

Programme Structure & Syllabus

INTEGRATED M.SC. B.ED. 2022-23

Department of Economics Central University of Rajasthan

Department of Economics

Integrated M.Sc. B.Ed. Economics Programme

DEPARTMENT OF ECONOMICS											
	Integrated M.Sc. B.Ed. ECONOMICS										
Semester	Type of Course	L	Т	Р	С						
	С	ECO 401	Microeconomics I	3	1	0	4				
	С	ECO 402	Macroeconomics I	3	1	0	4				
T	AECC	ECO 403	Mathematical Methods in Economics	3	1	0	4				
	AECC	ECO 404	Statistical Methods in Economics	3	1	0	4				
1	С	ECO 405	Issues in Indian Economy	2	0	0	2				
	С	EDU 411	Basics of Education	3	0	0	3				
	С	EDU412	Senior Secondary Education in India: Status,	3	0	0	3				
			Challenges and Strategies								
Total Cred	lits						24				
	C	ECO 411	Microeconomics II.	3	1	0	4				
	C	ECO 412	Macroeconomics II.	3	1	0	4				
	AECC	ECO 413	Econometrics	3	1	0	4				
II	C	ECO414	Trade Theory and Policy	3	1	0	4				
	GE	Elective		2			2				
	C	EDU413	Learner and Learning	3	0	0	3				
	C	EDU414	Teaching Approaches and Strategies	3	0	0	3				
Total Cred	lits						24				
	C	ECO 501	Development Economics	3	1	0	4				
	С	ECO 502	Economic Growth Theories	3	1	0	4				
	С	ECO 503	Public Economics	2	1	0	3				
III	AECC	ECO 504	Computer Applications in Economics	3	1	0	4				
	GE	Elective		2			2				
	C	EDU511	Learning Assessment	3	0	0	3				
	С	EDU513	Pedagogy of Social Science	4	0	0	4				
Total Cred	lits	1				24					

	AECC	ECO 512	Research Methodology	3	0	0	3
	С	ECO513	Economics of Human Development	3	1	0	4
	С	ECO514	International Macroeconomics and International Finance	3	1	0	4
	DE	Elective		3	1	0	4
	GE	Elective		2			2
	С	EDU514	Classroom Organization and Management	3	0	0	3
	С	EDU518	Pedagogy of Economics	4	0	0	4
	Audit	-	Fitness				2*
	Course						
	Audit	-	Societal Interface				2*
	Course						
Total Credi	Total Credits						24
V	C	EDU611	School Internship-I	0	0	06	06
v	С	EDU612	School Internship & Teaching Practice-II	0	0	12	12
	С	EDU613	Action Research in Schools	0	0	04	04
	С	EDU 614	Community Based participatory Research	02	0	02	02
Total Credi	ts	•	<u></u>				24
VI	C		Dissertation***	0	0	16	16
V I	DE	Elective		3	1	0	4
	GE	Elective		3	1	0	4
	Audit	UHV*		3	1	0	4
	Course						
Total Credi	ts						24

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 the first 4 Semester of the Course. 2 Credit Course for Societal Interface will also be spread first 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.

Total Credit for Integrated M.Sc. B.Ed. Porgramme is 94+50=144 Credits (excluding Audit course, social interface and fitness courses) which are divided as follows:-

CC - Core Course	41 Credits
Project /Dissertation course***	16
Total Credits of Core Courses	57
DE- Departmental Specific Elective Courses offered by the Department	08 Credits
GE - Generic Elective Courses offered by any department of the	10 Credits
University	
Total Credits of Elective Courses	18 Credits
AECC – Ability Enhancement Compulsory Course	19 Credits
Total Credits of M.Sc. Economics	94 Credits
Credits from Education Department	50 Credits
Total Credits of Integrated M.Sc. B.Ed. Economics	144 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	4
		Financial Development in India	
2	ECO 551	Financial Economics	4

List of Departmental Specific Elective Courses offered by the Department

Sr. No	Course Code	Course Name	Course 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 Development	4
13	ECO528	Health Economics	4
14	ECO529	Natural Resource Economics	4
15	ECO530	Introduction to Environmental Valuation	
16		Any Other MOOC/ Online Course as approved by Board of Studies &	4
		School Board	

Programme Outcome:

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

Core Courses

			Course: Microeconomics I (ECO	401)	
Т	EACHI	NG 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:	<u> </u>		
1	Studer	it must have comp	leted Bachelor's Degree		
2	Must H	Have aptitude for	microeconomics		
Cou	ırse Obj	ective:			
	The C benefit The m govern compe	ourse examines ts, and how the in odel of market s iment intervention tition and monop	how individuals and firms make decision teraction of their decisions leads to utility- upply and demand is employed to examin as in market activity. The implications of d plistic are examined.	ns by weighing up preferences, co maximization, market and social ou ne the effects of taxes, subsidies as ifferent market structures, including	osts and utcomes. nd other g perfect
Cou	irse Out	comes: The stude	ents will be able to		
1	Demoi to com	nstrate an underst pare the choices of	anding of the concepts of utility functions, of consumer	demand functions and preference	structure
2	Demo	nstrate the ability	to apply optimization techniques to decision	ons made by consumers and firms	
3	Studer functio	nts will be able to on analysis	o demonstrate an understanding of produ	cer choice, including cost and pro-	oduction
4	Demo makin	nstrate an underst	anding of how markets work to allocate re arket outcomes	sources and the optimal individual	decision
5	Identi	fy perfect compet	ition, monopoly and monopolistic market	structures and discuss their implica-	tions for
6	Explai	n the advantages	and potential shortcomings of markets, disc	cuss the conditions under which ma	rkets do
Car	and do	not work well			
COL	Irse Cor	Theory of Con	umor I: Proforman relations and their n	roportion Consumption Decision	
UN	IT I	(Optimizing Be Indifference cur Substitute, perfe	haviour of the consumer under alternative ves and revealed preference). Derivation ct compliments and quasi-linear utilities	ve preference structures- Utility, n of demand functions: Perfect	10 hrs
UN	IT II	Theory of Cons the consumer's of Equation, derive Consumer's surp	umer II:Indirect Utility and Expenditure I decision, income and substitution effect –H ation of ordinary and compensated dema plus,	Functions. Comparative statics of licks and Slutsky analysis Slutsky and function, Demand elasticity.	10 hrs
UN	IT III	Theory of Prod Scale, Variation Minimization of	uction and Costs I : The Production fun- in input proportions, the multi-product fin costs in the long and the short run,	ction- Assumptions, Variation in rm and production possibility set.	10 hrs
UN	IT IV	Theory of Produ Cobb-Douglas, (ction and Costs II : Derivation of cost fun CES, and Trans-log production functions ar	nctions from production functions; and their properties;	10 hrs
UN	VIT V	Perfect competit curve; Monopol aspects, monopol	ion — short run and long run equilibrium y — short run and long run equilibriu ly control and regulation; Natural Monopol	n of the firm and industry, supply m, price discrimination, welfare ly	10 hrs
UN	IT VI	Monopolistic co of the firm and t monopolistic and	mpetition — general and Chamberlin appro the group with product differentiation and so d imperfect competition,	baches to equilibrium, equilibrium elling costs, excess capacity under	10 Hrs

Internal	Assessm	ent:								
CIA 1	Unit I, Unit II									
CIA 2 Assignment submission and/or presentation										
Text Boo	oks:									
1.	Varian, I	H. (2005), In	termediate	Microecond	omics: A Mo	dern Appr	oach W.W	V. Norton	, New York	
2.	Varian,	H. (2004), M	licroecono	mic Analysis	s, W.W. Nor	ton, New `	York.			
Referen	ce Books	5:								
1.	Gravelle	, H and Ray	Rees (2004	4), Microeco	onomics, 3 rd	edition, Pro	entice Hal	l Longma	ın London.	
2.	Sen, A.	(1999), <i>Micro</i>	peconomic.	s : Theory a	nd Applicati	ons, Oxfor	d Univers	ity Press,	New	
3.	Microec edition (onomic Theo 2014)	ory: Basic	Principles a	and Extension	ons (Uppe	r Level E	conomic	s Titles)Cer	gage; 11
4.	Roy Cho	oudhary, K M	licroecono	mics, Vol 1.						
5.	Nicholso Thomso	on, W., Micr n Learning, 2	oeconomic 2002	Theory: Ba	asic Principl	es and Ex	tensions,	eighth ed	ition, South	Western
		0,		PO-CO (Compliance	Matrix				
		PO1	PO2	PO3	PO4	PO5	PO6			
CO1		3	2							
CO2		2	2		3					
CO3		3	2		3					
CO 4		2			3					
CO 5	CO 5 2									
CO 6		2								
*1: Low,	2: Medi	um, 3: High								

	Course: Macroeconomics I (ECO 402)								
T	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	Student must have comp	bleted Bachelor's Degree							
2	Must Have aptitude for	macroeconomics							
3	Must possess analytical	thinking							
Cou	arse Objective:								
	This course Introduces s course will be aimed at income and employment investment along with n on unemployment. Fina- the use of fiscal and more	students to the main classes of models in n t providing students with astound knowle at determination while the second half wil neasures to analyze unemployment and inf l part of the course will mainly focuses on netary police to achieve economic goals.	nodern macroeconomics. The first half of the edge of modern macroeconomic theories of l deal with the theories of consumption and lation including contrasting economic views integration of goods and money market and						
Cou	arse Outcomes: The stude	ents will be able to							
1	Demonstrate the problem	m of macroeconomic aggregations using pa	artial and general equilibrium analysis						
2	Examine how the economy behaves at the aggregate level and how national income is measured and determined both in closed and open economy context								
3	Demonstrate various the and services.	eories explaining the major factors determ	ine consumption expenditure on final goods						
4	Define money and desc	ribe the theories on money demand and m	oney supply including the process of money						

	creation by the banking system and the role of the central bank.									
_ Apply macroeconomic measures to analyze unemployment and inflation including contrasting econ							conomic			
5	views	on unemployment.								
	Explai	n the components	of aggrega	ate econom	ic activity, f	uctuations	and effects	for the n	ational econ	omy and
6	how fi	scal policy is used	to achieve	e economic	goals.					
Cou	rse Cor	ntent:								
		Introduction to	Macroeco	nomics: V	Vhy and ho	w to study	y macroec	onomics;	; Scope of	
UN	тт і	macroeconomics	, Macroec	croeconomic Variables- Stocks and Flows, Problem of Aggregation:					10 hrs	
011		Macroeconomic	Equilibri	um. Natio	onal Income	Accounti	ngs. Mac	roeconon	nic Debate	10 115
		(Introductory):		n The E		the long	www. Voru		mmaaah of	
		Macroeconomics	Models	of Incon	conomy in ne and Emi	the long	run; Keyi Determinat	ion: An	Overview	
UNI	ΤI	Walrasian interp	retation of	Kevnesiai	n unemployn	nent: New]	Kevnesian	Interpret	ation. Post-	10 hrs
		Keynesian Interp	retation. N	lew classic	al economics					
		Consumption Fu	inction an	d Investm	ent Function	: Keynes	consumptio	on theory	y, Kuznet's	
UN	тш	Puzzle, Life Cy	cle Hypot	hesis, Pern	nanent Incon	ne Hypothes	sis, Rando	m Walk	Hypothesis,	10 hrs
011		Keynesian Theor	ry of Inve	stment, Ac	celerator pri	nciples, Ne	o-Classica	and Ne	w Classical	10 1115
		Theories of Invest	stment.	mand for	Monor Eri	adman Da	umal Tak	in Dotin	lrin's Deal	
UN	IT IV	Balance Effect I	sules rega	rding endo	money- rn	xogenous si	unnly of m	onev	ikili s Keal	10 hrs
		R.B.I.'s Approac	to Suppl	v of Mone	v Demand-P	ull and Cos	t-Push Infl	ation. Ph	illips Curve	
UNI	ΤV	Controversy, N	atural Ra	ate of U	nemploymer	nt-Adaptive	expectat	ions and	d Rational	10 hrs
		expectations mod	lels of infl	ations. The	e quantity the	eory of mon	ey.			
		Economy in the	short-run:	Goods ma	rkets and the	e IS curve, l	Financial c	or money	market and	
UNI	T VI	the LM curve, Goods market and money market together-The IS-LM model- closed						10 hrs		
		economy case;	Fiscal poli	icy and m	onetary poli	cy under a	Iternative	supply as	ssumptions,	
Inter	rnal Ac	Policy MIX. Agg	regate den	iand and su	ippiy.					
CLA		Unit I. Unit II								
CIA	$\Lambda 2$	Assignment submi	ssion and/	or presenta	tion					
Text	t Books	:		1						
	1. Do	ornbusch Rudi, Fi	scher, Sta	nley and S	Startz Richar	d. <i>Macroec</i>	onomics, "	Fata McC	Graw-Hill Pu	blishing
	Co	o. Ltd.								
Ref	erence	Books:								
	2. M	ankiw Gregory N.	Macroeco	nomics, W	orth publishe	ers				
	3. Bl	anchard Olivier. M	lacroecon	omics, Prer	ntice Hall					
			-	PO-CO	O Complianc	e Matrix				
		PO1	PO2	PO3	PO4	PO5	PO6			
CO	1	2	3	2	2	2				
$C0_2$	2	2	2	2	3	2				
	3 4	1	2	+						
	5	1	~	3	2	2				
CO	6	2	2							
*1:1	Low, 2:	Medium, 3: High			I	I			I	

	Course Name: Issues in Indian Economy (ECO405)								
TEACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 2						
			Total: 2						
Course Pre	e-requisites:								
1 Stude	nt must have comp	pleted Bachelor's Degree							
2 Must	possess knowledge	e of elementary economics							
Course Ob	jective:								
The c Proble develo eradic focuse develo	ourse introduces t ems of Indian Ec opmental strategie ate the poverty a es on the changi opment.	the students to the various dimensions of conomy. This course is also aims to pro- s and structural adjustment reform measure nd unemployment, to reduce inequalities ng role of state, markets and civil soci	the Indian Economy and the conte- poide the basic information regard res that countries across the world and regional imbalances. The cou- ety institutions with respect to en-	mporary ding the adopt to urse also conomic					
Lourse Ou	icomes: The stude	ents will be able to	t the problems feed by the Indian	aanomu					
2 Demo	stand the mutal e	pment process in India after independence	t the problems faced by the fildran e	conomy					
2 Devel	op a perspective o	n the external sector reforms and industrial	sector reforms undertaken in globa	1					
⁵ econo	mies including in	India for last three decades							
Demo	nstrate various str	uctural adjustment programs and reform m	easure that the government of India	has					
4 been i Indep	nitiated to eradica endence	te poverty and unemployment, to reduce in	equalities and regional imbalances s	since					
5 Under	- Understand what the primary measures of inflation in India are and be able to assess the impact of inflation on								
⁵ inflow	and outflow of fo	preign capital India.							
Course Co	ntent:								
UNIT I	Post 1991 devel oriented reform programmes and	opment in global economies; Trade and ex ns, Capital flows from World Bank a l conditionalities.	schange rate liberalization, market and IMF. Structural adjustment	10 hrs					
UNIT II	Exchange rate structures like S	and trade policy changes, Industrial political political political trade political politic	icy and setting up of regulatory	10 hrs					
UNIT III	Infrastructure se infrastructure se market reforms	sectors. Investment requirements of r ectors private-public partnership mode SN - Exit policy and liberalization of labour ma	oads, power, ports and other MEs and Informal sector Labour arkets.	10 hrs					
UNIT IV	Rural Livelihoo and the Public D	d: Livelihoods and Employment: Structur Distribution System; Employment Security-	e of rural poverty, Food security MGNREGA	10 hrs					
UNIT V	Economic deve institutions Ch Indian economy trends. Inequalit	elopment and institutions – Role of s aracteristics of Indian markets and need to since independence – Sectoral growth rate ies and regional imbalances.	tate, markets and civil society for state interventions. Growth of es and changing structure. Poverty	10 hrs					
UNIT VI	Growth of dome direct investmer trends – Compos	estic savings and investment. Role of foreignt. Technology inflows. Monetary policy is sition of wholesale price index. Retail price	gn capital - borrowing, equity and ssues: Price level and inflationary es.	10 hrs					
Internal As	ssessment:								
CIA 1	Unit I, Unit II	• • • • •							
CIA 2	Assignment subm	ission and/or presentation							
Text Book	S: ma Karila I. I.	Economy Icours in Development 0 D	ing and Sasteral Association						
I. U	ma Kapila, Indian	Economy: Issues in Development & Plann	ang and Sectoral Aspects						
2 D	DUOKS:	onment Feonomics, Oxford University Des	ns 2002						
2. K	ay, Debiaj, Develo	by scholarly readings from Economic and	political Weekly Indian Economic	iournal					
ar	id Indian Economi	ic Review	rondear weekry, menan Leononne	Journar					

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

		Course Name: Microeconomics II ((ECO411)		
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 Stude	nt must have the k	nowledge of intermediate microeconomics	3		
2 Must	possess knowledge	e of elementary mathematics			
Course Ob	jective:				
The C policy The w Famil	Course will selective, and micro-found vorkhorses of mac iarity with the mat	vely cover recent developments in macro dations. The focus will be on substantive roeconomic issues will be applied to analy erial covered in texts as mention in Macro	beconomics of fluctuations, open ex- issues and applications of basic pr yse economy-wide topics of current economics-I is assumed.	conomy, inciples. interest.	
Course Ou	tcomes: The stude	ents will be able to	-		
1 Devel	op the intellectual	ability of explaining some core economic	issues.		
2 Demo	onstrate how the ec	conomy works at different situations both is	n short-run as well as long-run.		
3 Apply	the economic the	ories the contemporary economic and soci	al issues		
4 Devel	op skills of synthe	sising the argument found in academic res	earch and also in media.		
5 Devel	op skill of logical	economic arguments.			
Course Co	ntent:		· 1 5 1 · 1 N · 11 ·	1	
UNIT I	(Cournot, Bertr solution) and co determination un	ame Theory: Non-collusive (Cournot, Be and, Edgeworth, Chamberlin, kinked o ollusive (Cartels and mergers, price lead nder monopsony and bilateral monopoly;	ertrand, Edgeworth, Non-collusive lemand curve and Stackelberg's lership) models; Price and output	10 hrs	
UNIT II	Game Theory: Games, Zero-Su	Nash Equilibrium, Prisoners' Dilemma m Game, Mixed Strategies	, Dominant Strategies, Repeated	10 hrs	
UNIT III	Theory of Distrier exhaustion theory Theory of distrib	ibution: Neo-classical approach — Marg rem; Elasticity of technical substitution, te pution in imperfect product and factor mark	ginal productivity theory; Product chnical progress and factor shares; kets;	10 hrs	
UNIT III	General Equilibrium: Core of Exchange economy; Market exchange; General equilibrium III models of exchange and production; Existence of competitive equilibria; Uniqueness and 1 Stability of Competitive equilibrium;				
UNIT IV	Welfare Econon Criterion; Kaldo principle; Theor	nics : First and Second Fundamental Theor or Criterion; Scitovsky Criterion; Social y of Second Best, Arrow's impossibility th	ems of Welfare Economics. Pareto welfare function; Compensation neorem; Rawl's theory of justice,	10 hrs	
UNIT VI	Externalities: M implications - E	Market Failure: Market failure; Source sternalities; Public Good; Asymmetric Info	es of market failure and their prmation.	10 hrs	
Internal As	ssessment:				

