

Programme Structure & Syllabus

INTEGRATED M.SC. ECONOMICS 2022-23

Department of Economics Central University of Rajasthan

		Fi	ive Year Integrated M.Sc. Economics				
Semester	S.No.	Course Code	Course Title s	L	Т	P	С
I	С	ECO101	Principles of Microeconomics	3	1	0	4
			Including other courses total credits of Semester I				18
II	С	ECO111	Principles of Macroeconomics	3	1	0	4
			Including other courses total credits of Semester II				18
III	С	ECO201	Fundamentals of Finance	3	1	0	4
			Including other courses total credits of Semester III It includes GE =3credits				18
IV	С	ECO211	History of Economic Thought	3	1	0	4
			Including other courses total credits of Semester IV It includes GE =3+3 credits				18
	С	ECO301	Fundamentals of International Trade	3	1	0	4
T 7	С	ECO302	Economics of Money and Banking	3	1	0	4
V	С	ECO303	Mathematical Finance	3	1	0	4
	Total C	Credits					12
			Including other courses total credits of Semester V It includes GE =3+3 credits				18
	С	ECO311	Fundamentals of Game Theory	3	1	0	4
	С	ECO312	Economics of Industrial Organization	3	1	0	4
VI	С	ECO 313	Public Finance and Policy	3	1	0	4
	Total Credits						12
			Including other courses total credits of Semester VI				18
			It includes GE =3+3 credits				

	С	ECO	Microeconomics I	3	1	0	4
	C	401 ECO	Macroeconomics I	3	1	0	4
		402	Widerocconomics 1		1		_
	AECC	ECO	Mathematical Methods in Economics	3	1	0	4
VII		403					
VII	AECC	ECO 404	Statistical Methods in Economics	3	1	0	4
	С	ECO 405	Issues in Indian Economy	3	1	0	4
	DE	Elective		3	1	0	4
	Total C	redits					24
	С	ECO 411	Microeconomics II.	3	1	0	4
	С	ECO 412	Macroeconomics II.	3	1	0	4
VIII	AECC	ECO 413	Econometrics.	3	1	0	4
	С	ECO 414	Trade Theory and Policy	3	1	0	4
	С	ECO415	Dissertation I				8
Total Credits							24
	С	ECO 501	Development Economics	3	1	0	4
IX	С	ECO 502	Economic Growth Theories	3	1	0	4
	С	ECO 503	Public Economics	2	1	0	3
	AECC	ECO504	Computer Applications in Economics	2	1	0	4
	DE	Elective	Disc. Elective Course	3	1	0	4
	GE	Elective	Generic Elective Course	2	1	0	3

	SECC	ECO505	Discipline Specific Internship or Project Based Learning During Summer Vacation		2
	Total C	redits		2	24
	PC/C	ECO 511	Dissertation II	1	16
	DE	Elective			4
	GE	Elective			4
X	AU	Audit Course	UHV**		4
	AU	Audit Course	Fitness	2	<u>]</u> *
	AU	Audit Course	Societal Interface	2	*
	Total C	redits		2	24
Sum Total Credits				2	204

Note -

* The course on University Human Values (UHV), Fitness and Societal Interface are a compulsory course as an audit course which should be cleared by all the students; however, this will not affect the credits of the programme. 2 Credit Course for Fitness will be spread over all the 4 Semester of the Course. 2 Credit Course for Societal Interface will also be spread over all the 4 Semester of the Course. In Fitness, the students are expected to participate in any physical activity (e.g. Yoga, sports etc.) and in Societal Interface they need to engage in some social activity (e.g. NSS etc.) in the university, right from I Semester to the IV Semester. By participating in both these activities the student will be earning 2 credits for the Fitness and 2 Credits for Societal Interface. Fitness and Societal Interface will be proportionately spread over the four semesters. A faculty coordinator for each of these courses will be appointed at department/university level for better supervision and evaluation purpose.

Online/MOOC courses will be offered to students in lieu of any similar core or elective courses with the consensus and approval department faculties, Board of Studies and School Board. Please note that revision of course-structure is under progress from semester I to Semester VI.

Total Credit for Integrated M.Sc. Economics Porgramme is 204 Credits (excluding Audit courses) which are divided as follows:-

CC - Core Course	75 Credits
Master's Thesis/Dissertation	24 Credits
CC-core courses offered by other departments	47 credits
Total Core Course	146 Credits
DE- Departmental Specific Elective Courses offered by the	12 Credits
Department	
GE - Generic Elective Courses offered by any department of the	07 Credits
University	
Electives offered up to semester VI	21 Credits
Total Elective Course	40 Credits
AECC – Ability Enhancement Compulsory Course	16 Credits
SECC - Skill Enhancement Compulsory Course	02 Credits
Total Ability Enhancement Course	18 Credits
Total Credits	204 Credits
Fitness	02 Credits
Societal Interface	02 Credits
UHV – Audit Course	04 Credits

List of Open Elective Courses offered by the Department

Sr. No	Course Code	Course Name	Course Credit
1	ECO 445	Economics of Money Banking and Financial Development in India	4
2	ECO 551	Financial Economics	4

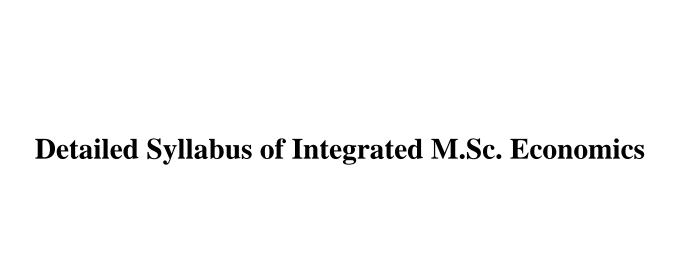
List of Departmental Specific Elective Courses offered by the Department

Sr.	Course	Course Name	Course
No	Code		Credit
1	ECO421	Agricultural Economics	4
2	ECO422	Environmental Economics and Policy	4
3	ECO423	Political Economy	4
4	ECO424	Labor Economics	4
5	ECO425	History of Economic Thought	4
6	ECO521	Monetary Economics	4
7	ECO522	Economics of Mathematical Finance	4
8	ECO523	Behavioral Economics	4
9	ECO524	Advanced Econometrics	4
10	ECO525	Economics of Industrial Organization	4
11	ECO526	Game Theory	4

12	ECO527	Economics of Environmental Issues and Sustainable	4
		Development	
13	ECO528	Health Economics	4
14	ECO529	Natural Resource Economics	4
15	ECO530	Introduction to Environmental Valuation	4
15		Any Other MOOC/ Online Course as approved by Board	4
		of Studies &	
		School Board	

Programme Outcome

- 1. In depth knowledge about economic theory regarding the utilization and allocation of resources, including labour, natural resources and capital
- 2. Developing competency in transferring acquired knowledge and skills and decision making with cost-benefit approach
- 3. Analyse how markets for goods and services function and how income is generated and distributed. Such analyses may have a national and international perspective, and a time frame that may be either short-term (business-cycles and crises) or long term (economic growth)
- 4. Knowledge of statistical software package To formulate mathematical economic models, as well as how to quantify model
- 5. Analytical problem solving: To develop the understanding of using information, mathematical operations, and its appropriate interpretation
- 6. Insight into special fields of your choice, like financial markets, environmental and resource economics, development economics and international trade, Health Economics
- 7. To Develop Critical Thinking in students, theory cum application based learning and to assess policy relevant issues. Analyze existing economic models and evaluate their relevance for theoretical and practical problem solving
- 8. To Develop Quantitative Reasoning in students to assess the validity of various economic and policy relevant arguments and to know the interpretation of statistical and economic evidences
- 9. To Develop the understanding of Theory and Practices, using and collecting information and data, and its evaluation
- 10. Concretize economic problems to be analyzed and understand how the theoretical framework and actual empirical conditions are connected



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TEA	CHING SCHEME	Course: Principles of Microeconomic EXAMINATION SCHEME	s (ECO 101) CREDITS ALLOTED			
		End Semester Examination: 60 marks				
The	eory: 4 hrs per week	Internal Assessment: 40 marks	Theory: 4			
			Total: 4			
	se Pre-requisites:	1.4.14.1				
	student must have compared by the objective:	pleted the knowledge 10+2 Mathematics				
Cours 1 2 3 4 5	This course provides an introduction to a core area of economics known as microeconomics. The purpose of this course is to provide a key incite on the behaviour of individual economic agents, including consumer behaviour and demand, producer behaviour and supply, price and output decisions by firms under various market structures. This course is also designed to provide the complete information on different ways in which various decision making units in the economy (individuals and firms) make their consumption and production decisions and how these decisions are coordinated. Course Outcomes: The students will be able to Understand the operation of a competitive market economy Identify the central economic problems that every competitive economy faces. Explain how competitive markets organize the allocation of scarce resources and the distribution of goods and services Identify the Opportunity Costs involves in various courses of action in their real life Strategies employed by different economic agents –consumer, producer/business firm, factor of production-					
7	of society's resources	as, and tables and use the information to ma				
8		es and differences between the product ma				
9		tical frameworks on determination of pri		n under		
10	In depth knowledge a	bout economic theory regarding the utiliza	ation and allocation of resources			
Cours	se Content:					
with the market unit I and Macroeco		Economic Problem- Scarcity and Choice, the Basic Market Model; Interfering arket versus working through the Market. Distinction between Microeconomics economics. Concepts of equilibrium- statics, dynamics, comparative statics, librium and General Equilibrium analysis. Positive Economics and Normative				
UNIT II Consumer's Behavior I Utility: Cardinal versus Ordinal; Indifference Curve - Assumptions and Consumer's Equilibrium; Price Effect-Income Effect, Substitution Effect; Eng Derivation of the Demand Curve; Giffen Paradox; Basic elements of Supply and the law of demand, forces behind the demand curve, shifts in demand curve,		ubstitution Effect; Engel's Curve elements of Supply and Demand:	10 hrs			
UNIT	Consumer's Behavior II Elasticities of demand – price, income and cross elasticities. The law of supply, factors					

	behind the supply curve shifts in supply curve, role of time element in supply function.					
	Consumer's and Producer's Surplus					
	Theory of Production and Cost					
	Production Function and its related concepts; Total, Average and Marginal Products and the					
	Law of Variable Proportions, Returns to Scale, production with two variable inputs:					
UNIT IV	Isoquants, assumptions and Properties, marginal rate of technical substitution, Isocost curve,	10 hrs				
	producer equilibrium- constrained output maximization and constrained cost minimization.					
	Cost function: different concepts of costs, short run cost analysis and long run cost Analysis.					
	Market Structure					
	Price and output determination under perfect competition; short run and long run equilibrium					
*********	of the firm using total and marginal approach, constant cost industries, increasing cost					
UNIT V	industries, decreasing cost industries. Supply behavior in competitive industry. Imperfect					
	competition; definition, varieties of imperfect completion - Monopoly, monopolistic					
	competition, oligopoly- and Price and output determination under these markets.					
	Factor market and Factor Pricing (Introductory level)					
	Basics of distribution, Traditional theory of distribution, modern theory of distribution.					
	Theories on Factor –Wage, rent. interest rate, and profit- price determination. Fundamentals					
UNIT VI	of wage determination; demand for labor, marginal physical productivity of labor, supply of					
	labor.					
	14001.					
Internal As	sessment:					
	Unit I, Unit II					
CIA 2	Assignment submission and/or presentation					
	arian, H. (2005), <i>Intermediate Microeconomics: A Modern Approach</i> W.W. Norton, New York.					
	Coutsoyiannis A Modern Microeconomics 2nd Revised edition Macmillan (2008)					
	obert Pindyck and Daniel Rubinfield, Micro Economics, edtion 7, Prentice Hall					
Reference	Books:					
1.	G S Maddala and Ellen Miller, Micro Economic Theory and Application, Tata MacGraw Hill					
2.	Dominick Salvatore, Micro Economics- Theory and Applications, Oxford University Press					
3.	N.Y Melliwra H A. Book Co. 3. Koutsoyiannis, A., Modern Microeconomics*, London, Ma	cmillan,				
	(Latest. Edition).					
4.	James Mitchell Henderson, Richard E. Quandt, Microeconomic Theory, edition 3,					
McC	Graw-Hill, 1980					
5. Hal R. Varian Intermediate Microeconomics: A Modern Approach (Eighth Edition) 2009, W. W						
	Norton & Company					
6.	6. Karl E. Case, Ray C. Fair, Principles of Economics, Pearson Education Asia					
7. Sampat Mukherjee, Modern Economic Theory, New Age International Publishers						
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- 8. Rahul A. Shastri, Micro Economic Theory, University Press (India) Limited
- 9. D. N. Dwivedi, Micro Economic Theory and Applications, Pearson Education
- 10. Paul A Samuelson William Nordhaus, Microeconomics 19th Edition, MacGrawhill

			PO-CO) Compliance	e Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PC 10
CO1	3	1				2	2		2	2
CO2	2	1				2	2		1	1
CO3	3	3			1	2	2		2	2
CO 4	3	3			1	2	2		2	2
CO 5	3	3	1	2	1	2	2		2	2
CO 6										
CO 7										
CO 8	2	2					2		2	2
CO 9	2	2					2		2	2
CO 10	2	2		2	1		2		2	2

Course: Principles of Macroeconomics (ECO 111)							
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 Pre-requisites:							

Student must have completed the knowledge 10+2 Mathematics

Course Objective:

The main purpose of this course is to equip students with the tools and ideas necessary to understand the aggregate economy and to make informed opinions about different macroeconomic theories on national income and employment determination, determination of household consumption expenditure on final consumer goods and services, determination of investment expenditure on acquisition of capital goods by business firms. This course also provides an introduction to other core areas of macroeconomics such money, inflation, deflation, stagflation and the inflation & unemployment trade-off.

Course Outcomes: The students will be able to

- Understand the historical aspects of macroeconomics and Identify the major differences between microeconomics and macroeconomics
- 2 Examine how the economy behaves at the aggregate level and how national income is measured and

Identify the major factors explaining household consumption expenditure on final consumer goods		dete	rmined.				
final goods and services Understand how the business firms behaves in general and what methods they adopt while taking decision regarding their investment projects Interpret different macroeconomic concepts such as output growth, money, inflation and unemployment Course Content: Basics of Macroeconomics What is Macroeconomics, the origin and roots of macroeconomics, major issues and concerns of macroeconomics, why a separate study of macroeconomics?, National income accountings; Circular flow of income in two, three and four sectors, Concepts of national income, measurement of national income – value added method, income method, expenditure method, difficulties in measurement of national income, National income estimation in India. Determination of Income and Employment The complete Classical model of full employment; essential features and implications of Classical theory, Keynes' objections to classical theory, Theory of Effective Demand; Simple Keynesian model of Income Determination for a closed economy, determination of national income in open economy, paradox of thrift. Consumption Keynes consumption function; three conjecture, the early empirical success, secular stagnation hypothesis, consumption puzzle, Overview of post Keynesian theories of consumption: Relative Income hypothesis, Life Cycle Hypothesis, Permanent Income Hypothesis. Investment Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory. Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.	3	Ider	ntify the major factors explaining household consumption expenditure on final consumer goods				
Intraggoods and services 5 Understand how the business firms behaves in general and what methods they adopt while taking decision regarding their investment projects 6 Interpret different macroeconomic concepts such as output growth, money, inflation and unemployment Course Contest: Basics of Macroeconomics What is Macroeconomics, the origin and roots of macroeconomics, major issues and concerns of macroeconomics, why a separate study of macroeconomics?, National income accountings; Circular flow of income in two, three and four sectors, Concepts of national income, measurement of national income – value added method, income method, expenditure method, difficulties in measurement of national income, National income estimation in India. Determination of Income and Employment	4			diture on			
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What is Macroeconomics, the origin and roots of macroeconomics, major issues and concerns of macroeconomics, why a separate study of macroeconomics?, National income accountings; Circular flow of income in two, three and four sectors, Concepts of national income, measurement of national income – value added method, income method, expenditure method, difficulties in measurement of national income, National income estimation in India. Determination of Income and Employment				iiciit			
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expenditure method, difficulties in measurement of national income, National income estimation in India. Determination of Income and Employment		_	income, measurement of national income – value added method, income method,				
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UNIT IV Consumption UNIT II UNIT III Determination of Income and Employment The complete Classical model of full employment; essential features and implications of Classical theory, Keynes' objections to classical theory, Theory of Effective Demand; Simple Keynesian model of Income Determination for a closed economy, determination of national income in open economy, paradox of thrift. Consumption Keynes consumption function; three conjecture, the early empirical success, secular stagnation hypothesis, consumption puzzle, Overview of post Keynesian theories of consumption; Relative Income hypothesis, Life Cycle Hypothesis, Permanent Income Hypothesis. Investment Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.							
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Consumption Keynes consumption function; three conjecture, the early empirical success, secular stagnation hypothesis, consumption puzzle, Overview of post Keynesian theories of consumption; Relative Income hypothesis, Life Cycle Hypothesis, Permanent Income Hypothesis. Investment Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Simple Keynesian model of Income Determination for a closed economy, determination of				
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UNIT III stagnation hypothesis, consumption puzzle, Overview of post Keynesian theories of consumption; Relative Income hypothesis, Life Cycle Hypothesis, Permanent Income Hypothesis. Investment Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Consumption				
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consumption; Relative Income hypothesis, Life Cycle Hypothesis, Permanent Income Hypothesis. Investment Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.							
UNIT IV Investment Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.	UNIT	III		10 hrs			
UNIT IV Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money			consumption; Relative Income hypothesis, Life Cycle Hypothesis, Permanent Income				
UNIT IV Meaning and types of Investment, Business Fixed Investment, The Determinants of Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Hypothesis.				
UNIT IV Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Investment				
UNIT IV Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Meaning and types of Investment, Business Fixed Investment, The Determinants of				
Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment. Classical theory of investment, and Keynesian theory of investment; Marginal Efficiency of Capital. Theory of investment Multiplier, Accelerator Theory, Money Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.		***	Investment, Tobin's q, Residential Investment, Inventory Investment -Reasons for Holding	101			
Capital. Theory of investment Multiplier, Accelerator Theory, Money Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.	UNIT	IV	Inventories, How the Real Interest Rate and Credit Conditions Affect Inventory Investment.	10 hrs			
Capital. Theory of investment Multiplier, Accelerator Theory, Money Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			·				
UNIT V Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Capital. Theory of investment Multiplier, Accelerator Theory,				
and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.			Money				
and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.	UNIT	٦V	Concept, functions and significance, Theories of Demand for Money: Classical, Cambridge	10 hrs			
UNIT VI Inflation 10 Hrs			and Keynes. Theories of Rate of Interest: Classical, Loanable and liquidity preference.				
	UNIT	VI	Inflation	10 Hrs			

Meaning. Impact and control of inflation, demand pull and cost push inflation, inflationary and deflationary gap analysis, inflation and its social cost, choice between inflation, deflation and stagflation, overview of inflation and unemployment trade-off.

