DAV University, Jalandhar

Department of Commerce Business Management & Economics



Scheme and Syllabi

for

Bachelor of Science (Economics) Honours/ Honours with Research

(As per NEP-2020)

Batch-2023 & onwards

Introduction of the Programme

The B.Sc. (Economics) Honours programme has been designed to provide a cutting-edge expertise in mainstream economics with minor (Econometrics). The programme aims to develop analytical, creative and critical thinking skills for problem solving and decision making. It aims at better understanding of social, economic and political issues and also explores the full spectrum of finance. The transferable skills attained through the B.Sc. (Economics) Honours are highly sought after by employers and increase the employability quotient of students in various dynamic fields. A student could be an economist, a government advisor, financial consultant, econometrician, banker and also look forward to different government positions after successful completion of the programme. Keeping in view the new NEP, the programme is multidisciplinary in nature and integrates different fields like Finance, Mathematics, Statistics, Operations Research, industrial sector, agriculture sector, Environmental Studies, Model Building with an inbuilt local as well as global perspective. New elements such as internship, case studies, seminars and research projects enhance deeper understanding of the practical applications of the programme. So, join in to embark on a whole new adventure with us. The Bachelor's degree Honours programme in Economics is a full-time undergraduate programme of 4 years that aims at providing a programme structure which would retain the 'traditional' in the programme and equip the students with business acumen necessary to succeed in the professional world. On completion of B.Sc. (Economics) Honours at DAV University, students will acquire comprehensive knowledge of how the economic principles are applied in the society, family, government and private sector, business, and science.

Program Educational Objectives (PEOs)

PEO1- Develop the ability to explain core economics terms, concepts and theories.

PEO2- To gain an understanding of core economic principles and how they apply to a wide range of real world issues.

PEO3- To identify the key macro-economic indicators and measures of economic changes, growth and development.

Program Outcomes (POs)

PO1: Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2: Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3: Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4: Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5: Ethics: Recognize different value systems including your own, understand the moral dimensions

of your decisions, and accept responsibility for them.

PO6: Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO7: Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Program Specific Outcomes (PSO's)

PSO1- To enable experiential learning through Major and interdisciplinary curricula that will nurture ethical and responsible global citizens of the future.

PSO2- To rigorously train the students to apply their analytical abilities in order to recognise and solve problems of business and society, locally, regionally and globally.

PSO3- To equip students with the requisite skills to undertake a research-oriented approach to problem solving and enhance the existing body of knowledge globally.

Mapping of PEC) with POs
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	PEO 1	PEO 2	PEO 3
PEOs			
Pos			
P01	Yes	Yes	Yes
PO2		Yes	Yes
PO3	Yes	Yes	
PO4			Yes
PO5	Yes		Yes
PO6	Yes		
PO7	Yes	Yes	Yes

Mapping of PEO with PSO

	PEO 1	PEO 2	PEO 3
PEOs			
PSOs			
PSO1	Yes	Yes	
PSO2	Yes	Yes	Yes
PSO3	Yes		Yes

Scheme of Courses- Bachelor of

Science (Economics) Honours/ Honours with Research

	Credit Details							
S.No.	Course Category	Course Category Abbreviation	3-Yr B.Com/ (Credits)					
1.1	Discipline Specific Courses-Core	DSC	61					
1.2	Discipline Specific-Skill Enhancement Courses- Core	DS-SEC	-					
1.3	Discipline Specific-Value Added Courses-Core	DS-VAC	-					
	Total of Discipline Specific Core Courses	;						
2.1	Minor Courses	MC	24					
	OR	<u>I</u>	1					
2.2	Interdisciplinary Courses	IDC	-					
3	Multidisciplinary Courses	MDC	9					
4	Ability Enhancement Course- Common	AEC-C	8					
5	Value Added Courses-Common	VAC-C	6					
6.1	Skill Enhancement Courses- Common	SEC-C	10					
6.2	Skill Enhancement Courses-Summer Internship	2						
	Total of Skill Enhancement Courses	1						
	Total Credits	120						