CIA 1	CIA 1 Unit I, Unit II									
CIA 2	CIA 2 Assignment submission and/or presentation									
Text Bool	ks:									
1	 Varian, Hal R., Intermediate Microeconomics, 1990, 5th Edition, W.W. Norton and Company (Varian -5). 									
						1			1.0	
2	2. Va	rian, Hal R., J	Microecor	iomic Analy	sis, 1992, 3i	rd Edition,	W.W. N	orton and	l Compar	iy (Varian -
	3).									
3	B. Gr	avelle, H and I	Ray Rees	(2004), <i>Micr</i>	oeconomics,	3 rd edition	, Prentice	Hall Lo	ngman Lo	ndon.
Reference	e Book	as:							5 1 11 1	
	1.	Modern Mic Macmillan,	roeconom	ics 2e,Kouts	oyiannis 2nd	l Revised e	dition Ed	ition 2nd	Publishe	r:
	2.	Nicholson, V	W., Micro	economic T	heory: Basic	Principles	and Ext	ensions,	eighth ed	ition, South
		Western Tho	omson Lea	rning, 2002						
	3.	Mas-Collel,	Whinston	and Green,	Micro-econo	mic Theory	y, OUP, 1	995		
	4.	McKenna, C	C.J., 1986	, The Econ	omics of U	ncertainty,	Wheat S	heaf Bo	ok (Mcke	enna) Harry
		Townsend (e	ed.), 1965,	Price Theor	y, Penguin E	Education (Townsend	t		
	5.	Russell, R.F	R. and M.	Wilkinson,	1979, Mic	roeconomie	cs: A Sy	nthesis c	of Moder	n and Neo-
		Classical Th	eory, John	Wiley, Nev	v York. (Rus	sell)				
			~	- · ·						
	6.	Layard, P.R.	G and Wa	llters, A.A.,	1978, Microe	economic 'I	Theory, M	lcGraw H	lill (Layai	ːd).
	7.	Henderson &	&Quandt,	1988, Micro	economic T	heory - A	Mathema	tical App	roach, M	cGraw Hill.
		(Henderson)	•							
	8.	Sen, A. (199	9), Micro	economics :	Theory and A	Application	is, Oxford	l Univers	ity Press,	New
	9.	Microeconor	mic Theo	ry: Basic F	rinciples ar	d Extensi	ons (Upp	per Leve	I Econor	nics Titles)
		Cengage; 11	edition (2	$\frac{1014}{100000000000000000000000000000000$	Compliance	Motrix				
		PO1	PO2	PO3			PO6			
		101	2	105	104	105	100			
CO1		2	2							
CO2		2	2	2						
CO3				3	3	3				
CO 4						3	3			
CO 5		2	2	3			2			
*1: Low,	*1: Low, 2: Medium, 3: High									

		Cou	ırse Name: N	Aacroecono	mics I	I (ECO	412)			
TEACH	ING SCHEME	EXA	MINATION	SCHEME			CR	EDITS A	ALLOTEI)
Theory	: 4 hrs per week	End Sem Intern	ester Examin al Assessmer	ation: 60 ma nt: 40 marks	arks			Theo	ry: 4	
								Tota	ıl: 4	
Course P	Pre-requisites:									
$\begin{array}{c} 1 \\ 1 \\ of m \end{array}$	ent must have comp acroeconomics	pleted the ki	nowledge of	intermediate	macro	economi	ics ar	nd pre-re	quisite app	ications
2 Apti	tude and skills in Q	uantitative a	and mathema	tical Analys	is					
Course O	bjective:									
The polic The Fam	Course will selecticy, and micro-found workhorses of macrilliarity with the mat	vely cover lations. The roeconomic erial covere	recent devel e focus will issues will b ed in texts as	opments in be on substa be applied to mention in N	macroe antive i analyz Macroe	economi issues ar ze econo conomic	ics of nd ap omy-v cs-I is	f fluctuat plication wide topi s assume	tions, open as of basic ics of curre d.	economy, principles. nt interest.
Course O	utcomes: The stude	ents will be	able to		1 1	1		. 11 1		
1 Dem	ionstrate now the ec	onomy wor	ks at differer	it situations	d socia	snort-ru	in as	well as lo	ong-run.	
2 Appl	erstand how the fisc	al policy m	akers and the	e monetary p	olicy n	nakers ir	nterac	ct and als	o they can	able to
⁵ analy	yze the policy decisi	ion.								
4 Impr	rove to make econor	nic policy o	lebate.							
Course C	ontent:									1
UNIT I	Macroeconomics in the Short Run: Fluctuations of Macroeconomic variables, The StylizedUNIT Ifacts. Open Economy Issues: Open economy IS-LM and IS-MP, the Mundell-Flemming10 hrsModel.						d g 10 hrs			
UNIT II	Macroeconomic Exchange rates,	Policy and Crisis mode	Exchange R els and Strate	ate Regimes gic interaction	. Asset ons.	Price V	⁷ olati	lity, Inter	rest rate an	d 10 hrs
UNIT III	Micro-foundatio	ns of Real	and Nomir	nal Rigiditie	es: Det	erminati	on o	of Aggre	gate suppl	y 10 hrs
UNIT IV	Imperfect Inform Rational Expecta	mation, Imp ation Equili	perfect Com brium, Coord	petition and lination Fail	l Asyn ure	nmetric	Infor	mation,	Solving fo	r 10 hrs
UNIT V	Macroeconomics consumption sm Business Cycle I	s in the noothing, a Dynamics-r	Medium Rund foreign cominal and r	un: Ricardi capital, the real.	an Eq firm; 1	uivalenc Tobin's	ce, t q th	he Oper eory of	n econom investmen	y , 10 hrs
UNIT VI	Macro Policy: Credibility, Com debates.	Coordinat mitment de	ion of Fisca evices, Mone	al and Mon tary Transm	etary 1 ission	Policy, 1 Mechani	Rules ism a	s versus nd Targe	Discretion eting, Polic	y 10 hrs
Internal A	Assessment:									•
CIA 1	Unit I, Unit II									
CIA 2	Assignment submi	ission and/c	or presentatio	n						
Text Boo	ks:									
1. I	Romer D. Advanced	l Macroeco	nomics. McG	raw Hill Bo	ok Con	npany: L	Londo	on,		
2. 1	Blanchard Olivier &	Fischer St	anley. <i>Lectur</i>	es on Macro	peconor	mics. Ca	mbri	dge: MIT	Press,	
Referenc	e Books:									
3. 1	Blanchard Olivier. <i>N</i>	Macroecond	mics, Prentic	e Hall						
4. 1	Heijdra B., van der I	Ploeg F. Fo	undations of	Modern Ma	croeco	nomics,	Oxfo	rd Unive	ersity Press	
			PO-CO C	Compliance I	Matrix					
	PO1	PO2	PO3	PO4	PO5	PC	06			
CO1	2	2								
CO2			3	3	2	2				
CO3	2	2	2	1	1					

CO 4			3	3	3		
*1: Low, 2: Med	lium, 3: High						

		Course Name: Trade Theory and Po	olicies (ECO414)	
TEA	CHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED	
The	eory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4	
			Total: 4	
Cours	se Pre-requisites:			
1 S	tudent must have comp	bleted the elementary knowledge of Macro	economics, and Microeconomics	
Cours	e Objective:			
Th tra pr tra im ge ree	ne course examines the ade on income distribued edominantly on a stand ade policies. Course en aplications for economi- meral equilibrium effec- cent issues of WTO and	gains from trade, the determinants of path bution, the relationship between trade, and collection international trade models t inploys the understanding of classical, neo- ic welfare and gain. Course develops the t of trade policies and theory of custom un d regional trade agreements.	terns of international trade and the e and economic growth. The cours o understand the motivations behind b-classical and modern trade theories understanding of analyzing the par- nion. This course is also discussing a	ffects of modern s and its rtial and bout the
Cours	e Outcomes: The stude	ents will be able to		
1	Compare at the level between them in term	of formal analysis, the major models of i s of their assumptions and economic impli	nternational trade and be able to dis	tinguish
2	Develop the basic und	lerstanding of trade theories and its interpr	retation and implication on world eco	onomy
	Analyze the partial a	and general equilibrium effect of trade p	olicies, a) trade policy instruments	such as
3	tariffs, quotas, export duties and (c) the cre common market.	t subsidies, (b) retaliatory measures such eation of regional trading arrangements su	as anti-dumping duties and counter uch as free trade areas, customs uni	ervailing ions and
4	Distinguish and critic evaluate the relevance trade policy measures trade policy.	cally analyze the main arguments for pro- e and realism of arguments for free trade, s on different sections of the community	tection and conversely be able to c taking into account the costs and be and the implications for the formul	critically nefits of ation of
5	Analyze the partial an	d general equilibrium effect of theory of c	ustom union	
6	Analyze the effects of	Immiserizing growth and intra-industry to	rade	
7	Identify major recent negotiations and region	developments in the world trading system onal trading arrangements.	n, and be able to critically analyse the	ne WTO
8	Analyze the country's	gain in free, restricted and no trade situat	ions	
9	measure the economic	c welfare and gain of participating internat	ional trade	
10	Measure the trade gain	n through offer curves, trade indifference	curve and production possibility curv	/es
Cours	e Content:			
UNIT	Classical trade th gains from trade, Free trade is bette better than free trade	eories on comparative advantage, Refine , Opportunity cost. Incomplete specializa er than no trade, Free trade is better than ade	ments of Comparative Advantage, ation. Theory of opportunity Cost. restricted trade, restricted trade is	10 hrs
UNIT	Heckscher-Ohlin II Samuelson theo empirical approa	n factor endowment model. Factor pric orem. Specific Factor Model, terms of aches and paradox	e equalization Theorem. Stolper- trade and offer curve analysis,	10 hrs
UNIT	Factor intensity CII Competition: Imp theorem, Immiser	reversals and pattern of trade, Intra an perfect competition, homogeneity: Krugm izing growth; endogenous growth with ho	ad inter industry trade. Imperfect an, Trade and growth; Rybczynski mogeneity and heterogeneity.	10 hrs

UNIT IV	New Trade Theor	ies: Vernon	, Posner, Kru	ugman, Krav	vis				10 hrs
UNIT V	General and partial equilibrium effects of tariffs on welfare. Arguments for protection, Political economy of trade agreements and upcoming issues of protections, Effective rate of protection. Non tariff barriers: Quota, Voluntary Export Restraints, Countervailing duties and export subsidies, dumping. Effects of tariffs on factor prices.							10 hrs	
UNIT VI	JNIT VI General equilibrium effect of custom union Stages of integration Regional trade groupings, GATT and WTO, Regional trade blocks							10 hrs	
Internal As	ssessment:								
CIA 1	Unit I, Unit II								
CIA 2	Assignment submi	ssion and/o	r presentatio	n					
Text Book	s:								
1. D	ominick Salvatore	, Internatio	onal Econon	nics: Trade	and Finar	nce, Johr	n Wiley I	International	Student
E	dition, 10th edition	, 2011.							
Reference	Books:	·•	1.5.	1 oth T 11.1	T • 1(1 . 1 1	1 1 . 1 .		. 11 '
2. Pi	ugel, T.A.(2008), I	Internationa	I Economics	13^{m} Edition	n, Tata Mc	graw hill	publishir	ng Co, New I	Jelhi.
3. B	hagwati, J. N., A. F UP,NewDelhi, Sec	ond Editior	and T.N. Srii i.	nivasan (199	8), Lecture	es on Inte	rnational	Trade,	
4. K	rugman, P.A. and M	M Obstfeld	(2003), Inter	national Eco	onomics: T	heory an	d Policy,	Sixth Ed.	
	-		PO-CO C	Compliance I	Matrix				
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	2	2							
CO2	3	3		1	1				
CO3			2	2					
CO 4		2	2	2	2				
CO5		2		2					
CO6		2		2					
CO7	2	2		2					
CO8	2	2	1	1					
CO9			2	2					
CO 10			2	2					
*1: Low, 2	: Medium, 3: High								

Course Name: Development Economics (ECO501)						
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 Pro	e-requisites:	lated the knowledge of Macrosconomics	and Economic Growth Theories			
1 Stude	in must have comp	bleted the knowledge of Macroeconomics,	and Economic Growth Theories			
This c	course familiarizes	the students with emergence of the field	of development economics in the co	ontext of		
intern under	ational events. It development and p	aims to focus on various development pressing issues of poverty and inequality, w	t theories and approaches in deali with the concepts and measurement.	ng with		
Course Ou	tcomes: The stude					
1 Ana whi	alyze the shift of fo ich is a multi-dime	ocus from economic growth as a single dir nsional concept.	nensional concept to economic deve	lopment		
2 Der	monstrate familiari	ty with some central themes and issues of	economic development.			
3 grov and	wth theories, the n population issues	neasurement of inequality, significance of facing the world, international trade, and i	agriculture in development, major developm agriculture in developing countries, importance of foreign aid.	poverty		
4 Exa	amine the factors nomies.	responsible for perpetuation of the	conditions of underdevelopment	in same		
5 Dif	ferentiate different	measures of poverty and inequality and p	ros and cons of different measureme	nt.		
6 Rev	view the policy imp	plications of these key development econo	mic theories			
7 Crit dev	tically analyze how elopment policies	v the theory of development economics in in varying local and global contexts	npacts upon practical implementatio	n macro		
Course Co	ntent:					
UNIT I	Concept of Deve differences. Inte Colonialism and	elopment – From GDP per capita to holist ernational poverty line and estimates o dependency theories.	ic indicators.PPP and international f poor. Factors of development.	10 hrs		
UNIT II	Schumpeter –Inn as the 'engine of analysis of struct	novation, enterprise and process of 'creation of growth'. Nurkse and Prebisch argum tural change.	ive destruction'. Rejection of trade ents. Structural changes: Kuznets	10 hrs		
UNIT III	Concept and Me Ratio, FGT Inde Issues in compose curve hypothesis	easures of Poverty-, Pareto Distribution, x. Concept and Measures of Inequality – 1 site Indices, Problems of Aggregation. Ine s, Inequality and growth –Interrelationship	Head- Count Ratio, Income Gap Lorenz Curve and Gini coefficient, quality and Growth- the inverted U s.	10 hrs		
UNIT IV	Role of capital Kuznet's econom	formation – vicious circle arguments, nic history analysis of characteristics of de	Rostow's stages of development, evelopment.	10 hrs		
UNIT V	Capital formatio Rosenstein –Roo capital and Tech	n and allocation of investment- Balanced dan and Hirschman. Denison's growth act nology.	1 and unbalanced growth theories. counting – Contribution of labour,	10 hrs		
UNIT VI	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					
Internal As	ssessment:					
CIA 1	Unit I, Unit II					
CIA 2	Assignment submi	ission and/or presentation				
1. AP T	s. Thirlwall: Growth :	and Development_ELBS				
1. 1.1.1		and Development, LLDD.				

2. D Ray:	Development H	Economics, (OUP.						
Reference B	looks:								
3. S. Ghata	ak: Introduction	n to Develop	ment Econ	omics, Rutle	dge.				
4. Kaushik	Basu: Analyti	cal Develop	ment Econo	omics The Le	ess Develop	ed Econom	y Revisited,	OUP.	
5. D Lal; T	The Poverty of	Developmer	nt Economie	cs, OUP.					
6. G. Meie	r: Leading issu	ie in Econon	nic Develop	oment (4 th Ed	ition),OUP				
7. Meier an	nd Rauch: Lead	ding Issues i	n Economic	c Developme	nt (8 th Edi	tion),OUP			
			PO-CC	O Compliance	e Matrix				
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1		3	2	2					
CO2	2	2							
CO3	3	3							
CO 4			2	2					
CO5	2	2	1						-
CO6	CO6 3 2 2								
CO7	CO7 2 3 2 2								
*1: Low, 2: 1	Medium, 3: Hi	gh							

		Course Name: Economic Growth The	pories (ECO 502)
T	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
1	Γheory: 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 the knowledge of Macroeconomics	
Co	urse Objective:		
	This course offers an in shed light both on the p differences across count and Pasinetti's work wi questions addressed inc can explain economic s Pathway and homewor knowledge of endogene model.	troduction to the theories and models of econocess of economic growth at the world l tries. Topics covered include income distrill be mentioned, and the standard economi lude: Why are some countries rich and som uccess and failures? This course is aimed at k questions will typically involve solvin ous growth models of AK, Lucas and Ror	evel and on sources of income and growth bution and economic growth, where Kaldor c growth model of Solow. Macroeconomic ne poor? What differences among countries at Economics students on the Mathematical g problems etc. Course also employs the ner and its interpretation within theoretical
Co	urse Outcomes: The stude	ents will be able to	
1	Demonstrate a deep ana	lytical understanding of exogenous and enc	logenous growth models
2	half century.	sights into the economic growth process that	t economists have gleaned over the past
3	Solve and manipulate a	variety of simple models in economic grow	rth.
4	Identify applications and	d limitations of the models learned.	
5	Develop an understandi	ng of the evolution of growth models;	
6	Display a good grasp of technology, human capi	those factors that contribute to or inhibit ed tal, and institutions;	conomic growth (population, capital,
7	Develop the understand	ing of Solow growth model and its applicat	ions in real life
8	Understand the conditio	nal and unconditional convergence in grow	th models
9	Develop the understand	ing of role of money, wealth, saving, physic	cal capital, income distribution, and role of

initial per capita, in economic growth.						
Course Content:						
UNIT I Problem of Economic Growth- Problem of Economic Growth and the General Solution; Growth Equilibrium; Harrod –Domar Model of Economic Growth	10 hrs					
UNIT II Ms. Joan Robinson and Concept of Golden Age and Golden Rule of Accumulation; Models of Optimum Economic Growth- Keynes-Ramsey Rule, Cass-Koopmans Model	10 hrs					
UNIT III Neo-Classical Models of Growth: Growth model of R.M. Solow, Instability & Convergence debate,	10 hrs					
Neo-Keynesian Models of Growth & Distribution- Kaldor and L. PasinettiUNIT IVTechnology and Growth- Hicks, Harrod and Solow- Neutrality of Technical Change,Embodied and Dis-embodied Technical Change,	10 hrs					
UNIT V Growth Accounting. Money and Growth- James Tobin and H.G. Johnson;	l0 hrs					
UNIT VI Endogenous Growth Models- AK Models, Lucas Model of Human Capital, Romer Model of Endogenous Innovation.	10 hrs					
Internal Assessment:						
CIA 1 Unit I, Unit II						
CIA 2 Assignment submission and/or presentation						
Text 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 Comp	pany					
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						
POI PO2 PO3 PO4 PO5 PO6						
CO4 3 3 CO5 2 2						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
*1: Low, 2: Medium, 3: High						