Internal Assessment:

CIA 1 Unit I, Unit II

CIA 2 Assignment submission and/or presentation

Text Books:

- 1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010
- 2. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010
- 3. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc.,

Reference Books:

- 1. Shapiro, E.: Macroeconomic Analysis.
- 2. SurajB.Gupta: Monetary Economics, S.Chand and Company Ltd.
- 3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
- 4. Errol D'Souza, Macroeconomics, Pearson Education, 2009.
- 5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc

			PO-CC	O Complianc	e Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	3	2				2	2		2	2
CO2	2	2				2	2		1	1
CO3	2	2				2	2		2	2
CO4	3	3			1	2	2		2	2
CO5	3	3	1	2	1	2	2		2	2
CO6	3	3				3	3		2	2
*1: Low. 2:	: Medium, 3: Hi	gh			<u>I</u>	1	1	1		

	Course: Fundamentals of Fina	nce (ECO 201)
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 Dre requisites		

Course Pre-requisites:

1 Student must have completed the knowledge basic macroeconomics and 10+2 Mathematics

Course Objective:

This course introduces the basic concepts of finance and financial decisions that the firm and individual make. The course starts with the various objectives and functions of financial management and then eventually

		towards learning the basic theories of finance. While discussing the financial markets it also be fidea about equity shares, bond and derivatives.	rings out					
Cours	se Out	comes: The students will be able to						
		ile learning the basic theories and their implications students can identify the key theme in final	ance and					
1		spected to grasp the necessary knowledge for evaluating the firm, equity shares and bonds etc.						
2		Students can apply the fundamental tools of finance and understand the market players make decisions.						
		concept of risk and uncertainty and portfolio analysis would enable the students to learn the inv						
3		sion making.						
		course also intends to develop skills in analyzing the investment behavior in capital market	and the					
4	pric	ing behavior of securities.						
Cours	se Cor	ntent:						
UNIT	ГΙ	An overview of Corporate Finance Concept, scope, classification of finance function, objectives of financial management, profit maximization vs. wealth maximization. Financial markets and institutions.	10 hrs					
UNIT II		Sources of finance Short term sources-Public deposits, Cash credit limit/Overdraft, Letter of credit, Commercial papers. Long term sources- Shares, Debentures /Bonds, Leasing, Hire-purchase, Venture capital, emerging financial instruments.						
UNIT III		Time value of money (introductory level) Basic theory of interest, Valuations of bond and stocks: discounting and present value; internal rate of return; evaluation criteria. The term structure of interest rates; yield curves; spot rates and forward rates.						
UNIT	'IV	Financing and Investment Decisions Cost of capital, Capital Structure, Dividend Decision. Capital budgeting-Nature, scope, techniques, NPV and other investment rules.	10 hrs					
UNIT	ΓV	Basic theories of Finance Concept of Risk and Returns: types of risks, random asset returns; risk-return trade off; portfolios of assets; mean-variance portfolio analysis. Diversification of risks. Markowitz theory of portfolio. Efficient market hypothesis: random walk, technical analysis, fundamental analysis. CAPM: The capital market line; the capital asset pricing model; the beta of an asset and of a portfolio; security market line. Arbitrage pricing theory (APT).	10 hrs					
UNIT	'VI	Introduction to derivatives and options; forward and futures contracts; options; other derivatives;	10 Hrs					
		sessment:						
CIA		Unit I, Unit II						
CIA :		Assignment submission and/or presentation						
1 ext 1		swath Damodaran, <i>Applied Corporate Finance</i> , John Wiley & Sons						
2		ichard A. Brealey and Stewart C. Myers, <i>Principles of Corporate Finance</i> , McGraw-Hill.						
3	. S1	tephen A. Ross, Randolph W. Westerfield and Bradford D. Jordan, Fundamentals of Connance, McGraw-Hill	orporate					
Refe		Books:						
4		asanna Chandra. Financial Management Theory and Practice, Tata McGraw Hill						
6		eldon M Ross. An Elementary introduction to Mathematical Finance, Cambridge University Pres	SS					
		PO-CO Compliance Matrix						

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	3	3								
CO2				2	2				2	2
CO3	3	3	2		2				2	2
CO4	3	3								
*1: Low, 2: Medium, 3: High										

Course: History of Economic Thought (ECO 211)									
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 Pre-requisites:									
1 Student must have comp	pleted the knowledge elementary Economic	es.							
Course Objective:									
under the different scho The course offers the st the controversies betwe Course Outcomes: The stud comprehend the deve	lopment of the economic thought and the t	environment-social, political and ecconcepts of the history of economic deal consciousness of economic ideas theory of economics in historical personal control of economics in historical control of ec	onomic. thought;						
	vsis of ancient economic thinkers in differe	•							
	nction between economic thought and econ								
	d differences among different economic sc								
Interpret and analyze	ies and differences between different early e critically classical school of economics s along with the analysis of Karl Marx's the	including analysis of Adam Smith	, David						
, 11	esis of Indian Economic Thought and Ambedkar and Gandhi	Leading Early Thinkersbeginnin	g from						
Course Content:									
UNIT I Need of studyin Thought; Histor	story of Economic Thought and main per g History of Economic Thought; Various v y of Economic Thought versus Economic	ways to study History of Economic	10 hrs						
Genesis of Eco	ent in Economic Thought; conomics and Ancient Economic Thinke Fan Li, and Abu Yusuf.	ers: Hesoid, Homer, Xenophone,	10 hrs						
government, Wi	of Thought: Mercantilism – Traders and trade policy, surplus, role of lliam Colbert; Physiocracy – Agriculture, land and surplus, taxation, Natural duct and Circulation of Wealth (Quesney's Tableau Economique). William rd Cantillion.								
UNIT IV nations, Division	onomic growth, Laissez Faire & Stationer n of labour& specialization, Theory of Invi of Value and Distribution; David Ricardo	sible hand and Self-interest, Adam	10 hrs						

UNIT V	Theory of distr - Theory of V Capitalism.									10 hrs
UNIT VI	Genesis of Indian Economic Thought and Leading Early Thinkers: Kautilya – Role of state, Taxation, Foreign trade, Good governance; D.B. Nairoji – Economic nationalism, Brain drain, Poverty; B.R Ambedkar – Caste system in India & Division of Labourers, Golden path of development – Balance between Public and Private sectors; M.K. Gandhi – Environmentalism, Self-reliance, Distinction between 'Standard of living' and 'Standard of life', Rural development.									10 Hrs
Internal As										
	Unit I, Unit II									
	Assignment sub	nission and/	or presentat	tion						
Text Book										
	Haney H. – Histor	•								
2. E	Eric Roll – Histor	y of Econon	nic Thought	t						
3. E	Bhatia H.L.– Hist	ory of Econ	omic Thoug	ght						
Reference	e Books:									
	Gide and Rist –Hi	story of Eco	onomic Doc	trine						
	Sinha V.C. – Aart									
6. (Ganguly B.N. – It	ndian Econo	mic Though	nt						
			PO-CC	O Compliance	e Matrix			_	_	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	2	3	2			2				
CO2							2		2	2
CO3	2	2	2			2			3	3
CO4	2	2	2			2	3			
CO5	2 2 2									
CO6	3 2 3									3
CO7	2	2				2				
*1: Low. 2	2: Medium, 3: Hi	 2h					1	1	1	

Course: Fundamentals of International Trade (ECO 301)										
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 Pre-requisites:										
1 Student must have comp	pleted the knowledge elementary macroecon	nomics.								
Course Objective:										
The purpose of this coun	The purpose of this course is to provide students with a thorough grounding in the theory of international trade									

as well as international trade policy and to demonstrate the relevance of the theory in the analysis of (a) existing patterns of international trade and what determines them, (b) the conduct of trade policy and (c) the economic implications of international trade. Course is also dealing with the concepts of balance of payment accounting and foreign exchange market.

	0 .					
Course		comes: The students will be able to				
1		erstand, at the level of formal analysis, the major models of international trade and be nguish between them in terms of their assumptions and economic implications	able to			
2		erstand the principle of comparative advantage and its formal expression and interpretation erent theoretical model	n within			
3		erstand the Heckscher Ohlin model of trade and its interpretation and implications				
4		nonstrate the basic understanding of new trade theories				
5	tarif	able to apply partial equilibrium in analysing the economic effects of trade policy instruments fs, quotas, export subsidies				
6	to ci	Camiliar with, and be able to critically analyse the main arguments for protection and conversely critically evaluate the relevance and realism of arguments for free trade, taking into account the cefits of trade policy measures on different sections of the community and the implications mulation of trade policy.	osts and			
7	Be f	amiliar with the Balance of Payment accounting and foreign exchange market system.				
Course	e Cor		ı			
UNIT	ΓI	Unit 1. Introduction and Classical Trade Theories What is international economics about? An overview of world trade. Mercantilist View on International Trade, Theory of Absolute Advantage, Theory of Comparative Advantage	10 hrs			
UNIT II		Neo-classical and New Trade Theories Theory of Opportunity Cost and Heckscher-Ohlin models; new trade theories:, Krugman and Factor Availability;				
UNIT	III	International Trade Policy I Instruments of trade policy; international monetary systems Free Trade and Protection-Arguments for and against Free Trade and Protection; Tariffs-Classifications of Tariffs, Effects of Tariffs- Partial Equilibrium analysis,	10 hrs			
UNIT	IV	International Trade Policy I Offer Curve, Trade Indifference Curve, Concept of Optimum Tariff; Quotas- Types, Effects; Tariffs versus Quotas. Partial Equilibrium effect of Export Subsidy, Partial Equilibrium Effect of Custom Union	10 hrs			
UNIT	V	Balance of Payment The Structure of BOP; Accounting Principle; Disequilibrium in BOP- Types of Disequilibrium; Causes of Disequilibrium; Adjustment Mechanism- Correction under Fixed and Flexible Exchange Rate regimes,	10 hrs			
UNIT	VI	Foreign Exchange Functions of Foreign Exchange Market; Determination of Equilibrium Exchange Rate; Concepts of Spot and Forward Rates. Forward Premium and Forward Discounts, Expectations .	10 Hrs			
Interna		sessment:				
CIA 1		Unit I, Unit II				
CIA 2		Assignment submission and/or presentation				
Text E		eminick Salvatore, <i>International Economics: Trade and Finance</i> , John Wiley International	Student			
	Ed	lition, 10th edition, 2011.				
Refer	ence	Books:				

	ul Krugman, l						onomics.	: Theory	and I	Policy,
Ad	ldison-Wesley (Pearson Ed				2012.				
			PO-CO	Ompliance Compliance	e Matrix		_			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	3	3								
CO2	3	3								
CO3	3	3	2							2
CO4	3	3	2							
CO5			2			2			2	2
CO6						3	2		3	3
CO7	3	3				2				
*1: Low, 2:	Medium, 3: Hi	gh	,	'	II.	ı	I .	I.	I .	

Course: Economics of Money and Banking (ECO 302)									
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 Pre requisites:									

Course Pre-requisites:

1 Student must have completed the knowledge elementary macroeconomics.

Course Objective:

This course explores the practical aspects of money and banking within the economy. Topics will include money creation, banking operation, central banking system-conduct of monetary policy, and monetary management in an open economy. Emphasis is given to the changing role of financial institutions as well as new financial instruments. The course develops a number of theoretical frameworks for the analysis of domestic economic perspective related to money, banking operation, monetary transmission mechanisms, which provides a base for the understanding of classical and Keynesian approaches for monetary theory and their empirical evidence. The course also focuses on the issues of monetary policy implementation in the closed and open economy contexts, like determinants of the price level, rate of inflation, exchange rate in different regimes.

Cot	arse Outcomes: The students will be able to
1	Understand the basic concepts of money including its origin, functions
2	Understand the role of money, money demand and money supply in the economy
3	Describe the process of money creation by the banking system and the role of the central bank
4	Understand the general principles of bank management
_	Identify the key banking sector reforms in India and policy implications of those reforms with respect to
3	development of Indian economy
6	Elucidate the liability and asset portfolio management "problem" of banks

7	Elucidate the liability and asset portfolio management "problem" of banks.										
0	Assess and evaluate the conduct of monetary policy by the central bank with respect to an open ec								conomy		
8	man	agement									
9		Inderstand the analysis of market for reserves and federal funds rate with special reference to change								inges in	
	monetary policy tools										
10		es the changing role	of financi	al institution	s as well as	new financ	ial instru	ıments in	the econ	omy	
Cours	e Cor									1	
		Money									
UNIT	гт	Concept, function	s, measure	ment; Supp	ly of money	Mechanic	es of mo	ney supp	oly creati	on;	10 hrs
UNII	1	measures of money supply in India. Demand for money: Fisher, Cambridge, and Keynesian								10 III'S	
		and Friedman theories.									
		Commercial Ban	king Syste	m I							
		Meaning, function			a Rolonging	liquidity	with pro	fitability	Process	of	
UNIT	II				s-Darancing	ilquidity	with pro	maomity,	, Trocess	01	10 hrs
		credit creation by	commercia	ıl banks.							
		Commercial Ban	king Syste	om T							
UNIT	ш		•		. T 1			CI.		,	10 hrs
ONII	General principles of banking management, Indian banking system: Changing role and structure; banking sector reforms.							10 1113			
		Central Banking		71113.							
		Meaning and functions, techniques of credit control with special reference to India, conduct									
		of monetary policy: Goals, targets, indicators and instruments of monetary control; Analysis									
UNIT	IV									10 hrs	
		of market for reserves and federal funds rate with special reference to changes in monetary							ary		
		policy tools. Mone	etary mana	gement in ar	open econo	my.					
		Financial Institutions I									
UNIT	ΓV	Economic analysis of financial structure; Basic puzzles about financial structure throughout								out	10 hrs
		the world, transaction costs and its impact on financial structure,									
		Financial Institutions II									
UNIT	VI	Problem of asymmetric information – adverse selection and moral hazard and its impact on								on	10 Hrs
		financial structure	. Role of fi	nancial marl	kets and insti	tutions in	Economi	c develo	pment.		
Intern	al As	sessment:									
CIA		Unit I, Unit II									
CIA 2		Assignment submis	sion and/o	presentation	n						
Text I					1 10	T . 1					
2.		ırajB.Gupta, Monet ırajB.Gupta., Mone	•			•	Dalhi				
3.		ederic S. Mishkin.						l Market	s, Pearso	on. A	ddison.
	W	esley. Newyork, 7 th	Edition (2	004)						, -	
		Books:									
4.	4. Peter Howells and Keith Bain., the Economics of Money and Banking, Pearson, Education Limit.							Limit.			
3 rd Edtion (2005). 5. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata McGraw Hill, 5th											
	edition, 2011										
PO-CO Compliance Matrix											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO
L											10

CO1	3	3							
CO2	3	3							
CO3	3	3	2						2
CO4	3	3	2						
CO5	3	3	2						
CO6	3	3							
CO7	3	3							
CO8						2		3	3
CO9						2		2	3
CO10						2		3	3
*1: Low, 2: M	ledium, 3: Hi	gh		•	•	-		•	•

Theory: 4 hrs per week			Course: Mathematical Finance (E	ECO 303)							
Theory: 4 hrs per week Internal Assessment: 40 marks Total: 4 Course Pre-requisites: Student must have completed the knowledge elementary macroeconomics and mathematics Course Objective: This course introduces the basic mathematics to be used in finance. It is ideal for the students who want to a rigorous study in finance in their final year of under-graduation level. This course ensures that students can experience mathematical and economic perspective of the subject. Using mathematics as a tool this course covers a wide range of topics in finance, such as, the time value of money, portfolio theory, capital market theory, security price modeling, and financial derivatives. Course Objective: Course Objective: This course ensures that students can experience mathematical and economic perspective of the subject. Using mathematics as a tool this course covers a wide range of topics in finance, such as, the time value of money, portfolio theory, capital market theory, security price modeling, and financial derivatives. Course Objective: Course Objective: Course Objective: This course ensures that students who want to a rigorous ensures that students who want to a	TEA	CHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED							
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Student must have completed the knowledge elementary macroeconomics and mathematics Course Objective: This course introduces the basic mathematics to be used in finance. It is ideal for the students who want to a rigorous study in finance in their final year of under-graduation level. This course ensures that students can experience mathematical and economic perspective of the subject. Using mathematics as a tool this course covers a wide range of topics in finance, such as, the time value of money, portfolio theory, capital market theory, security price modeling, and financial derivatives. Course Outcomes: The students will be able to Understand the mathematical foundation of quantitative finance. Grasp the standard and advanced quantitative methodologies applied in the area of financial economics. Create and evaluate the potential models for the pricing of shares and bonds. Construct, analyze and evaluate the models for investment of financial assets. Understand the emerging theories and techniques in the area of financial economics. Course Content:				Total: 4							
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Understand the mathematical foundation of quantitative finance. Grasp the standard and advanced quantitative methodologies applied in the area of financial economics. Create and evaluate the potential models for the pricing of shares and bonds. Construct, analyze and evaluate the models for investment of financial assets. Understand the emerging theories and techniques in the area of financial economics. Course Content:	e c	igorous study in finance xperience mathematica overs a wide range of	e in their final year of under-graduation l and economic perspective of the subject topics in finance, such as, the time value	level. This course ensures that students can ct. Using mathematics as a tool this course							
Grasp the standard and advanced quantitative methodologies applied in the area of financial economics. Create and evaluate the potential models for the pricing of shares and bonds. Construct, analyze and evaluate the models for investment of financial assets. Understand the emerging theories and techniques in the area of financial economics. Course Content:	Cours	e Outcomes: The stude	ents will be able to								
Create and evaluate the potential models for the pricing of shares and bonds. Construct, analyze and evaluate the models for investment of financial assets. Understand the emerging theories and techniques in the area of financial economics. Course Content:	1	Understand the mathe	matical foundation of quantitative finance								
Construct, analyze and evaluate the models for investment of financial assets. Understand the emerging theories and techniques in the area of financial economics. Course Content:	2	Grasp the standard and	d advanced quantitative methodologies ap	plied in the area of financial economics.							
5 Understand the emerging theories and techniques in the area of financial economics. Course Content:	3	Create and evaluate the	he potential models for the pricing of share	es and bonds.							
Course Content:	4	Construct, analyze and	d evaluate the models for investment of fir	nancial assets.							
	5	Understand the emerg	ing theories and techniques in the area of	financial economics.							
UNIT I Review of basic mathematical tools, probability theory and random variables. Economic 10 hrs	Cours	e Content:									
	UNIT	I Review of basic	mathematical tools, probability theory	and random variables. Economic 10 hrs							

	indicators that Simple interest	•							ney:				
	Mathematics of	of Investmen	ıt I										
UNIT II	Buying and se stock value with premium amort	th two-stage	dividend gr	owth, Bon	d valuation,	premium	and dis			10 hrs			
	Mathematics of	of Investmen	t II										
UNIT III	Mathematics o and risk premit	ım, return an				easuring t	he risk, 1	risk avers	sion	10 hrs			
	Portfolio The	ory I											
UNIT IV	Diversification	arkowitz Portfolio Model, Two securities portfolio, N-securities portfolio, Investor Utility, versification and randomly selected securities. Capital market Theory: the financial beta, The Capital Market line, The CAPM equation,											
UNIT V	The Security M	rtfolio Theory II e Security Market Line, CAPM security risk decomposition. Portfolio Risk Measures: The arpe ratio, the Sortino ration, Value-at-Risk. rivatives											
UNIT VI Internal As	Forwards, Futu Calls and Puts, Option valuation vs market data.	Time value on. Option Pr	of Calls an	d Puts, The	e delta ratio	, determin	nates of o	option va	lue,	10 Hrs			
	Unit I, Unit II												
CIA 2	Assignment subr	nission and/c	r presentati	on									
Text Books	O. Petters and	Y Dong A	n Introduc	ction to M	athomatical	Finance	with A	nnlicatio	ns (Sr	ringer			
20 2. S.	Of Peters and (16) Roman, <i>Introdu</i> J. Alhabeeb, <i>M</i>	ction to the	Mathematic	es of Finan	ce (Springer		wun A		ns (S)	miliger,			
					· 								
	Ross, <i>An Elen</i> ambridge, 2011)	nentary Intro	oduction to	Mathema	tical Finan	ce, Third	Edition	(Cambri	ige U.	Press,			
Reference													
	Janssen, R. Ma Janssen, R. Ma Jodels (Wiley, 20		V. di Prig	nano, <i>Mat</i> i	hematical I	Finance:	Determi	nistic an	d Sto	chastic			
			PO-CO	Complianc	e Matrix								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10			
CO1	3	3		2	2		2	2	7	10			
CO2	3	3		2	2		2	2					

CO3	3	3		2	3		2
CO4	3	3		2	3		2
CO5	3	3	2	2	2	2	2
*1: Low, 2: Me	dium, 3: High						

Course: Game Theory (ECO 311)										
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 Pre-requisites:

1 Student must have completed the knowledge elementary microeconomics

Course Objective:

Game theory is a formal study of conflicts and cooperation. The game theoretic concepts apply whenever the actions of several agents (individuals, groups, firms etc. or any combination of these) are interdependent. The concept of Game theory provides a language to formulate structure, analyze, and understand the strategic scenario. This course would provide the students the main ideas of how the game theories can help to understand the economic and social phenomena. It emphasizes the idea behind the theories rather than their mathematical expression typically taught in mathematics. The course would introduce some equilibrium concepts of game theory and their usage in economics along with various numerical examples and applications. The basic knowledge of game theory can dramatically improve the strategic instinct and the decision making skill of students.