Scheme of Courses- Bachelor of

Science (Economics) Honours/ Honours with Research

Credit Details								
S.No.	Course Category	se Category Course Category Abbreviation		4-Yr B.Com (Hons/ (Hons. with Res.) (Credits)				
1.1	Discipline Specific Courses-Core	DSC	85	81				
1.2	Discipline Specific-Skill Enhancement Courses-Core	DS-SEC	-	-				
1.3	Discipline Specific-Value Added Courses-Core	-	-					
	Total of Discipline Specific Core	e Courses						
2.1	Minor Courses	MC	40	32				
		OR						
2.2	Interdisciplinary Courses	IDC	-	-				
3	Multidisciplinary Courses	MDC	9	9				
4	Ability Enhancement Course- Common	AEC-C	8	8				
5	Value Added Courses-Common	VAC-C	6	6				
6.1	Skill Enhancement Courses- Common	SEC-C	10	10				
6.2	Skill Enhancement Courses-Summer Internship	SEC-SI	2	2				
6.3	Skill Enhancement Courses- Research Project/Dissertation	SEC-RP	-	12				
	Total of Skill Enhancement Courses	<u> </u>						
	Total Credits		160	160				

Semester 1

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN103	Microeconomics-1	4	0	0	4	DSC
2	ECN104	Macroeconomics-1	4	0	0	4	DSC
3		Multi-disciplinary Elective	-	-	-	3	MDC
4		Skill Enhancement-Elective	-	-	-	2	SEC-C
5		Skill Enhancement-Elective	-	-	-	2	SEC-C
6		Value Added Courses	-	-	-	3	VAC-C
7		Ability Enhancement Elective	-	-	-	2	AEC-C
						20	

Note:

- 1. Student is required to opt for skill enhancement course of two credits from the relative basket.
- 2. Student is required to opt for Multi-Disciplinary Course of three credits from the relative basket.

	Semester 2									
S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type			
1	ECN105	Microeconomics-II	4	0	0	4	DSC			
2	ECN106	Macroeconomics-II	4	1	0	5	DSC			
3		Multi-Disciplinary Elective	-	-	-	3	MDC			
4		Ability Enhancement Elective	-	-	-	2	AEC-C			
5		Skill Enhancement-Elective	-	-	-	3	SEC-C			
6		Value added course	-	-	-	3	VAC-C			
						20				

Note:

Student is required to opt for skill enhancement course of two credits other than opted in previous semester/s from the relative basket.

Student is required to opt Multi-Disciplinary Course of three credits other than opted in previous semester/s from the relative basket

First Exit:

Option 1: Industry Engagement program for 4-6weeks (with minimum 120 hours)

Option 2: Apprenticeship with NSSO for 4-6 weeks (with minimum 120 hours)

The student will be awarded "Undergraduate Certification in Economics" after exit at this point.

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN201	Microeconomics-III	4	0	0	4	DSC
2	ECN202	Macroeconomics-III	4	0	0	4	DSC
3	ECN251	Statistics-I	4	0	0	4	MD
4		Multi-Disciplinary Elective	-	-	-	3	MDC
5		Ability Enhancement- Elective	-	-	-	2	AEC-C
6		Skill Enhancement-Elective	-	-	-	3	SEC-C
						20	

Semester 3	3
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Note:

- 1. Student is required to opt for skill enhancement course of two credits other than opted in previous semester/s from the relative basket.
- 2. Student is required to opt for ability enhancement course of two credits other than opted in previous semester/s from the relative basket
- 3. Student is required to opt Multi-Disciplinary Course of three credits other than opted in previous semester/s from the relative basket

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN203	Development Economics	4	0	0	4	DSC
2	ECN204	Regional Economics with special reference to Punjab Economy	4	0	0	4	DSC
3	ECN205	Money and Banking	4	0	0	4	DSC
		Ability Enhancement- Elective	-	-	-	2	AEC-C
4	ECN252	Statistics-II	4	0	0	4	MD
5	ECN253	Mathematics for Economists-1	4	0	0	4	MD
						22	

Semester 4

Note:

1. Student is required to opt for ability enhancement course of two credits other than opted in previous semester/s from the relative basket

Second Exit:

Option 1: Industry Engagement program for 4-6 weeks (with minimum 120 hours)

Option 2: Apprenticeship for 4-6 weeks (with minimum 120 hours) **The student will be awarded "Undergraduate Diploma in Economics" after exit at this point.**