Course Nan	ne: International Macroeconomics and I	International Finance (ECO502)
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-requis	ites:	
1 Student must	have completed the knowledge of Macroeconomics, and International Trade Theory and I	Policy
Course Objective:		
This course economic pri roles of balar flexible exch monetary que	links the fields of macro-economics and finance in open economy. It provides cover nciples that underlie the operation of macroeconomics tools and other financial institution acce of payment adjustment mechanism in monetary, portfolio, extended portfolio, with finance rate system are examined. The course aims at providing students with the means to extensions and institutions. It is not a course designed to further technical expertise in the insti-	erage of ons. The xed and analyse ruments
used in finar	cial markets but covering the theories of uncovered interest arbitrage, swapping, hedg	ing and
speculations. related to into understandin such as coord system, dom and expectati	It's also targeting the applications of forward, future, open, and spot market operations. Ternal and external equilibrium of the economy will be discussed. The course has aim to tag of international monetary markets and its fluctuations with macroeconomic policy delination of fiscal and monetary policy, optimum currency area, fixed and flexible exchangestic pricing, central and commercial bank actions, aggregate demand and supply, interops.	Theories arget the ecisions nge rate rest rate
Course Outcomes	The students will be able to	
1 Develop the balance of	e understanding of macroeconomic policy decisions and its impact on open economy and payment adjustments.	
2 Develop th rate system	e Understanding of aggregate demand and supply application with fixed and flexible exch to discover the open market fluctuations.	lange
3 Demonstra coordinatio	te the ability to adjust internal and external disequilibrium with fiscal and monetary policy n	ý
4 Develop th	e understanding of financial market of swap, hedging, future, forward, open, and speculat	ions
5 Understand	how foreign trade multiplier works and creates repercussion effects in open economy	•
6 Understand	I the international financial institution, dollarization and reserve currency issues and their	impact
On domestr	c and open economy.	
/ Understand	ing of portiono and asset market with fixed and nexible exchange rate system	ocisions
8 of a countr	v	
9 Understan	d the quantitative applications and derivations of theories in practice	
Course Content:		
UNIT I Interr under	ational Macroeconomics- Prices and Output in an open economy. Long-run adjustment anisms. Automatic adjustment – foreign trade multipliers. Fiscal and monetary policy flexible exchanges. Interdependence and Multi-lateral co-ordination.	10 hrs
UNIT II Balar adjus	ce of payments. Current account and fiscal deficit. Capital account. Disequilibrium and ment. Elasticity conditions for adjustment in trade account.	10 hrs
UNIT III Excha excha	ncy markets transactions. Currency standards, convertibility and reserve currencies. ange Rates. Purchasing power parity. Interest rate parity. Nominal, real and effective nge rates. Fixed and flexible exchange rates.	10 hrs
UNIT III mone Flemi	ange controls. Short-run and long run capital movements. Hedging, speculation and hot y transfers under capital account convertibility. Implication of capital flows—Mundell- ng Model, currency crisis and contagion.	10 hrs
UNIT IV Mone curren	y and the role of banks. EU and monetary integration. Dollarization. Optimum ney areas, Monetary,	10 hrs
UNIT VI Bank interr	ng and foreign exchange regulations. The International Monetary Fund. Reforming the ational institutional architecture. China and reserve currency issues.	10 hrs
Internal Assessme	nt:	
CIA 1 Unit I,	Unit II	
CIA 2 Assign	nent submission and/or presentation	
1 Deministration	Colustons International Foonamian Trade and Einstein Ista Wilson International	Student
1. Dominic Edition	Oth edition, 2011.	Student
Reference Books		
1. Bhagwat	, J. N., A. Panagariya and T.N.Srinivasan(1998), Lectures on International Trade, OU	P, New

Del	hi, Second Edi	tion.								
2. Kru	2. Krugman, P.A. and M Obstfeld (2003), International Economics: Theory and Policy, Sixth Ed.									
			PO-CO	O Complianc	e Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6				
CO1	2	2								
CO2	2	3								
CO3	2	3	2	2						
CO 4	2	2								
CO5	2	3		2						
CO6	2	3	2	2						
CO7	3	3								
CO8	2	2	2	2						
CO9	CO9 3 3 2 2									
*1: Low, 2: 1	Medium, 3: Hi	gh								

		Course Name: Public Economic	s (ECO503)					
TEA	CHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED					
Th	eory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 3					
			Total: 3					
Cour	se Pre-requisites:							
1 \$	Student must have comp	bleted the knowledge of Macroeconomics,	and Microeconomics					
Cours	Course Objective:							
]	The main goal of the co	ourse is to provide students with the neces	sary skills to formulate public policies wit					
а	in understanding of the	ir economic implications. Topics covered	include welfare economics, market failure					
f	iscal tools (budget, taxe	es, expenditure, public debt, and fiscal fede	ralism), regulations, and political economy					
Cours	e Outcomes: The stude	ents will be able to						
1	Learn the basic tools,	concepts and models necessary for compet	tence in key topics in Public Economics.					
2	Understand the role th	hat prices play in a market economy, both a	as a method of allocating resources in the					
2	private sector, and as	a guide for public policy.						
3	Understand the twin o	bjectives of efficiency and equity, and exp	plain why there is often a trade-off between					
5	these two objectives.							
4	Understand the conne	ction between relative prices and notions of	of efficiency.					
	Discuss the use of tax	es, public expenditures, public debt, and fe	ederal finances for promoting socially					
5	efficient resource allo	cation and a desirable income distribution.	Also, go through rigorous theories related					
	to these fiscal tools.							
6	Analyze policy challe challenges as well as	enges facing governments around the world obstacles in implementing them.	d and learn about potential solutions to thes					
7	Learn a set of perspec	tives into the economic activities of the go	vernment sector that will help them becom					
/	enlightened participar	nts - engaged citizens, voters, politicians, and	nd/or civil servants - in society.					
8	Discuss critically key	issues in public economics, informed by re-	ecent research.					
9	Present a coherent arg	gument orally and in writing on topics in pu	ablic economics.					
Cours	se Content:							
	Market Failure a	and the rationale for Government Interven	tion. Alternative Classifications of					
	Public Goods, C	ptimal Provision of Public Goods, Private	Provision of Public Goods, Nash-					
UNI	Γ I Cournot Solutio	n, Preference Revelation, Samuelson and	Lindahl Equilibrium, Club Goods 10 hr					
	Model. External	ities: Positive and Negative, Externalities	and Social Costs. Pigouvian Tax,					
	Coase Theorem.							
UNI	Γ II Fiscal Policies	and instruments: Taxation: Efficiency,	Equity, Cost of Collection and 10 hr					

	Compliance; T	rade-off bet	ween Effici	ency and ec	uity; Effec	t of Taxes	on labor supply and]		
	Savings-Incom	e, commodi	ty and weal	th tax.	1 7					
LINUT III	Laffer's Curve,	Direct and	indirect tax	es. Tax Refo	orms in Indi	ia. Non-Ta	x Fiscal Instruments:	10 hm		
UNIT III	Profit and Divid	dends, Rents	s and Royal	ties, Non-re	venue Effec	ts of Non-	Tax Instruments	10 ms		
UNIT IV	Public Debt: Equivalence, D Accounts, Dyn Indian Budget I	Public Del ebt Manage amic Nexus Deficits: Un	bt and Ex ment Techr between T ion and Stat	ternal Deb niques. Budg Iwo Accour tes.	t, Theories get and Fisc nts, Budget	s of Publical Policy: Deficits, '	ic Debt, Ricardian Capital and Revenue Theories of Deficits,	10 hrs		
UNIT V	Public Expendi Efficiency and	ture: Theori Equity Trad	ies of Public e off, Trans	e expenditur fers and Sub	e. Leviatha osidies, Fina	n Hypothe ancing of S	sis, Niskanen Model, locial Programs.	10 hrs		
	Fiscal Federalism: Principles Determining Federal Division of Revenue and expenditure,									
UNIT VI	Vertical and H	Iorizontal I	mbalances,	Transfer N	Aechanism	in India,	Role of Finance &			
	Planning Commissions, Sharing of Taxes, Non-tax Revenues and Grants.									
Internal As	ssessment:									
CIA 1	Unit I, Unit II									
CIA 2	CIA 2 Assignment submission and/or presentation									
Text Book	s:									
1. N	Iusgrave R.A. and	d P.B. Musg	grave. Theor	ry and Pract	ice of Publi	ic Finance	Tata McGraw Hills			
Reference	Books:									
2. Jo	onathan Gruber. I	Public Finar	ice and Pub	olic Policy, V	Worth Publi	shers				
3. Jo	ohn Leach. A cou	rse in Publi	c Economic	s , Cambridg	ge Universi	ty Press				
4. Je	ean Hindriks and	Gareth D. N	Ayles, Intern	mediate Pub	lic Econom	<i>ics</i> , MIT P	ress			
5. G	lupta Janak Raj. <i>I</i>	Public Econ	omics in Ind	lia: Theory d	and Practic	e, Atlantic	Publisher			
6. B	agchi Amaresh. I	Readings in	Public Find	nce, Oxford	l University	Press				
			PO-CO	Complianc	e Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6				
CO1	2	2								
CO2	2	3								
CO3	2	3	2	2						
CO 4	2	2			1	1				
CO5 2 3 1 1										
CO6	2	3	2	2	2	2				
CO7	2	2			2	2				
CO8	2	2								
CO9		3			3	3				
*1: Low, 2	: Medium, 3: Hig	gh								

		Course Name: Dissertation II	(ECO511)						
TI	EACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED						
Т	heory: 14 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	`14						
			Total: 14						
Co	urse Pre-requisites:								
1	Student must have com	mpleted the knowledge of Macroecono	omics, Microeconomics, Econometrics and						
1	Dissertation I								
Cou	irse Objective:								
	The purpose of the Diss	ertation II is to encourage students to unde	ertake independent economic research, use						
	analytical application to analyse data and interpretation to foster research-related skills, which should benefit								
	future study and employ	ment.							

Cours	e O	utcome	s: The stude	nts will be	able to							
1	1 Analyse and interpret the collected data											
2	Ap	ply the	e economic m	nodels, theo	ories and too	ls of resear	ch to proces	s, code , j	present a	nd interp	ret the	data
3	Us	se statis	tical software	e to analyz	e the data							
4	Pre	esent re	esearch findir	ngs and arg	ument in a s	uitably stru	ctured and s	sequenced	l thesis th	nat confo	rms to	
4	pro	otocols	of academic	presentatio	on and resear	rch practice						
5	D	emonst	rate the abili	ty to critiqu	ue literature	and conduc	t analyses a	t a Master	rs level.			
Asses	sme	nt:										
CIA	1	Presei	ntation of Pro	gress of R	esearch Woi	:k						20
CIA 2	IA 2 Presentation of Data Analysis Work 20											
		The st	tudents are re	equired to s	submit their	dissertation	report as p	er guideli	nes prese	cribed by	the	
		department at the end of the specified period. The students are also required to attend viva								viva		
ESE		voce e	examination of	during the	end of the Se	emester IV	of the progr	amme.				60
LDL		Out o	f total 60 ma	rks in this	Master's the	esis, 30 ma	rks are of n	naster the	sis, to be	assessed	l by	00
		the De	epartment (b	y constituti	ng a panel c	of examiner	s including	internal &	z externa	l examin	ers)	
		and re	est 30 marks a	are of viva	voce to be a	warded by	internal & e	xternal ex	caminers.			
					PO-CO	Compliance	e Matrix	-	-			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9)
CO1					2	2	2	2	2	2		
CO2					2	2	2	2	2	2	1	
CO3	CO3 3 3 3 3											
CO 4									2	2		
CO5	CO5 2 2 2											
*1: Lo	ow, i	2: Med	ium, 3: High									

		Cou	urse Name: Economics of Human Develo	opment (ECO 513)				
T	EACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED				
J	Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4				
				Total: 4				
Co	urse Pre	e-requisites:						
1	1 Must possess knowledge of welfare economics and Development Economics							
Cou	Course Objective:							
	This c develo	ourse aims to prov pment interpretation	vide basic knowledge and better understand ion. It focuses on 'people-oriented' view o	ding of the critical issues involved in f development.	n human			
Cou	arse Out	comes: The stude	ents will be able to					
1	Appre	ciate the importan	ce of human development in development	theory.				
2	Assess	development as '	'the expansion of human capabilities' in re	search application				
3	Relate freedo	the various diments to growth and c	nsions of human development like Social c levelopment.	apital, inclusion, empowerment and				
4	To rela	ate the developme	nt phenomenon in India in context of hum	an development				
Cou	urse Cor	ntent:						
UN	UNIT I Concepts and Dimensions of Human Development, Ends and Means of Development, Multi- faceted Nature of Development, Rawls: A Critique of Utilitarianism, 10 hrs							
UN	UNIT II Sen: The Capability Approach, Dimensions of Development, Human Rights and Human Development, Cultural Diversity and Human Development							
UN	III TIV	Measurement As	spect: Refinement of Human Developme	nt Index, Measuring Deprivation	10 hrs			

UNIT IV International content of public investment in education, health care and environmental sustainability, Dynamic linkage between human development and growth. 10 hrs UNIT V Other dimensions of human development: Social capital, inclusion, empowerment and freedom 10 hrs UNIT V Other dimensions of human development: Social capital, inclusion, empowerment and NGOs, Studies specifically related to Indian economy showing linkage between human development and economic growth. 10 hrs Internal Assessment: Internal Assessment: 10 hrs CIA 2 Assignment submission and/or presentation 10 hrs Text Books: Internal Assessment: 10 hrs 1. Sen, Amartya K., Choice, Welfare and Measurement, Oxford, Basil Blackwell, 1982 10 hrs 2. Sen, Amartya, Development as Freedom, Oxford, Oxford University Press, 1999 10 hrs Reference Books: 3. Nussbaum, Martha, and Sen, Amartya. The Quality of Life. Oxford: Clarendon Press, 1993 3. Nussbaum, Martha, and Sen, Amartya. The Quality of Life. Oxford: Clarendon Press, 1993 10 hrs 4. TapomoyDeb "Human Resource Development Ane Books India, NewDelhi 2006 5. 5. John P. Wilson, Kogan"Human Resource Development", Page, London. 2008 6. 6. Ranis, G, F. Stewart and Emma Samman "Human Development: Beyond the Human Development Index," Journal of Human Development, 7(3), November 2006, pp.323-358		adjusted for G	roup Di	sparities, S	Secluded (isolated)	and Pr	oximate	Illiteracy,			
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	CO4	3	3			2	$\frac{2}{2}$					
*1. Low 2. Medium 3. High	*1. Low ?	CO4 5 5 2 2 2										

	Course Nan	ne: International Macroeconomics and In	ternational Finance (ECO514)
TEAC	CHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
The	ory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4
			Total: 4
Course	e Pre-requisites:		
1 St	tudent must have comp	pleted the knowledge of Macroeconomics, a	nd International Trade Theory and Policy
Course	e Objective:		
Tl ec ro fle	his course links the conomic principles that oles of balance of pays exible exchange rate s	fields of macro-economics and finance in at underlie the operation of macroeconomics ment adjustment mechanism in monetary, p system are examined. The course aims at pro-	a open economy. It provides coverage of s tools and other financial institutions. The ortfolio, extended portfolio, with fixed and oviding students with the means to analyse