Cours	e Out	tcomes: The students will be able to							
1	Und	derstand the economic and social phenomena easily							
2		derstand the actions of several economic agents (individuals, groups, firms etc. or any combination	on of						
		e) in any market structure							
3									
4									
5	5 Understand, clearly, the concept of Nash Equilibrium, different market strategies and zero-sum game								
Cours	e Coi	ntent:							
LINIT	UNIT I Introduction to Game Theory; History of Game Theoretic Analysis; classifications of games; 10 hrs								
UNII	l I	I theory of rational choice 10 hrs							
UNIT	' II	Strategic Game: The Pay-off matrix; the Prisoner's dilemma. 10 hrs							
UNIT	' 111	Nash Equilibrium: The concept of Nash Equilibrium; dominating and dominated strategies;	10 hrs						
UNII	111	zero-sum game	10 1118						
UNIT	W	Mixed Strategy Nash Equilibrium: concepts and examples; strategic game with	10 hrs						
UNII	1 4	randomization. Games with perfect information.	10 1113						
UNIT	ΓV	Games with imperfect information; Bayesian Games; Cournot's duopoly game with	10 hrs						
OIVII	L V	imperfect information; auction; other applications.	10 1113						
UNIT	'VI	Repeated and Cooperative Games	10 Hrs						
Intern	al As	sessment:							
CIA									
CIA 2	2	Assignment submission and/or presentation							
Text F	Books	s:							

1. Osbo	rne J Martin ((2004), An I	ntroduction	to Game Th	eory, Oxfor	d Univers	sity Press	l		
Reference Bo	oks:									
1. Fude	nberg, D. and	Tirole, J. (1	991), Game	e Theory, MI	T Press					
2. Gibb	ons, R. (1992)), A Primer i	in Game Th	eory, Prentic	ce-Hall					
3. Myer	son, R. (1991): Game The	eory: Analy	sis of Confli	ct, Harvard	Universit	ty Press			
			PO-CC	Ompliance Compliance	e Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	3	3								
CO2	3	3								
CO3	3	3								
CO4	3	3								
CO5	3	3								
*1: Low, 2: M	edium, 3: Hig	gh	•	•	•	•	•	•	•	•

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 Pre-requisites:			
		pleted the knowledge elementary microecon	nomics	
	se Objective:	foundation for the study of theoretical mod		
t	the techniques taught in analysis of antitrust/con	ed with different strategic motives and intent the compulsory course on Game Theory. In petition policy, as well as other policies retegic trade policy, which are covered in other	It also provides a theoretical frame lating to regulation, innovation, int	work for
Cours		ents will be able to sing game theoretic tools, about the principa	al issues concerning oligopolistic ma	arkets,
2	Think analytically, us competition, Apply them to the reamore naturally and fo	sing game theoretic tools, about the principal world of industry. They would also be pre-		
2	Think analytically, us competition, Apply them to the rea more naturally and fose Content:	sing game theoretic tools, about the principal world of industry. They would also be proundationally.	epared to understand competition po	
1 2 Cours	Think analytically, us competition, Apply them to the rea more naturally and fo se Content: Introduction to I	sing game theoretic tools, about the principal world of industry. They would also be pre-	epared to understand competition po	olicy
2	Think analytically, us competition, Apply them to the rea more naturally and forms to content: T I Introduction to Introduction Introducti	sing game theoretic tools, about the principal world of industry. They would also be proundationally. Industrial Organization, Competing Throug	epared to understand competition por h Quantity and Price: Short-Run Price Competition	
1 2 Cours UNI	Think analytically, us competition, Apply them to the reamore naturally and for se Content: I I Introduction to I Homogeneous Competing Through Products, Products	sing game theoretic tools, about the principal world of industry. They would also be proundationally. Industrial Organization, Competing Throughoods: Markets for Homogeneous Goods, bugh Quantity and Price: Heterogeneous Go	epared to understand competition por th Quantity and Price: Short-Run Price Competition rods: Markets for Differentiated	10 hr
1 Cours UNIT	Think analytically, us competition, Apply them to the rea more naturally and fo se Content: T I Introduction to I Homogeneous C Competing Throproducts, Products, Products III Game theory: IT IV Spatial models of	sing game theoretic tools, about the principal world of industry. They would also be proundationally. Industrial Organization, Competing Throughoods: Markets for Homogeneous Goods, ough Quantity and Price: Heterogeneous Goot Differentiation Nash Equilibrium, Dominant strategies, mix of horizontal and vertical product differential	epared to understand competition por h Quantity and Price: Short-Run Price Competition rods: Markets for Differentiated sted strategies, prisoner's dilemma attion.	10 hr 10 hr 10 hr
1 2 Cours UNI	Think analytically, us competition, Apply them to the rea more naturally and fo se Content: T I Introduction to I Homogeneous Competing Throproducts, Products, Products III Game theory: It Spatial models of the competing Try Static oligopoly	sing game theoretic tools, about the principal world of industry. They would also be proundationally. Industrial Organization, Competing Throug Goods: Markets for Homogeneous Goods, ough Quantity and Price: Heterogeneous Goott Differentiation Nash Equilibrium, Dominant strategies, mix	epared to understand competition por th Quantity and Price: Short-Run Price Competition rods: Markets for Differentiated sed strategies, prisoner's dilemma attion. d products. Strategic substitutes	olicy 10 hr

CIA 1 Unit I, Unit II										
CIA 2	Assignment subr	nission and/	or presentat	ion						
Text Boo										
1.	P. Belleflamme,	M. Peitz: Ind	lustrial Org	anisation: M	arkets and S	Strategies,	, Cambrio	dge Unive	ersity P	ress
	(2015)									
2.	L. Cabral: Introd	uction to Ind	ustrial Orga	anization, M	IT Press (20)17)				
Reference Books:										
3. M. Armstrong, R. Porter: Handbook of Industrial Organization, Vol. III, North-Holland (2007)										
4.	4. O. Shy: Industrial Organization: Theory and Applications, MIT Press (1996)									
5.	J. Tirole: The The									
6.	Hay, D.A., Morri	s, D.(1991).	Industrial I	Economics a	nd Organis	ation. Ox	ford Univ	versity Pr	ess	
7.	Krouse, Clement	G. (1990). 7	Theory of In	dustrial Eco	nomics. Ba	sil Blacky	well Ltd			
8.	Sen, A. (ed.) (199	96). Industri	al Organisa	tion. Oxford	l University	Press				
9.	Waterson, M. (19	984). <i>Econor</i>	nics Theory	of the Indus	<i>tr</i> y. Cambri	dge Univ	ersity Pre	ess		
			PO-CC	Compliance	e Matrix		1	1	1	1
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO
			103	10.	100		10,	100	9	10
CO1	3	3				3			2	2
CO2 3 3 2 2 2										
*1: Low,	2: Medium, 3: Hig	gh								

		Course: Public Finance and Policy (E	CCO 313)						
TE	ACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
T	heory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4						
			Total: 4						
Cou	rse Pre-requisites:								
1	Student must have comp	oleted the knowledge elementary macroecon	omics						
Cou	rse Objective:								
	Study the functioning of	f modern public finance. After successful	completion of the course students will be						
	able to critically assess t	he mechanism of functioning of modern put	plic finance						
Cou	rse Outcomes: The stude	ents will be able to							
1	functions (allocation, Thus, students will	ing of modern public finance and the ro distribution, stabilization, public goods, pro be able to explain why government inter- tite sector and what the welfare effects of suc	vision of social goods, mixed goods, etc.). vention is needed, how it influences the						
2	Identify the types of p	public needs and the mechanisms of their fin-	ancing.						
3	Argue the theoretical	basis of public expenditures and taxes and to	o analyse their types and economic effects.						
4	Classify public revent of budgetary policy.	ues and expenditures through the budget and	d to analyse the instruments and objectives						
5	Understand the effects of Public Debt and the theories related to it.								
6	Understand the Centre	e-State financial relations.							

Course Co	ntent:												
	Scope of Publi	c Finance											
UNIT I	Scope of Publi									10 hrs			
01/11/1	stabilization, T	-						on		10 1110			
	Intervention- E	Externalities,	Allocation	or Distributi	ion which c	omes first							
	Public Expend	iture											
	Introduction, n	neaning and	scope, diffe	erence betwe	en public a	nd private	e expendi	ture. Rea	ason				
UNIT II	for growth of p	_	-		-	-	-			10 hrs			
	i.e. Lindhal th	eory and sar	muelson 's	model Pigou	ı's Ability 1	to pay The	eory, , W	agner's l	Law				
	of Increasing C	Governmenta	l Activities.										
	Public Revenu	e I											
UNIT III	Source of Publ	ic Revenue,	Direct vs. in	ndirect, Obje	ectives of T	axation, C	Concepts-	Impact of	of	10 hrs			
	Tax, incidence	, incidence of Tax, Shifting of Tax and Taxable capacity,											
	Public Revenu	e II											
UNIT IV	T 11 T G	. CI			0.11			G .		10 hrs			
	Indian Tax Str	ucture- Class	sification of	Taxes, Feat	ures & limi	tation of I	ndian Ta	x System	1.				
	T done Best												
UNIT V	_	ues relating to Public Debt: Sources of internal and external Public Debt, danger of public bt, safe limit of public debt, debt burden analysis and management of public debt,											
	debt, safe limit	of public de	ebt, debt bur	den analysis	s and manag	gement of	public de	ebt,					
	federal finance												
UNIT VI	constitution, sl	nortcoming	of federal f	inance, Con	cept of Bu	dget Defic	cit - Rev	enue, Fis	scal,	10 Hrs			
Internal As	Primary.												
	Unit I, Unit II												
	Assignment sub	mission and/	or presentat	ion									
Text Book 1. R	s: .A. Musgrave an	d P.R. Musa	rave Public	Finance in	Theory & I	Practice N	AcGraw I	Jill Dubli	cation	c			
						ractice, iv	icoraw i	1111 1 0011	Cation				
2. M	Iusgrave, R.A.: T	Theory of Pu	blic Finance	e, McGraw I	Hill								
Reference													
1. A	ndley K.K &Sur	ıdharam, K.I	P.M.: Public	Economics	and Public	Finance,	Rattan Pr	akashanl	Mandii	î .			
			PO-CO	Complianc	e Matrix				l no	l no			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10			
CO1	2	2	2			2			2	2			
CO2	2	2											
CO3	2	2				2			2	2			
CO4	3	2				2			2	2			
							1						

Course Content:

CO5	2	2		2		
CO6	2	3		2		
*1: Low, 2: Med	lium, 3: High					

Course: Microeconomics I (ECO 401)	
TEACHING SCHEME EXAMINATION SCHEME CREDIT	TS ALLOTED
End Semester Evamination: 60 marks	heory: 4
	Γotal: 4
Course Pre-requisites:	
1 Student must have completed Bachelor's Degree	
2 Must Have aptitude for microeconomics	
Course Objective:	
The Course examines how individuals and firms make decisions by weighing up prefe	
benefits, and how the interaction of their decisions leads to utility-maximization, mark	
The model of market supply and demand is employed to examine the effects of taxes,	
government interventions in market activity. The implications of different market stru competition and monopolistic are examined.	ictures, including perfect
Course Outcomes: The students will be able to	
Demonstrate an understanding of the concents of utility functions, demand functions	and preference structure
to compare the choices of consumer	1
2 Demonstrate the ability to apply optimization techniques to decisions made by consu	mers and firms
Students will be able to demonstrate an understanding of producer choice, include	ling cost and production
function analysis	
Demonstrate an understanding of how markets work to allocate resources and the opmaking that underlies market outcomes	otimal individual decision
Identify perfect competition, monopoly and monopolistic market structures and disc	uss their implications for
resource allocation	1
Explain the advantages and potential shortcomings of markets, discuss the conditions	under which markets do
and do not work well	
Course Content:	- · · · · · · · · · · · · · · · · · · ·
Theory of Consumer I: Preference relations and their properties, Consumption (Optimizing Behaviour of the consumer under alternative preference structure	
UNIT I (Optimizing Behaviour of the consumer under anternative preference structure Indifference curves and revealed preference). Derivation of demand functions	
Substitute, perfect compliments and quasi-linear utilities	. I cricci
Theory of Consumer II:Indirect Utility and Expenditure Functions. Comparati	ve statics of
UNIT II the consumer's decision, income and substitution effect –Hicks and Slutsky and	
Equation, derivation of ordinary and compensated demand function, Demand	elasticity.
Consumer's surplus,	
Theory of Production and Costs I: The Production function- Assumptions, Va	
UNIT III Scale, Variation in input proportions, the multi-product firm and production p	ossibility set. 10 hrs
Minimization of costs in the long and the short run, Theory of Production and Costs II: Derivation of cost functions from produc	tion functions:
UNIT IV Cobb-Douglas, CES, and Trans-log production functions and their properties;	10 hrs

UNIT V	Perfect competicurve; Monopolaspects, monopolaspects	y — short	un and long	g run equilib	rium, price					10 hrs
UNIT VI	Monopolistic co of the firm and monopolistic ar	ompetition - the group w	— general a	nd Chamber differentiati	lin approac					10 Hrs
Internal As	ssessment:									
	Unit I, Unit II									
	Assignment subm	ission and/	or presentat	tion						
Text Books										
4. V	arian, H. (2005),	Intermediat	e Microeco	nomics: A M	odern App	roach W.\	V. Norto	n, New Y	ork.	
5. V	Varian, H. (2004),	Microecon	omic Analy.	sis, W.W. No	orton, New	York.				
Reference	Books:									
1. G	ravelle, H and Ra	y Rees (200)4), Microe	conomics, 3 ^r	d edition, Pa	rentice Ha	ll Longn	nan Londo	n.	
2. Se	en, A. (1999), <i>Mic</i>	roeconomi	cs : Theory	and Applica	tions, Oxfo	rd Univer	sity Pres	s, New		
	licroeconomic Th	eory: Basic	e Principles	and Extens	sions (Upp	er Level l	Economi	cs Titles)	Cenga	ge; 11
7. Re	oy Choudhary, K	Microecon	omics, Vol	1.						
	icholson, W., Mi		c Theory:	Basic Princi	ples and E	xtensions,	eighth e	dition, Sc	outh W	estern
T1	homson Learning	, 2002								
			PO-CC) Compliance	e Matrix		•	1		_
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	CO1	2	2		2					1
CO2	CO2	2	2		2	2			2	1
CO3	CO3	2	2	2	2				1	1
CO 4	CO 4	2	2	1	1	2	2		2	1
CO 5	CO 5	2	2	3		2	3		2	1
CO 6	CO 6	2	2	2			2		2	1
*1: Low, 2	: Medium, 3: Hig	h								

	Course: Macroeconomics I (ECO 402	2)
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Theory 4 hrs per week	End Semester Examination: 60 marks	Theory: 4
Theory: 4 hrs per week	Internal Assessment: 40 marks	Theory: 4
		Total: 4
Course Pre-requisites:		
1 Student must have com	pleted Bachelor's Degree	
2 Must Have aptitude for	macroeconomics	
3 Must possess analytica	l thinking	
Course Objective:		
This course Introduces	students to the main classes of models in mode	rn macroeconomics. The first h

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

i i	1										
1	Demo	nstrate the pro	oblem of mac	roeconomic	aggregations	using partia	d and gen	eral equi	librium a	nalysis	3
	Examine how the economy behaves at the aggregate level and how national income is measured and										
2	determined both in closed and open economy context										
	Demonstrate various theories explaining the major factors determine consumption expenditure on final goods										goods
3	and services.										
4		e money and			•		y supply i	ncluding	the proce	ess of 1	money
-	creation	n by the banl	king system a	nd the role of	f the central b	oank.					
Apply macroeconomic measures to analyze unemployment and inflation including contrasting economic											С
5 views on unemployment.											
											arr and
Explain the components of aggregate economic activity, fluctuations and effects for the national economy											iy and
how fiscal policy is used to achieve economic goals.											
Cou	ırse Coı										
			to Macroe								
LIN	IIT I		omics, Macro								10 hrs
O1	1111		omic Equilib	orium. Natio	onal Income	e Accounti	ngs. Mad	croecono	mic Del	oate	10 1113
		(Introductor									
			Aacroeconom								
IIN	IT II		omics. Mode								10 hrs
OI	11 11		nterpretation				Keynesian	Interpre	etation, P	ost-	10 1113
			nterpretation								
			n Function								
LIN	III TII		e Cycle Hyp			• 1			• 1		10 hrs
O1	111 111	Keynesian '	Theory of In	vestment, Ac	celerator pri	nciples, Ne	o-Classica	al and N	ew Class	ical	10 1113
		Theories of									
IIN	NIT IV		Inflation: I						inkin's F	Real	10 hrs
OI	VII I V		ect, Issues re								10 111 8
			proach to Sup								
UN	IT V		, Natural					tions ar	nd Ratio	onal	10 hrs
			s models of in								
			n the short-ru								
IIN	IT VI		rve, Goods								10 hrs
011	11 11		ase; Fiscal p			cy under al	Iternative	supply	assumptio	ons,	10 1113
			Aggregate de	emand and su	ıpply.						
		sessment:									
CL		Jnit I, Unit II									
CL	A 2	Assignment s	ubmission an	d/or presenta	tion						
Tex	t Books										
	1. De	ornbusch Ruc	li, Fischer, S	tanley and S	Startz Richar	d. <i>Macroec</i>	onomics,	Tata Mo	Graw-Hi	ll Pub	lishing
	Co	. Ltd.									
Re	ference	Books:									
110		ankiw Gregor	rv N. Macroe	conomics. W	orth publishe	ers					
		anchard Oliv	•								
	J. DI	anchard Onv	iei. macroeco			3.6					
PO-CO Compliance Matrix											
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO										
~~	\ 1							1	-	9	10
CC)1	2	2	2			3	1			
CO	2	2	2	2			3				
CC		2	2	2			2	3	2		
CC	4	2	2	2			2				
CC	5				2				2	3	3
CC		2	2				2				
		I	I					1			

			Course Name: Issues in Indian Economy (ECO405)	
TI	EACHI	NG SCHEME	EXAMINATION SCHEME CREDITS ALLOTED	
		4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks Theory: 4	
			Total: 4	
		e-requisites:	slated Dashalon's Dasmas	
1			bleted Bachelor's Degree	
2			e of elementary economics	
Cot	irse Obj		the students to the various dimensions of the Indian Economy and the contract	
	Proble develo eradic focuse	ems of Indian Ecopymental strategies ate the poverty are son the changing	conomy. This course is also aims to provide the basic information regards and structural adjustment reform measures that countries across the world and unemployment, to reduce inequalities and regional imbalances. The countries of state, markets and civil society institutions with respect to	rding the l adopt to ourse also
Cor		opment.	ents will be able to	
1			conomy better and will get some idea about the problems faced by the Indian	economy
2			pment process in India after independence	economy
3			n the external sector reforms and industrial sector reforms undertaken in glob	al
3			India for last three decades	
			uctural adjustment programs and reform measure that the government of Indi	
4			te poverty and unemployment, to reduce inequalities and regional imbalances	since
		endence	mary measures of inflation in India are and be able to assess the impact of in	lation on
5			oreign capital India.	iation on
Cou	irse Coi		7795. 445.142 2110741	
			opment in global economies; Trade and exchange rate liberalization, market	
UN	ITI		ns, Capital flows from World Bank and IMF. Structural adjustment	10 hrs
			l conditionalities.	
UN	IT II	structures like Sl	and trade policy changes, Industrial policy and setting up of regulatory EBI, TRAI, IRDA, etc.	10 nrs
UN	III TII	infrastructure se	sectors. Investment requirements of roads, power, ports and other ectors private-public partnership mode SMEs and Informal sector Labour Exit policy and liberalization of labour markets.	
UN	IT IV		d: Livelihoods and Employment: Structure of rural poverty, Food security distribution System; Employment Security- MGNREGA	10 hrs
UN	NIT V	institutions Cha Indian economy trends. Inequaliti	elopment and institutions – Role of state, markets and civil society aracteristics of Indian markets and need for state interventions. Growth of since independence – Sectoral growth rates and changing structure. Poverty ies and regional imbalances.	10 hrs
	IT VI	direct investmen trends – Compos	estic savings and investment. Role of foreign capital - borrowing, equity and at. Technology inflows. Monetary policy issues: Price level and inflationary sition of wholesale price index. Retail prices.	
		sessment:		1
CL		Unit I, Unit II	:-:	1
			ission and/or presentation	
rex	t Books		Economy: Issues in Development & Planning and Sectoral Aspects	
<u> </u>	1. U	ma Kapna, mulan	Leonomy. Issues in Development & Flamming and Sectoral Aspects	