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type		
1	ECN301	Agricultural Economics	4	0	0	4	DSC		
2	ECN302	Indian Economy	4	0	0	4	DSC		
3	ECN350	Internship	0	0	0	2	SEC-SI		
4	ECN351	Statistics- III	4	0	0	4	MD		
5	ECN352	Mathematics for Economists-II	4	0	0	4	MD		
						18			

Semester 5

	Semester 6								
S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type		
1	ECN303	Public Finance	4	0	0	4	DSC		
2	ECN304	International Economics	4	0	0	4	DSC		
3	ECN305	Economics of Health and Education				4	DSC		
4	ECN306	Environmental Economics	4	0	0	4	DSC		
5	ECN353	Mathematics For Economists-III	4	0	0	4	MD		
						20			

Note

The student will be awarded "Bachelor's Degree in B.Sc. Economics" after completion.

S. No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN401	Industrial Economics	4	0	0	4	DSC
2	ECN402	Labor economics	4	0	0	4	DSC
3	ECN403	Research Methodology	4	0	0	4	DSC
4	ECN451	Research Project-1 (Synopsis)	0	0	0	3	SEC-RP
5	ECN452	Basic Econometrics	4	0	0	4	MD
						19	

Semester 7 (With Research)

Semester 8

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN405	Global Political Economy	4	0	0	4	DSC
2	ECN406	Advanced Global Trade Challenges and Opportunities	4	0	0	4	DSC
3	ECN453	Research Project-II (Dissertation)	0	0	0	9	SEC-RP
4	ECN454	Advanced Econometrics	4	0	0	4	MD
						21	

Note:

1. Student is required to opt for value added course of two credits other than opted in previous semester/s from the relative basket.

The student will be awarded "Bachelor's Degree (Honours with Research) in Economics" after completion.

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN401	Industrial Economics	4	0	0	4	DSC
2	ECN402	Labor economics	4	0	0	4	DSC
3	ECN407	History of Economics Thoughts	4	0	0	4	DSC
4	ECN452	Basic Econometrics	4	0	0	4	MD
5	ECN455	Operational research	2	0	4	4	MD
						20	

Semester 7 (without Research)

Semester 8

S.No	Paper Code	Course Title	L	Т	Р	Cr	Course Type
1	ECN405	Global Political Economy	4	0	0	4	DSC
2	ECN406	Advanced Global Trade Challenges and Opportunities	4	0	0	4	DSC
3	ECN408	Financial Economics	4	0	0	4	DSC
4	ECN454	Advanced Econometrics	4	0	0	4	MD
5	ECN456	Data Analysis	2	0	4	4	MD
						20	

Note:

The student will be awarded "Bachelor's Degree (Honours) in Economics" after completion.

Course Code	Ability- Enhancement Courses	Cr.	Course Code	Skill- Enhancement Courses	Cr.	Course Code	Value- Added Courses	Cr.
MGN90 1A	Personality Enhancement	1L+1P	MGN90 1S	Essentials of Entrepreneurship- Thinking and Action	2L+1P		Environment al Studies (Mandatory)	2L+1 P
MGN90 2A	Personality Development	2P		Design Thinking	2P		Human Values and Ethics (Mandatory)	2L+1 T
	Behavioural& Life Skills	1L+1P		Design Thinking & Innovation	2L		Gender Sensitization	2L
	Global Citizenship in Higher Education	2L		Data Analytics	2L+1P		Professional Ethics	2L
	Communication Skills (Mandatory)	1L+1P		Cyber Security	3 (2L+1 P)		Sustainable Development	2L
	Health & Yoga	1L+1P		Digital Fluency	1L+1P		Green Technologies	2L
	Technical Report Writing	2L		Fundamentals of Computer programming & IT(FCPIT)	2L		General Studies	2L
MGN90 3A	Leadership Management	2L		Python Programming	3 (2L+1 P)		NSS	2 (1L+1 P)
	Therapeutic Yoga	1L+1P		Disaster Preparedness and Planning	2L			
	Creative & Critical Thinking	1L+1P		Intellectual Property Rights	2L			
	Community Engagement & Social Responsibility (Mandatory)	1L+1P		Apiculture	2P			
	• • • • • • • •			NCC*	3 (2L+1 P)			