	monet	ary qu	estions and ir	nstitutions.	It is not a co	ourse designe	ed to furt	her technio	cal expert	ise in the in	struments
	used in financial markets but covering the theories of uncovered interest arbitrage, swapping, hedging and speculations. It's also targeting the applications of forward, future, open, and spot market operations. Theories										
	speculations. It's also targeting the applications of forward, future, open, and spot market operations. Theories related to internal and external equilibrium of the economy will be discussed. The course has aim to target the understanding of international monotory markets and its fluctuations with macroscopomic policy decisions.										
	related to internal and external equilibrium of the economy will be discussed. The course has aim to target the understanding of international monetary markets and its fluctuations with macroeconomic policy decisions such as coordination of fiscal and monetary policy, optimum currency area, fixed and flavible exchange rate										
	unders	tandin	ig of internat	tional mon	etary marke	ts and its fl	uctuation	s with ma	croecono	mic policy	decisions
	such as coordination of fiscal and monetary policy, optimum currency area, fixed and flexible exchange rate system, domestic pricing, central and commercial bank actions, aggregate demand and supply, interest rate										
	system	n, dom	estic pricing,	, central ai	nd commerc	al bank act	ions, agg	regate der	nand and	l supply, int	erest rate
	and ex	pectat	ions.		1.1						
Cour	se Out	comes	: The studen	its will be a	ible to			•. •			
1	Dev bala	elop tl nce of	he understand payment adj	ling of mac ustments.	croeconomic	policy decis	sions and	its impact	on open	economy an	d
2	Dev	elop tl	he Understand	ding of age	gregate dema	and and supp	ly application	ation with	fixed and	l flexible ex	change
2	rate system to discover the open market fluctuations.										•
Demonstrate the ability to adjust internal and external disequilibrium with fiscal and monetary policy										су	
coordination										-	
4	Dev	elop tl	he understand	ling of fina	ncial marke	t of swap, he	dging, fu	ture, forwa	ard, open	, and specul	ations
5	Un	lerstar	nd how foreig	gn trade mu	ltiplier worl	ks and create	s repercu	ssion effect	cts in ope	n economy	
6	Und	erstan	d the internat	ional finan	cial instituti	on, dollariza	tion and	reserve cu	rrency iss	ues and thei	r impact
6	on d	omest	ic and open e	economy.							1
7	Und	erstan	ding of portfo	olio and as	set market w	vith fixed and	l flexible	exchange	rate syste	em	
0	Abi	ity to	use balance o	of payment	adjustment	mechanism i	n absorpt	tion, deval	uation an	d monetary	decisions
8	of a	count	ry	1.	5		1			•	
9	Un	lerstar	nd the quantit	ative appli	cations and	derivations o	of theories	s in practic	e		
Cour	se Cor	tent:	•	**				•			
		Inter	national Mac	roeconomi	cs- Prices ar	nd Output in	an open	economy.	Long-run	adjustment	
UNI	JNIT I mechanisms. Automatic adjustment – foreign trade multipliers. Fiscal and monetary policy 10 hrs									10 hrs	
	under flexible exchanges. Interdependence and Multi-lateral co-ordination.										
	Balance of payments. Current account and fiscal deficit. Capital account. Disequilibrium and										
UNI	1 11	adjus	stment. Elasti	city condit	ions for adju	stment in tra	ide accou	nt.	1		10 hrs
		Curr	ency markets	s transactio	ons. Currenc	cy standards	, convert	ibility and	l reserve	currencies.	
UNI	ΓIII	SWA	P, Hedging,	speculation	on, Forward	l Markets a	nd hot i	noney tra	nsfers u	nder capital	10 hrs
		acco	unt convertibi	ility.							
		Purc	hasing power	r parity. In	nterest rate	parity. Nom	inal, real	and effect	tive excl	nange rates.	
UNI	T IV	Fixed	d and flexib	le exchang	ge rates. E	xchange cor	ntrols. Sł	nort-run a	nd long	run capital	10 hrs
		move	ements.								
LINI	гv	Impl	ication of cap	pital flows	-Mundell-	Fleming Mo	del, SWA	AN Model	, currenc	y crisis and	10 hrs
UNI	I V	conta	agion.								10 11 5
		Mon	ey and the	role of ba	anks.EU an	d monetary	integrati	ion. Dolla	rization.	Optimum	
LINI	тVI	curre	ency areas, N	Monetary,	banking an	d foreign e	xchange	regulation	s. The I	nternational	10 hrs
0111	1 11	Mon	etary Fund. C	China and re	eserve curre	ncy issues.					10 1113
Inter	nal As	sessm	ent:								
CIA	1	Unit I,	Unit II								
CIA	2	Assign	ment submis	sion and/or	r presentatio	n					
Text	Books	:									
	2. Do	ominic	k Salvatore,	Internatio	onal Econor	nics: Trade	and Fina	ance, Johr	Wiley	Internationa	l Student
	Ec	lition,	10th edition,	2011.					•		
Refe	erence	Books	3:								
	3. Bł	nagwa	ti, J. N., A. I	Panagariya	and T.N.Sr	inivasan(199	98), Lecti	ires on In	ternation	al Trade, O	UP, New
	De	elhi, So	econd Edition	1.							
4	4. Kı	ugma	n, P.A. and M	Obstfeld	(2003), Inter	national Eco	onomics:	Theory an	d Policy,	Sixth Ed.	
	_				PO-CO C	Compliance M	Matrix				
	_		PO1	PO2	PO3	PO4	PO5	PO6			
COI			2	2							
CO2		2 3									

CO3	2	3	2	2				
CO 4	2	2						
CO5	2	3		2				
CO6	2	3	2	2				
CO7	3	3						
CO8	2	2	2	2				
CO9			3	3	2	2		
*1: Low, 2: Med	lium, 3: High							

AECC/SECC Courses

	С	ourse Name: Ma	thematical	Methods in Eco	onomics (ECO 40	13)			
T	EACHING SCHEME	EXAMINA	TION SCI	HEME	C	REDITS	S ALLOTED			
]	Theory: 4 hrs per week	End Semester I Internal Ass	Examination essment: 40	n: 60 marks) marks		The	eory: 4			
						To	otal: 4			
Co	urse Pre-requisites:									
1	Student must have comp	pleted Bachelor's	Degree							
2	Aptitude and skills in Quantitative Analysis									
3	Must possess knowledge of elementary mathematics									
Cou	arse Objective:									
	The course covers a w	vide range of ma	thematical	methods in app	olied econ	omics. S	Specifically, it	t aims to		
	provide the basics of ma	athematical metho	ods and the	range of mathen	natical tec	hniques	that are used t	o explain		
	various applied econom	nics problems. Al	so the cour	se attempt to pr	rovide the	insight	of some adva	nce level		
	mathematical tools in un	nderstanding and t	formulating	various econom	ic theories	s.				
Cou	urse Outcomes: The stude	ents will be able to	C							
1	Familiar with a wide range of mathematical tools that are used to explain various economic theories.									
2	Successfully demonstrate the economic meaning of mathematical models.									
3	Optimize the 1	resources and	thus	understand	how	the	economic	policy		

	maker	s make decision.								
4	Demo	nstrate most of the	theories ir	economics	precisely a	nd strategic	ally.			
5	Under	stand the economi	c dynamics	3.						
Cou	rse Cor	itent:								
UN	IT I	Concept of a fu Convex and con derivatives.	inction; Li ncave func	mits, contin tions, Diffe	uity and di rentiation- l	fferentiabil Partial and	lity of a r total; Inte	eal value erpretation	d function; n of partial	10 hrs
UN	IT II	Optimization w optimization in s Economic variat	ith single simple ecor bles	and multive nomic probl	variable fur ems. Integra	nctions- U ation-simpl	nconstrain e and Defi	ed and nite, App	constrained plications to	10 hrs
UNIT IIIConcept 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.10 h							10 hrs			
UNIT IV Difference equations - Solution of first order and second order difference equations; 10 hrs							10 hrs			
UNIT VLinear programming — Basic concept; Formulation of a linear programming problem — Its structure and variables; Nature of feasible, basic and optimal solution; Solution of simple linear programming problems through graphical and simplex method; Concept of duality and statement of duality theorems; Formulation of the Dual and its interpretation.10 h							10 hrs			
UN	IT VI	Game Theory: Dilemma, mixed economics.	an introd l strategy l	uction. Doi Nash Equili	ninated and brium; Sado	d Dominat fle point so	nt Strateg olution; Si	ies: The mple app	Prisoner's lications to	10 hrs
Inte	rnal As	sessment:								
CL	A1 1	Unit I, Unit II								
CL	A 2 /	Assignment submi	ission and/o	or presentati	on					
Tex	t Books	:	1 77 . 77		- 1					
	$\frac{1}{2}$	liang, Alpha, C. a	nd Kevin V	anwright.	Fundamenta	al methods	of Mathem	atical		
Rei	terence	Books:	litian MaC							
	$\frac{1}{2}$ $\frac{EC}{K_1}$	ut Sydsaeter and	Peter I Har	mond Mat	thematics fo	r Economi	- Analysis	Pearson	Education Ir	dia
	3. Ca	rl P Simon and L	awrence Bl	ume. Mathe	matics for F	Conomists.	W. W. No	orton & C	Company.	iuiu.
	4. M	ike Rosser. Basic	Mathemati	cs for Econo	mists, Rout	ledge			• J ·	
	5. Er	ic Rasmusen. Gar	nes and Inf	ormations, I	Basil Blackv	vell.				
	6. M	artin, J Osborne. A	An Introduc	ction to Gam	e Theory, C	Oxford Univ	versity Pres	SS		
				PO-CO	Compliance	e Matrix				
		PO1	PO2	PO3	PO4	PO5	PO6			
CO	2	2	2	2	2					
	2			3	3	2	2			
	14			2	2	2	2			
CO 1 Z Z Z Z Z CO 5 3 2 3										
*1:	Low, 2:	Medium, 3: High	l					I		

		Course Name: Statistical Methods in Ec	conomics (ECO 404)			
TEAG	CHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED			
The	ory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4			
			Total: 4			
Course	e Pre-requisites:					
1 St	tudent must have comp	bleted Bachelor's Degree				
2 A	ptitude and skills in Q	uantitative Analysis				
3 M	lust possess knowledge	e of elementary statistics				
Course	Objective:					
T	he Course deals with s	simple tools and techniques, which will he	elp a student in data collection, prese	entation,		
an	halysis and drawing in	ferences about various statistical hypothe	ses. The students are expected to for	ormulate		
pr	roblems in economic th	eory and learn simple solutions with one of the solutions wither without with one of the solutions without wither without	or two variables.			
	e Outcomes: The stude	ents will be able to				
	ompare and contrast va	arious types of data.	······································			
2 56	elect and estimate mea	sures of central tendency and dispersion ba	ased on specific economic problems.			
3 Aj	pply various sampling	methods based on the context and need of	the study.			
4 A	pply the rules of proba	bility theory and able to identify which ap	proach is used in a given scenario.			
5 U	nderstand the concept	of Bayes theorem with its economic applie	cations.			
6 U	se correlation analysis	on different types of data sets to find the o	legree of association.			
7 Es	stimate cause and effect	ct relationship through regression analysis	-			
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.						
Course	e Content:	· · ·				
UNIT	Typical data sets Series and Panel I Graphical repres methods: Census methods	s arising in economics, Qualitative, Quant data. Major sources of data sets: Census, sentations, Measures of Central tendency, s, simple random sample with and without	itative, Income, Expenditure, Time Government agencies, e-resources, Measures of dispersion. Sampling ut replacement, stratified sampling	10 hrs		
UNIT	II Probability theo	bry I: Laws of addition and multipli	cation; Independence of events,	10 hrs		
UNIT	Probability theo III Probability dens	ory II: Random variable; Discrete and ity functions; Binomial, Poisson and No	d Continuous random variables; rmal distributions, their mean and	10 hrs		
UNIT	IV Correlation: Pea	rison's product moment and Spearman's	rank correlation-their properties;	10 hrs		
UNIT	V Estimation: Con	cept of an estimator and its sampling dist	tribution: Desirable properties of a	10 hrs		
UNIT	VI Testing of stati hypothesis; Typ significance; Hy standard normal,	istical hypotheses – Formulation of th e 1 and Type 2 errors, Goodness of fit; ypothesis testing for means, variance, , t, Chi-square and F tests.	e problem; Null and alternative Confidence intervals and level of regression coefficients based on	10 hrs		
Interna	al Assessment:					
CIA 1	Unit I, Unit II					
CIA 2	Assignment submit	ission and/or presentation				
Text B	ooks: Lee. C. F., Lee. J. C	and Lee, A. C. Statistics for Business and	1 Financial Economics. (2000), Worl	d		
	Scientific, Singapor	e.				
2. Newbold, P., Carlson, W. L. & Thorne B. M. Statistics for Business and Economics, Pearson						
Refere	ence Books:					
1.	Black, Ken. Busines	ss 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		
CO1	2	2	1	1				
CO2		3	2	2				
CO3		3	2	2	2	2		
CO 4			3	3	2	2		
CO 5	2	3	1	1				
CO 6		3	3	3				
CO 7			3	3				
CO 8			3	3				
CO 9			3	3	2	2		
*1: Low, 2: Med	lium, 3: High							

			Course Name: Econometrics (ECO 413)				
TI	EACHI	NG SCHEME	EXAMINATION SCHEME CREDIT	S ALLOTED			
ſ	Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	eory: 4			
			Te	otal: 4			
Co	urse Pre	-requisites:					
1	Studer	it must have comp	pleted the knowledge of Statistical and mathematical application	ns			
Cou	ırse Obj	ective:					
	The statisti able to CLRM of the interpr where	course is quan cs. An important o understand its ap I model, aspects of course, students et the results and they apply the teo	titatively rigorous and requires advanced knowledge objective of the course is to introduce regression analysis to s pplications in different fields in economics. Attention is also give of discrete choice models, and simultaneous equations models. Is will be able to specify assumptions, formulate and estimated test their statistical significance. Students are required to con- chniques learnt during the course and present their results.	of mathemati tudents so that iven to the viola Specifically, by the appropriate induct research	they are ations of the end models, in teams		
Cou	Course Outcomes: The students will be able to						
1	1 <i>Estimate the regression model, derive the parameter estimators and learn to interpret.</i>						
2	Learn	the consequences	of the violations of CLRM assumptions, how to detect the prob	plems of autoco	rrelation		
	and he	teroskedasticity a	nd also able to learn to learn the remedial measures.	TT1 1.1.1.			
3	use the	e dummy variable	s both as explanatory as well as dependent variable.	. They would le	earn to		
4	Learn	the important sim	ultaneous equation models and the simultaneous equation bias.				
5	Use th	ese techniques of	econometrics in their MA dissertations				
Cou	irse Cor	itent:			-		
UN	I TI	Classical Linear and forecasting,	Regression Model- two and three variables- assumptions, estin BLUE properties of OLS estimators (derivation and proof);	nation, testing	10 hrs		
UN	IT II	Variance of distribution	urbance term; Introduction to multiple linear regression model as; Simple regression coefficients versus partial versus partial regression coefficients versus partial versus partial versus versus partial versus	and tests of ficients.	10 hrs		
UN	IT III	Multicollinearity Detection and R	y, Auto-correlation, and Heteroskedasticity: Nature, Causes, Co emedial measures.	nsequences,	10 hrs		
UN	NIT IV	Dummy variable Probit Model. D	es; Models for Binary Choice-Linear Probability Model; The lo istributed lag models	git and the	10 hrs		
UNIT V Simultaneous Equation Models (Structural form and Reduced form) and Simultaneous Equation Bias:					10 hrs		

	Identification (Under-ider	tified, Exa	ctly identifi	ed and Ov	er-identifi	ed model); Various	10 hm
UNIT VI	Methods of Sim	ultaneous	Equation M	odel Estimat	ion.			10 nrs
Internal Assessment:								
CIA 1	Unit I, Unit II							
CIA 2	Assignment subm	ission and	or presenta	tion				
Text Bool	ks:							
1. I	Damodar N. Gujara	ıti, Basic E	conometric	s; 4th Editio	n, McGraw	Hill, 2008	3.	
2. J	affery Wooldridge	, Introduc	tory Econo	metrics: A	Modern Ap	proach, C	Cengage Learning	
Referenc	e Books:							
1. I	Koutsyannis, Theo	ry of Econ	ometrics, F	Palgrave				
2. (G. S. Madalla, Int	roduction	to Econom	etrics, McM	illan Publisł	ning Comp	any	
3. DimitriosAsterious and Stephen G. Hall, Applied Econometrics, Palgrave								
4. (Christopher Daugh	erty: Introd	uction to E	conometrics				
5. (Crish Brooks, Intro	ductory Ec	onometrics	for Finance				
			PO-CO	O Complianc	e Matrix			
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1			3	3	2	2		
CO2	2	3	3	3				
CO3	2	3	3	3				
CO 4	3	3	3	3				
CO 5			3	3	3	3		
*1: Low,	2: Medium, 3: Hig	h						

		Ce	ourse Name: Computer Applications in Economics (ECO 504)				
T	EACHI	NG SCHEME	EXAMINATION SCHEME CREDITS ALLOTE	D			
Theory: 4 hrs per weekEnd Semester Examination: 60 marks Internal Assessment: 40 marks			End Semester Examination: 60 marks Internal Assessment: 40 marksTheory: 4				
			Total: 4				
Co	ourse Pre	e-requisites:					
1	Must p	ossess knowledge	e of elementary econometrics, and statistics				
Co	urse Obj	ective:					
	This course has aim to introduce the econometric and statistical applications through computer applications and statistical software to students. It will help the student to apply econometric applications in research and real life economic issues and model building.						
Co	urse Out	comes: The stude	ents will be able to				
1	Learn	to estimate and in	nterpret the problems of econometrics and statistics through computer appli	ations			
2	Use st	atistical software	i.e. STATA, E-Views, and SPSS				
3	Apply	econometric and	statistical applications in economic research and practice				
4	4 Identify and analyze the cross-sectional, time series and panel data with suitable econometric and computer application						
Co	urse Cor	ntent:					
U	UNIT I An overview of Computers: Introduction to computer and Computer technologies. Overview of computer – Basic operating instructions. Overview of databases. Introduction to software – MS Office, Excel, STATA, SPSS, E-views. Loading the data to Excel, STATA, SPSS, E-views – Differences in the use of different software packages						
UN	UNIT II Exploratory Data and Simple Statistical Analysis: Tabular and Graphical Representation of data with interpretation. Displaying graphs on the screen – Saving and operating graphs –						

	Printing graphs – page. Descriptive mode – Variance – Covariance – Co	rinting graphs – Labelling graphs – Overlay (two scales) graphs – Multiple graphs on a age. Descriptive Statistics: Central Tendency, Dispersion and Shape. Mean, median and ode – Variance and Standard Deviation – Skweness and Kurtosis – Five number summary Covariance – Correlation (zero order, rank and partial correlation).							
UNIT III	Simple Parametri procedures – Princ	ic and No cipal Comp	on-parametrio	c tests, t-te ctor and Clu	est proced ster Analy	ures, F-t sis	est, Man	n Whitney	10 hrs
UNIT IV	Linear Regression-Interpretation using applications :Two Variable Regression Model, Multiple Regression including dummy variable, Growth rate calculation, Trend Analysis, Functional Forms,				10 hrs				
UNIT V	Testing for Multicollinearity, Heteroskedasticity, and Autocorrelation and remedial measures, Specification error, Simultaneous Equation Model- 2SLS, Qualitative Response Model- Probit, Logit and Tobit				10 hrs				
UNIT VI	Handling cross sectional data, time series data, longitudinal or panel data, survey data, Different econometric techniques especially with reference to valuation should be elaborated with suitable applications.				15 hrs				
Internal As	ssessment:								
CIA 1	Unit I, Unit II								
CIA 2	Assignment submis	sion and/or	presentation	n					
Text Books	s:								
1. He Ee	GL - R. Carter Hill,	William E ISBN 978-	. Griffiths ar 0-471-72360	nd Guay C. I)-8) John Wi	Lim (2007 ilev & Son) Principl	es of Eco	nometrics, 3	rd
2 G	M - Darren George	and Paul M	$\frac{0}{1}$ allery (2010)	$\frac{1}{2} = \frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1$	Windows '	Sten by S	ten: A Si	mple Study	Guide
an	nd Reference, 17.0 U	Jpdate, 10 th	¹ Edition; (IS	SBN: 97881	31762257)	Pearson	Education	1.	Guide
3. G	HL - William E. Gr conometrics. 3 rd Edi	iffiths, R. (tion, Febru	Carter Hill ar	nd Guay C. I 978-0-471-	Lim (2008 78711-2) J) Using E ohn Wile	Views fo v & Sons	r Principles Inc.	of
4. D	P - Glyn Davis and	Branko Pe	car (2010) B	usiness Stat	istics Usin	g Excel, l	Paperbacl	c Ed., Janua	y,
Reference	Books:	089-2) OX		ity 11088.					
	H - Lee C Adkins a	and R. Cart	er Hill (2007	7) Using Stat	ta for Prin	riples of l	Econome	rice 3rd Ed	ition
	ecember: (ISBN: 97	'8-0-470-1	R546-9) Johr	n Wiley & So	ons Inc		Leonome	.iics, 5 Eu	ition,
2 H	M - Timothy C Ha	ab and Ken	$\frac{1}{10000000000000000000000000000000000$	Connell (200	3) Valuing	Environ	mental ar	d Natural	
Z. II	esources: The Econo	ometrics of	Non-Marke	t Valuation	(New Hor	izons in F	Environme	ental Econo	nics)
Pa	aperback Ed., March	n: (ISBN: 1	843763885)	Edward Els	ar Pub HN	MS –			, inco)
3. C	T - A. Colin Camero	on and Pray	vin K. Trived	di (2009) Mi	croeconor	netrics Us	sing Stata	. (ISBN: 1-	59718-
04	48-3) A Stata Press	Publication		(,)				, (
4. A.	. K. Enamul Haque,	M. N. Mu	rty, Priya Sh	iyamsundar	(2011) En	vironmen	tal Valua	tion in South	n Asia,
	SBN: 110/00/143)		e University	Press.		1.0.405	10070 W	TT1	
5. Ha	am - Lawrence C. H rooks/Cole.	lamiiton (2	006) Statisti	cs with STA	ATA, (ISB)	N: 0-495-	10972-X), I nomson	
			PO-CO C	ompliance N	Matrix				
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	2	3	3	3					
CO2			3	3	2				
CO3			3	3	2	2			
CO 4	2	2	3	3	2	2			
*1: Low, 2	: Medium, 3: High								