Reference Boo	oks:											
2. Ray, Debraj; Development Economics, Oxford University Press, 2002.												
3. To be supplemented by scholarly readings from Economic and Political Weekly, Indian Economic journal												
and Ir	and Indian Economic Review											
			PO-CC	Compliance	e Matrix							
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO PO											
	roi	102	103	104	103	100	107	108	9	10		
CO1	3	3										
CO2	3	3										
CO3	3	3										
CO 4	3	3				2			2			
CO 5	CO 5 3 3 2 2 2											
*1: Low, 2: Me	edium, 3: Hig	gh										

			Course Name: Microeconomics II (F	ECO411)						
TF	EACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
Т	Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4						
				Total: 4						
Co		-requisites:								
1			nowledge of intermediate microeconomics							
	2 Must possess knowledge of elementary mathematics									
Cou	ırse Obj									
C	policy, The w Famili	and micro-found orkhorses of maca arity with the mat	vely cover recent developments in macroe dations. The focus will be on substantive i roeconomic issues will be applied to analysterial covered in texts as mention in Macroeconts will be able to	ssues and applications of basic pr se economy-wide topics of current	inciples.					
1			ability of explaining some core economic is	orang .						
2			onomy works at different situations both in							
			•							
3			ories the contemporary economic and social							
4			sising the argument found in academic reserved.	arch and also in media.						
5	Develourse Cor		economic arguments.							
Cot	irse Cor		me Theory: Non-collusive (Cournot, Bertra	nd Edgawarth Non colluciva						
UN	IIT I	(Cournot, Bertra solution) and col	and, Edgeworth, Chamberlin, kinked demand llusive (Cartels and mergers, price leadershinder monopsony and bilateral monopoly;	d curve and Stackelberg's	10 hrs					
UN	NIT II	Game Theory: N	lash Equilibrium, Prisoners' Dilemma, Dom m Game, Mixed Strategies	inant Strategies, Repeated	10 hrs					
UN	III TII	Theory of Distribution theory of distribution	bution: Neo-classical approach — Marginal rem; Elasticity of technical substitution, tech pution in imperfect product and factor market	nnical progress and factor shares; ets;	10 hrs					
UN	UNIT III General Equilibrium: Core of Exchange economy; Market exchange; General equilibrium models of exchange and production; Existence of competitive equilibria; Uniqueness and Stability of Competitive equilibrium;									
UN	IT IV	Criterion; Kaldo	nics: First and Second Fundamental Theore r Criterion; Scitovsky Criterion; Social welf y of Second Best, Arrow's impossibility the	Fare function; Compensation	10 hrs					

E	xternalities: M	arket Failur	e: Market fai	lure: Source	s of marke	t failure a	and their			
	nplications - E									0 hrs
Internal Asses										
	t I, Unit II									
	signment subm	ission and/c	or presentatio	n						
Text Books:			3.51					. ~		
	Varian, Hal R.,	Intermedia	te Microecon	iomics, 1990	, 5th Editio	on, W.W	. Norton	and Com	pany (√arian
-	5).									
2. V	Varian, Hal R.,	Microecor	nomic Analy	sis, 1992, 3r	d Edition,	W.W. N	orton an	d Compa	any (Va	ırian -
3	3).									
	Gravelle, H and	Ray Rees	(2004), Micr	oeconomics,	3 rd edition	, Prentice	e Hall Lo	ngman L	ondon.	
Reference Bo										
]	 Modern M Macmillan 		ics 2e,Kouts	oyiannis 2nd	Revised e	dition Ec	lition 2nd	d Publish	ner:	
			economic Tl	heory: Basic	Principles	and Ext	tensions,	eighth e	dition,	South
			rning, 2002	·	•			C		
3	B. Mas-Collel	, Whinston	and Green, I	Micro-econor	mic Theory	y, OUP,	1995			
4	I. McKenna,	C.J., 1986	, The Econo	omics of Un	certainty,	Wheat S	Sheaf Bo	ook (Mcl	kenna)	Harry
				y, Penguin E	-					•
	5. Russell, R	R and M	Wilkinson	1979, Micr	oeconomic	re· Δ Sτ	nthesis	of Mode	ern and	Neo-
-				York. (Russ		.s. A 5)	innesis	or wiode	iii aiia	1400-
		2.6. 1.11	1	1070 15		, , , , , , , , , , , , , , , , , , ,		TT'11 /T	1)	
Ć	5. Layard, P.I	R.G and Wa	ilters, A.A.,	1978, Microe	economic T	heory, M	IcGraw I	Hill (Lay	ard).	
7	7. Henderson	&Quandt,	1988, Micro	economic Th	neory - A	Mathema	tical Ap	proach, N	AcGrav	v Hill.
	(Henderson	n).								
8	3. Sen, A. (19	99). <i>Micro</i>	economics : '	Theory and A	Application	s. Oxfor	d Univer	sity Press	s. New	
				rinciples an						Titles)
	Cengage; 1	1 edition (2	2014)	_						
			PO-CO (Compliance N	Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	2	2				2				
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CO3	2	2							3	3
CO 4									3	3
CO 5		2	2						2	2
*1: Low, 2: M	edium, 3: High	1								

					Iacroecono i	nics II (E0					
T	EACHI	NG SCHEME		INATION		_	CR	EDITS A	LLOT	ED	
7	Γheory:	4 hrs per week			ation: 60 ma	:ks		Theo	ry: 4		
			Interna	1 Assessmen	it: 40 marks			Tota	1. 1		
Co	urse Pre	e-requisites:						1018	1. 4		
		nt must have comp	leted the kn	owledge of i	ntermediate	macroecon	omics ar	nd pre-red	uisite ar	policati	ions
1		croeconomics		- · · · · · · · · · · · · · · · · · · ·				F	1	Γ	
2	Antitu	de and skills in Qu	ıantitative a	nd mathemat	tical Analysi	2					
	_		dantituti ve di	na mamema		, 					
Col	urse Obj		volv cover i	ocent devel	onmonts in	nagragan	omics of	fluctuat	ions on	on 000	nomy
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											
		arity with the mat									
Cor	urse Out	comes: The stude	ents will be a	ble to							
1		nstrate how the ec						well as lo	ng-run.		
2		the economic the									
3	1	stand how the fisc		kers and the	monetary po	olicy make	rs interac	t and also	o they ca	ın able	to
analyze the policy decision. Improve to make economic policy debate.											
	urse Con		ine poney di	coatc.							
	<u> </u>	Macroeconomics	s in the Sho	rt Run: Fluc	tuations of l	Macroecon	omic vai	riables, T	he Styli	zed	
UN	I TIV	facts. Open Eco									10 hrs
		Model,	•								
UN	II TIV	Macroeconomic					e Volati	lity, Inter	est rate	and	10 hrs
		Exchange rates,						C 1			
UN	III TIN	Micro-foundatio		and Nomin	al Rigidities	: Determi	nation o	f Aggre	gate sup	ply	10 hrs
		curve, Wage-Prio Imperfect Inform		erfect Com	netition and	Asymmet	ric Infor	mation	Solving	for	
UN	IT IV	Rational Expecta					ne mior	mation,	Sorving	101	10 hrs
		Macroeconomics					lence, t	he Oper	n econo	my	
UN	V TIV	consumption sm	noothing, an	d foreign c	apital, the f						10 hrs
		Business Cycle I									
		Macro Policy:									404
UN	IIT VI	Credibility, Com	ımıtment de	vices, Monet	tary Transmi	ssion Mec	hanısm a	nd Targe	ting, Pol	ісу	10 hrs
Inte	ernal Ac	debates. sessment:									
		Unit I, Unit II									
		Assignment submi	ssion and/or	presentation	1						
	kt Books			•						1	
	1. Ro	omer D. Advanced	Macroecon	omics. McG	raw Hill Boo	k Compan	y: Londo	on,			
	2. Bl	anchard Olivier &	Fischer Sta	nley. Lectur	es on Macro	economics.	Cambri	dge: MIT	Press,		
Re	ference										
		anchard Olivier. A									
	4. He	eijdra B., van der l	Ploeg F. Fou				<i>ics</i> , Oxfo	rd Unive	rsity Pre	SS	
		<u> </u>		PO-CO C	ompliance N	I atrix				D.C.	Tpo
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10

CO1	2	2	2					
CO2							3	3
CO3	3	3	2		3		3	3
CO 4					2	2		
*1: Low, 2:	Medium, 3: H	ligh						

		Course Name: Trade Theory and Po	olicies (ECO414)							
TEA	CHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED							
	eory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4							
			Total: 4							
	se Pre-requisites:									
1 S	tudent must have comp	pleted the elementary knowledge of Macro	economics, and Microeconomics							
	e Objective:									
tra pr tra im ge	nde on income distribution de on income distribution a stand and policies. Course emplications for econominaral equilibrium effec	gains from trade, the determinants of patterion, the relationship between trade, and ecard collection international trade models to ploys the understanding of classical, neo-called welfare and gain. Course develops the unterpretent to for trade policies and theory of custom undergional trade agreements.	onomic growth. The course relies o understand the motivations behind classical and modern trade theories a nderstanding of analyzing the partial	modern nd its and						
1	ourse Outcomes: The students will be able to 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		derstanding of trade theories and its interpr		onomy						
3	tariffs, quotas, export	nd general equilibrium effect of trade polic subsidies, (b) retaliatory measures such as tion of regional trading arrangements such	anti-dumping duties and countervai	ling						
4	evaluate the relevance trade policy measures trade policy.	ally analyze the main arguments for protect and realism of arguments for free trade, to on different sections of the community ar	aking into account the costs and bend the implications for the formulation	efits of						
5	Analyze the partial an	d general equilibrium effect of theory of c	ustom union							
6		Immiserizing growth and intra-industry to								
7		developments in the world trading system	, and be able to critically analyse the	WTO						
		onal trading arrangements.								
9		gain in free, restricted and no trade situat welfare and gain of participating internat								
10		n through offer curves, trade indifference		700						
10	ivicasure the trade gan	in unrough offer curves, trade municipalice	curve and production possibility curv	ves						
Cours	e Content:									
UNIT	gains from trade, Free trade is bette better than free tra		on. Theory of opportunity Cost. stricted trade, restricted trade is	10 hrs						
UNIT	II Samuelson theor	n factor endowment model. Factor price ed rem. Specific Factor Model, terms of trade aches and paradox		10 hrs						

1	Factor intensity i	ravareale an	d pattern of	trada Intra	and inter in	duetry tra	da Impai	rfact		I	
UNIT II	Competition: Im								ski	10 hrs	
	theorem, Immise								3KI	10 1113	
UNIT IV	New Trade Theo					5011010) 411	<u>u 11010105</u>	5011010).		10 hrs	
	General and part					guments f	or protec	tion,			
	Political econom								of		
UNIT V	protection. Non t					nts, Coun	tervailing	g duties a	ınd	10 hrs	
	export subsidies,	dumping. I	Effects of tar	riffs on facto	or prices.						
		. ,									
LINUT VII	Theory of custom									101	
UNIT VI	General equilibri GATT and WTC				of integratio	n Regiona	il trade g	roupings	,	10 hrs	
Internal As		, Regional	trade blocks	<u> </u>							
	Unit I, Unit II										
	Assignment subm	nission and/o	or presentat	ion							
Text Book			r						<u> </u>		
1. D	ominick Salvator	re, Internati	ional Econo	mics: Trad	e and Fina	ince, John	n Wiley	Internati	ional S	Student	
	dition, 10th editio										
Reference											
	ugel, T.A.(2008),								lew De	lhi.	
	hagwati, J. N., A.	~ .		rinivasan (1	998), Lectu	res on Inte	ernationa	l Trade,			
	UP,NewDelhi, Se			17	, ,	TD1	1 D 1'	G: 4 E			
4. K	rugman, P.A. and	M Obstřelo		Compliance		Theory ar	d Policy	, Sixth E	<u>a.</u>		
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	9	10	
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CO2	2		3			3					
CO3							2		3	3	
CO 4							3		2	2	
CO5			2			2			2	2	
CO6			2			2			2	2	
CO7 2 2 2 3 3 3 2 1											
CO8 2 2 2 2											
CO9					1	2		1	2	2	
CO 10			2		1	2		1	2	2	
*1: Low, 2	2: Medium, 3: Hig	h									

Course Name: Dissertation I (ECO415)								
	TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED					
Т	heory: 10 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	10					
			Total: 10					
Co	Course Pre-requisites:							
1	Student must have completed the Graduation							
Course Objective:								
	The purpose of the Dissertation I is to encourage students to undertake independent economic research and to							

foster research-related skills, which should benefit future study and employment.								
Course Outcomes: The students will be able to								
Demonstrate specialist knowledge in the area of the research								
2 Demonstrate the ability to initiate research and to formulate viable research questions.								
3 Demonstrate the capacity to design, conduct and report sustained and original research.								
4 Demonstrate the ability to evaluate and synthesize research-based and scholarly literature.								
Assessment:								
CIA 1 Presentation of Synopsis 20								
CIA 2 Presentation of Progress of Research Work 20								
The students are required to submit their dissertation report as per guidelines prescribed by the department at the end of the specified period. The students are also required to attend viva voce examination during the end of the Semester IV of the programme. Out of total 60 marks in the dissertation I, 30 marks are of Report, to be assessed by the Department (by constituting a panel of examiners including internal & external examiners)								
and rest 30 marks are of viva voce to be awarded by internal & external examiners.								
PO-CO Compliance Matrix								
PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 9 PO 10								
CO1 3 3 3 2 2 2 2 1 1 2 1 2 1 2 1 2 1 2 1								
CO2 2 2 2 2 2 2								
CO3 2 2 2 2 2 2 2 2 2 2 2 2 2								
CO 4 2 3 2 2 2 2								
*1: Low, 2: Medium, 3: High								

Course Name: Development Economics (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							
Co	Course Pre-requisites:									
1	Student must have completed the knowledge of Macroeconomics.									
Cot	arse Objective:									
	This course familiarizes the students with emergence of the field of development economics in the context of international events. It aims to focus on various development theories and approaches in dealing with underdevelopment and pressing issues of poverty and inequality, with the concepts and measurement.									
Cot	urse Outcomes: The stud	ents will be able to								
1	Analyze the shift of focus from economic growth as a single dimensional concept to economic development which is a multi-dimensional concept.									
2	Demonstrate familiarity with some central themes and issues of economic development.									
3	growth theories, the r	he understanding of the difference between growth and development, major development and es, the measurement of inequality, significance of agriculture in developing countries, poverty in issues facing the world, international trade, and importance of foreign aid.								

4		tamine the factors responsible for perpetuation of the conditions of underdevelopment in same										
5		onomies. Ferentiate different measures of poverty and inequality and pros and cons of different measurement.										t
6		view the policy implications of these key development economic theories										
7	Criti	ically analyze how the theory of development economics impacts upon practical implementation relopment policies in varying local and global contexts								nacro		
~												
Cours	e Cor		, CD 1	, т	CDD	•	. 1	U . T	NDD 1.		- 1	
UNIT	UNIT I Concept of Development – From GDP per capita to holistic indicators.PPP and international differences. International poverty line and estimates of poor. Factors of development Colonialism and dependency theories.								10 hrs			
Sc as		Schumpeter –Innovation, enterprise and process of 'creative destruction'. Rejection of trade as the 'engine of growth'. Nurkse and Prebisch arguments. Structural changes: Kuznets analysis of structural change.								ote	10 hrs	
UNIT III Concept and Measures of Poverty-, Pareto Distribution, Head- Count Ratio, Income Gap Ratio, FGT Index. Concept and Measures of Inequality – Lorenz Curve and Gini coefficient, Issues in composite Indices, Problems of Aggregation. Inequality and Growth- the inverted U curve hypothesis, Inequality and growth – Interrelationships.							ent,	10 hrs				
UNIT	UNIT IV Role of capital formation – vicious circle arguments, Rostow's stages of development, Kuznet's economic history analysis of characteristics of development.							ent,	10 hrs			
UNIT	UNIT V Capital formation and allocation of investment- Balanced and unbalanced growth theories. Rosenstein –Rodan and Hirschman. Denison's growth accounting – Contribution of labour, capital and Technology.							nir.	10 hrs			
	Role of agriculture. Dual economies and surplus labour argument, Ranis-Fei Model, Unemployment- efficiency wage theory as an explanation for wage rigidity and involuntary unemployment, Collusive theory of unemployment. Population growth and critical Minimum Effort. Demographic transition. Demographic dividend.								10 hrs			
Intern												
CIA			Unit II	1/								
CIA 2			ment submis	sion and/oi	presentation	1						
			ıll: Growth an	d Develon	ment FIRS							
			elopment Eco			•						
		Books	_									
			ntroduction to	Developm	ent Econom	ics, Rutledge	e.					
			u: Analytical					d Econon	ny Revisi	ited, OUI	Ρ.	
			overty of Dev						•			
			ading issue in				on),OUP.					
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CO3			3	3	2			2				
CO 4				2			1	2	2	1	2	
CO5			3	3		2	2	2		-	2	
CO6 CO7				2		3	3	3	2	2	1	2
	w 2·	Medi	um 3. High	<i>L</i>		3	٦)			1	1 2
1.10	*1: Low, 2: Medium, 3: High											

Course Name: Economic Growth Theories (ECO 502)							
Tl	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED				
Theory: 4 hrs per week		End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4				
		Total: 4					
Co	urse Pre-requisites:						
1		pleted the knowledge of Macroeconomics					
Coi	shed light both on the predifferences across count and Pasinetti's work will questions addressed include can explain economic supathway and homework knowledge of endogenous	roduction to the theories and models of econocess of economic growth at the world level ries. Topics covered include income distributed be mentioned, and the standard economic glude: Why are some countries rich and some access and failures? This course is aimed at I questions will typically involve solving profus growth models of AK, Lucas and Romer	and on sources of income and groution and economic growth, where growth model of Solow. Macroeco poor? What differences among co Economics students on the Mathen blems etc. Course also employs the	with Kaldor nomic untries natical			
	model.						
	irse Outcomes: The stude						
2		lytical understanding of exogenous and endo sights into the economic growth process that		past			
3		variety of simple models in economic growt	h.				
4		d limitations of the models learned.					
5		ng of the evolution of growth models;					
6	technology, human capi			l.,			
7		ing of Solow growth model and its application					
8		nal and unconditional convergence in growth		1 0			
9	initial per capita, in ecor	ing of role of money, wealth, saving, physica nomic growth.	al capital, income distribution, and	role of			
Cot	irse Content:	with Court de Doubles of Francis Court	1 d C 1 C. 1 d				
UN	IT I Problem of Econd	Problem of Economic Growth- Problem of Economic Growth and the General Solution; Growth Equilibrium; Harrod –Domar Model of Economic Growth					
UN	Ms. Joan Robins	son and Concept of Golden Age and Golden conomic Growth- Keynes-Ramsey Rule, Cass	n Rule of Accumulation; Models	10 hrs			
UN	debate,	Iodels of Growth: Growth model of R.M. S	•	10 hrs			
UN	NIT IV Technology and O	Models of Growth & Distribution- Kaldor and Growth- Hicks, Harrod and Solow- Neutrality s-embodied Technical Change,		10 hrs			
UN	UNIT V Growth Accounting. Money and Growth- James Tobin and H.G. Johnson;						
UNIT VI Endogenous Growth Models- AK Models, Lucas Model of Human Capital, Romer Model of Endogenous Innovation.							
Internal Assessment:							
	A 1 Unit I, Unit II						
		ission and/or presentation					
Tex	t Books:						

- 1. Jones C.I., "Introduction to Economic Growth" W.W. Norton & Company, New York
- 2. H.G. Jones, "An Introduction to Modern Theories of Economic Growth" McGraw-Hill Book Company
- 3. Barro, Robert J. and Xavier Sala-i-Martin, Economic Growth, McGraw-Hill,

Reference Books:

- 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

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	2	2	2			3				
CO2	2	2	2			2				
CO3				2	2					
CO 4							3			
CO5	2	2			2					
CO6	2	2	2			2				
CO7	2	2	2	2	2	2				
CO8	2	2	2			2				
CO9	2	2	2			3			1	1
*1: Low, 2: Med	lium, 3: High									

Course Name: Public Economics (ECO503)										
	TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED							
Т	heory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4							
			Total: 4							
Co	urse Pre-requisites:									
1	Student must have completed the knowledge of Macroeconomics, and Microeconomics									

Course Objective:

The main goal of the course is to provide students with the necessary skills to formulate public policies with an understanding of their economic implications. Topics covered include welfare economics, market failures, fiscal tools (budget, taxes, expenditure, public debt, and fiscal federalism), regulations, and political economy.