Multidisciplinary Studies

Course Code	Course Name	Faculty/Department
	Basics of Physics	Physics
	Basics of Chemistry	Chemistry
	Basics of Biology	Zoology & Botany
	Introductory Biotechnology	Biotechnology
	Introductory Microbiology	Microbiology
	Functioning of the Human Body	Zoology
	Introductory Botany	Botany
MGN901M	Business Management for Beginners	CBME
MGN902M	Fundamental of Mutual Funds	CBME
ECN901M	Economics for Beginners	CBME
	Professional Communication	English
	Fine Arts	Arts, Fine Arts & Performing Arts
	Jyotish: 'Eye of the Veda'	Vedic Studies
	Mathematical Statistics	Mathematics
	Introductory Journalism	JMC
	Professional Photography	JMC
	Library Information Sciences	Library Sciences



L	Т	Р	Credits
4	0	0	4

Course Code	ECN10	ECN103						
Course Title	Microe	economics – I						
Course Outcomes	from persp CO2: inter imper CO3: equil	the ective of ir The students actions of s fect markets The student ibrium.	ndividual s learn son supply and s. will learn	decision maki me basic prir	ng as nciples charac nction	consum of mi terist functi	ers ar croecc ics of on and	pnomics, f perfect and d producer
Examination Mode	Theory	7						
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		1		1		1		CO Mapping
Unit 1								
٠		action to Econor problems of an e		g, Definition, Sco	ope, Impo	ortance a	and	CO1
•		nd and Supply fur rium due to cha		ket Equilibrium, ad and supply.	Shift in 1	narket		CO1
•	Elasticity of demand: Methods of calculating price, income, and cross CO1 elasticities; Degrees and their interpretation, relationship among various CO1							
•	Elasticity of Supply: Meaning and Method of calculating elasticity of CO1 Supply. Degrees and their interpretation. CO1							CO1
Unit 2								
•		mer Choice: Car w of Equi Marg	•	Law of Diminish	ning Mar	ginal Ut	ility	CO2

•	Ordinal theory: Budget sets, Indifference curves: Meaning and properties, marginal rate of substitution.	CO2
•	Consumer equilibrium; effects of change in prices and income; Income and substitution effects: Hicksian approach.	CO2
Unit 3		
•	Theory of production: Production function, isoquants, properties of isoquants, iso-cost lines, optimum input combination.	CO3
•	Producer's Equilibrium, Expansion Path, Principle of marginal rate of technical substitution.	CO3
•	Law of variable proportions and Law of returns to scale.	CO3
Unit 4		
•	Theory of Cost: concept of economic cost; Short run and long run cost curves; increasing and decreasing cost industries; envelope curve.	CO4
•	Traditional cost theory v/s Modern cost theory	CO4
•	Revenue analysis: concept of total revenue, marginal revenue and average revenue & their relationships	CO4
Text Books	 Bernheim, B. D., M. Whinston and A. Sen. <i>Microeconomics</i>. Tata McGraw-Hill Education. Koutsoyiannis, A. <i>Modern Microeconomics</i>. Palgrave Macmilian, Second Edition, 2003 Lipsey, G. and K.A. Chrysal. <i>Economics</i>. Oxford University Press. 2004. Mankiw, N.Gregory. <i>Principles of Economics</i>. Worth Publishers. 2007. Seventh Edition. Salvatore, D. <i>Microeconomics: Theory and Applications</i>. Oxford University Press. 2008 Samuelson, P.A. and W. D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN10	ECN104						
Course Title	Macroe	Macroeconomics – I						
Course Outcomes	CO2: 7 CO3: 7	 CO1: To understand the concept of national income and different methods of measuring it. CO2: To summarize the contributions made by the classical economists in macroeconomics. CO3: To summarize the contributions made by the Keynesian economists in macroeconomics. CO4: To understand the concept of money and the factors contributing demand for money 						
Examination Mode	Theory							
	Continu	uous Assessmer	ıt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		I		I		I		CO Mapping
Unit 1	Introdu	iction to Macroe	conomics					
•	Meani limitati	•	cope, import	ance, Micro vs. N	Aacroeco	nomics,	and its	CO1
•		les: Real and no ; ex-ante andex-		ed and autonomo	us; Lagge	ed and u	n-	CO1
٠		and Equations; I sequilibrium.	Equality & ide	entity; stock and f	flow; Stat	ic, Equi	librium	CO1
Unit 2	Nation	al Income						
•		Definition: Economic and Non- Economic Production: Productive Vs Non- CO2 productive,intermediate, and final output; CO2						
•	income Output	e: Concepts, con	ponents and e methods,D	urement of Natio methods of meas ifficulties in natio NP.	surement;	Income		CO2

