Kapila, Uma (Ed.): Indian Economy Since Independence, AcademicFoundation, New Delhi.

PO-CO Compliance Matrix								
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1	3	3						
CO2	1	2				1		
CO3	2	2				1		
CO 4	2	2		1	1	1		
CO 5	1	2	1	2	1	1		
*1: Low, 2: N	Medium, 3: Hi	gh					•	

ne: Environmental Issues and Sustainable D	evelopment (ECO 507)
EXAMINATION SCHEME	CREDITS ALLOTED
End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4
	Total: 4
	EXAMINATION SCHEME End Semester Examination: 60 marks

The course aims to discuss the various approaches of sustainable development, emergence of the concept of sustainable development and role of environment in sustainable development. It also deals with international

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Cor	and domestic arse Outcomes				v economic fi	ramework	of genuine	well-bei	ng and h	appiness.
Col	Critically ap				conmontal of	conomics	in linkin	the no	tions of	eustoinoblo
1	development	_	c relevand	ce of envir	omnentar et	conomics	III IIIIKIII	g the no	tions of	sustamatic
2	Understand t	he various a	pproaches	of sustainal	ole developm	ent and ho	w they are	differen	t from ea	ch other.
3	Understand various trans-national environmental issues.									
4	Follow various concerns in I		ated to ene	ergy, water,	land, transpo	ort issues ir	associatio	on with th	ne enviro	nmental
5	Appreciate th	ne emergenc	e of genui	ne wealth ar	nd its relevan	ce in the n	ew econor	nic frame	work of	well-being
6	Comprehend	the effects of	of globaliz	ation on env	vironment.					
	Course Conte	ents								
	Sustainable Synthesis Theory of Sus	Developmer stainable De	nt. Aspect	ts of Susta t: Rules of s	inable Deve sustainable d	lopment :	Econom	ic, Ecolo	ogical ar he Hartw	
	approach, Non-declining natural capital stock approaches, The SMS approach, Daly's operational principles, The Common-Perrings model of SD, 'Distance to goals' approach.									
	Trade and Environment: Trade, Foreign Investment and the Environment. Ecological dumping and standards Trans-national Pollution. Porter's hypothesis, race to bottom and pollution haven hypothesis. Globalization, Economic Reforms and the Environment									
	Environment				a					
		an Energy a er, Land Tra			s elopment iss	ues				
		Wealth Mo apital of Ger and nations	del : Defin nuine wea	ing genuine Ith. Genuine	wealth , Old wealth asse	ssment life				
	Reference Books Jonathan M. Harris (2000): "Basic Principles of Sustainable Development" G-DAE Working Paper No. 00-04. Bruno S. Frey, Economics Of Happiness, Springer International Publishing,2018 Kanchan Chopra and VikramDayal (Ed). Hand book of Environmental Economics, Oxford University Press 2009. Sengupta, R.P, "Economics in India. Prospects and policies of low carbon Economic growth in India", NIPFP Publications 2010. Peter Meier and Mohan Munasinghe,Sustainable Energy in Developing Countries: Policy Analysis and Case Studies,Cheltenham: Edward Elgar.									
				PO-CO	Compliance					
		PO1	PO2	PO3	PO4	PO5	PO6			
CC		2		3		2	2			
CC		3	3	2		1	12			
CC		2	2			2 2	2	-		
CO		<u>2</u> 2	2			2	2 2			
CO		2	2			2	2	-		
	06 2 2 2 2									

*1: Low, 2: Medium, 3: High

Course Name: Advanced Econometrics (ECO506)								
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4						
		Total: 4						

The purpose of this course is to teach and make student learn about the econometric estimations and their inferences at the advance level that can covers wide-range of economic issues. The course structure can be seen in broad heads, i.e. Time-series and Panel data analysis which further divided into four units. At the end of the course students are expected to learn how to apply the modern econometrics concepts and methods in analyzing and interpreting empirical research. The basic level of econometric understanding that has been taught in the previous semester is assumed.

Course Outcomes: The students will be able to

- 1 To conduct panel data analysis using pooled OLS, Fixed effects and Random Effects model.
- 2 To apply time series econometric techniques to empirical settings
- 3 To carry out empirical analyses using economic and financial time series data
- Interpret the results of such analyses, in terms of the validity of the inferences that can be drawn, and to appreciate the interplay between data and theory in making such inferences

Course Contents

Unit I (15)

Review of cross section data analysis; Introduction to static panel data models: pooled OLS, Fixed effects and Random Effects. Choosing fixed effects vs random effects: The Hausman specification test, Mundlak's approach, Chamerlain's approach. Robust estimations, Hetorscedaticity and autocorrelations in panel data.