Course Outcomes: The students will be able to

- Learn the basic tools, concepts and models necessary for competence in key topics in Public Economics.

 Understand the role that prices play in a market economy, both as a method of allocating resources in the private sector, and as a guide for public policy.
- Understand the twin objectives of efficiency and equity, and explain why there is often a trade-off between these two objectives.
- 4 Understand the connection between relative prices and notions of efficiency.
- Discuss the use of taxes, public expenditures, public debt, and federal finances for promoting socially efficient resource allocation and a desirable income distribution. Also, go through rigorous theories related to these fiscal tools.
- Analyze policy challenges facing governments around the world and learn about potential solutions to these challenges as well as obstacles in implementing them.
- Learn a set of perspectives into the economic activities of the government sector that will help them become enlightened participants engaged citizens, voters, politicians, and/or civil servants in society.
- 8 Discuss critically key issues in public economics, informed by recent research.

Market Failure and the rationale for Government Intervention. Alternative Classifications of Public Goods, Optimal Provision of Public Goods, Private Provision of Public Goods, Nash-Cournot Solution, Preference Revelation, Samuelson and Lindahl Equilibrium, Club Goods Model. Externalities: Positive and Negative, Externalities and Social Costs. Pigouvian Tax, Coase Theorem. Fiscal Policies and instruments: Taxation: Efficiency, Equity, Cost of Collection and Savings-Income, commodity and wealth tax. UNIT III												
Market Failure and the rationale for Government Intervention. Alternative Classifications of Public Goods, Optimal Provision of Public Goods, Private Provision of Public Goods, Nash-Unit Cournot Solution, Preference Revelation, Samuelson and Lindahl Equilibrium, Club Goods Model. Externalities: Positive and Negative, Externalities and Social Costs. Pigouvian Tax, Coase Theorem. Fiscal Policies and instruments: Taxation: Efficiency, Equity, Cost of Collection and Compliance; Tradeoff between Efficiency and equity; Effect of Taxes on labor supply and Savings-Income, commodity and wealth tax. UNIT II			gument ora	lly and in w	riting on topi	ics in public	c econom	ics.				
Public Goods, Optimal Provision of Public Goods, Private Provision of Public Goods, Nash-Cournot Solution, Preference Revelation, Samuelson and Lindahl Equilibrium, Club Goods Model. Externalities: Positive and Negative, Externalities and Social Costs. Pigouvian Tax, Coase Theorem.	Course Co											
UNIT II Compliance; Tradeoff between Efficiency and equity; Effect of Taxes on labor supply and Savings-Income, commodity and wealth tax. UNIT III Laffer's Curve, Direct and indirect taxes. Tax Reforms in India. Non-Tax Fiscal Instruments: Profit and Dividends, Rents and Royalties, Non-revenue Effects of Non-Tax Instruments: Profit and Dividends, Rents and Royalties, Non-revenue Effects of Non-Tax Instruments: Public Debt: Public Debt and External Debt, Theories of Public Debt, Ricardian Equivalence, Debt Management Techniques. Budget and Fiscal Policy: Capital and Revenue Accounts, Dynamic Nexus between Two Accounts, Budget Deficits, Theories of Deficits, Indian Budget Deficits: Union and States. UNIT V Public Expenditure: Theories of Public expenditure, Leviathan Hypothesis, Niskanen Model, Efficiency and Equity Trade off, Transfers and Subsidies, Financing of Social Programs. Fiscal Federalism: Principles Determining Federal Division of Revenue and expenditure, Vertical and Horizontal Imbalances, Transfer Mechanism in India, Role of Finance & Planning Commissions, Sharing of Taxes, Non-tax Revenues and Grants. UNIT V Unit I, Unit II Unit I, Unit II Unit I, Unit I Unit I, Unit Reference Books: 2. Jonathan Gruber. Public Finance and Public Policy, Worth Publishers 3. John Leach. A course in Public Economics, Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO	UNIT I	Public Goods, C Cournot Solution Model. Externa	Optimal Pro on, Preferen lities: Posi	ovision of Punce Revelati	iblic Goods, on, Samuels	Private Proon and Lin	ovision of dahl Equ	Public Cilibrium,	Goods, Na Club Go	ash- oods	10 hrs	
UNIT IV Profit and Dividends, Rents and Royalties, Non-revenue Effects of Non-Tax Instruments Public Debt: Public Debt and External Debt, Theories of Public Debt, Ricardian Equivalence, Debt Management Techniques. Budget and Fiscal Policy: Capital and Revenue Accounts, Dynamic Nexus between Two Accounts, Budget Deficits, Theories of Deficits, Indian Budget Deficits: Union and States. UNIT V Public Expenditure: Theories of Public expenditure. Leviathan Hypothesis, Niskanen Model, Efficiency and Equity Trade off, Transfers and Subsidies, Financing of Social Programs. Fiscal Federalism: Principles Determining Federal Division of Revenue and expenditure, Vertical and Horizontal Imbalances, Transfer Mechanism in India, Role of Finance Planning Commissions, Sharing of Taxes, Non-tax Revenues and Grants. Internal Assessment: CIA 1 Unit I, Unit II CIA 2 Assignment submission and/or presentation Text Books: 1. Musgrave R.A. and P.B. Musgrave. Theory and Practice of Public Finance, Tata McGraw Hills Reference Books: 2. Jonathan Gruber. Public Finance and Public Policy, Worth Publishers 3. John Leach. A course in Public Economics, Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO	UNIT II	Compliance; Tr Savings-Income	adeoff betwee, commodi	ween Efficie ty and wealt	ency and equal tax.	ity; Effect	of Taxes	on labor	r supply	and	10 hrs	
UNIT IV Equivalence, Debt Management Techniques. Budget and Fiscal Policy: Capital and Revenue Accounts, Dynamic Nexus between Two Accounts, Budget Deficits, Theories of Deficits, Indian Budget Deficits: Union and States. UNIT V Public Expenditure: Theories of Public expenditure, Leviathan Hypothesis, Niskanen Model, Efficiency and Equity Trade off, Transfers and Subsidies, Financing of Social Programs. Fiscal Federalism: Principles Determining Federal Division of Revenue and expenditure, Vertical and Horizontal Imbalances, Transfer Mechanism in India, Role of Finance & Planning Commissions, Sharing of Taxes, Non-tax Revenues and Grants. Internal Assessment: CIA 1 Unit I, Unit I CIA 2 Assignment submission and/or presentation Text Books: 1. Musgrave R.A. and P.B. Musgrave. Theory and Practice of Public Finance, Tata McGraw Hills Reference Books: 2. Jonathan Gruber. Public Finance and Public Policy, Worth Publishers 3. John Leach. A course in Public Economics, Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO PO PO PO PO PO P	UNIT III									nts:	10 hrs	
Efficiency and Equity Trade off, Transfers and Subsidies, Financing of Social Programs. Fiscal Federalism: Principles Determining Federal Division of Revenue and expenditure, Vertical and Horizontal Imbalances, Transfer Mechanism in India, Role of Finance & Planning Commissions, Sharing of Taxes, Non-tax Revenues and Grants. Internal Assessment:	UNIT IV	Equivalence, Do Accounts, Dyna	ebt Manage amic Nexu	ement Techn s between T	iques. Budge wo Account	et and Fisc	al Policy:	Capital a	and Reve	nue	10 hrs	
UNIT VI Vertical and Horizontal Imbalances, Transfer Mechanism in India, Role of Finance & Planning Commissions, Sharing of Taxes, Non-tax Revenues and Grants. Internal Assessment: CIA 1 Unit I, Unit II CIA 2 Assignment submission and/or presentation Text Books: 1. Musgrave R.A. and P.B. Musgrave. Theory and Practice of Public Finance, Tata McGraw Hills Reference Books: 2. Jonathan Gruber. Public Finance and Public Policy, Worth Publishers 3. John Leach. A course in Public Economics, Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO PO PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 10 PO7 PO8 PO 10 PO5 PO6 PO7 PO8 PO6 PO7 PO	Efficiency and Equity Trade off, Transfers and Subsidies, Financing of Social Programs.											
CIA 1	UNIT VI	Vertical and H	[orizontal]	Imbalances,	Transfer M	lechanism	in India,	Role of				
CIA 2	Internal A	ssessment:										
Text Books:	CIA 1	Unit I, Unit II										
1. Musgrave R.A. and P.B. Musgrave. Theory and Practice of Public Finance, Tata McGraw Hills Reference Books: 2. Jonathan Gruber. Public Finance and Public Policy, Worth Publishers 3. John Leach. A course in Public Economics, Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1	CIA 2	Assignment subm	nission and,	or presenta	tion							
Reference Books: 2.	Text Book	s:										
2. Jonathan Gruber. Public Finance and Public Policy, Worth Publishers 3. John Leach. A course in Public Economics, Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 9 10 CO1 2 2 2 2 2 2 CO2 2 2 2 2 2 CO3 2 2 2 2 2 CO4 2 2 2 2 2 CO5 2 2 2 2 2 CO6 3 3 3 3 CO7 2 2 2 2 2 CO8 3 2 2 2 CO9 0 0 0 0 0 0	1.	Musgrave R.A. and	l P.B. Mus	grave. Theor	y and Practi	ce of Publi	c Finance	, Tata M	cGraw H	ills		
3. John Leach. A course in Public Economics , Cambridge University Press 4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 9 10 CO1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Referenc	e Books:										
4. Jean Hindriks and Gareth D. Myles, Intermediate Public Economics, MIT Press 5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix C01 2 2 2 PO PO <td></td>												
5. Gupta Janak Raj. Public Economics in India: Theory and Practice, Atlantic Publisher 6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 9 10 CO1 2 2 2 2 2 2 2 CO2 2 2 2 2 2 2 2 CO3 2 2 2 2 2 2 2 CO4 2 2 2 2 2 2 2 CO5 2 2 2 2 2 2 2 CO6 3 3 3 3 3 3 CO7 2 2 2 2 2 2 2 CO8 3 3 2 2 2 2 2 CO9 1 1 2 2 2 2 <	3.	John Leach. A cour	rse in Publi	c Economic.	s , Cambridg	e Universit	y Press					
6. Bagchi Amaresh. Readings in Public Finance, Oxford University Press PO-CO Compliance Matrix PO1	4.	Jean Hindriks and	Gareth D. N	Myles, Intern	nediate Publ	ic Econom	ics, MIT l	Press				
PO-CO Compliance Matrix PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 9 10 CO1 2	5.	Gupta Janak Raj. <i>F</i>	Public Econ	omics in Ind	lia: Theory a	nd Practice	e, Atlantic	Publish	er			
PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 9 10 CO1 2 <td>6.</td> <td>Bagchi Amaresh. F</td> <td>Readings in</td> <td>Public Fina</td> <td>nce, Oxford</td> <td>University</td> <td>Press</td> <td></td> <td></td> <td></td> <td></td>	6.	Bagchi Amaresh. F	Readings in	Public Fina	nce, Oxford	University	Press					
PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 9 10 CO1 2				PO-CO	Compliance	Matrix						
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CO9 2 2	CO7	2	2	2			2			2		
	CO8							3		2	2	
*1: Low, 2: Medium, 3: High	CO9									2	2	
	*1: Low, 2	2: Medium, 3: High										

			C	ourse Name	e: Dissertat	ion II (EC	O511)				
T	EACE	IING SCHEME		MINATION				EDITS	ALLOT	ED	
т	haomi	. 14 hra nor wools	End Seme	ester Examin	ation: 60 m	arks		``	14		
1	пеогу	: 14 hrs per week	Interna	al Assessmei	nt: 40 mark	S					
								Tota	1: 14		
Co		Pre-requisites:									
1		lent must have comp	oleted the kn	owledge of	Macroecon	omics, Mic	roeconom	nics, Ecoi	nometric	s and	
		ertation I									
Coı		bjective:									
		purpose of the Disse									
		ytical application to re study and employ		a and interpr	etation to ic	oster resear	cn-related	i skiiis, v	nich sno	ouia be	enerit
Coi		outcomes: The stude		able to							
1		nalyse and interpret									
2		pply the economic r			s of researc	h to proces	s, code , 1	oresent ai	nd interp	ret the	data
3		se statistical softwar									
4		esent research findi				tured and	sequenced	thesis th	at confo	rms to)
4		otocols of academic									
5	D	emonstrate the ability	ity to critiqu	e literature a	and conduct	analyses a	t a Mastei	s level.			
	sessme A 1		omess of De	acamah Wanl	-						20
	A 2	Presentation of Presentation of Da			<u> </u>						20
CI.	A Z	The students are r			lissertation	renort as n	er guideli	nes nresc	ribed by	the .	
		department at the									
EGI		voce examination						1			60
ESI	Ł	Out of total 60 ma	rks in this N	laster's thes	is, 30 marks	s are of ma	ster thesis				60
		the Department (b								ers)	
		and rest 30 marks	are of viva				xternal ex	aminers.			
				PO-CO C	Compliance	Matrix	T	ı	1	I DC	
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO						2	2	2	2	2	2
CO				2	2	2	2	2	2	2	2
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CO	-	2 M 1' 2 W 1		2		2	2			2	
*1:	Low,	2: Medium, 3: High	1								

AECC/SECC Courses

		Co	ourse Name: Mathematical Methods in E	Conomics (ECO 403)					
TI	EACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED					
7	Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4					
				Total: 4					
		-requisites:							
1	Studen	it must have comp	leted Bachelor's Degree						
2	_		uantitative Analysis						
3			e of elementary mathematics						
Cot	Course Objective:								
Cou	The course covers a wide range of mathematical methods in applied economics. Specifically, it aims to provide the basics of mathematical methods and the range of mathematical techniques that are used to explain various applied economics problems. Also the course attempt to provide the insight of some advance level mathematical tools in understanding and formulating various economic theories.								
Cot				ernlain various aconomic theories					
1	Familiar with a wide range of mathematical tools that are used to explain various economic theories.								
2	Succes	sfully demonstrat	e the economic meaning of mathematical m	odels.					
3	-	size the resources make decision.	and thus understand how the economic pol	icy					
4	Demor	istrate most of the	theories in economics precisely and strate	gically.					
5	Under	stand the econom	ic dynamics.						
Cot	ırse Cor								
UN	NIT I		anction; Limits, continuity and differential acave functions, Differentiation- Partial and		10 hrs				
UN	IT II	optimization in s Economic variab		nple and Definite, Applications to	10 hrs				
UN	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.								
UN	NIT IV Difference equations - Solution of first order and second order difference equations; 10 hrs								
UN	NT V	structure and valinear programm	ning — Basic concept; Formulation of a lir riables; Nature of feasible, basic and opti ing problems through graphical and simple lity theorems; Formulation of the Dual and	mal solution; Solution of simple x method; Concept of duality and	10 hrs				

	Game Theory:									
UNIT VI	Dilemma, mixe	d strategy l	Nash Equil	ibrium; Sad	dle point so	olution; S	imple ap	plication	s to	10 hrs
	economics.									
Internal As										
	Unit I, Unit II									
	Assignment subm	ission and/o	or presentat	ion						
Text Book										
1. C	hiang, Alpha, C. a	and Kevin V	Vainwright.	Fundamenta	al methods	of Mather	natical			
Reference	Books:									
1. E	conomics, latest e	dition, McC	raw Hill.							
2. K	nut Sydsaeter and	Peter J Har	nmond. Ma	thematics fo	or Economic	Analysis	s, Pearson	n Educati	on Indi	a.
3. C	arl P Simon and L	awrence Bl	ume. Mathe	ematics for I	Economists,	W. W. N	orton &	Company	7.	
4. N	like Rosser. Basic	Mathemati	cs for Econ	omists, Rou	tledge					
5. E	ric Rasmusen. Ga	mes and Inf	ormations,	Basil Blacky	well.					
6. N	Iartin, J Osborne.	An Introduc	ction to Gan	ne Theory, C	Oxford Univ	ersity Pre	ess			
			PO-CO	Compliance	e Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	2	2	2		3					
CO2				3	3			3		
CO3				3	3			2	3	3
CO 4	2	2	2		3	2			2	2
CO 5	2	2			3	2			2	2
*1: Low, 2	2: Medium, 3: Hig	h								

T	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
Co	urse Pre-requisites:		
1	Student must have comp	pleted Bachelor's Degree	
2	Aptitude and skills in Q	uantitative Analysis	
3	Must possess knowledge	e of elementary statistics	
Cou	arse Objective:		
	analysis and drawing ir	simple tools and techniques, which will help a ferences about various statistical hypotheses. heory and learn simple solutions with one or to	The students are expected to formulate
Cou	arse Outcomes: The stude	ents will be able to	
1	Compare and contrast v	arious types of data.	
2	Select and estimate mea	sures of central tendency and dispersion based	l on specific economic problems.
3	Apply various sampling	methods based on the context and need of the	study.
4	Apply the rules of proba	ability theory and able to identify which approach	ach is used in a given scenario.
5	Understand the concept	of Bayes theorem with its economic application	ons.
6	Use correlation analysis	on different types of data sets to find the degr	ree of association

7 Estimate cause and effect relationship through regression analysis 8 Able to select a good estimator in the process of estimation.												
8 Able to select a good estimator in the process of estimation. 9 Perform hypothesis testing using z test t-test, chi-square and f-tests and interpret the results.												
9 Perform hypothesis testing using z test t-test, chi-square and f-tests and interpret the results.												
Course Content:												
Typical data sets arising in economics, Qualitative, Quantitative, Income, Expenditure, Time												
Series and Panel data. Major sources of data sets: Census, Government agencies, e-resources,												
UNIT I Graphical representations, Measures of Central tendency, Measures of dispersion. Sampling 10 l	nrs											
methods: Census, simple random sample with and without replacement, stratified sampling												
methods. Probability theory I: Laws of addition and multiplication; Independence of events, 10.1												
UNIT II Conditional probability and concept of independence; Bayes theorem with applications;	ars											
Probability theory II: Random variable; Discrete and Continuous random variables;												
UNIT III Probability density functions; Binomial, Poisson and Normal distributions, their mean and 10 h	rs											
variance, graphs of normal density functions.												
UNIT IV Correlation: Pearson's product moment and Spearman's rank correlation-their properties; 10 h												
Partial and multiple correlations, linear and nonlinear regression.	.18											
UNIT V Estimation: Concept of an estimator and its sampling distribution: Desirable properties of a 10												
good estimator; Point and Interval estimation.												
Testing of statistical hypotheses – Formulation of the problem; Null and alternative												
UNIT VI hypothesis; Type 1 and Type 2 errors, Goodness of fit; Confidence intervals and level of	nrs											
significance; Hypothesis testing for means, variance, regression coefficients based on standard normal, t, Chi-square and F tests.												
Internal Assessment:												
CIA 1 Unit I, Unit II												
CIA 2 Assignment submission and/or presentation												
Text Books:												
1. Lee, C. F., Lee, J. C. and Lee, A. C. Statistics for Business and Financial Economics. (2000), World												
Scientific, Singapore.												
2. Newbold, P., Carlson, W. L. & Thorne B. M. Statistics for Business and Economics, Pearson												
Reference Books:												
1. Black, Ken. Business Statistics. (2004), John Wiley & Sons.												
2. Taylor, S. Business Statistics. (2001), Palgrave.												
3. Bluman, A. G. Elementary Statistics. (2009), McGraw-Hill												
PO-CO Compliance Matrix												
PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO 1	_											
CO1 2 2 2												
CO2 3 2 3												
CO3 2 2 2												
CO 4 3 2 3 2 2												
CO 5 2 2 2 3 2 3												
CO 6 3 2 2												
CO 7 3 2 3												
CO 8 3 2 3												
CO 9 3 2 3 2 2												