•	Circular flow of income in two, three and four sectors' economies;	CO2
Unit 3		
•	National Accounts: Meaning, objectives and importance. Different methods of preparing national income accounts; Social Income Accounts, Fund Flow Accounting, Balance of Payment method and Input Outputmethod.	CO3
•	GNP and Welfare; Inter temporal and international comparisons of National income.	CO3
Unit 4	Determination of Income and Employment:	
•	Classical View: Labour Market; Product Market and MoneyMarket.	CO4
•	Say's Law of Markets (Barter and a monetized economy).	CO4
•	Classical theory of income, output and income determination.	CO4
Text Books	 Beckerman, W. An introduction to National Income Analysis, London, E.L.B.S. 1976. Studenski, Paul, A. The Income of Nations part 2, Theory and Methodology, New York UniversityPress, 1958. Ackley, G. Macro Economics: Theory and Policy. Macmillan publishers. 1978. Branson, William H. Macro-Economic Theory and Policy. Indian edition. Dornbush, R., S. Fisher and R. Startz. Macro Economics. Tata Mc. Graw Hill. 2004. Rana, K.C. and K.N. Verma. Macro-Economic Analysis. Vishal Publishing Co. 2014. Shapiro, Edward. Macroeconomic Analysis. Galgotia Publications. 1999. Indian edition. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN1	ECN105								
Course Title	Microe	Microeconomics – II								
Course Outcomes	CO2: 1 CO3: 5	CO1: To inculcate knowledge of perfect competition and monopoly. CO2: To inculcate knowledge of monopolistic competition. CO3: Students will learn the concepts of oligopoly and price discrimination. CO4: Enable students about the game theories in microeconomics.								
Examination Mode	Theory									
	Contin	uous Assessm	ent		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus								CO Mapping		
Unit 1								CO1		
•	and inc	•	et period, sho	rice determination rt run and long ru y curves.	-			CO1		
•	-	ooly: Meaning, ng run, monop	-	s, equilibrium of t pply curve.	the mono	opolist ir	n short	CO1		
•				grees, conditions and reg	-	librium	in	CO1		
Unit 2								CO2		
•		polistic compet mand curve, fi		ng, assumptions, p equilibrium;	product d	ifferenti	ation	CO2		
•	Selling	g costs, excess	capacity, Dur	nping.				CO2		
•	Price d	Price determination under monopsony and bilateral monopoly.								

		CO3
Unit 3		
•	Oligopoly: meaning, features, causes for the existence of oligopoly, approaches to the determination of price and output under oligopoly	CO3
•	Non-Collusive Oligopoly: Cournot, Bertrand, and Kinked demand curve model.	CO3
•	Collusive Oligopoly: Cartels and price leadership models.	CO3
Unit 4		CO4
•	Game Theory: basic concepts; Prisoner's Dilemma; competitive strategy: dominant strategies and Nash Equilibrium.	CO4
•	Concepts of expected value and uncertainty, markets with asymmetric information-adverse selection, moral hazards, agency problems	CO4
Text Books	 Bernheim, B. D., M. Whinston and A. Sen. <i>Microeconomics</i>. Tata McGraw-Hill Education. Koutsoyiannis, A. <i>Modern Microeconomics</i>. Palgrave Macmilian, Second Edition, 2003. Lipsey, G. and K.A. Chrysal. <i>Economics</i>. Oxford University Press. 2004. Mankiw, N.Gregory. <i>Principles of Economics</i>. Worth Publishers. 2007. Seventh Edition. Salvatore, D. <i>Microeconomics: Theory and Applications</i>. Oxford University Press. 2008 Henderson & Quant <i>Microeconomic Theory, A Mathematical Approach</i>. Samuelson, P.A. and W.D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005. 	