	Course: Research Methodology (H	ECO 512)					
TEACHING SCHEME EXAMINATION SCHEME CREDITS ALLOTED							

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]	Theory:	eory: 4 hrs per week End Semester Examination: 60 marks Theory: 3						
			interne		it. To marks	Tota	al: 3	
Co	urse Pre	e-requisites:						
1	1 Student must have completed the basic knowledge of statistics and econometrics							
Cou	ırse Obj	ective:						
	This c	ourse introduces v	what and ho	w to do rese	arch in economic	s thereby it enables stu	idents to learn	how to
	do res	earch in economi	cs. It cover	s various ty	pes of research a	nd designs that are portion of the second seco	ossible in ecc	nomics.
	also w	riting report in eco	nomics.	g an morgin (or economic resea	renes, teeninques, plint	osopity and ci	mes and
Cou	arse Out	comes: The stude	nts will be a	able to				
1	Under	stand what researc	h is and how	w to conduct	research in econo	omics		
2	Improv	ve their logical this	nking and u	nderstand th	e economic theori	es critically		
3	Learn	to interpret econor	nic data and	l also learn s	kills to analyze th	em.		
4	Under	take a research pro	ject and pre	esent it				
Οοι	irse Cor	itent:	1 .	· ·	TT C	1 1 1	· · c:	
		Meaning of res	search in e	economics,	Types of resear	ch, objectives and s	significance,	
UN	I TIV	techniques differ	esearch phi	osopily, Re	e logical framew	ork of investigation H	Hellous and Hallmarks of	10 hrs
		Scientific investi	gations the	nature of pro	blem and appropriate	iate methodology.	iannarks of	
LINI	тт п	Research proces	s: Formula	tion of rese	arch problem, L	iterature review, deve	elopment of	10 hm
UN	11 11	working hypothe	ses, and pre	paration of r	esearch design.		_	10 ms
		Sampling – Err	or minimiz	ations, Tech	iniques and desi	gns. Collection of da	ata: Primary	101
UN		sources-question	naire, sche	dule, interv	iew methods, ol	oservational method,	Case study	10 hrs
LIN	JIT IV	Hypothesis testir	interpret	es, Mixed II	peralization			10 hrs
UN	IT V	Report writings.	references a	nd bibliogra	phy. referencing.	Plagiarism, Oral prese	ntations.	10 ms 10 hrs
	Practical Applications with data Exposer to Excel, SPSS, EVIEWS and STATA							
	a. Data entry: Qualitative. Quantitative (Cross-sectional, time series and pooled data)							
		a. Data en	b Tabular and Graphical Representation of data with interpretation					
		a. Data en b. Tabular	and Graphi	cal Represer	tation of data wit	h interpretation.	, or	
UN	IT VI	a. Data en b. Tabular c. Descrip	and Graphi tive Statistic	cal Represer	tation of data with rendency, Dispers	h interpretation. ion and Shape. Mean,	median and	10 hrs
UN	IT VI	a. Data en b. Tabular c. Descrip mode –	and Graphi tive Statistic Variance an	cal Represer cs: Central T nd Standard	ntation of data wit rendency, Dispers Deviation – Skev	h interpretation. ion and Shape. Mean, vness and Kurtosis – C	median and Covariance –	10 hrs
UN	IT VI	a. Data en b. Tabular c. Descrip mode – Correlat	and Graphi tive Statistic Variance and tion; cross tation	cal Represer cs: Central T nd Standard abulation; ou	ntation of data wit Cendency, Dispers Deviation – Skew Itliers. Tests for no ssion Diagnostic	h interpretation. ion and Shape. Mean, vness and Kurtosis – C ormal distribution.	median and Covariance –	10 hrs
UN	IT VI	a. Data en b. Tabular c. Descrip mode – Correlat d. Regress	and Graphi tive Statistic Variance an tion; cross ta ion Analysi	cal Represer cs: Central 7 nd Standard abulation; ou s; Post regre	ntation of data wit Cendency, Dispers Deviation – Skew Itliers. Tests for no ssion Diagnostic t	h interpretation. ion and Shape. Mean, vness and Kurtosis – C ormal distribution. ests.	median and Covariance –	10 hrs
UN	IT VI ernal As	a. Data en b. Tabular c. Descrip mode – Correlat d. Regress	and Graphi tive Statistic Variance an tion; cross ta tion Analysi	cal Represer cs: Central T nd Standard abulation; ou s; Post regre	ntation of data wit Cendency, Dispers Deviation – Skev Itliers. Tests for no ssion Diagnostic t	h interpretation. ion and Shape. Mean, vness and Kurtosis – C ormal distribution. ests.	median and Covariance –	10 hrs
UN Inte CL	TT VI ernal Ass A 1 1	a. Data en b. Tabular c. Descrip mode – Correlat d. Regress sessment: Unit I, Unit II	and Graphi tive Statistic Variance an tion; cross ta ion Analysi	cal Represer cs: Central T nd Standard abulation; ou s; Post regre	ntation of data wit Cendency, Dispers Deviation – Skev Itliers. Tests for no ssion Diagnostic t	h interpretation. ion and Shape. Mean, vness and Kurtosis – C ormal distribution. ests.	median and Covariance –	10 hrs
UN Inte CL	TT VI ernal Ass A 1 V A 2 A	a. Data en b. Tabular c. Descrip mode – Correlat d. Regress sessment: Unit I, Unit II Assignment submi	and Graphi tive Statistic Variance an ion; cross ta ion Analysi ssion and/or	cal Represer cs: Central 1 nd Standard abulation; ou s; Post regre	ntation of data wit Cendency, Dispers Deviation – Skew Itliers. Tests for no ssion Diagnostic t	h interpretation. ion and Shape. Mean, vness and Kurtosis – C ormal distribution. ests.	median and Covariance –	10 hrs
UN Inte CL CL Tex	TT VI ernal Ass A 1 U A 2 A at Books	a. Data en b. Tabular c. Descrip mode – Correlat d. Regress sessment: Unit I, Unit II Assignment submi	and Graphi tive Statistic Variance an ion; cross ta ion Analysi ssion and/or	cal Represer cs: Central T nd Standard abulation; ou s; Post regre	ntation of data wit Cendency, Dispers Deviation – Skev utliers. Tests for no ssion Diagnostic t	h interpretation. ion and Shape. Mean, vness and Kurtosis – C ormal distribution. ests.	median and Covariance –	10 hrs
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UN Inte CL CL Tex	TT VI ernal Ass A 1 U A 2 A tt Books 1. Do Ca 2. G Ha 3. Ka 5. Ka ference 1. Na Ed 2. Ma	a. Data en b. Tabular c. Descrip mode – Correlat d. Regress sessment: Unit I, Unit II Assignment submi :: on Ethridge. <i>R</i> onducting, Second reenlaw, S. Doing oughton Mifflin othari, CR. <i>Resea</i> . ew Delhi Books: ewbold Paul, Carl lucation Itd. anuals of Statistica	and Graphi tive Statistic Variance an ion; cross ta ion Analysi ssion and/on esearch M Edition, Bla g Economic rch Method son, W. L. al Softwares	cal Represer cal Represer cs: Central T nd Standard abulation; ou s; Post regre r presentation <i>fethodology</i> ckwell Public <i>s: A Guide</i> <i>ology: Meth</i> Thorne Be (SPSS, Evic PO-CO C PO3	in Applied ishing to Understanding to Understanding to Understanding to Statistics ews, STATA) ompliance Matrix PO4	h interpretation. ion and Shape. Mean, vness and Kurtosis – Cormal distribution. ests. Economics: Organiza g and Carrying Out ues, WishwaPrakashar for Business and Economics PO5	median and Covariance – ing, Plannir Economics R n (Wiley Eate nomics. 8ed, PO6	10 hrs 10 hrs and and esearch, ern Ltd), Pearson
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CO 4			3	3
*1: Low, 2: Med	lium, 3: High			

Open Elective Courses

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		Course Name: E	conomics of Money Banking and Financial Development in India (ECO 44	45)			
T	EACHI	NG 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 p	oossess knowledge	e of elementary macroeconomics				
Cou	urse Obj	ective:					
	Money produc Theref bankin	y, banking, and fin ction, such as lab fore, this course a lag, and financial n	nancial markets have emerged as instruments of payments for the services of fa our and capital and they also accommodate innumerable exchanges in the ex- ims at providing students with a thorough understanding of the importance of narkets in the economy.	actors of conomy. money,			
Cou	urse Out	comes: The stude	ents will be able to				
1	Identify and describe the economic principles underlying the operation of financial intermediaries and markets						
2	Explain how central banks conduct monetary policy and be able to interpret the goals of monetary policy						
3	Identif	y the markets for	stocks, bonds, derivatives, and currencies				
4	Descri	be the structure of	f financial markets, the factors that shape them, and how they are regulated				
5	Identif	y the general prin	ciples of banking management				
6	Acquin discipl	re and demonstration ines;	te analytical and problem solving skills within money, banking, and financia	l market			
Cou	urse Cor	itent:		-			
UN	UNIT I Money: Why Study Money and Monetary Policy: Money and Business Cycles; Structural Evidence model, Reduced form evidence model, Early Keynesian Evidence, Early Monetarists Evidence. Transmission Mechanism of money: Traditional interest rate channel - other asset price effects. a Theory - Credit view approach.						
UN	IT II	Monetary polic Policy: Tools, G	cy: Money and Inflation, Money and Interest Rates. Conduct of Monetary toals and Targets of Monetary Policy.	10 hrs			
UNIT III An Overview of financial system I: Functions of financial markets, structure of financial markets: Debt and Equity markets, primary and secondary markets, exchange and over-the-							

	counter markets,	Money and	l capital mar	kets.]
UNIT IV	An Overview o Analysis of Ban with special refe	f financial king Manag rence to cha	system II: gement. Ar	Function of nalysis of m netary policy	f financial arket for re tools.	intermed eserves ar	iaries. An Economic nd federal funds rate	10 hrs
UNIT V	Understanding Instruments, Pre Returns, Distinc determination o Framework, Cha Supply and Dem	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.						10 hrs
UNIT VI	IT 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.							
Internal As	sessment:							1
CIA 1	Unit I, Unit II							
CIA 2	Assignment submi	ssion and/o	r presentatio	on				
Text Books:								
1. M Ec 2. H	dition, 2011. J. Johnson, Financ	ial Institutio	ns & Market	ts: A Global	Perspective	: McGraw	Hill, 1993 (Int. edition	n.)
3. M Se	lishkin Frederic S, eventh Edition, 200	"The Econo 4.	omics of Mo	ney, Banking	g and Finan	cial Mark	tets", Pearson Educatio	on (AW),
Reference	Books:							
4. Pa Fi	aul Jastin and Padı rst Edition, 2007.	nalatha Sure	esh, "Manag	gement of Ba	anking and	Financial	Services", Pearson E	ducation,
5. Ja Ba	dhav Narendra, Cl ank of India, 1996	nallenges to Macmillan	Indian Ban India Ltd.,	king: Compe 1996.	etition, Glo	balisation	& Financial Markets,	(Union
		-	PO-CO (Compliance	Matrix	1	· · · · ·	
	PO1	PO2	PO3	PO4	PO5	PO6		
CO1	2	2						
CO2	2	2						
CO3	2	2	1	1	2			
CO 4	2	2						
CO 5	2	2			2	2		
CO 6	2	2			2	2		
*1: Low, 2	: Medium, 3: High							

Course Name: Financial Economics (ECO 551)								
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 Mus	t posses	s knowledge	of element	ary macroec	onomics					
Course O	bjective	:								
This course deals with the interrelationship between finance and economics and aims to be taught in master level. It focuses on the important theories of finance and their practical application. It also covers the financial										
level. It focuses on the important theories of finance and their practical application. It also covers the financial										
market volatility and its relationship with real economic activity.										
Course O	utcome	s: The studen	ts will be a	able to						
1 App	ly the fu	indamental to	ols of fina	nce and unde	erstand the fi	nancial ma	irket beha	aviour.		
2 Understand the pricing methods in capital market and its application										
3 Lear	n the m	arket volatilit	y and its in	npact on the	economy.					
4 learn the capital structure decisions of firms										
Course Content:										
UNIT I	Intro Inve Deci	duction to Fin stment Decis sions. Profit 1	nancial Ins sion, Fina naximisati	titutions and ncing decis on vs Sharel	l Markets: A ions, Divide holder's wea	ims and ob end Deciss lth Maxim	ojectives o ions and ization, T	of Financ Capital The Agend	e functions Budgeting cy Theory.	: g 10 hrs
UNIT II Financial markets and institutions: Money Market and Capital Market; Primary market/ new issue Market: Consumption and investment with and without capital market									v	
	Risk	and Uncerta	inty: Typ	es of Risks	: Systematic	and Unsy	stematic	Risks. F	Risk Retur	1
UNIT III	UNIT III Risk and Oncertainty: Types of Risks: Systematic and Onsystematic Risks. Risk Return Trade-off. Financial Decision Making Under uncertainty; the expected Utility Theorem. Measurement of Risks and Return of securities; Market beta. Diversification of Risk.									
UNIT IV	UNIT IVPricing of Securities and Portfolio Theory: Efficient market hypothesis (EMH); random walk theory.EMH vs Fundamental and Technical Analysis. Asset allocation and portfolio choice. The Markowitz theory of portfolio selection. Asset pricing: Capital market line and Security market line; CAPM; Pricing of Securities with CAPM. The Arbitrage Pricing Theory (APT).10 hrs									
UNIT V	Fina Inter econ	ncial Markets action betwee omic policies	and Real	Economic A arket and re	ctivities: Sto al economy:	ock Market stock man	behaviou ket beha	ır: Marke viour und	et Volatility ler differen	t 10 hrs
UNIT VI	Intro Capi Trad	duction to ca tal Structure ' e-off theory a	apital Struc Theories: I and Peckin	cture Theori Modigliani-M g Order theo	es: Financin Miller Irrelev ory.	g Mix: Ch vance hypo	oice betw thesis; Si	ween equ gnalling l	ity vs debt Hypothesis	; 10 hrs
Internal A	Assessm	ent:								
CIA 1	Unit I,	Unit II								
CIA 2	Assign	nment submis	sion and/o	r presentatio	n					
Text Boo	ks:									
1. 5	Stephen	F. Leroy and	Jan Werne	er, Principle	of Financial	Economic	s, Cambr	idge Univ	versity Pres	.s, 2001.
2	Stephen	A. Ross, Rar	dolph W.	Westerfield	and Bradfor	d D. Jorda	n, <i>Fundar</i>	mentals o	f Corporat	e Finance.
	McGrav	v-Hill.								
Reference	e Books	5:							<u> </u>	
	I. Elto	on, E.J and N	I.J. Grubei	, Modern P	ortfolio The	ory & Inve	estment A	Analysis,	(fourth edi	tion) John
	Wil	ey & Sons 19	91.		D · · · /	6.0			a 11/11	
	2. Richard A. Brealey and Stewart C. Myers, <i>Principles of Corporate Finance</i> , McGraw-Hill.									
	3. Thomas E Copeland, J. Fred Weston and Kuldeep Shastri, Fiancial Theory and Corporate Policy, Prentice Hall 4 th edition 2003									
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		PO1	PO2	PO3	PO4	PO5	PO6			
CO1		2	2							
CO2		2	2							
CO3			3	3	2		1			
CO4	OS S S 2 O4 2 2									

Discipline Specific Elective Courses

		Course Name: Agricultural Econor	mics (ECO 421)	
TEACH	ING 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 economics		
Course Ob	ojective:			
The a agrice police police	aim of this course alture and farmers' les have influence y discourse.	to provide students with an in-depth un welfare. The focus is on analyzing struc d farmers' choices and incomes. The ap	derstanding of the issues relating to tural patterns in Indian agriculture, a proach is modular, and will depend	o Indian and how d on the
Course Ou	tcomes: The stude	ents will be able to		
1 Partic	cipate in decision n	naking related to the agricultural sector,		
2 Have	sufficient backgro	und to undertake independent research in t	his area.	
3 Deve	lop the understand	ing about agricultural issues of national an	d international	
Course Co	ontent:			
UNIT I	Agriculture Eco Characteristics Industry, Develo	onomics - Definition of Agriculture of Indian Agriculture, Differences & L opment in Agriculture Colonial & After Ind	Economics, Scope, Nature and inkages between Agriculture and dependence,	10 hrs
UNIT II	Farm Organisati of Land Holding	on, Availability of Inputs, Agricultural Inf s, Land Reforms, Risk and Instability in A	Trastructure, Cropping Pattern, Size	10 hrs
UNIT III	Economics Law Price Determina	s in Agriculture - Production, Cost, Supply tion and Input Demand, Concept of Elastic	y Response, Introduction to Market city,	10 hrs
UNIT IV	Agriculture Price National Econor	e Policy in India, Agriculture Marketin ny, Production Pattern regional variation r	g, Importance of Agriculture for ecourse use efficiency	10 hrs
UNIT V	Green Revolutio Debate on Econ Financial Suppo	n - Production, Productivity, HYV, Irrigat nomic System for Agricultural Marketing rt	tion Fertilizer Mechanisation, MSP, Agricultural Credit, Government	10 hrs
UNIT VI	Foreign Trade Facility, Issues i	in Agriculture - India's Competitiveness n Indian Agriculture& WTO Rules	in International Market, Storage	10 hrs
Internal A	ssessment:			T
CIA 1	Unit I, Unit II			
CIA 2	Assignment subm	ission and/or presentation		
Text Book	is:			
1. S	oni R. N. & M. Sa	ngeeta: Leading Issues in Agricultural E	conomics, Vishal Publishing Co. Ja	landhar
2. S	adhu and Singh: Fi	undamentals of Agricultural Economics, H	limalaya Publishing House Mumbai	