		Course Name: Econometrics ((ECO 413)	
TEACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED	
Theory	4 hrs per week	End Semester Examination: 60 marks	Theory: 4	
Theory.	+ IIIs per week	Internal Assessment: 40 marks	•	
Carrage Due			Total: 4	
	e-requisites:	bleted the knowledge of Statistical and ma	thematical applications	
Course Obj		beted the knowledge of Statistical and ma	mematical applications	
The statisti able to CLRM of the interpression where	course is quantics. An important of understand its apply model, aspects of course, students aret the results and they apply the tectors.	objective of the course is to introduce regoplications in different fields in economical of discrete choice models, and simultaneous will be able to specify assumptions, for test their statistical significance. Student chniques learnt during the course and presents will be able to	gression analysis to students so that is. Attention is also given to the viola is equations models. Specifically, by formulate and estimate appropriate its are required to conduct research in	they are ations of the end models,
1 Estimo	ate the regression	model, derive the parameter estimators ar	nd learn to interpret.	
2 Learn and he	the consequences eteroskedasticity a	of the violations of CLRM assumptions, had also able to learn to learn the remedial earn to quantify the qualitative variables a	now to detect the problems of autocomeasures.	
		s both as explanatory as well as dependent		earn to
		ultaneous equation models and the simulta		
		econometrics in their MA dissertations		
Course Cor				
UNIT I	and forecasting,	Regression Model- two and three variable BLUE properties of OLS estimators (deriv	vation and proof);	10 hrs
UNIT II	linear restriction	urbance term; Introduction to multiple line s; Simple regression coefficients versus pa	artial regression coefficients.	10 hrs
UNIT III	Detection and Ro	y, Auto-correlation, and Heteroskedasticity emedial measures.	-	10 hrs
UNIT IV	Probit Model. D	es; Models for Binary Choice-Linear Proba istributed lag models	-	10 hrs
UNIT V	Equation Bias;	quation Models (Structural form and I	*	10 hrs
UNIT VI	Methods of Simi	Under-identified, Exactly identified and ultaneous Equation Model Estimation.	Over-identified model); Various	10 hrs
Internal As				T
	Unit I, Unit II	:i		
CIA 2 Z		ission and/or presentation		
		ti, Basic Econometrics; 4th Edition, McG	raw Hill 2008	
		Introductory Econometrics: A Modern	·	
Reference		, Jacob J Zeolomonico II (Iddelli		
		ry of Econometrics, Palgrave		
2. G.	. S. Madalla, Intr	oduction to Econometrics, McMillan Pul		
		and Stephen G. Hall, Applied Econometr	ics, Palgrave	
		erty: Introduction to Econometrics		
5. Cr	rish Brooks, Introd	ductory Econometrics for Finance		
		PO-CO Compliance Matrix	K	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	CO1				3	2			2	
CO2	CO2	2	2		2	2			2	
CO3	CO3	2	2		3	2			3	
CO 4	CO 4	2	2		2	2			2	
CO 5	CO 5				2	2			2	3
*1: Low, 2: Med	lium, 3: High	•			•	•				

	Co	ourse Name: Computer Applications in	Economics (ECO 504)					
TEACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED					
Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4					
			Total: 4					
	e-requisites:							
		e of elementary econometrics, and statistic	S					
Course Ob	,							
and st real li	atistical software fe economic issues	introduce the econometric and statistical to students. It will help the student to apps and model building.						
Course Outcomes: The students will be able to								
	1 Learn to estimate and interpret the problems of econometrics and statistics through computer applications							
2 Use st	atistical software	i.e. STATA, E-Views, and SPSS						
3 Apply	econometric and	statistical applications in economic research	ch and practice					
1 /1	4 Identify and analyze the cross-sectional, time series and panel data with suitable econometric and comput application							
Course Co	ntent:							
UNIT I	of computer – B – MS Office, Ex	Computers: Introduction to computer and asic operating instructions. Overview of accel, STATA, SPSS, E-views. Loading the acces in the use of different software package.	databases. Introduction to software data to Excel, STATA, SPSS, E-	10 hrs				
UNIT II	Exploratory Dat data with interp Printing graphs page. Descriptiv mode – Variance	a and Simple Statistical Analysis: Tabula retation. Displaying graphs on the screen – Labelling graphs – Overlay (two scale e Statistics: Central Tendency, Dispersice and Standard Deviation – Skweness and Correlation (zero order, rank and partial co	ar and Graphical Representation of a – Saving and operating graphs – es) graphs – Multiple graphs on a on and Shape. Mean, median and Kurtosis – Five number summary	10 hrs				
UNIT III	Simple Paramet	tric and Non-parametric tests, t-test pr ncipal Components, Factor and Cluster A	ocedures, F-test, Mann Whitney	10 hrs				
UNIT IV	Linear Regression-Interpretation using applications :Two Variable Regression Model,							
UNIT V	measures, Specif Model- Probit, L		del- 2SLS, Qualitative Response	10 hrs				
UNIT VI		sectional data, time series data, longitudina metric techniques especially with reference		10 hrs				

	with	suitable appl	ications.								
Internal	Assessn	nent:								•	
CIA 1	Unit I	, Unit II									
CIA 2	Assig	nment submis	sion and/o	r presentatio	n						
Text Bo	oks:			•						•	
1.	HGL -	R. Carter Hill,	William E	E. Griffiths a	nd Guay C.	Lim (2007) Principl	les of Eco	onometri	es, 3 rd	
	Edition	, November; (ISBN 978-	-0-471-7236	0-8) John W	iley & Sor	ns Inc.				
2.		arren George								ıdy Gui	ide
		ference, 17.0 U									
3.		William E. Gr								oles of	
		netrics, 3 rd Edi									
4.		yn Davis and				tistics Usin	g Excel,	Paperbac	k Ed., Ja	nuary,	
		978-0-19-955	689-2) Ox	ford Univer	sity Press.						
	nce Book								ed.		
1.		ee C. Adkins a					ciples of	Econome	etrics, 3 rd	Editio	n,
		per; (ISBN: 97									
2.		imothy C. Ha									,
		ces: The Econ				,		Environm	iental Eco	onomic	s),
2		ack Ed., March							(ICDN	1 507	1.0
3.		Colin Camero			eai (2009) M	icroeconoi	netrics U	sing Stat	a, (1 5 BN	: 1-597	18-
4		A Stata Press			1	(2011) E.	•	4.137.1			
4.		namul Haque, 1107007143)				(2011) En	vironmen	itai vaiua	ition in S	outn A	sia,
5.		Lawrence C. H		•		ATA (ISB	N: 0 405	10072 V	Thoma	on	
٥.	Brooks		iaiiiitoii (2	2000) Statist	ics with 517	ATA, (ISD	11. 0-433-	-10912-1	i), Thoms	SOII	
	DIOOKS	Colc.		PO-CO (Compliance	Matrix					
										РО	PO
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	9	10
CO1		3	3								10
CO2							2	3	3		
CO3					3	2	2	3	3		
CO 4		1	2			1	3	3	3	2	
	, 2: Med	lium, 3: High	1	1	1	1		<u>, -</u>	<u>, -</u>	1	1
		, 6									

	Course Name: Discipline Specific Internship or Project Based Learning During Summer Vacation (ECO505)									
	TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED							
Т	heory: 2 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 2							
			Total: 2							
Co	urse Pre-requisites:									
1	Student must have com	pleted two semesters of the program and the	knowledge of Dissertation I							
Cou	irse Objective:									
	1 5 1	actical exposure to the students of the programm	**							
	of various concepts lear	ned under different functional areas of Manage	ement							
Cou	irse Outcomes: The stud	ents will be able to								
1	Understand and analy	ze the practical aspects of different functional	area of Economics							
2	Develop skills of prol	blem solving of economic issues in real life								
3	Develop the analytica									

4 A	pply the theory in	practice									
Course C	Content										
The students are required to undertake summer internship In any organization/ company for 4 weeks during their summer break after semester II and before commencement of semester III of the programme. They have to work in any of the functional area of economics to explore the practical aspects of that functional area. Assessment:											
7,55555111	Presentation of Summer Internship Report										
	Viva-Voce	Viva-Voce									
	•		PO-CC	Compliance	Matrix						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10	
CO1	3	3				3					
CO2						3	2	2			
CO3						3	3	2	2	2	
CO 4	CO 4 3 3 2 2										
*1: Low,	2: Medium, 3: Hig	h									

Open Elective Courses

	Course Name: Economics of Money Banking and Financial Development in India (ECO 445)									
TI	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							
Co	urse Pre-requisites:									
1	Must possess knowledge	e of elementary macroeconomics								
Cot	ırse Objective:									
	Money, banking, and financial markets have emerged as instruments of payments for the services of factors of production, such as labour and capital and they also accommodate innumerable exchanges in the economy. Therefore, this course aims at providing students with a thorough understanding of the importance of money, banking, and financial markets in the economy.									
Cot	irse Outcomes: The stude									
1			tion of financial intermediaries and markets							
2	Explain how central ban	ks conduct monetary policy and be able to	interpret the goals of monetary policy							
3	Identify the markets for	stocks, bonds, derivatives, and currencies								
4	Describe the structure of	f financial markets, the factors that shape the	nem, and how they are regulated							
5	Identify the general prin	ciples of banking management								
6	Acquire and demonstrate analytical and problem solving skills within money, banking, and financial market disciplines;									
Cou	irse Content:									

UNIT I	Money: Why St Evidence mode Monetarists Evid other asset price	l, Reduced ence. Tran	d form evi smission Me	idence mod echanism of	lel, Early money: Tra	Keynesi	an Évid	ence, Ea	arly	10 hrs
UNIT II	Monetary policy Policy: Tools, Go	y: Money	and Inflatio	n, Money a	nd Interest	Rates. C	Conduct	of Monet	tary	10 hrs
UNIT III	An Overview of markets: Debt ar counter markets,	nd Equity n	narkets, prin	nary and sec						10 hrs
UNIT IV	An Overview of Analysis of Bank with special refer	king Mana	gement. Ar	nalysis of m	arket for re					10 hrs
UNIT V	Understanding interest Rates: Measuring interest Rates: types of Credit Market Instruments, Present Value, Yield to maturity, The Distinction between Interest Rates and Returns, Distinction between Real and Nominal Interest Rates. Behavior of interest rate; determination of market rate of interest rate-theory of Asset demand, Loanable Funds Framework, Changes in equilibrium interest rate, The Fisher effect, Business Cycle effect. Supply and Demand in the Market for Money: The Liquidity Preference Framework.									
UNIT VI Financial Development and Economic growth: What is Financial Development, Measuring Financial development, Financial Development and Economic Growth: Theoretical and Empirical Literature, major issues in the field of finance-growth nexus. Financial development and economic growth in India - empirical evidence.										10 hrs
Internal As										
	Unit I, Unit II									
	Assignment submi	ssion and/c	r presentation	on						
Text Books		1.0. 1	C F 1:	(CC' ' 1	N 1 4	1.7	· D	F.1		G' 4
	ishkin, Frederic S lition, 2011.	and Stanle	y G Eakins,	, "Financial	Markets an	d Institut	ions, Pea	arson Edi	ıcatıoı	i, Sixth
	J. Johnson, Financi	al Institutio	ons & Marke	ts: A Global	Perspective	; McGrav	v Hill, 19	93 (Int. e	dition.)
Se	ishkin Frederic S, eventh Edition, 200		omics of Mo	ney, Banking	g and Finan	cial Marl	xets", Pea	arson Edu	cation	(AW),
Reference		1.1.0	1 (0.1			T		" D		.•
	nul Jastin and Padr rst Edition, 2007.	nalatha Sur	esh, Manag	gement of Ba	anking and	Financial	Service	s", Pearso	on Edi	acation,
5. Ja	dhav Narendra, Ch	allenges to	Indian Ban	king: Compe	etition, Glo	balisatior	& Finan	cial Marl	cets, (Union
	ank of India, 1996,	_	India Ltd.,	1996.	•				. `	
		1	PO-CO	Compliance	Matrix		1		_	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	2	2	2			2			1	
CO2	2	2	2			2				
CO3	2	2				2				
CO 4	2	2				2				
CO 5	2	2				2				
CO 6	2	2				3			3	3
*1: Low, 2	: Medium, 3: High									

TEA	CHIN	G SCHEME	Course Name: Fine		cs (ECO 551) CREDITS ALLOTED			
		hrs per week	End Semester Examinat Internal Assessment:	ion: 60 marks	Theory: 4			
					Total: 4			
		requisites:	C 1					
	Must pose Be Obje		of elementary macroecon	iomics				
T le m	This co evel. It narket	urse deals with to focuses on the involatility and its	mportant theories of finance relationship with real ecore	ce and their prac	economics and aims to be taught in tical application. It also covers the			
			nts will be able to	4 1 . 1	1 1 1 1 1			
			ools of finance and unders					
			ty and its impact on the ed	**	711			
			e decisions of firms	oliolity.				
			e decisions of firms					
	Course Content: UNIT I Introduction to Financial Institutions and Markets: Aims and objectives of Finance functions: Investment Decision, Financing decisions, Dividend Decisions and Capital Budgeting Decisions. Profit maximisation vs Shareholder's wealth Maximization, The Agency Theory.							
UNIT	UNIT II Financial markets and institutions: Money Market and Capital Market; Primary market/ new issue Market; Consumption and investment with and without capital market.							
UNIT III Risk and Uncertainty: Types of Risks: Systematic and Unsystematic Risks. R Trade-off. Financial Decision Making Under uncertainty; the expected Utility Measurement of Risks and Return of securities; Market beta. Diversification of Risks			y; the expected Utility Theorem.	10 hrs				
UNIT	ΓIV	theory.EMH vs The Markowitz	Fundamental and Technic heory of portfolio selection	al Analysis. Ass on. Asset pricing	et hypothesis (EMH); random walk set allocation and portfolio choice. g: Capital market line and Security et Arbitrage Pricing Theory (APT).	10 hrs		
UNIT	V		ets and Real Economic Activities: Stock Market behaviour: Market Volatility. een stock market and real economy: stock market behaviour under different es.					
UNIT	'VI	Capital Structure		ller Irrelevance l	c: Choice between equity vs debt. hypothesis; Signalling Hypothesis;	10 hrs		
		essment:				ī		
CIA 1		nit I, Unit II						
CIA 2	2 A Books:	ssignment submi	ssion and/or presentation					
1.		phen F. Lerov an	d Jan Werner. Principle of	Financial Econo	omics, Cambridge University Press,	2001.		
2.	. Ste		*		ordan, Fundamentals of Corporate			
Refer	rence E							
	1.	Elton, E.J and Wiley & Sons 1		tfolio Theory &	Investment Analysis, (fourth edition	on) John		
	2.	•		, Principles of C	orporate Finance, McGraw-Hill.			
	3.	Thomas E Cop	eland, J. Fred Weston an	d Kuldeep Shas	stri, Fiancial Theory and Corporate	Policy,		

	Prentice Hall,	4 th edition,	2003.									
PO-CO Compliance Matrix												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO		
	101	102	103	104	103	100	107	100	9	10		
CO1									3	3		
CO2	2	2	2			2						
CO3	2	2	2			2						
CO4	2	2				2						
*1: Low. 2:	Medium, 3: His	*1: Low, 2: Medium, 3: High										

Discipline Specific Elective Courses

			Course Name: Agricultural Econor	nics (ECO 421)					
TI	EACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED					
Т	Γheory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4					
				Total: 4					
Co		e-requisites:							
1	_		e of elementary economics						
Cou	ırse Obj								
	The aim of this course to provide students with an in-depth understanding of the issues relating to Indian agriculture and farmers' welfare. The focus is on analyzing structural patterns in Indian agriculture, and how policies have influenced farmers' choices and incomes. The approach is modular, and will depend on the policy discourse.								
Cou			ents will be able to						
1			naking related to the agricultural sector,	12					
2			und to undertake independent research in t						
3	Develo	op the understandi	ng about agricultural issues of national and	d international					
Cot	ırse Cor	ntent:							
UN	I TIV	Characteristics	onomics - Definition of Agriculture of Indian Agriculture, Differences & Lipment in Agriculture Colonial & After Ind	inkages between Agriculture and	10 hrs				
UN	IT II		on, Availability of Inputs, Agricultural Inf s, Land Reforms, Risk and Instability in A		10 hrs				
UN	III TIV		s in Agriculture - Production, Cost, Supply tion and Input Demand, Concept of Elastic		10 hrs				
UN	IT IV		e Policy in India, Agriculture Marketin ny, Production Pattern regional variation re		10 hrs				
UN	UNIT V Green Revolution - Production, Productivity, HYV, Irrigation Fertilizer Mechanisation, MSP Debate on Economic System for Agricultural Marketing, Agricultural Credit, Government Financial Support								
UN	IT VI		n Agriculture - India's Competitiveness n Indian Agriculture& WTO Rules	in International Market, Storage	10 hrs				

Internal A	Internal Assessment:											
CIA 1	Unit I, Unit II											
CIA 2	Assignment subr	nission and/	or presentat	ion								
Text Boo	Text Books:											
1.	1. Soni R. N. & M. Sangeeta: Leading Issues in Agricultural Economics , Vishal Publishing Co. Jalandhar											
2.	Sadhu and Singh: 1	Fundamenta	ls of Agricu	ıltural Econo	mics, Hima	laya Publ	ishing H	ouse Mui	mbai			
3.	3. Drummond H. Evan & Goodwin John W.: Agricultural Economics, Printice Hall											
Reference	e Books:											
1. '	Tsakok Isabelle: S	uccess in A	gricultural	Transforma	ation, Camb	oridge Un	iversity F	Press				
2.	Barkley Andrew, e	t al: Princi j	les of Agri	cultural Ec	onomics, R	outledge I	London					
	-											
3.	Puri VK & Mishra	: Indian Ec	onomy, Hir	nalaya Publi	shing Hous	е						
GOI: Eco	nomic Survey 20	19-20										
			PO-CC) Compliance	e Matrix							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO		
	POI	POZ	PO3	PO4	103	PO0	PO7	POS	9	10		
CO1	3	3										
CO2	3	3										
CO3	3	3										
*1: Low,	2: Medium, 3: Hig	gh										

	Course Name: Environmental Economics and Policy (ECO 422)									
TI	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							
Co	urse Pre-requisites:									
1	Must possess knowledge	e of elementary microeconomics								
Cot	ırse Objective:									
	The course aims to acquaint the students with tools of microeconomics in dealing with environmental problems. This course targets to apprise the environment-economy interactions and familiarize the various economic regulatory tools in handling environmental problems.									
Cot	urse Outcomes: The stude									
1	Understand the main int place limits on the interaction	eractions between the environment and the action	e economy and the physical constrain	ints that						
2	Be familiar with the hist discipline	fory of the discipline of environmental eco	nomics and what is included in the							
3	Appreciate how markets	s allocate goods and why they sometimes f	ail allocate environmental goods op	timally.						
4	Plan regulatory framewo	ork for correcting market failures.								
5		es to analyze environmental problems and								
6	Have the knowledge of critique of these matters	the components of environmental policy, c	riteria for its design and assessmen	t, and						
7	Apply the various quant	itative regulations on the basis of criteria of	f cost effectiveness.							
Cot	irse Content:									
UN		mental economics?								
T 177 Y		reen environmental Economics and natural		101						
UN	IT II Introduction to I	Environmental Economics: Historical persp	pectives (classical, neo-classical	10 hrs						

and modern) Interface between Economy, Environment and Development; Environment										
versus development Controversy.										
UNIT III First and second law of thermodynamics. Efficiency and choice, Problems of Market Failure: Public bads and externalities. Social choice of optimum pollution	10 hrs									
UNIT IV Theory of environment Regulation: Pigovian solutions; Subsidies for Abatement of pollution, Property Rights and the Coasian Approach: bargain Solution.	10 hrs									
Quantitative regulation: Command and Control. Standard setting: Tradable pollution	10 hrs									
Risk and uncertainty.	10 hrs									
Internal Assessment:										
CIA 1 Unit I, Unit II										
CIA 2 Assignment submission and/or presentation										
Text Books:										
1. Kolstad, C, D. (2003) Environmental Economics, Oxford university Press										
Reference Books:										
1. Thomas and Callan, Environmental Economics, Cengage Learning, 2009.										
2. Tietenberg, T. (1996), Environmental and Natural Resource Economics, Harper Collins, College Publishers, New York, Fourth Edition										
3. 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 PO7 PO8 PO9										
CO1 2 2 2 3 3										
CO2 2 2 2 3 3 3 3										
CO3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2										
CO4 3										
CO5 3										
CO6 2 2 2 3 3 3 3										
CO7 3 3 3 2										
*1: Low, 2: Medium, 3: High										

Course Name: Political Economy (ECO 423)									
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						
Co	ourse Pre-requisites:								
1	Must possess knowledge of elementary economics								
Co	urse Objective:								
	theoretical issues as we and war. Discusses not	the relationship between political institutions are tell as recent empirical evidences. Topics inclusions what we know on these topics, but how we experiment and how to discriminate between recent telephone.	ide corruption, democracy, dictatorship, we know it, covering how to craft a good						
Co	urse Outcomes: The stud	ents will be able to							
1	Build a foundation for t	hinking about the role of political economy in	understanding economic development.						
2		heoretical concepts in political economy, with	illustrations from developing countries						
	whenever possible.								