Unit 2 (15)

Importance of lags in economic variables, Estimations of distributed lag model: Koyck Approach, adaptive expectations model, adaptive expectations and partial adjustment models; Autoregressive models. Almon Approach. Introduction to Univariate time-series econometrics: Stationary and non-stationary process; Tests for stationarity: unit root tests.

Unit 3 (15)

Time series and forecasting: AR, MA, and ARIMA models. The vector auto regression (VAR), Granger causality, Granger non-causality tests: Toda and Yamamoto. Measuring volatility: the family of ARCH and GARCH models.

Unit 4 (15)

The concept of spurious regressions and co-integration. Engle —Granger approach, Multivariate co-integration tests: the Johansen's approach. ECM and VECM.ARDL models. Dynamic linear panel data models; Panel Unit root tests, GMM models, the system GMM models.

Recommended Readings

- Arellano M. (2003). Panel Data Econometrics: Advanced texts in econometrics. Oxford University Press
- Badi H Baltagi (2005). *Econometric Analysis of Panel Data*, 3rd edition, John Wiley and Sons Ltd.
- Greene, William H. (2012). *Econometric Analysis*, Pearson Prentice Hall, 7th edition. Pesaran M. H (2015). *Time Series and Panel Data Econometrics*, Oxford University Press Wooldridge, Jeffrey (2010), *Econometric Analysis of Cross Section and Panel Data*, Cambridge: MITPress.
- Hsiao, Cheng (2003). Analysis of Panel Data, Second Edition, Cambridge University Press

			PO-CO	O Complianc	e Matrix			
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1			3	3	2	2		
CO2			3	3	2	2		
CO3			3	3	2	2		
CO4			3	3	2	2		
*1: Low, 2: Medium, 3: High								

		C	Course Nan	ne: Master's	s Thesis (ECO508)			
TEACH	ING SCHEME	CI	REDITS	ALLOT	ED				
Theory	: 4 hrs per week			ination: 60 i ent: 40 marl			The	ory: 4	
							Tot	tal: 4	
Course Ol									
	ourpose of the Mast							onomic re	search and
	ster research-related			enefit futur	e study a	nd employm	ent.		
	itcomes: The stude								
	monstrate specialis								
	monstrate the abili								
	monstrate the capa	_	_						
	monstrate the abili								
	esent research findi otocols of academic					nd sequence	d thesis t	hat confo	rms to
6 De	emonstrate the abil	ity to critiq	ue literature	and conduc	t analyse	s at a Maste	rs level.		
•									
			PO-CO	Compliance					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1		2			2	2			
CO2		2			2	2	2	2	
CO3		2			3	3	3	2	
CO 4		2			3	3	2	2	
CO5		2	2	2	3	3	3	2	
CO6		2	2	2	2	3	3	2	3
*1: Low, 2	2: Medium, 3: High	1							

	Course Name: Natural Resource Eco	nomics (ECO510)
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED

T	heory: 4 hrs per week		ster Examina		rks		Theo	ory: 4		
		Interna	Assessmen	t: 40 marks			Tota			
Cou	rse Objective:						100	a1. +		
	This course deals with t	he theoretica	l framework	of the opti	mal use of	renewat	ole and n	on- renev	vable natural	
	resources. It also aims to			erty issues a	and role of	institutio	ns in hai	ndling it.		
	rse Outcomes: The stude									
	Know the extension of general equilibrium to resources and environment.									
	Understand the concept of steady state harvests and the biological growth function of renewable resources. Learn the process of arriving at bio-economic equilibrium outcome in an open access fishery and static private									
	property fishery.									
4	Construct the model for	efficient and	optimal use	of non-rene	ewable res	ources.				
5	Understand the static and	d dynamic ef	ficiency con	ditions of th	ne resource	optimiz	ation pro	blem.		
6	Comprehend about some	e of the ways	in which pe	ople's parti	cipation ca	ın be mad	le effecti	ve.		
	Course Contents									
	MODULE I (15)									
	Economy wide									
	Environmental			I C D	1 7	•	1 D . 11	4.		
	Computable Ge MODULE II (15)	eneral Equilit	orium model	for Resour	ces and En	vironmei	ital Pollu	ition		
	Economics of 1	Renewahle I	Resources.							
	Growth function									
	Optimal Management of			Cases of W	ater, Fore	st, Fisher	y: Theori	ies of Prio	cing,	
	Depletion and Augment									
	MODULE III (15)									
	Economics of N									
	Theories of Dep					ing's rule	e, Pricing	g and Ma	rket. Natural	
	Resource Cartels MODULE IV(15)	s: Cases of E	energy and P	von-luei Mii	nerais					
	Economics of	Common Pr	onerty Reso	nurces and	Institution	16.				
	Open Access: I				mstitutioi	13.				
	Management of				ch and Ins	titutions				
	Suggested texts:	•		• • • •						
	 Hanely, Nick, 1999, MacMil 		rgen, and B	en White, E	invironme	ntal Econ	omics: Iı	n Theory	and Practice	
	2. Roger Perman	net. al., N	Vatural Res	source and	Enviro	mental	Econom	nics, Th	ird edition,	
	Pearson(Modul 3. Clement A 7		nomics of	Environme	ental Cor	servation	Secot	nd Editi	on Edward	
	Elgar(Module I		nonnes of	LiiviiOiiiii	COI	1501 (41101	., 50001	Luill	on, Lawara	
	4. Tom Tietenber		mental and	Natural R	esource I	Economic	s, Sevei	nth Editi	on, Pearson	
	(Module III).									
	David Anderso	n, Environm	ental Econor	mics and Na	tural Reso	urce Mar	agement	t, Routled	lge.	
			20.00							
	DO1	DO2		ompliance N		DO.	<u> </u>	1	1	
CO	PO1 1 2	PO2 2	PO3	PO4	PO5	PO6		1		
CO		2						+		
CO		2						†		
CO4		2	3	3	1	1		1		
CO5		2			2	2				
CO6		2			2	2				
*1: I	Low, 2: Medium, 3: High	1								

	Course Name: Economics of Human Development (ECO509)								
Tl	CREDITS ALLOTED								
7	Γheory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4						
			Total: 4						
Cou	urse Objective:								
			ding of the critical issues involved in human						
		ion. It focuses on 'people-oriented' view o	f development.						
	urse Outcomes: The stude								
1		ace of human development in development							
2		'the expansion of human capabilities' in re							
3	Relate the various dimensions of human development like Social capital, inclusion, empowerment and freedom to growth and development.								
4	To relate the developme	ent phenomenon in India in context of hum	an development						
	Course Contents								
	Module 1 (15)								
	Concepts and Dim	ensions of Human Development,	Ends and Means of Development,						
	-		ritique of Utilitarianism, Sen: The						
		ach, Dimensions of Developm							
		ral Diversity and Human Developn	<u> </u>						
	Module 2 (15)								
	Measurement Aspec	ct: Refinement of Human Develop	ment Index, Measuring Deprivation						
	adjusted for Gro	oup Disparities, Secluded (iso	lated) and Proximate Illiteracy,						
	Measuring Group D	ifferentials and Multidimensional P	Poverty						
	Module 3 (15)								

Economics of Public investment in education, health care and environmental sustainability, Dynamic linkage between human development and growth

Module 4 (15)

Other dimensions of human development: Social capital, inclusion, empowerment and freedom

Module 5 (15)

HD in India, Role of institutions (national and international), government and NGOs, Studies specifically related to Indian economy showing linkage between human development and economic growth.

Readings:

- 1. Sen, Amartya K., Choice, Welfare and Measurement, Oxford, Basil Blackwell, 1982
- 2. Nussbaum, Martha, and Sen, Amartya. The Quality of Life. Oxford: Clarendon Press, 1993
- 3. Sen, Amartya, Development as Freedom, Oxford, Oxford University Press, 1999
- 4. Ranis, G, F. Stewart and A. Ramirez (2000), Economic Growth and Human development, in *World Development*, February 2000, Vol. 28(2): 197-219
- **5.** Ranis, G and F. Stewart Dynamic Links between the Economy and Human Development," in *Policy Matters: Economic and Social Policies to Sustain Equitable Development*, José Ocampo, Jomo K.S. and Sarbuland Khan (eds), Zed Books Ltd., London, UK. 2007, pp.32-52
- 6. Ranis, G, F. Stewart and Emma Samman "Human Development: Beyond the Human Development

	Index," Journ	al of Humai	n Developm	ent, 7(3), No	vember 20	06. pp.323-	-358.	
			PO-CO	O Complianc	e Matrix			
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1	2	2						
CO2			2	2	3	3		
CO3	3	3			2	2		
CO4	3	3			2	2		
*1: Low, 2:	Medium, 3: His	gh		•		•		