3. D	3. Drummond H. Evan & Goodwin John W. : Agricultural Economics, Printice Hall											
Reference Books:												
1. Tsakok Isabelle: Success in Agricultural Transformation, Cambridge University Press												
2. Barkley Andrew, et al: Principles of Agricultural Economics, Routledge London												
3. Pi	3. Puri VK & Mishra: Indian Economy, Himalaya Publishing House											
GOI: Econ	omic Survey 20	19-20										
			PO-CC	O Compliance	e Matrix							
	PO1	PO2	PO3	PO4	PO5	PO6						
CO1	2	2										
CO2	CO2 2 2 2 2											
CO3	CO3 2 3 2 2											
*1: Low. 2	: Medium, 3: Hig	h			-							

		C	ourse Name: Environmental Economics	and Policy (ECO 422)		
TI	EACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED		
J	Theory:	4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4		
				Total: 4		
Co	urse Pre	-requisites:				
1	Must p	ossess knowledg	e of elementary microeconomics			
Cou	ırse Obj	ective:				
	The contract of the contract o	ourse aims to ac ms. This course nic regulatory too	equaint the students with tools of micro targets to apprise the environment-econor ols in handling environmental problems.	beconomics in dealing with environmy interactions and familiarize the	onmental various	
Cou	arse Out	comes: The stude	ents will be able to			
1	Unders place l	stand the main int imits on the intera	teractions between the environment and th action	e economy and the physical constra	ints that	
2	Be fai discipl	niliar with the h ine	history of the discipline of environmenta	al economics and what is included	d in the	
3	Appre	ciate how markets	s allocate goods and why they sometimes fa	ail allocate environmental goods opt	imally.	
4	Plan re	gulatory framewo	ork for correcting market failures.			
5	Use ec	onomic technique	es to analyze environmental problems and t	to assess environmental policies		
6	Have t critiqu	he knowledge of e of these matters	the components of environmental policy,	, criteria for its design and assessm	ent, and	
7	Apply	the various quant	itative regulations on the basis of criteria o	f cost effectiveness.		
Cou	arse Cor	itent:			1	
UN	I TI	What is environ Distinction betw	mental economics? een environmental Economics and natural	resource economics.	10 hrs	
UNIT II Introduction to Environmental Economics: Historical perspectives (classical, neo-classical and modern) Interface between Economy, Environment and Development; Environment 10 h versus development Controversy.						
UN	IT III	First and second Public bads and	law of thermodynamics. Efficiency and cl externalities. Social choice of optimum po	hoice, Problems of Market Failure: Ilution	10 hrs	
UN	NIT IV	Theory of env pollution, Prope	ironment Regulation: Pigovian solution rty Rights and the Coasian Approach: barg	ns; Subsidies for Abatement of ain Solution.	10 hrs	

UNIT V	Quantitative re	gulation: C	Command a	and Control	- Standard	d setting;	Tradable pollutio	¹ 10 hrs		
	permits; Kerund	able deposi	is, Output I	ax.	. 1	1. 1 .	D 1.1			
	The Problem of	of uncertain	ty and risk	in Enviroi	imental po	olicy choi	ce; Regulation wit	1		
UNIT VI	unknown Contr	ol cost; Mor	itoring emi	ssions, enfor	cement an	d Moral ha	azard; Environmenta	1 10 hrs		
	Risk and uncert	ainty.								
Internal A	ssessment:									
CIA 1	Unit I, Unit II									
CIA 2	Assignment subm	nission and/o	or presentati	on						
Text Book	s:									
1.	Kolstad, C, D. (20	03) Environ	mental Eco	nomics, Oxf	ord univers	sity Press				
Reference	Books:					•				
1.	Thomas and Calla	n, Environn	ental Econo	omics, Ceng	age Learnii	ng, 2009.				
2.	Tietenberg, T. (19	96). Enviror	mental and	Natural Res	ource Eco	nomics. Ha	arper Collins, Colles	e		
	Publishers, New Y	ork. Fourth	Edition				· · · · · · · · · · · · · · · · · · ·			
3.	Bhattacharva, R. N	N. (Edited) (2001). Envi	ronmental E	conomics:	An Indian	Perspective, Oxfor			
	University Press	New Delhi			•••••••		i enspectare, emor	-		
			PO-CO	Compliance	Matrix					
	PO1	PO2	PO3	PO4	PO5	PO6				
CO1	2	2	105	101	105	100				
CO^2	2	2								
CO3	2	2	2	2						
CO4		2	2	2						
C04	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
CO7		2	3	3	2	2				
*1: Low, 2	2: Medium, 3: Hig	h								

		Course Name: Political Economy	y (ECO 423)
T	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	Must possess knowledge	e of elementary economics	
Cou	arse Objective:		
	This course explores the theoretical issues as we and war. Discusses not empirical study or field	e relationship between political institution ell as recent empirical evidences. Topics i just what we know on these topics, but ho experiment and how to discriminate betwe	s and economic development, covering key nclude corruption, democracy, dictatorship, w we know it, covering how to craft a good en reliable and unreliable evidence.
Cou	arse Outcomes: The stude	ents will be able to	
1	Build a foundation for the	hinking about the role of political economy	in understanding economic development.
2	Understand some core t whenever possible.	theoretical concepts in political economy,	with illustrations from developing countries
3	Understand empirical ev world empirically? What	vidence in economics. What makes a good at are some of the techniques we can use to	empirical study? How do we learn about the better understand the world?
Cou	irse Content:		

UNIT I o	ntroduction: Wh verview; Differe	ny study p ent tradition	political econs in politic	nomy and al economy	developm - classic	ent? Mo al politica	tivation and cou al economy, mary	rse ist 10 h	ars		
p	olitical economy	, new polit	ical econom	у							
UNIT II E	Does Political E Sechniques. The Sconomic Deve Development: M Docial/human dev	conomy M Role of La lopment: icro Evide elopment	atter for Ec eaders and I Macro Evi nce; inequa	conomic Dev Democratic dence; The lity and eco	velopment Institution e Deep onomic gro	? Some s; The D Determin owth; po	Facts and Empiri eep Determinants ants of Econor litical economy a	cal of nic 10 h nd	nrs		
UNIT III F	Voting I: The M Volitician Identity Models; Voting in	Median Vo and the Fa	ter Theoren ailure of the Vote buying	n; Voting i Median Vot and voter in	n Practice er Theoren timidation	e: Citizen n; Voting ;	-Candidate Mode in Practice: Ager	els, cy 10 h	rs		
UNIT IV $\begin{bmatrix} V \\ T \end{bmatrix}$	oting II : Some heorem. Good v	times It Ge s. Bad Dict	ts Complica atorships; C	ted: Condor ommitment	cet's Parac problems i	lox and A n Dictato	arrow's Impossibil rship	ity 10 h	nrs		
UNIT V to	NIT V Collective Actions: The Logic of Collective Action; Ethnic Heterogeneity and Contributions to Public Goods; Monitoring and Collective Action Problems; Recovery from Civil War; 10 hrs Why Do Wars Happen; Civil War.										
UNIT VI F	UNIT VI Corruption: Is Corruption Inefficient; The Corrupt Official's Decision Problem: Balancing Risks, Rents, and Incentives; The Industrial Organization of Corruption; Politicians and 10 hrs Firms										
Internal Asses	sment:										
CIA 1 Un	it I, Unit II										
CIA 2 As	signment submis	sion and/or	r presentatio	n							
Text Books:	D (1000)						<u> </u>				
1. Bard	han, P. (1998), <i>F</i>	Political Ec	onomy of De	evelopment i	n India, O	xford: Ox	ford University Pi	ess.			
2. <u>Char</u> 7 th /8	les Sackrey, Generation, Dollar	s and Sense	<u>ineider</u> and	Janet Knoe	<u>dler</u> (2013	3), Introd	uction to Politice	el Econom	ny,		
Reference Bo	ooks:										
3. Bard	han (1999), Poli	tical Econo	my of Refor	ms in India,	New Delh	i: NCAE	R.				
4. Fine	Ben and Milona	akis, Dimiti	ris (2008), F	rom Politica	l Econom	y to Econ	omics: Method, th	e Social a	nd		
	listorical in the	Evolution o	f Economic	<i>I neory</i> . Rou	tiedge.	10.47.00	04.0.6.111				
5. Fran	kel, F. (2005), In	dia's Politi	cal Econom	y: a gradual	revolution	, 1947-20	04, Oxford Unive	sity Press	3.		
6. Jevo	n, W. Stanley. T	he Theory of	of Political E	conomy	1.07		20 11 1				
7. Rica	rdo, David. (181	/). Principi	les of Politic	al economy	and Taxat	ion, the S	raffa edition.				
8. Rola	nd, G. (2000) Pa	olitics, Mar	ket and Firm	is, The MIT	Press: Car	nbridge, I	Mass.				
9. Rono	aglia, Alessandr	o. (2005). 2	The Wealth o	of Ideas. Car	nbridge Ui	niversity l	Press, Cambridge				
10. Sime	on, David (2005)	. Fifty Key	Thinkers on	Developmer	it, Routled	ge.					
11. Smit	h, Adam. (1776)	. An inquir	y into the na	ture and cau	ises of the	wealth of	nations, The Glas	goweditio	on.		
12. Swee	12. Sweezy, Paul (1970). The Theory of Capitalist development: Principles of Marxian Political economy.										
Mod	ern Reader Pape	rbacks, Nev	w York								
			PO-CO C	Compliance N	Matrix		r				
	PO1	PO2	PO3	PO4	PO5	PO6					
	2	2	2		2	2					
CO2	Z	2	2	2	2	2					
*1. Low 2. M	ledium 3. High	2	2	2	4	2					

		Cou	irse Name:	Labor Ecor	nomics	(ECO 42-	I)		
TEACH	ING SCHEME	EXAN	AINATION	SCHEME		(CREDITS	ALLOTED	
Theory:	4 hrs per week	End Seme Interna	ester Examin al Assessmer	ation: 60 ma nt: 40 marks	arks		Theo	ry: 4	
							Tota	al: 4	
Course Pr	e-requisites:								
1 Must	possess knowledge	e of element	ary microeco	onomics					
Course Ob	jective:								
The a theory labor	um of this course y and experience. ' markets and to ass	is to introd The materia ess related p	uce the stud l covered wi public policy	ent to labor ill help the s measures.	econor student	mics with to underst	an emphas and real-w	is on microe orld issues re	economic elating to
Course Ou	tcomes: The stude	ents will be a	able to						
1 Unde	rstand the Basic ec	onomic forc	es behind er	nployment a	nd wag	ges decisio	ns		
2 Identi discri	ify Sources of la mination among th	bour marke workers a	et imperfect	tions, drivin	ng forc our wel	es for ec fare	lucation ar	nd skill upg	radation,
Course Co	intent:		- I I -						
UNIT I Labour Supply: Choice between Consumption and Leisure; Incorporating Household 10 hr									10 hrs
UNIT II Labour Demand and Equilibrium: Labour Demand Function, Competitive Equilibrium, Compensating Wage Differentials and Hedonic Theory of Wages								10 hrs	
UNIT III	Discrimination 7	Theories of I	Discriminatio	on, Measurir	ng Disci	rimination	, Affirmativ	ve Action	10 hrs
UNIT IV	Investment in E Returns to Educa	Education: 7 ation	Theory of H	Iuman Capi	tal, Ed	ucation as	s a Signall	ing Device,	10 hrs
UNIT V	Job Search, ince	ntives and e	fficiency of	wages, Migr	ation				10 hrs
UNIT VI	Labour Market I Wage and Emple	nstitutions a ovment, Une	and Policies (employment	Collective B Insurance, J	argaini ob secu	ng and La	bour Union ations	s, Minimum	10 hrs
Internal A	ssessment:	,	Ž	,					
CIA 1	Unit I, Unit II								
CIA 2	Assignment submit	ission and/or	r presentatio	n					
Text Book	s:								
1. C	ahuc, P.; Carcillo,	S. and Zylb	erberg, A. (2	2014): Labor	Econo	mics, MIT	' Press		
2. E	hrenberg, R. G. an	d Smith, R.	S.(2018): M	odern Labor	Econo	mics: The	ory and Pub	olic Policy, R	outledge
3. B	orjas, G. J. (2010)	: Labor Ecor	nomics, McC	Graw-Hill/Irv	win, Bo	oston MA	5th edition)	
Reference	Books:								
4. (4. Card, D., and Ashebfelrer, O. (2011): Handbook of Labor Economics, Vol 4A & B, Elsevier								
	DOI	DOA	PO-CO C	Compliance I	Matrix	DC (1	
CO1	2	PO2	PO3	PO4	P05	PO6			
C01	2	2	2	2	2				
*1. Low 2	L Madium 2. Lick		2	2	2	2			
$^{-1}$: LOW, 2	L: Medium, 5: High	1							

			Course Name: History of Modern Economic	Analysis(ECO 425)					
T	EACH SCHE	HING ME	EXAMINATION SCHEME	CREDITS AL	LOTED				
SCHEWE End Semester Examination: 60 marks Theory: 4 hrs per week End Semester Examination: 60 marks Internal Assessment: 40 marks Theory: 4									
	wee	k	Internal Assessment: 40 marks	Total: A	-				
		(Course Pre-requisites:	10181.4					
1			Must possess knowledge of elementary economics						
1			l'ourse Objective:						
		<u> </u>	This course is an introduction to the history of economic th	eory While the main	r phases in the				
			development of economics will be studied, the aim w	will be to treat the	n against the				
	background of their historical environment, including political and social thought and current								
			Ricardo, Marshall and Kevnes.	commed to, the w	ork of Sinth,				
		C	Course Outcomes: The students will be able to						
1			To comprehend the development of the theory of economics	s in historical perspec	ctive.				
2			To comprehend emerging paradigms and aberrations with it	ts reasons					
3			To debate similarities and differences among different econ	omy schools.					
		C	ourse Content:						
		MARG	INALIST THOUGHT	1					
UNI	ΤI	Margin	alist revolutions W. Jevons Walras, De-homogenizing marg	ginalism,	10 hrs				
		Marsha	llian synthesis						
		NEO-C	LASSICAL THOUGHT						
UNI	ΓII	, wella	ions	ur and	10 hrs				
		miovai	10115.						
		CLASS	ICAL POLITICAL ECONOMY I						
LINI	т	Adam a	Smith and his economic theory, Ricardo's contribution to	classical					
	.1	econom	ic thought, Ricardo-Malthus glut controversy, Classical St	tationary	10 hrs				
111		State v	with special reference to Mill's views, A general Over	view of					
		Classic	al Economic Thought,						
		CLASS Kerl M	SICAL POLITICAL ECONOMY II	1					
	гw	Karl M Marvia	arx - Organic Composition of Capital. Break Down of Capita n Theories of Value, Surplus Value, Profit and Crisis of Capita	insm,	10 brs				
	1 1 V	Essenti	al Differences between Classical Economics and Marxian	itansin.	10 11 5				
		Econor	nics.						
		KEYN	ESIAN's THOUGHT						
		The agg	gregate economy, Liquidity Preference Theory and Liquidity	trap,					
UNI	тν	Margin	al Efficiency of Capital and Marginal Efficiency of Investme	ent,	10 hrs				
0111		wage ri	gidities, underemployment equilibrium, role of fiscal policy,	deficit	10 1115				
		spendir	ig and public works, multiplier principle, cyclical behaviour (of the					
	economy, uncertainty and role of expectations.								
		Main 1	hemes of Kautilya's Arthasashtra. Economic Ideas. Da	da Bhai					
UNI	VIT VI Naoroji, Ranade, Gokhale; M.K. Gandhi, Bhimrao Ambedkar, Deendayal 10 hrs								
	Upadhyay and J K Mehta. A synthesis of economic thought, Comparison of								
	Indian economic thought with western economic thought.								
Inter	Internal Assessment:								
CIA	1	Unit I,	Unit II						
CIA	2	Assign	ment submission and/or presentation						
Text	Books	: 			0.6.1				
	1.	B	lackhouse, R. (1985), A History of Modern Economic Analy	sıs, Basil Blackwell,	Oxford.				