Und	erstand empirical e	vidence in e	conomics V	What makes	a good emr	irical stu	dy? How	do we le	arn ah	out the
1 3	d empirically? What						-		arii ao	out the
	• • •			-						
Course C										
********	Introduction: W									401
UNIT I	overview; Diffe				ıy – classıc	al politic	al econo	my, mar	X1St	10 hrs
	political econon				1	0.0	E	1 E	1	
	Does Political Techniques. Th									
UNIT II	*									10 hrs
	Development: 1									10 1113
	social/human de		onice, mequ	unity unit		o, po				
	Voting I: The		oter Theore	m; Voting	in Practic	e: Citize	n-Candid	ate Mod	els,	
UNIT III										10 hrs
	Models; Voting in Practice: Vote buying and voter intimidation;									
UNIT IV	Voting II : Som	etimes It G	ets Complic	ated: Condo	orcet's Para	dox and A	Arrow's I	mpossibi	lity	10 hrs
UNITIN	Theorem. Good									10 1118
	Collective Action									
UNIT V	to Public Good		_	lective Acti	on Problem	is; Recov	ery from	ı Civil W	√ar;	10 hrs
	Why Do Wars I			T1	. O.C 11.	D '. '	D 1.1	D .1	•	
LINIT VI	Corruption: Is C Risks, Rents, a									10 hrs
UNIT VI	Firms	na mcenuv	es; The Inc	lustriai Org	amzauon c	or Corrup	otion; Po	nucians	and	10 ms
Internal A	Assessment:									
CIA 1	Unit I, Unit II									
CIA 2	Assignment subm	ission and/o	r presentati	on						
Text Boo									ı	
1.	Bardhan, P. (1998),	Political E	conomy of L	Developmeni	in India, O	xford: O	xford Uni	iversity P	ress.	
2.	Charles Sackrey, C	Geoffrey Sc	hneider and	l Janet Kno	edler (201	3), Introd	duction t	o Politic	al Ec	onomy,
	7 th /8 th edition, Dolla	•				,				•
Reference	e Books:									
	Bardhan (1999), Po	litical Econo	omy of Refo	orms in India	a, New Dell	ni: NCAE	R.			
	Fine, Ben and Milo		-					1ethod, th	he Soc	ial and
	the Historical in the		, , , ,					, .		
	Frankel, F. (2005),					1947-20	004 Oxfo	ord Unive	ersity l	Press
	Jevon, W. Stanley.				i i i voi utioi	1, 17 17 20	50 1, OAI	ora Omve	Jisity I	1033.
	Ricardo, David. (18				v and Taxas	tion the S	roffo odi	tion		
	<u> </u>							11011.		
	Roland, G. (2000) <i>I</i>									
	Roncaglia, Alessan			-			Press, Ca	ambriage		
	Simon, David (2005									
	Smith, Adam. (1776		•							
	Sweezy, Paul (197			italist devel	opment: Pr	inciples o	of Marxio	an Politic	cal ec	эпоту.
	Modern Reader Pap	erbacks, Ne								
		1	PO-CO	Compliance	Matrix	1	1			T = -
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO
CO1						+	+	+	9	10
CO1 CO2	3	3			1	2	1	1	2	-
CO2	3	3	1	2	2	3	2	1	2	2
	2: Medium, 3: High	<u> </u>	1	4]]		1		
1. LUW,	2. Ivicuiuiii, 3. Iligi	1								

		Coi	ırse Name:	Labor Econ	omics (E	CO 424)				
TEACHI	NG SCHEME	EXAN	MINATION	SCHEME		CR	EDITS	ALLOT	ED	
Theory:	4 hrs per week			nation: 60 ma nt: 40 marks	ırks		Theo	ory: 4		
							Tota	al: 4		
	e-requisites:									
	possess knowledge	of element	ary microeco	onomics						
Course Ob										
theory labor	im of this course y and experience. The markets and to asso	Γhe materia ess related p	l covered would be a covered with the co	ill help the s						
	tcomes: The stude									
	rstand the Basic ec									
2 Identi	fy Sources of labor	ur market in	nperfections	, driving force	es for edu	cation an	d skill up	gradatio	n,	
discri	mination among th	e workers a	nd public po	olices for labo	our welfar	e				
Course Co										
UNIT I Labour Supply: Choice between Consumption and Leisure; Incorporating Household Production and Decisions.								10 hrs		
UNIT II	Labour Demand Compensating W						petitive 1	Equilibri	um,	10 hrs
UNIT III	Discrimination T						Affirmati	ve Action	1	10 hrs
UNIT IV	Investment in E Returns to Educa		Theory of H	Human Capit	tal, Educa	ation as a	a Signall	ling Dev	ice,	10 hrs
UNIT V	Job Search, incer	ntives and e	fficiency of	wages, Migra	ation					10 hrs
UNIT VI	Labour Market I Wage and Emplo							s, Minim	ium	10 hrs
Internal As		•	•						•	
	Unit I, Unit II									
	Assignment submi	ssion and/o	r presentatio	n						
Text Book										
	ahuc, P.; Carcillo,									
	hrenberg, R. G. and								y, Ro	ıtledge
	orjas, G. J. (2010):	Labor Ecoi	nomics, Mc(3raw-Hill/Irv	vin, Bosto	n MA (5t	h edition	.)		
Reference		-f-1 0 "	2011). II 1	la a la c C T o l	V	.: 17.1	4 A P D	Diag.		
4. 0	Card, D., and Ashel	oieirer, O. (2		Compliance N		nics, Vol	4A & B,	Elsevier		
					viau ix				PO	PO
go:	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	9	10
CO1	3	3						1	2	_
CO2	3	3				3		1	3	
*1: Low, 2	2: Medium, 3: High	1								

		Course Name: History of Modern Economic	Analysis (FCO 425)		
TEACHI	ING SCHEME	EXAMINATION SCHEME		DITS ALLOTED	
	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks		Theory: 4	
		THEFILE PESSOSHER. TO HERE		Total: 4	
Course Pr	e-requisites:				
1	Must possess	knowledge of elementary economics			
Course Ob	jective:				
This c	course is an introd	uction to the history of economic theory. While the n	najor phases in the develo	pment of economic	cs will be
		to treat them against the background of their historic			
		problems. The course will include, but not be con-	fined to, the work of Sm	nith, Ricardo, Mar	shall and
Keyne					
Course Ou		ents will be able to			
1		nd the development of the theory of economics in hist			
2		nd emerging paradigms and aberrations with its reason	ns		
3 To de	bate similarities a	nd differences among different economy schools.			
Course Co	ntent:				
Course Co	MARGINALIS	Т ТНОПСИТ		10 hrs	
UNIT I		volutionsW.JevonsWalras, De-homogenizing ma	arginalism. Marshallian	10 1113	
01/11/1	synthesis	volutions (ville) value, 20 nomogenium,	g, 17141911411		
I IN HITE II		CAL THOUGHT		10 hrs	
UNIT II	Welfare econom	nics of A.C. Pigou. Schumpeter; role of Entrepreneur	and innovations.		
		OLITICAL ECONOMY I		10 hrs	
UNIT III		d his economic theory, Ricardo's contribution to class			
UNII III		s glut controversy, Classical Stationary State with sp	pecial reference to Mill's		
		al Overview of Classical Economic Thought,			
		OLITICAL ECONOMY II		10 hrs	
UNIT IV		ganic Composition of Capital. Break Down of Capital			
		us Value, Profit and Crisis of Capitalism. Essential D	ifferences between		
	KEYNESIAN's	omics and Marxian Economics.		10 hrs	
		economy, Liquidity Preference Theory and Liquidity	tran Marginal	10 1118	
UNIT V	Efficiency of C	Capital and Marginal Efficiency of Investment, wage r	rioidities		
CIVII V		ent equilibrium, role of fiscal policy, deficit spending			
		iple, cyclical behaviour of the economy, uncertainty a			
		IOMIC THOUGHT	•	10 hrs	
	Main themes	of Kautilya's Arthasashtra; Economic Ideas; Dada	Bhai Naoroji, Ranade,		
UNIT VI		Gandhi, Bhimrao Ambedkar, DeendayalUpadhya			
		conomic thought, Comparison of Indian economic	c thought with western		
	economic thoug	cht.			
Internal As				1	
CIA 1	Unit I, Unit II	ission and/or presentation			
CIA 2	Text Boo	nission and/or presentation			
1.		ise, R. (1985), A History of Modern Economic Analy	reis Rasil Blackwell Ovfo	ord	
2.		B.N. (1977), Indian Economic Thought: A 19th Cent			lhi
2.		ce Books:	ary reropoetive, rata iviev	Claw IIII, 110 W DC	· · · · · · · · · · · · · · · · · · ·
3.		and A.E. Thomson (1980), The Development of Eco	nomic Doctrine. (2nd Edit	ion), Longman Gro	oup.
·	London.			,,\g	г ,
4.		(1992), The Arthashastra, Edited, Rearranged, Transl	lated and Introduced by L.	N. Rangaranjan, I	Penguin
		Yew Delhi.	•		-

Schumpeter, J.A. (1954), History of Economic Analysis, Oxford University Press, New York

6.	Seshadı	ndri, G.B. (1997), Economic Doctrines, B.R. Publishing Corporation, Delhi.										
7.	Blaug, l	M. (1997), E	conomic Th	eory in Retr	ospect: A H	istory of l	Economi	c Though	nt from Adam	Smith to J.M.		
	Keynes	eynes, (5th Edition), Cambridge University Press, Cambridge.										
8.	Dasgup	sgupta, A.K. (1985), Epochs of Economic Theory, Oxford University Press, New Delhi.										
9.	Hunt E.	ant E.K. and Mark, Lautzenheiher (2011): History of Economic Thought, PHI Learning.										
10.					PO-CO Cor	npliance l	Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10		
CO1	3	3										
CO2	3	3								2		
CO3	3	3				3	2			2		
	*1: Lov	v, 2: Medium	n, 3: High				•	•				

		Course Name: Monetary Economics	(ECO 521)	
	TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED	
	Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4	
			Total: 4	
Co	urse Pre-requisites:			
1	Must possess knowledg	e of elementary macroeconomics		
Coı	urse Objective:	ne practical aspects of money and banking		
	management in an oper new financial instrume domestic economic per which provides a base their empirical evidence	ng operation, central banking system-cond a economy. Emphasis is given to the changing ents. The course develops a number of the espective related to money, banking operation for the understanding of classical and Keyne e. The course also focuses on the issues of my contexts, like determinants of the price	ng role of financial institutions a coretical frameworks for the an ion, monetary transmission mec sian approaches for monetary the f monetary policy implementation	is well as allysis of chanisms, acory and on in the
1 2		ents will be able to ncepts of money including its origin, function noney, money demand and money supply in t		
		· · · · · · · · · · · · · · · · · · ·		
3	Describe the process of	money creation by the banking system and th	ne role of the central bank	
4	Understand the general	principles of bank management		
5	Identify the key banking development of Indian	g sector reforms in India and policy implication	ons of those reforms with respect	to
6	Elucidate the liability ar	nd asset portfolio management "problem" of b	oanks	
7	management	conduct of monetary policy by the central ba	-	•
8	monetary policy tools	of market for reserves and federal funds rate		s in
9		of financial institutions as well as new financial	cial instruments in the economy	
Coı	urse Content:	h finakiana maanaman 100 la f	. Marshautar af u	
UN	creation; measu	t, functions, measurement; Supply of money: res of money supply in India. Demand for mo riedman theories.		10 hrs
	NIT II Commercial Bar	iking System: Meaning, functions, assets and	11 1 1111	10 hrs

	with profitabili	ty, process o	of credit cre	ation by con	nmercial ba	nks. refor	ms.			
UNIT III	General princip		ng manage	ment, Indian	banking sy	stem: Cha	anging ro	le and		10 hrs
UNIT IV	Central Banking to India, condu control; Analys changes in mor	ct of monet is of market	ary policy: (for reserve	Goals, target s and federa	s, indicator Il funds rate	s and inst with spe	ruments cial refe	of mone ence to	tary	10 hrs
UNIT V	Financial Institu	ighout the v	vorld, trans	action costs	and its impa	act on fin	ancial str	ucture,		10 hrs
UNIT VI	Problem of asy financial struct							-	on	10 hrs
Internal As									-	
	Unit I, Unit II									
	Assignment subr	nission and/	or presenta	ition						
Text Books										
	ırajB.Gupta, Mor									
No	ederic S. Mishkir ewyork, 7 th Editic	on (2004)								
	eter Howells and 005).	Keith Bain.,	the Econor	nics of Mon	ey and Banl	king, Pear	son, Edu	cation Lii	nit. 3 rd	Edtion
Reference	Books:									
4. Su	ırajB.Gupta., Mo	netary Plani	ning for Indi	a, University	/ Press, Nev	v Delhi.				
	M. Bhole and J. I dition, 2011.	Mahukud, F	inancial Inst	itutions and	Markets, T	ata McGr	aw Hill, 5	ith		
			PO-CO	Compliance	Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	3	3								
CO2	3	3								
CO3	3	3								
CO4	3	3								
CO5	3	3								
CO6	3	3							2	2
CO7						3	2		2	2
CO8						3	2		2	2
CO9						3	2		2	2
*1: Low, 2:	Medium, 3: High	า								

			Course Name: Economics of Mathematical Finance (ECO 522)		
	TEACHI	NG SCHEME	EXAMINATION SCHEME CREDITS ALLOT	ED	
1	Γheory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks Theory: 4		
			Total: 4		
Со	urse Pre	e-requisites:			
1	Must	possess knowledg	e of elementary macroeconomics		
Cou	urse Obj	ective:			
	rigoro experi covers theory	us study in finance ence mathematica is a wide range of the security price more	the basic mathematics to be used in finance. It is ideal for the students be in their final year of under-graduation level. This course ensures that and economic perspective of the subject. Using mathematics as a topics in finance, such as, the time value of money, portfolio theory, odeling, and financial derivatives.	at stude	ents can
-			ents will be able to		
1			atical foundation of quantitative finance	nomic:	,
2	1		advanced quantitative methodologies applied in the area of financial eco	momics	S
3	Create	and evaluate the	potential models for the pricing of shares and bonds.		
4	Const	ruct, analyze and e	evaluate the models for investment of financial assets.		
5	Under	stand the emergin	g theories and techniques in the area of financial economics.		
Cou	urse Cor				
UN	NIT I	indicators that n Simple interest,	c mathematical tools, probability theory and random variables. Economy affect the financial markets. Mathematics of the Time Value of M. Compound interest, Annuities and amortization theory, NPV, IRR.	loney:	10 hrs
UN	IIT II	issues of comm	Investment: Buying and selling stocks, Common stock valuation, cost of non stock, stock value with two-stage dividend growth, Bond value occumulation, discount accumulation,		10 hrs
UN	IT III		yield rate. Mathematics of Return and Risk: Expected rate of r sk, risk aversion and risk premium, return and risk at the portfolio level		10 hrs
UN	IIT IV	Portfolio Theor portfolio, Invest Theory: the final	y I: Markowitz Portfolio Model, Two securities portfolio, N-securities, Diversification and randomly selected securities. Capital metal beta (β) ,	urities narket	10 hrs
UN	IT V	Line, CAPM se Sortino ration, V		o, the	10 hrs
UN	IT VI	Intrinsic Values	rwards, Futures and Options. Dynamics of making profits with option Calls and Puts, Time value of Calls and Puts, The delta ratio, determined Option valuation. Option Pricing: The Black-Scholes-Merton (BSM) as warket data.	inates	10 hrs
Inte	ernal As	sessment:			
CIA	4 1	Unit I, Unit II			
CIA	4 2	Assignment submi	ission and/or presentation		
Tex	t Books	:			
			Dong, An Introduction to Mathematical Finance with Applications (Sp	ringer,	2016)
			thematical Finance, (Wiley, 2012)		
Re	ference				
		Ross, An Elemen ambridge, 2011)	tary Introduction to Mathematical Finance, Third Edition (Cambrige U.	Press,	
	4. J.		, and E. V. di Prignano, Mathematical Finance: Deterministic and Stock	nastic M	Iodels
CI		•	Mathematics of Finance (Springer 2004)		

S. Roman, Introduction to the Mathematics of Finance (Springer, 2004)

PO-CO Compliance Matrix												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	РО	PO		
	PO1	PUZ	PU3	P04	PU3	P06	PO7	PU8	9	10		
CO1	3	3										
CO2	3	3										
CO3	3	3					2	2		2		
CO4	3	3				3	2	2	2	2		
CO5	3	3										
*1: Low, 2:	Medium, 3: Hig	h										

		Course Name: Behavioral Economic	s (ECO 523)	
TEACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED	
Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4	
			Total: 4	
Course Pr	e-requisites:			
1 Must	possess knowledge	e of elementary microeconomics		
Course Ob	jective:			
Econo at usin	omics. Behavioural	students with a clear introduction to the p economics considers the ways that peopled more susceptible to psychological biases ents will be able to	e are more social, more impulsive, l	ess adept
1 Under	stand the flexibilit	y and limitations of the economic approac	th to modelling behaviour.	
2 Know	how to use existing	ng behavioural models to understand new	economic phenomena.	
3 Know	to design experim	nents to evaluate a proposed behavioural m	nodel.	
4 Know	to evaluate resear	ch in Economics and disciplines related to	behavioural research	
5 Be ab	le to pose a novel	research question, design plan to investiga	te it and conjecture how to answer i	t.
Course Co	ntent:			
UNIT I	Introduction to the information avoid	nat is behavioural economics? the themes and methods of behavioural economics as introductory example. Making Copeople really make choices when faced with	hoices Under Risk: Prospect	10 hrs
UNIT II		ence-dependent preferences in both risky		10 hrs
UNIT III	Social Preference How do people of (altruism, inequal	care about those around them? Both distrib	outional social preferences	10 hrs
UNIT IV		social preferences (reciprocity, fairness).	The possibility of self-deception.	10 hrs
UNIT V	displayed in judg	make predictions about the world around together and decision-making.	hem? The heuristics and biases	10 hrs
UNIT VI	Nudges, Policy, How and when s		e "behavioural"? The theory of	10 hrs
Internal As	ssessment:			

CIA 1	Unit I, Unit II	
CIA 2	Assignment submission and/or presentation	

Text Books:

- 1. An Introduction to Behavioral Economics, N. Wilkinson and M. Klaes (2012), Palgrave Macmillan
- 2. Animal Spirits, G. Akerlof and R. Shiller (2009), Princeton University Press.

References:

- 3. Loewenstein (1987) "Anticipation and the Valuation of Delayed Consumption". Economic Journal, 97(387): 666—684
- 4. Kahneman and Tversky (1979) "Prospect Theory: An Analysis of Decision Under Risk", Econometrica, 47(2): 263–291

2/1												
PO-CO Compliance Matrix												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO		
	FOI	102	103	104	103	100	PO/	FU	9	10		
CO1	3	3			1	3						
CO2	3	3			1	1						
CO3			2			2	2	2	2	2		
CO4			2			2	1	2	2	2		
CO5			2			2	2	2	2	2		
*1: Low, 2: M	Medium, 3: Hig	gh										

Course Name: Advanced Econometrics (ECO 524)										
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 Pre-requisites:										
4 3/4 1 1 1	C'., (1 (

1 Must possess knowledge of introductory econometrics and statistics.

Course Objective:

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

To conduct panel data analysis using pooled OLS, Fixed effects and Random Effects model.