2			Gang	Ganguli, B.N. (1977), Indian Economic Thought: A 19th Century Perspective, Tata McGraw									
			Hill, I	l, New Delhi.									
			Refe	eference Books:									
3			Grey,	rey, A. and A.E. Thomson (1980), The Development of Economic Doctrine, (2nd Edition),									
			Long	ongman Group, London.									
4			Kauti	lya (1992),	The Arthash	astra, Edited	, Rearra	inged, [Fransl	ated an	d Introduce	d by L.N.	
			Ranga	ngaranjan, Penguin Books, New Delhi.									
5			Schur	humpeter, J.A. (1954), History of Economic Analysis, Oxford University Press, New York									
6	j.		Sesha	hadri, G.B. (1997), Economic Doctrines, B.R. Publishing Corporation, Delhi.									
7			Blaug	laug, M. (1997), Economic Theory in Retrospect: A History of Economic Thought from Adam									
			Smith	ı to J.M. Ke	eynes, (5th E	dition), Cam	bridge U	Jnivers	ity Pr	ess, Ca	mbridge.		
8													
			Dasgi	upta, A.K.	(1985), Epoc	hs of Econor	nic The	ory, Ox	ford I	Univers	ity Press, N	ew Delhi.	
9).		Hunt	E.K. and M	lark, Lautzer	heiher (2011): Histo	ory of E	conor	nic The	ought, PHI I	Learning.	
						PO-CC	Compl	iance N	Aatrix	-			
							Р	PO					
		P	01	PO2	PO3	PO4	0	6					
		5 0											
CO1													
CO2		2		2									
CO3													
			*1: L	ow, 2: Med	lium, 3: High	L							

		Course Name: Monetary Econom	ics (ECO 521)
TF	CACHING SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED
Г	heory: 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	
Cou	rse Objective:		
	This course explores the money creation, banking management in an open new financial instrume domestic economic per which provides a base f their empirical evidence closed and open economic different regimes.	the practical aspects of money and bankin ng operation, central banking system-co economy. Emphasis is given to the char nts. The course develops a number of spective related to money, banking oper for the understanding of classical and Key e. The course also focuses on the issues my contexts, like determinants of the pri	g within the economy. Topics will include onduct of monetary policy, and monetary aging role of financial institutions as well as theoretical frameworks for the analysis of ration, monetary transmission mechanisms, vnesian approaches for monetary theory and of monetary policy implementation in the ce level, rate of inflation, exchange rate in
Cou	rse Outcomes: The stude	ents will be able to	
1	Understand the basic con	ncepts of money including its origin, funct	ions
2	Understand the role of n	noney, money demand and money supply	in the economy
3	Describe the process of	money creation by the banking system and	I the role of the central bank
4	Understand the general j	principles of bank management	
5	Identify the key banking	sector reforms in India and policy implication	ations of those reforms with respect to

	development of Indian economy										
6	Elucid	ate the liability a	nd asset port	folio manage	ement "probl	lem" of ba	nks				
7	Assess	and evaluate the	e conduct of	monetary po	licy by the c	entral bank	with res	pect to a	n open econor	my	
0	Under	stand the analysi	s of market f	or reserves a	nd federal fu	inds rate w	ith specia	l referen	ce to changes	in	
8	monet	ary policy tools					1		U		
9 Asses the changing role of financial institutions as well as new financial instruments in the economy											
Cou	rse Cor	ntent:									
UNIT IMoney: Concept, functions, measurement; Supply of money: Mechanics of money supply creation; measures of money supply in India. Demand for money: Fisher, Cambridge, and Keynesian and Friedman theories.								10 hrs			
UNIT IICommercial Banking System: Meaning, functions, assets and liabilities-Balancing liquidity with profitability, process of credit creation by commercial banks. reforms.10								10 hrs			
UN	IT III	General principstructure; bank	ples of banking sector	ting manage	ement, India	n banking	system:	Changi	ng role and	10 hrs	
UN	UNIT IVCentral Banking: 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 of market for reserves and federal funds rate with special reference to changes in monetary policy tools. Monetary management in an open economy.10 h									10 hrs	
UNI	NIT V Financial Institutions: Economic analysis of financial structure; Basic puzzles about financial structure. 10 h									10 hrs	
UNI	IT VI	Problem of asy financial struct	mmetric info ure. Role of f	ormation – a inancial mar	dverse select kets and inst	tion and m titutions in	oral haza Economi	rd and it c develo	ts impact on pment.	10 hrs	
Inte	rnal As	sessment:							•		
CIA	A1 1	Unit I, Unit II									
	A 2 1	Assignment subn	nission and/o	r presentatio	n						
Tex	1 Su	: raiB Gunta Moi	netary Econo	mice S Cha	nd and Com	nany I td					
	$\frac{1}{2}$ Fr	ederic S Mishk	in The Ecolo	nomics of	Money Bar	pany Liu iking and	Financia	l Market	s Pearson	Addison	
	2. II W	esley. Newyork,	7 th Edition (2	2004)	inioney, Dui	ining und	1 manora	i ivitui itet	, i cu ison, i	laalboll,	
	3. Pe	ter Howells and	d Keith Bai	n., the Ecor	nomics of M	Aoney and	l Bankin	g, Pearso	on, Educatio	n Limit.	
	3 ^{rc}	Edtion (2005).									
Ref	erence	Books:			T.T	Dance Mar					
	4. SU 5 I	M Bhole and I	Mahukud F	ing for mula	, University	Markets T	v Denn. ata McGi	aw Hill	5th		
	ed	ition, 2011.	ivianakaa, i	manerar mist	itutions und	indikets, i	utu MeGi	uw 1111,	500		
				PO-CO C	Compliance I	Matrix					
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CO	5	2	2								
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CO8 2 2 2 2 2 2											
COS)		2	2	2	2	2				
*1:	Low, $\overline{2}$	Medium, 3: Hig	,h								

	C	Course Name: Economics of Mathematical Finance (ECO 522)			
TEACH	NG SCHEME	EXAMINATION SCHEME CREDITS ALLOTEI)		
Theory:	4 hrs per week	End Semester Examination: 60 marksTheory: 4Internal Assessment: 40 marksTheory: 4			
		Total: 4			
Course Pr	e-requisites:				
1 Must	possess knowledg	e of elementary macroeconomics and mathematics			
Course Ob	jective:				
This of rigoro exper cover theory	course introduces bus study in finance ience mathematica s a wide range of y, security price m toomes: The stud	the basic mathematics to be used in finance. It is ideal for the students who ce in their final year of under-graduation level. This course ensures that st al and economic perspective of the subject. Using mathematics as a tool topics in finance, such as, the time value of money, portfolio theory, capit odeling, and financial derivatives.	want to a idents can his course tal market		
1 Under	stand the mathem	atical foundation of quantitative finance			
2 Grasp	the standard and	advanced quantitative methodologies applied in the area of financial econom	ics.		
3 Create	e and evaluate the	potential models for the pricing of shares and bonds.			
4 Const	ruct, analyze and	evaluate the models for investment of financial assets.			
5 Under	rstand the emergin	ng theories and techniques in the area of financial economics.			
Course Co	ntent:				
UNIT I	Review of basi indicators that r Simple interest,	c mathematical tools, probability theory and random variables. Economi nay affect the financial markets. Mathematics of the Time Value of Money Compound interest, Annuities and amortization theory, NPV, IRR.	2 : 10 hrs		
UNIT II	Mathematics of issues of comm premium and dis	Investment: Buying and selling stocks, Common stock valuation, cost of new non stock, stock value with two-stage dividend growth, Bond valuation scount prices, premium amortization, discount accumulation,	, 10 hrs		
UNIT III	Estimating the measuring the ri	yield rate. Mathematics of Return and Risk: Expected rate of return isk, risk aversion and risk premium, return and risk at the portfolio level.	' 10 hrs		
UNIT IV	Portfolio Theor portfolio, Invest Theory: the fina	ry I: Markowitz Portfolio Model, Two securities portfolio, N-securitie tor Utility, Diversification and randomly selected securities. Capital market uncial beta (β),	s t 10 hrs		
UNIT V	Portfolio Theor Line, CAPM se Sortino ration, V	y II: The Capital Market line, The CAPM equation, The Security Market ecurity risk decomposition. Portfolio Risk Measures: The Sharpe ratio, the Value-at-Risk.	t e 10 hrs		
UNIT VI	VI Derivatives: Forwards, Futures and Options. Dynamics of making profits with options, Intrinsic Values of Calls and Puts, Time value of Calls and Puts, The delta ratio, determinates of option value, Option valuation. Option Pricing: The Black-Scholes-Merton (BSM) mode. 10 hrs				
Internal As	ssessment:				
CIA 1	Unit I, Unit II				
CIA 2	Assignment subm	ission and/or presentation			
Text Book	s:		2015		
1. A	. U. Petters and X	. Dong, An Introduction to Mathematical Finance with Applications (Springe	r, 2016)		
Z. N. Reference	Books:	unematical Fillance, (whey, 2012)			
3. S	Ross, An Elemen	ntary Introduction to Mathematical Finance, Third Edition (Cambrige U. Pres	s,		

Cambr	ridge, 2011)								
4. J Janss	sen, R. Mano	ca, and E. V.	di Prignan	o, Mathemat	ical Finance	e: Determi	nistic and	Stochas	tic Models
(Wiley	7, 2009)								
S. Roman, Intro	oduction to t	he Mathema	tics of Fina	nce (Springe	er, 2004)				
			PO-CC	O Compliance	e Matrix				
	PO1	PO2	PO3	PO4	PO5	PO6			
CO1	2	2	3	3					
CO2	2	2	3	3					
CO3	2	2							
CO4		2	2	2	2	2			
CO5			3	3					
*1: Low, 2: Me	dium, 3: Hig	gh							

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			Course Name: Behavioral Economics	(ECO 523)			
TI	EACHI	NG SCHEME	EXAMINATION SCHEME	CREDITS ALLOTED			
ſ	heory:	4 hrs per week	End Semester Examination: 60 marks	Theory: 4			
	Total: 4						
Co	urse Pre	e-requisites:					
1	Must p	possess knowledge	e of elementary microeconomics				
Cou	ırse Obj	ective:					
	This c	ourse will provide	students with a clear introduction to the pr	inciples and methods of Behaviour	al		
	Econo	mics. Behavioural	l economics considers the ways that people	are more social, more impulsive, le	ess adept		
	at usin	g information, and	d more susceptible to psychological biases	than the standard economic models	s assume.		
Coι	irse Out	comes: The stude	ents will be able to				
1	Under	stand the flexibilit	y and limitations of the economic approach	n to modelling behaviour.			
2	Know	how to use existing	ng behavioural models to understand new e	conomic phenomena.			
3	Know	to design experim	nents to evaluate a proposed behavioural mo	odel.			
4	Know	to evaluate resear	ch in Economics and disciplines related to	behavioural research			
5	Be abl	e to pose a novel	research question, design plan to investigate	e it and conjecture how to answer in	t.		
Coι	irse Cor	ntent:					
		Introduction: WI	hat is behavioural economics?				
UN	лт і	Introduction to the	he themes and methods of behavioural ecor	nomics. Anticipation and	10 hrs		
01		information avoi	dance as introductory example. Making Ch	noices Under Risk: Prospect	10 115		
		Theory How do	people really make choices when faced wit	h uncertainty?			
UN	II TI	The role of refer	ence-dependent preferences in both risky (I	loss-aversion) and risk-free (the	10 hrs		
		endowment effe	ct) choices.				
TIN		Social Preferenc		(10.1		
UN	111 111	How do people of	care about those around them? Both distribu	itional social preferences	10 hrs		
		(altruism, inequa					
UN	NIT IV	Intentions-based	social preferences (reciprocity fairness) T	The possibility of self-deception	10 hrs		
		Heuristics and B	isses	the possibility of sen deception.			
UN	IT V	How do people 1	nake predictions about the world around th	em? The heuristics and biases	10 hrs		
		displayed in jude	gment and decision-making.		10		
UN	IT VI	Nudges, Policy,	and Happiness		10 hrs		

	Hov	v and when sl	nould gove	rnments inte	ervene if pe	ople are "b	ehavioural	"? The th	neory of	
	nud	ges, and happ	iness as an	outcome						
Internal	Assessm	nent:								
CIA 1	Unit I	Unit I, Unit II								
CIA 2	Assig	nment submi	ssion and/o	or presentati	on					
Text Bo	oks:									·
1.	An Intro	oduction to B	ehavioral l	Economics,	N. Wilkinso	on and M. H	Klaes (201	2), Palgra	ave Macr	nillan
2.	Animal	Spirits, G. A	kerlof and	R. Shiller (2	2009), Princ	eton Unive	rsity Press	5.		
Referen	ices:									
3.	Loewer	stein (1987)	"Anticipa	ation and th	he Valuatio	on of Dela	yed Cons	umption'	". Econo	omic Journal,
	97(387)	: 666— 684								
4.	Kahnen	nan and Tvers	sky (1979)	"Prospect T	Theory: An A	Analysis of	Decision	Under Ri	isk", Eco	nometrica,
	47(2): 2	263–								
	291									
				PO-CO	Compliance	e Matrix				
		PO1	PO2	PO3	PO4	PO5	PO6			
CO1		2	2							
CO2		2	2							
CO3			2	2	2	2	2			
CO4				2		3	3			
CO5				3	2					
*1: Low	, 2: Med	ium, 3: High								

		Course Name: Advanced Econometrics (ECO 524)				
TEA	ACHING SCHEME	EXAMINATION SCHEME CREDITS ALLOTED				
Tł	Theory: 4 hrs per weekEnd Semester Examination: 60 marks Internal Assessment: 40 marksTheory: 4					
	Total: 4					
Cou	rse Pre-requisites:					
1	Must possess knowledge	e of introductory econometrics and statistics.				
Cour	se Objective:					
Cour 1	The purpose of this cou inferences at the advance seen in broad heads, i.e. of the course students a analyzing and interprete taught in the previous se se Outcomes: The stude To conduct panel data as	urse is to teach and make student learn about the econometric estimations ce level that can covers wide-range of economic issues. The course structu . Time-series and Panel data analysis which further divided into four units. A re expected to learn how to apply the modern econometrics concepts and m ing empirical research. The basic level of econometric understanding that emester is assumed. ents will be able to nalysis using pooled OLS. Fixed effects and Random Effects model.	and their re can be at the end ethods in has been			
2	To apply time series eco	ponometric techniques to empirical settings				
3	To carry out empirical a	nalyses using economic and financial time series data				
4	4 Interpret the results of such analyses, in terms of the validity of the inferences that can be drawn, and to appreciate the interplay between data and theory in making such inferences					
Cour	se Content:					
UNI	T I Fixed effects an specification test	section data analysis; Introduction to static panel data models: pooled OLS, d Random Effects. Choosing fixed effects vs random effects: The Hausman t,	10 hrs			
UNI	Г II Mundlak's appr	oach, Chamerlain's approach. Robust estimations, Heteroskedasticity and	10 hrs			

	autocorrelations in	n panel dat	a.						
UNIT III	Importance of la Approach, adapt models; Autoregn econometrics: Sta	gs in econ ive expec ressive mo tionary and	nomic varia tations mod dels. Almor d non-statior	bles, Estima lel, adaptive n Approach. nary process;	tions of d e expectati Introducti Tests for s	istributed ions and ion to U stationari	l lag mo partial nivariate ty: unit ro	odel: Koyo adjustme time-seri oot tests.	es 10 hrs
UNIT IV	Time series and (VAR), Granger volatility: the fam	forecasting causality, ily of ARC	g: AR, MA Granger no CH and GAR	, and ARIM n-causality t CH models.	A models. tests: Toda	. The ve a and Ya	ctor auto mamoto	o regressio . Measurii	on ^{ng} 10 hrs
UNIT V	The concept of Multivariate co-ir	spurious tegration t	regressions ests: the Joh	and co-int ansen's appr	egration. oach. ECM	Engle – I and VE	–Grange CM.ARI	r approac DL models	^h , 10 hrs
UNIT VI	Dynamic linear p models.	anel data	models; Pan	el Unit root	tests, GM	M mode	ls, the sy	vstem GM	M 10 hrs
Internal As	sessment:								
CIA 1	Unit I, Unit II								
CIA 2	2 Assignment submission and/or presentation								
Text Books	3:								
1. Gi Pe	reene, William H. (esaran M. H (2015).	2012). Ecc . Time Seri	mometric An es and Pane	alysis, Pears l Data Econo	on Prentice ometrics, O	e Hall, 7t Ixford Ui	h edition niversity	Press	
Reference	Books:								
2. Ai	rellano M. (2003).	Panel Data	l Econometri	ics: Advance	d texts in e	conomet	rics. Oxf	ord Univer	rsity Press
3. Ba	adi H Baltagi (2005). Econom	etric Analys	is of Panel D	ata, 3 rd edi	tion, Joh	n Wiley	and Sons I	Ltd.
4. W M	ooldridge, Jeffrey ITPress.	(2010), 1	Econometric	Analysis o	f Cross S	ection a	and Pan	el Data,	Cambridge:
5. Hs	siao, Cheng (2003).	. Analysis d	of Panel Dat	a, Second Ec	lition, Cam	ıbridge U	niversity	Press	
			PO-CO C	Compliance N	Matrix				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1			3	3	2	2			
CO2			3	3	2	2			
CO3			3	3	2	2			
CO4			3	3	2	2			
*1: Low. 2:	: Medium, 3: High								

С	ourse Name: Economics of Industrial Orga	nization (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					
Course Pre-requisites:	Course Pre-requisites:						
1 Must possess knowledg	e of elementary microeconomics						
Course Objective:							
This course provides a	foundation for the study of theoretical model	ls of industrial organization. This field of					
study is primarily conce	erned with the various strategic objectives and	d interactions in elite markets, employing					
the techniques taught in	n the compulsory course on game theory. It a	also provides a theoretical framework for					
analyzing antitrust/com	petition policy, as well as other policies rela	ted to regulation, innovation, intellectual					
property rights and strat	tegic business policy, which are also covered	by other courses.					
Course Outcomes: The stud	ents will be able to						

1	Think compe	analytically, using	game theo	retic tools, a	bout the prin	cipal issue	s concerr	ning oligopolistic mar	kets,
_	Apply	them to the real w	orld of indu	istry. They w	vould also be	e prepared	to unders	tand competition poli	cv more
2	natura	and foundation	allv			propulsa	to under	in the competition point	• • • • • • • • • • • • • • • • • • • •
	matare	ing and roundation	u11 y .						
Cou	irse Co	ntent:							
		Static oligopoly models with homogenous and differentiated products. Strategic substitutes							
UN	NTT I	and strategic con	plements.			I			10 hrs
UN	IT II	Dynamic models	: Stackelber	rg and free e	ntrv.				10 hrs
UN	III TII	Spatial models of	f horizontal	and vertical	product diff	erentiation			10 hrs
UN	JIT IV	Game Theory, R	epeated gar	ne oligopoly	: Stability an	d sustainal	bility of c	cartels.	10 hrs
		Entry and entry	deterrence	strategies :	Entry Barr	iers. Entry	. Accom	modation, and Exit.	
UN	IT V	"Information and	Strategic F	Behavior. "M	larket Struct	ire	, 1100011	lino dudion, dila 2.110,	10 hrs
	Vertically related markets and vertical contracts between firms Research and Development								
UN	NIT VI Advertising				10 hrs				
Inte	ernal As	ssessment:							
CL	A 1	Unit I, Unit II							
CL	A 2	Assignment submi	ssion and/o	r presentatio	n				
Tex	t Book	s:							
	1. P.	Belleflamme, M.	Peitz: Indus	trial Organis	sation: Marke	ets and Stra	ategies, C	Cambridge University	Press
	(2	2015)							
	2. L	. Cabral: Introducti	on to Indus	trial Organiz	ation, MIT I	Press (2017	7)		
Re	ference	Books:							
	3. M	I. Armstrong, R. Po	orter: Handl	book of Indu	strial Organi	zation, Vo	l. III, Noi	rth-Holland (2007)	
	4. O	. Shy: Industrial O	rganization	Theory and	Application	s, MIT Pre	ess (1996))	
	5. J.	Tirole: The Theory	y of Industr	ial Organiza	tion, MIT Pr	ess (1988)			
				PO-CO C	Compliance N	Aatrix			
		PO1	PO2	PO3	PO4	PO5	PO6		
CC	01	2	2	3	3	2	2		
CC	02			3	3	3	3		
*1:	Low, 2	: Medium, 3: High							