2	To app	oly time series eco	onometric to	echniques to	empirical s	settings					
3	To car	ry out empirical a	nalyses usi	ng economic	and financ	cial time ser	ies data				
4		ret the results of s						nat can be	drawn, a	and to	
		iate the interplay	between da	ta and theor	y in making	g such infere	ences				
Cou	rse Co										
UN	IT I	Review of cross Fixed effects and specification tes	d Random								10 hrs
UNI	IT II	Mundlak's approautocorrelations	in panel da	ıta.					•		10 hrs
models; Autoregressive models. Almon Approach. Introduction to Univariate time-series econometrics: Stationary and non-stationary process; Tests for stationarity: unit root tests.									10 hrs		
volatility: the family of ARCH and GARCH models.									10 hrs		
UNIT V The concept of spurious regressions and co-integration. Engle —Granger approach, Multivariate co-integration tests: the Johansen's approach. ECM and VECM.ARDL models.									10 hrs		
UNI	IT VI	Dynamic linear models.	panel data	models; Pane	el Unit root	tests, GMM	I models,	the syste	m GMM		10 hrs
Inte	rnal As	sessment:								•	
CIA	A 1	Unit I, Unit II									
CIA	A 2	Assignment subm	ission and/	or presentation	on						
Text	t Books	S:									
		reene, William H. esaran M. H (2015									
Ref		Books:	<i>)</i> , 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.11014		11000		
		rellano M. (2003).	Panel Dat	a Econometi	rics: Advan	ced texts in	economei	rics. Oxf	ord Univ	ersity l	Press
		adi H Baltagi (200									
		ooldridge, Jeffre									oridge:
		ITPress.	•								
	5. H	siao, Cheng (2003). Analysis	of Panel Da	ta, Second	Edition, Ca	mbridge U	Jniversity	y Press		
				PO-CO	Compliance	e Matrix					
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1	1			1	3	2			3	2	2
CO2			1		3	2			3	2	2
COS					3	2			3	2	2
CO4					2	2			2	3	3
		Medium, 3: High	1					•		•	•
1		, 8									

Course Name: Economics of Industrial Organization (ECO 525)										
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED								
Theory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4								
		Total: 4								

Cou	ırse Pre	e-requisi	tes:									
1	Must	oossess l	knowledge	of elemen	tary microed	conomics						
Cou	rse Obj	ective:										
	study emplo	is primai	rily concern techniques	ed with th taught in	or the study e various str the compuls	rategic objec sory course o	ctives and i	interactioneory. It a	ons in elit also prov	e marke ides a th	ts, eoreti	
	framework for analyzing antitrust/competition policy, as well as other policies related to regulation, innovation, intellectual property rights and strategic business policy, which are also covered by other courses.											
Cou			The studer									
1	compe	etition,			retic tools, al							
2			the real wo		stry. They v	vould also be	e prepared	to unders	stand con	npetition	policy	more
Corr	rse Con	ıtant.										
UN		Static o	oligopoly m		homogenou	s and differen	entiated pr	oducts. S	trategic s	ubstitute	S	10 hrs
UNI	ΤII				g and free e	ntry.						10 hrs
UN	IT III				and vertical		erentiation	1.				10 hrs
UN	IT IV	Game '	Theory, Rep	peated gan	ne oligopoly	: Stability an	d sustaina	bility of o	cartels.			10 hrs
UNI	TV				trategies : Er Behavior, "M			ccommod	ation, and	d Exit,		10 hrs
UNI	T VI	Vertica Advert		markets ar	d vertical co	ontracts betw	een firms.	Research	n and Dev	velopme	nt,	10 hrs
Inte	rnal As	sessmen	nt:									
CIA		Unit I, U										
CIA	. 2	Assignm	ent submiss	sion and/o	r presentation	on						
Text	t Books	:									•	
		Belleflaı 015)	mme, M. Pe	eitz: Indust	rial Organisa	ation: Marke	ets and Stra	ategies, C	Cambridge	e Univer	sity Pro	ess
	11. L.	Cabral: I	Introductio	n to Indust	rial Organiza	ation, MIT Pr	ess (2017)					
Ref	erence											
					ook of Indus				h-Holland	d (2007)		
		-			Theory and A			s (1996)				
	14. J.	Tirole: T	he Theory o	of Industria	al Organizati							
	PO-CO Compliance Matrix											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO		1		2		ļ	<u> </u>	3	3	2	2	2
CO		1		2		2	3	3	3		1	2
*1:	Low, 2:	Mediun	n, 3: High									

	Course Name: Game Theory (ECO 526)
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Theory: 4 hrs per week	End Semester Examination: 60 marks	Theory: 4

				Interna	al Assessmer	nt: 40 marks							
							Ì			Tota	al: 4		
Co	urse Pro												
1		•	s knowledge	of element	ary microeco	onomics							
Cou	irse Ob												
	Game theory is a formal study of conflicts and cooperation. The game theoretic concepts apply whenever the actions of several agents (individuals, groups, firms etc. or any combination of these) are interdependent. The concept of Game theory provides a language to formulate structure, analyze, and understand the strategic scenario. This course would provide the students the main ideas of how the game theories can help to understand the economic and social phenomena. It emphasizes the idea behind the theories rather than their mathematical expression typically taught in mathematics. The course would introduce some equilibrium concepts of game theory and their usage in economics along with various numerical examples and applications. The basic knowledge of game theory can dramatically improve the strategic instinct and the decision making skill of students. Course Outcomes: The students will be able to												
Cou													
1			the economic				_					_	
2			the actions o market stru		onomic ager	nts (individua	ıls, gr	oups,	firms et	c. or any	combina	ition o	of
3	Impro	ve the	ir strategic ir	stinct and t	he decision	making skill							
4	Elucid	late th	e concept of	equilibrium	in any bran	ch economics	S						
5	Under	stand,	clearly, the	concept of I	Nash Equilib	orium, differe	nt ma	rket	strategies	s and zer	o-sum ga	me	
	~												
Cou	irse Co		1	T1	. TT'	C C Tl		A 1		.:			
UN	I TIV		duction to G ry of rational		y; History of	f Game Theo	retic .	Analy	ysis; clas	sification	is of gan	nes;	10 hrs
UN	II TII	Strat	egic Game: '	The Pay-off		Prisoner's di							10 hrs
UN	IT III		n Equilibriun -sum game	n: The cond	cept of Nash	Equilibrium	; don	ninati	ng and o	dominate	d strateg	ies;	10 hrs
UN	NIT IV	Mixe	ed Strategy			concepts a	nd e	exam	ples; st	rategic	game v	vith	10 hrs
			omization. G			mation. Bayesian Ga	mag	Cor	rnot's	duonaly	gama v	vith	
UN	IT V		erfect inform				imes,	Cot	miot s (uuopory	gaine v	VIUI	10 hrs
UN	IT VI		eated and Co			•							10 hrs
	rnal As												
CIA			Unit II										
	A 2 at Books		nment submi	ssion and/o	r presentatio	n							
Tex			J Martin (20	004), An In	troduction to	Game Theor	ry, Ox	xford	Universi	ity Press			
Ref	ference	Book	<u> </u>										
				irole, J. (19	91), Game T	Theory, MIT	Press						
						ory, Prentice-							
	6. M	lyersoı	n, R. (1991):	Game Theo		s of Conflict,			Jniversity	y Press			
		-		1	PO-CO C	Compliance M	I atrix		Г		ı	1 00	
			PO1	PO2	PO3	PO4	PO5	5	PO6	PO7	PO8	PO 9	PO 10
CO)1		3	3									2
CO			3	3									2
CO			3	3									2
CO			3	3								1	2
CO:	5		3	3	İ				1		1	1	2

			nomics of Environmental Issues and Sustai				
TF	EACH	ING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED			
Τ	Γheory	: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4			
				Total: 4			
Co		re-requisites:					
1	Must	possess knowledge	e of elementary microeconomics and environ	mental economics			
Cou	urse Ol	ojective:					
Cor	susta and d	inable developmen	uss the various approaches of sustainable devel t and role of environment in sustainable devel ental issues and the new economic framework ents will be able to	opment. It also deals with internation	ational		
			relevance of environmental economics in lin	king the notions of sustainable			
1		opment.	relevance of chynomichtal economics in ini.	king the hotions of sustamable			
1	ucve	ориси.					
2	Unde	erstand the various	approaches of sustainable development and he	ow they are different from each o	other.		
3				on they are uniferent from each	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3			s-national environmental issues.				
4		w various issues re erns in India	lated to energy, water, land, transport issues i	n association with the environme	ental		
5	Appr	eciate the emergen	ce of genuine wealth and its relevance in the	new economic framework of wel	l-heing		
				lew decinomic frame work of well	- come		
6	Com	prehend the effects	of globalization on environment.				
Cou	urse Co	ontent:					
UN	NIT I	Pursuits of Susta	Development and emergence of a new paradiguinable Development. Aspects of Sustainable Social, a Synthesis		10 hrs		
UN	II TII	Hartwick-Solow	nable Development: Rules of sustainable development, Non-declining natural capital stocks operational principles, The Common-Perring	k approaches, The SMS	10 hrs		
UN	NIT III		onment: Trade, Foreign Investment and the E	nvironment. Ecological	10 hrs		
UN	IT IV		collution. Porter's hypothesis, race to bottom a conomic Reforms and the Environment	and pollution haven hypothesis.	10 hrs		
UN	NIT V	Environment and i) Indian	d Economic Growth Energy and Environment issues Land Transport and Urban development issue	es	10 hrs		
UN	Genuine Wealth and Sustainable Development The Genuine Wealth Model: Defining genuine wealth, Old Economy of scarcity and new UNIT VI economy of well-being, Five Capital of Genuine wealth. Genuine wealth assessment life cycle. Genuine wealth models of communities and nations. Gross National Happiness: Case of Bhutan						
Inte	ernal A	ssessment:					
CL	A 1	Unit I, Unit II					
~~	A 2		ission and/or presentation				

Text Books:

 Jonathan M. Harris (2000): "Basic Principles of Sustainable Development" G-DAE Working Paper No. 00-04.

Reference Books:

- 2. Bruno S. Frey, Economics Of Happiness, Springer International Publishing, 2018
- 3. Kanchan Chopra and VikramDayal (Ed). Hand book of Environmental Economics,Oxford University Press 2009.
- 4. Sengupta, R.P, "Economics in India. Prospects and policies of low carbon Economic growth in India", NIPFP Publications 2010.
- 5. Peter Meier and Mohan Munasinghe, Sustainable Energy in Developing Countries: Policy Analysis and Case Studies, Cheltenham: Edward Elgar.

	PO-CO Compliance Matrix											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9			
CO1		2							3			
CO2		2							3			
CO3		2			2	2			3			
CO4		2			2	2			3			
CO5		2			2	2			3			
CO6		2							3			
41 T 2 M	1' 2 TT' 1			•								

Course Name: Health Economics (ECO 528)										
TEACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED								
Thoory: 4 hrs nor wook	End Semester Examination: 60 marks	Theory: 4								
Theory: 4 hrs per week	Internal Assessment: 40 marks	Theory: 4								
		Total: 4								

Course Pre-requisites:

1 Must possess knowledge of elementary economics

Course Objective:

Health economics is the study of how scarce healthcare resources are allocated among competing interventions and among groups in society. This course introduces basic concepts and practical issues faced by decision makers at all levels in the health system in allocating scarce resources so that the choices they make maximize health benefits to the population.

Course Outcomes: The students will be able to

- The key analytical reasoning and tools of health economics and their normative foundations and ethical implications
- 2 Use economic models to understand behaviors of actors in the health care sector
- Undertake economic evaluation in healthcare, with an emphasis on identifying, measuring, valuing and analysing health outcomes and costs
- 4 Understand approaches to identify and value costs and outcomes to include in economic evaluation
- 5 Make analyses of efficiency and quality of health care organizations
- Develop competence to apply economic concepts and models to the fields of demand for health, demand for health services, demand for health insurance, provision of health insurance and provision of health care.

7		op competence t	o describe,	analyze and	l critically ad	ldress econ	omic aspe	cts of he	alth care		
8		stand fundamen	tals of marl	kets and the	price mech	anism with	a focus or	n the hea	Ithcare n	narket	
Cour	rse Cor	ntent:									
UNI		Health Econom Health as a Soc development in	ial Indicato	r, Health dir	-			-	nd health		10 hrs
UNIT	ГΙΙ	Health Econom Determinants of economic appra	of health: Po	overty, Malr	nutrition and				-	of	10 hrs
UNI	T III	Costs and Bene services, the fa health services	ilure of the	market to p							10 hrs
UNIT	ΓIV	Costs and Bene and family plan professional ma	ning projec	cts, benefits	and costs (b						10 hrs
UNIT V Valuing Health and health damage I :Human capital approach: measurement of mortality: value of statistical of life, years of life lost; morbidity valuation: cost of illness, Burden of disease: Meaning and significance,											
UNIT	ΓVI	DALY: A measu QALY, the GBD National health	assessmen	t, BD and DA	ALY: A critica	ıl appreciati	on. Healt	h Accoun			10 hrs
Inter	rnal As	sessment:								•	
CIA	1	Unit I, Unit II									
CIA	2	Assignment subn	nission and	or presenta	ation						
	Books										
		nthony J. Cuylei		eph P. (ed.) (2000), H	andbook o	f Health	Econom	iics,Newh	iouse	North-
Dof		olland,Elsevier So Books:	ience								
		ewar, Ann, and D	avid Darkir	nc 1000 Fcc	nomics of H	lealth Care	Managem	ent Lon	don Dran	tico Ha	Ш
	3. Fc	olland, Sherman, ew York: MacMill	Allen Goo	dman, and							
		erman Folland, A Edition, Prentic					ne Econor	nics of H	ealth and	l Healtl	n Care,
				PO-CO	Compliance	Matrix		1	1	T = =	T = -
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10
CO1				2			2			3	3
CO2		2	2	2			2			1	
CO3		2	2	2			2		1	2	2
CO4		2	2	2			2			1	1_
CO5		2	2	2			2			2	2
CO6										3	3
CO7			2	2			2		1	3	3
*1.1		2	2	2			2			1	
"1: L	_ow, 2:	Medium, 3: High	1								

			Course	Name: Natı	ıral Resource	Econo	mics (ECO 5	29)			
Т	EACHI	NG SCHEME	EXA	AMINATION	SCHEME		•	CREDITS	ALLOTED)	
		4	End Seme	ester Examii	nation: 60 ma	rks		Tl			
ır	neory: 4	4 hrs per week	Intern	al Assessme	ent: 40 marks			Theo	ory: 4		
								Tota	al: 4		
Cou	rse Pre	-requisites:									
1	Must p	oossess knowledg	e of elemen	tary microe	conomics and	d envir	onmental ed	conomics			
Cour	rse Obj	ective:									
		ourse deals with t ces. It also aims to								wable	natural
		comes: The stude									
		the extension of g									
		stand the concept									
		the process of arri ty fishery.	iving at bio-	economic e	quilibrium ou	tcome	in an open a	ccess fish	nery and	static p	orivate
4	Constr	ruct the model for	efficient an	d optimal us	se of non-rene	ewable	resources.				
5	Under	stand the static an	d dynamic e	efficiency co	onditions of th	ne reso	urce optimiz	ation pro	blem.		
6	Comp	rehend about some	e of the way	s in which p	people's parti	cipatio	n can be mad	de effecti	ve.		
Cour	rse Con	tont									
Cour	se con	Economy wide N	Andeling: Fr	vironment:	al Innut outni	ıt Anal	usis Comput	tahla Gar	neral		
UNI	ΤI	Equilibrium mod	lel for Resou	urces and Er	nvironmental	Polluti	on.		iciai		10 hrs
UNI	T II	Economics of Re Optimal Manage					_		herv:		10 hrs
UNIT	ГШ	Economics of Re Resources.								of	10 hrs
UNI	T IV	Economics of No			es I: Theories	of Dep	etion and In	vestmen	t for		10 hrs
		Exploration, Hot Economics of No			s II: Dricing a	nd Mai	·kot Natural	Pesource	o Cartols		
UNIT	ΓV	Cases of Energy				iiu iviai	Ket. Natural	Resource	e carters	•	10 hrs
		Economics of Co				tutions	: Open Acce	ss: Econo	mic Failu	ıre	
UNIT	ΓVI	and consequenc		•			•				10 hrs
Inter	rnal Ass	sessment:	<u>~</u>	•		•					
CIA	1 l	Jnit I, Unit II									
CIA	2 /	Assignment submi	ission and/o	r presentat	ion						
Text	Books	1									
		lanely, Nick, Jasor	ո F.Shorgen	, and Ben V	Vhite, Enviror	nmenta	I Economics	: In Theo	ry and P	ractice	1999,
		/lacMillian									
		ger Permanet. al.	, Natural Re	source and	Environment	al Ecor	nomics, Third	d edition,	Pearson	(Modu	ıle I).
Refe		Books:		C (C. a	man Commo	-4! 1	Sanaral Edition	- F-l		N / a -l · l	- 11 ()
		ement A Tisdell, E									
		m Tietenberg, En								ıvıoau	ie III).
	J. Da	ivid Anderson, En	vironinenta	ECOHOTHICS	anu Naturdi	nesoul	ce ivialiager	nent, KOL	rueuge.		
				PO-CO (Compliance N	1atrix					
		DC1	003				DOC	DO7	DOG	РО	РО
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	9	10
CO1		1	2							2	
CO2	<u> </u>	2	2			2				2	
CO3	3		2					1	1	3	

CO4		2							3	
CO5		2							3	
CO6		3							3	
*1: Low. 2: Medium. 3: High										

			Course: Introduction to Environmental Valu	ation (ECO530)	
	TEACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED	
T	heory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4 (3 L+ 1 T)	
				Total: 4	
Co	urse Pre	e-requisites:			
1	Stude	nt must have com	pleted Bachelor's Degree		
2	Must	Have completed a	basic course on Environmental Economic	s and Microeconomics	
Cou	ırse Obj				
	comm techni of env	odities especially iques would help t rironmental comm		l case studies based on different val	uation
Cou			ents will be able to		
1			on in environmental economics, including		
2			nciples in valuation of environmental good		
3			eferences to infer demand for environmen		
4		approaches of nesses and methods	on-market valuation of environmental g s of application	goods and services, and of their s	trengths,
5	Demo	nstrate theoretica	l and practical application of different valu	uation techniques.	
6	Apply	cost benefit analy	rsis to decide on a sustainable project.		
Cou	ırse Cor	ntent:			
UN	IIT I	Economic Theor	tion of Environmental Damage or Benefits y and Measurement of Environmental Ber ness to Pay and Willingness to Accept.		10 Hrs
UN	IIT II	Economic Valuat Concepts of Con	tion of Environmental Damage or Benefits sumer's Surplus. Compensating and Equivant the Environment.		10 Hrs
UN	IIT III	i. Reveale Production Func Method.	roaches and Methods of Environmental Va ed Preference and Stated Preference Meth tion, Travel Cost Method, Defensive cost a udies to be discussed.	hod – Hedonic Pricing, Household	10 Hrs
UN	IIT IV	Alternative Appr i. Valuation	roaches and Methods of Environmental Va on of Health and Human Life udies to be discussed	aluation –II	10 Hrs
UN	IT V	i. Valuing	oaches and Methods of Environmental Va Environment as Input in Production udies to be discussed	aluation –III	10 Hrs
UN	IT VI	i. Sustain	Accounting and Measuring Green GDP able Macroeconomic Accounting of Natio Accounting.	nal Income and Wealth.	10 Hrs

iii Funing we get al Coat Dan efit Analysis for	C., a4a : a a la la	Davidani				
·	iii. Environmental Cost-Benefit Analysis for Sustainable Development. iv. Rationale of Discounting the Future in the context of Sustainability					
_ =						
v. Theory of Krutilla-Fisher Equation for Pro	eservation o	Develop	nent			
Internal Assessment:						
CIA 1 Unit I, Unit II						
IA 2 Assignment submission and/or presentation/Written Test						
Text Books:						
9. Kolstad C.D., Environmental Economics, Oxford Unive	ersity Press,	2000.				
Reference Books:						
3. Johansson Per-Olov: The Economic Theory and Measurement of Environmental Benefits, Cambridge						
University Press, Cambridge, 1987.						
4. Bhattacharya R.N. (ed.), Environmental Economics: A	n Indian Per	spective,	Oxford U	niversity	Press,	2001.
5. M.N. Murthy Environment, Sustainable Developmen	t, and Well-k	eing Valu	iation, Ta	axes, and	Incent	ives,
OUP May 2009		_				
PO-CO Compliance	e Matrix					
PO1 PO2 PO3 PO4	PO5	PO6	PO 7	PO 8	PO 9	PO 10
CO1 3 3						
CO2 3 3						
CO3 3 3						
CO 4 2	2	3	2	1	1	1
CO 5 2 2						
CO 6	2	3	2	2	3	2
*1: Low, 2: Medium, 3: High		-				