		Course Name: Game Theory	(ECO 526)				
TEACHING SC	HEME	EXAMINATION SCHEME	CREDITS ALLOTED				
Theory: 4 hrs p	er week	End Semester Examination: 60 marks Internal Assessment: 40 marks	Theory: 4				
			Total: 4				
Course Pre-requis	Course Pre-requisites:						
1 Must possess	knowledg	e of elementary microeconomics					
Course Objective:							
Game theory	is a forma	l study of conflicts and cooperation. The	game theoretic concepts apply whenever the				
actions of sev	veral agent	s (individuals, groups, firms etc. or any co	ombination of these) are interdependent. The				
concept of C	ame theor	ry provides a language to formulate stru-	cture, analyze, and understand the strategic				
scenario. Th	s course	would provide the students the main id-	eas of how the game theories can help to				
understand th	e econom	ic and social phenomena. It emphasizes t	he idea behind the theories rather than their				
mathematical	expressio	on typically taught in mathematics. The	e course would introduce some equilibrium				

	concep applic decisio	pts of game th ations. The basi on making skill o	eory and the control of students.	heir usage e of game	in econom theory can	ics along dramaticall	with varie y improve	ous nume the strate	erical examp egic instinct	oles and and the
Cou	irse Out	tcomes: The stu	dents will be	able to						
1	Under	stand the econor	nic and socia	al phenomer	na easily					
2	Under these)	stand the actions in any market st	of several e ructure	conomic ag	gents (indivio	duals, grou	ps, firms et	c. or any o	combination	of
3	Impro	ve their strategic	instinct and	the decisio	n making sk	ill				
4	Elucid	late the concept of	of equilibriu	m in any bra	anch econor	nics				
5	Under	stand, clearly, th	e concept of	Nash Equi	librium, diff	erent marke	et strategie	s and zero	-sum game	
Cou	irse Coi	ntent:								
UN	IT I	Introduction to theory of ration	Game Theo nal choice	ory; History	of Game Th	neoretic An	alysis; clas	sification	s of games;	10 hrs
UN	II TII	Γ IIStrategic Game: The Pay-off matrix; the Prisoner's dilemma.101				10 hrs				
UN	IT III	T III Nash Equilibrium: The concept of Nash Equilibrium; dominating and dominated strategies; zero-sum game			10 hrs					
UN	UNIT IV Mixed Strategy Nash Equilibrium: concepts and examples; strategic game with randomization. Games with perfect information.				10 hrs					
UN	UNIT V Games with imperfect information; Bayesian Games; Cournot's duopoly game with imperfect information; auction; other applications				10 hrs					
UN	IT VI	Repeated and (Cooperative	Games						10 hrs
Inte	rnal As	sessment:								
CL	A 1	Unit I, Unit II								
CL	A 2 .	Assignment subi	nission and/	or presentat	ion					
Tex	t Books	5:								
	1. Os	sborne J Martin	(2004), An I	ntroduction	to Game Th	eory, Oxfo	rd Univers	ity Press		
Ret	ference	Books:								
	1. Fu	denberg, D. and	Tirole, J. (1	991), Game	e Theory, M	IT Press				
	2. Gi	ibbons, R. (1992), A Primer	in Game Th	eory, Prenti	ce-Hall				
	3. M	yerson, R. (1991): Game The	eory: Analy	sis of Confl	ict, Harvaro	l Universit	y Press		
				PO-CO	Complianc	e Matrix		,		
		PO1	PO2	PO3	PO4	PO5	PO6			
CO)]	3	2	3	2		2			
CO	02	2	2							
CO	03			2	2	1	1			
CO	4	2	2	3						
CO	5	2	3	2						
*1:	*1: Low, 2: Medium, 3: High									

	Course Name: H	Conomics of Environmental Issues and Sustainable Development (ECO 527)
TEA	ACHING SCHEME	EXAMINATION SCHEME CREDITS ALLOTED	
Th	eory: 4 hrs per week	End Semester Examination: 60 marks Internal Assessment: 40 marksTheory: 4	
		Total: 4	
Cou	se Pre-requisites:		
1	Must possess knowle	dge of elementary microeconomics and environmental economics	
Cours	se Objective:		
ŗ	The course aims to o	liscuss the various approaches of sustainable development, emergence of the c	oncept of
5	sustainable developm	hent and role of environment in sustainable development. It also deals with inter-	rnational
Cour	and domestic environ	imental issues and the new economic framework of genuine well-being and napp	iness.
Cours	Critically appreciate	the relevance of environmental economics in linking the notions of su	stainabla
1	density appreciate	the relevance of environmental economics in mixing the notions of st	stamable
1 (development.		
2	Understand the vario	us approaches of sustainable development and how they are different from each	other.
3	Understand various t	rans-national environmental issues.	
	Follow various issue	s related to energy, water, land, transport issues in association with the environm	ental
4 (concerns in India		
5	Appreciate the emerg	gence of genuine wealth and its relevance in the new economic framework of we	1-being
6	Comprehend the effe	cts of globalization on environment.	
Cours	se Content:		
UNI	T I The concept Pursuits of S Ecological ar	of Development and emergence of a new paradigm: Sustainable Development. Sustainable Development. Aspects of Sustainable Development : Economic, ad Social, a Synthesis	10 hrs
UNI	T II Theory of Su Hartwick-Sol approach, Da goals' approa	stainable Development: Rules of sustainable development and Indicators: The ow approach, Non-declining natural capital stock approaches, The SMS ly's operational principles, The Common-Perrings model of SD, 'Distance to tech.	10 hrs
UNI	Trade and I T III dumping and	Environment: Trade, Foreign Investment and the Environment. Ecological standards	10 hrs
UNI	TIV Trans-nation Globalization	al Pollution. Porter's hypothesis, race to bottom and pollution haven hypothesis. A, Economic Reforms and the Environment	10 hrs
UNI	T V i) Indi ii) Wat	and Economic Growth an Energy and Environment issues er, Land Transport and Urban development issues	10 hrs
UNIT	Genuine Wea The Genuine economy of cycle. Genuin of Bhutan	Ith and Sustainable Development Wealth Model : Defining genuine wealth , Old Economy of scarcity and new well-being, Five Capital of Genuine wealth. Genuine wealth assessment life ne wealth models of communities and nations. Gross National Happiness: Case	10 hrs
Intern	nal Assessment:		
CIA	1 Unit I, Unit II		_
CIA	2 Assignment su	bmission and/or presentation	

 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 Universi
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 an Case Studies, Cheltenham: Edward Elgar.
PO-CO Compliance Matrix
PO1 PO2 PO3 PO4 PO5 PO6
CO1 3 2 2
CO2 3 3 2
CO3 2 2 2 2
CO4 2 2 2 2
CO5 2 2 2 2
CO6 2 2 2 2
*1: Low, 2: Medium, 3: High

	Course Name: Health Economics (ECO 528)									
TI	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	Must possess knowledge	e of elementary economics								
Cou	rse 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									
Cou	arse Outcomes: The stude	ents will be able to								
1	The key analytical reasoning and tools of health economics and their normative foundations and ethical implications									
2	Use economic models to	o understand behaviors of actors in the heat	th care sector							
3	Undertake economic eva analysing health outcom	aluation in healthcare, with an emphasis or les and costs	n identifying, measuring, valuing and							
4	Understand approaches	to identify and value costs and outcomes to	o include in economic evaluation							
5	Make analyses of efficie	ency and quality of health care organization	15							
6	Develop competence to health services, demand	apply economic concepts and models to for health insurance, provision of health in	the fields of demand for health, demand for asurance and provision of health care.							

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7	Develo	velop competence to describe, analyze and critically address economic aspects of health care organizations											
8 Understand fundamentals of markets and the price mechanism with a focus on the healthcare market													
Cou	Course Content:												
UNIT I Health Economics I: The state and scope of health economics, Human Capital and he Health as a Social Indicator, Health dimensions of development: the health and develop interdependency,						and health, evelopment	10 hrs						
UNIT II		Health Economics II: the dual Relationship between Health and Economic Status, Determinants of health: Poverty, Malnutrition and Environmental quality, Components of economic appraisal of health programme.								10 hrs			
UNIT III		Costs and Bene services, the fail services by the g	efits of hea ure of the n overnment	llth services narket to prov ,	I :Private vide essentia	benefits ar l health se	nd costs rvices, th	of provide of provision	ding health on of health	10 hrs			
UNIT IV		Costs and Benef and family plan professional mar	its of health ning projec power in h	n services II : cts, benefits ealth sector.	application and costs (l	of cost ber ooth privat	nefit anal e and so	ysis to p ocial) of	f health care organizations nealthcare market apital and health, and development 10 hrs acconomic Status, f, Components of 10 hrs providing health rovision of health 10 hrs s to public health 10 hrs in of training to 10 hrs nent of mortality: 10 hrs illness, Burden of 10 hrs postulates, DALY 10 hrs reciation. Health 10 hrs momics, Newhouse North- 10 hrs nomics, Newhouse North- 10 hrs nomics of Health and Health Care, 10 hrs incs of Health and Health 10 hrs				
UN	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,							10 hrs					
UN	UNIT VI DALY: A measure of burden, The DALY framework: Components and postulates, DALY and QALY, the GBD assessment, BD and DALY: A critical appreciation. Health Accounting: National health accounts, from SNA to NHA, Health expenditure efforts.						10 hrs						
Internal Assessment:													
CLA	A1 1	Unit I, Unit II											
CLA	A 2 .	Assignment submi	ission and/c	or presentatio	n								
Tex	t Books	:											
	1. Ai He	nthony J. Cuyler olland,Elsevier Sci	and Josep ience	h P. (ed.) ((2000), Hano	dbook of	Health E	Economic	s, Newhous	e North-			
Ret	ference	Books:											
	2. Cl	ewar, Ann, and D	avid Perkin	s. 1998. Eco	nomics of He	ealth Care	Managen	nent. Lon	don Prentice	Hall.			
	3. Fo	lland, Sherman, A	Allen Good lan Third F	man, and M	ironStano, 2	001. The l	Economic	cs of Hea	alth and Hea	lth Care,			
	4. Sh	erman Folland, A	Allen C.Gk	oodman, and	I MironStan	o, (2004),	The Eco	nomics o	of Health an	d Health			
	Ca	re, 4 th Edition, Pr	entice Hall.										
				PO-CO C	Compliance N	Matrix							
		POI	PO2	PO3	PO4	PO5	PO6						
	01		3	2	2	2							
CO	2			3	3	2	2						
<u> </u>	3		2	2	2								
CO4	4	2	2	3	3	-	2						
CO:	5		-	2	2	2	2						
	0 7		2	2	2	2	2						
	/ Q	2	2	3	3	3	2						
*1:	*1: Low. 2: Medium. 3: High												

Course Name: Natural Resource Economics (ECO 529)									
TEACHING SCHEME	TEACHING SCHEME EXAMINATION SCHEME CREDITS ALLOTED								
Theory: 4 hrs per week	End Semester Examination: 60 marks	Theory: 4							

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			Interna	al Assessmer	nt: 40 marks						
							Total: 4				
Co	Course Pre-requisites:										
1	1 Must possess knowledge of elementary microeconomics and environmental economics										
Cou	Course Objective:										
	This course deals with the theoretical framework of the optimal use of renewable and non- renewable natural resources. It also aims to target the common property issues and role of institutions in handling it.										
Cou	Course Outcomes: The students will be able to										
1	Know the extension of general equilibrium to resources and environment.										
2	Understand the concept of steady state harvests and the biological growth function of renewable resources.										
3	Learn the process of arriving at bio-economic equilibrium outcome in an open access fishery and static private property fishery.										
4	Construct the model for efficient and optimal use of non-renewable resources.										
5	Under	stand the static and	l dynamic e	fficiency co	nditions of th	ne reso	ource opt	timiza	tion pro	blem.	
6	Comp	rehend about some	e of the way	s in which p	eople's partic	cipatio	on can be	e mad	e effecti	ve.	
Cou	irse Cor	ntent [.]									
		Economy wide	Modeling:	Environme	ntal Input o	output	Analys	sis, C	Computa	ble Genera	1 101
UN		Equilibrium mod	el for Reso	urces and En	vironmental	Pollut	tion.		1		10 hrs
UN	II TII	Economics of Re Optimal Manage	mewable Re ment of Rei	esources I: G newable Res	ources – Cas	ons an es of V	nd growt Water, F	h rate orest,	and Fis	hery:	10 hrs
UN	IT III	Economics of Re Resources.	enewable R	esources II:	Theories of I	Pricing	g, Deple	tion a	nd Aug	mentation of	f 10 hrs
UN	IT IV	Economics of N	Non-Renewa	able Resour	ces I: Theo	ries o	of Deple	etion	and Inv	vestment fo	r 10 hrs
UN	IT V	Economics of No	on-Renewal	ole Resource	es II: Pricing	and I	Market.	Natur	al Reso	urce Cartels	;: 10 hrs
		Cases of Energy Economics of Co	and Non-fu	el Minerals perty Resour	ces and Instit	tutions	s: Open	Acces	ss: Econ	omic Failur	e
UN.		and consequence	s; Managen	nent of Open	Access; Par	ticipat	tory App	oroach	and Ins	stitutions	10 hrs
Inte	$\frac{1}{1}$	sessment:									
		Unit I, Unit II	ssion and/o	r procontatio	n						
	t Books	Assignment submi	ssion and/o	r presentatio	11						
ТСЛ	1. F	Ianely, Nick, Jasor	n F.Shorger	and Ben W	hite. Enviror	nment	al Econo	mics	: In The	orv and Pra	ctice 1999.
	N	IacMillian	snorgen	.,						ory and 114	, inter 1999
-	2. Ro	oger Permanet. al.,	Natural Re	source and E	Environmenta	al Eco	nomics,	Third	edition	, Pearson(M	odule I).
Ref	ference	Books:									
	3. Cl	ement A Tisdell,	Economics	of Environ	mental Cons	ervatio	on, Seco	ond E	dition, l	Edward Elg	ar(Module
	1V 4 Te). Tistarhang En		and Matanal	Deserves		in Con		□ .1:4:	Deensen (M	(adula III)
	$\frac{4.10}{5}$	wid Anderson En	vironmenta	Economics	and Natural	Resou	IICS, SEV		cultion,	rearson (M	odule III).
5. David Anderson, Environmental Economics and Natural Resource Management, Routledge.											
PO-CO Compliance Matrix											
		PO1	PO2	PO3	PO4	PO5	P	06			
CO)1	2	2								
CO	02	2	2								
CO)3	2	2								
CO	4		2	3	3	1	1				
CO	5	2	2			2	2				
CO	6	2	2			2	2				
*1:	*1: Low, 2: Medium, 3: High										

	Course: Introduction to Environmental Valuation (ECO530)									
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 (3 L+ 1 T)							
			Total: 4							
Co	urse Pre	e-requisites:								
1	1 Student must nave completed Bachelor's Degree									
2	Must l	Have completed a	basic course on Environmental Economics							
Cou	Course Objective:									
	Course comm technie enviro	e Objective: The odities especially ques would help t nmental commodi	e course aims to disseminate the techniques of valuing the worth of no environmental goods and service. Several case studies based on different the students appreciate the application of these techniques in determining the ities.	n-market valuation worth of						
Cou	irse Out	comes: The stude	ents will be able to							
1	Discer	n valuation criteri	ion in environmental economics, including its key principles and methods.							
2	Use m	icroeconomic prir	nciples in valuation of environmental good and services							
3	Deter	mine consumer pr	references to infer demand for environmental quality.							
4	Apply	approaches of n	s of application	strengths,						
5	Demo	instrate theoretica	and practical application of different valuation techniques							
6	Apply	cost benefit analy	visis to decide on a sustainable project.							
Cou	irse Coi	ntent:	1 J							
UN	UNIT I Economic Theory and Measurement of Environmental Benefits. Demand for Environmental Service – Willingness to Pay and Willingness to Accent									
UN	IIT II	Economic Valua Concepts of Con rationed goods a	ation of Environmental Damage or Benefits II nsumer's Surplus. Compensating and Equivalent Surplus in the context of and the Environment.	10 Hrs						
UNIT III III III		Alternative Appr i. Reveale Production Func ii. Case str	ve Approaches and Methods of Environmental Valuation – I Revealed Preference and Stated Preference Method – Hedonic Pricing, Household on Function, Travel Cost Method, Defensive cost and Contingent Valuation Method. Case studies to be discussed.							
UNIT IV		Alternative Apprili.Valuativeiii.Case studie	roaches and Methods of Environmental Valuation –II on of Health and Human Life udies to be discussed	10 Hrs						
UNIT V Alternative i. Va ii. Ca			roaches and Methods of Environmental Valuation –III g Environment as Input in Production udies to be discussed	10 Hrs						
UN	IT VI	Environmental A i. Sustain ii. Green A iii. Enviror iv. Rationa v. Theory	Accounting and Measuring Green GDP able Macroeconomic Accounting of National Income and Wealth. Accounting. nmental Cost-Benefit Analysis for Sustainable Development. ale of Discounting the Future in the context of Sustainability of Krutilla-Fisher Equation for Preservation or Development	10 Hrs						
1				1						

Internal Assessment:										
CIA 1	Unit I	Unit I, Unit II								
CIA 2	Assig	Assignment submission and/or presentation/Written Test								
Text Books:										
6.	6. Kolstad C.D., Environmental Economics, Oxford University Press, 2000.									
Referen	ce Book	s:								
3.	Johanss	on Per-Olov:	The Econd	mic Theory	and Measure	ement of E	nvironme	ental Benefits,	Cambri	dge
	Univers	ity Press, Can	nbridge, 19	987.						
4.	Bhattacharya R.N. (ed.), Environmental Economics: An Indian Perspective, Oxford University Press,									
	2001.									
5.	M.N. M	lurthy Enviror	nment, Sus	tainable Dev	velopment, a	nd Well-be	ing Valu	ation, Taxes, a	and Ince	ntives,
	OUP M	ay 2009								
				PO-CO C	Compliance M	Matrix				
		PO1	PO2	PO3	PO4	PO5	PO6			
CO1		1	2			3				
CO2		1	2		3	3	2			
CO3 1 2 1 3 3 2										
CO 4 2 3 3										
CO 5				2	3	3	3			
CO 6	CO 6 2 2 3 2									
*1: Low,	*1: Low, 2: Medium, 3: High									