L	Т	Р	Credits
4	1	0	5

Course Code	ECN106									
Course Title	Macroe	Macroeconomics – II								
Course Outcomes	CO2: T CO3: S CO4: T	CO1: To assimilate the notion of Aggregate demand and Aggregate supply in the Economy CO2: To understand the concept and theories of consumption function and investment CO3: Students will learn the working of multiplier and its effects. CO4: To strengthen the awareness about the basic economic issues like inflation, unemployment and trade cycle.								
Examination Mode	Theory	7								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus			I			1		CO Mapping		
Unit 1								CO1		
•	Basic C	Concepts: Full of	employment	and various type	es of une	mploym	ent.	CO1		
•	Aggreg	gate demand an	d aggregate	supply functions	•			CO1		
•				of effective dema effective demand.	·	minatio	n of	CO1		
Unit 2								CO2		
•	-	sian Economics nent functions.	: Keynes co	nsumption functi	on; savir	ng and		CO2		
•	Psycho	ological law of	consumption	1				CO2		
•		Determination of income, employment, and output in Keynesian frame work in a two sector, three sector and four sector economy. Paradox of thrift.								
Unit 3								CO3		

•	Multiplier: Static and Dynamic analysis. Balanced – budget multiplier. Foreign trade multiplier.	CO3
•	Theories of Consumption: Absolute Income Hypothesis; Relative Income Hypothesis; Permanent Income Hypothesis.	CO3
Unit 4		CO4
•	The Marginal Efficiency of Investment, Relationship between the MEC and MEI, Factor affecting inducement to investment;	CO4
•	Classical theory of investment; Keynesian theory of investment; Acceleratortheory of investment.	CO4
Text Books	 Ackley, G. <i>Macro Economics Theory and Policy</i>. Macmillan publishers. 1978. Branson, William H. <i>Macro-Economic Theory and Policy</i>. Indian edition. Dornbush, R., S. Fisher and R. Startz. <i>Macro Economics</i>. Tata McGraw Hill. 2004. Rana, K.C. and K.N. Verma. <i>Macro-Economic Analysis</i>. Vishal Publishing Co. 2014. Shapiro, Edward. <i>Macroeconomic Analysis</i>. Galgotia Publications. 1999. Indian edition. 	



]	L	Т	Р	Credits
4	1	0	0	4

Course Code	ECN2	ECN201							
Course Title	Microe	Microeconomics – III							
Course Outcomes	determ CO2: S CO3: I	 CO1: Students will get knowledge about factor pricing and understand the theories of rent determination. CO2: Students will able to get knowledge about wages, interest, profit and their determination. CO3: Enable students to now about Edgeworth box and Walras Law. CO4: Students will learn welfare economics concepts and importance. 							
Examination Mode	Theory	ý							
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus		I		<u> </u>				CO Mapping	
Unit 1								CO1	
•			-	vity theory of dis er different mark				CO1	
•		mic Rent: conce nination - Ricarc		quasi rent etc.) an lern theory.	nd theori	es of ren	ıt	CO1	
Unit 2								CO2	
•	Wages	and its determine	ination.					CO2	
•	Interes	t: Classical and	l Loanable fu	and theory				CO2	
•	Detern	nination of prof	it and theori	es of profit.				CO2	
Unit 3								CO3	
•	-	orth box: 2 goo lity conditions	od, 2 factor,	2 consumer analy	vsis and l	Pareto		CO3	

•	Walras Law; Equilibrium and efficiency	CO3
•	Grand Utility possibility frontier.	CO3
Unit 4		CO4
•	Welfare Economics: Concepts, Compensation Principle (Kaldor-Hicks)	CO4
•	Social Welfare Function	CO4
•	Theory of Second best, Arrow's Impossibility.	CO4
Text Books	 Bernheim, B. D., M. Whinston and A. Sen. <i>Microeconomics</i>. Tata McGraw-Hill Education. Koutsoyiannis, A. <i>Modern Microeconomics</i>. Palgrave Macmilian, Second Edition, 2003 Lipsey, G. and K.A. Chrysal. <i>Economics</i>. Oxford University Press. 2004. Mankiw, N.Gregory. <i>Principles of Economics</i>. Worth Publishers. 2007. Seventh Edition. Salvatore, D. <i>Microeconomics: Theory and Applications</i>. Oxford University Press. 2008 Samuelson, P.A. and W.D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN202									
Course Title	Macroe	Macroeconomics – III								
Course Outcomes	CO1: Develop an understanding about the equilibrium in product and money markets. CO2: Understand different trade cycles theories and inflation theories. CO3: Students will understand the Open Economy models. CO4: Students will learn the importance of monetary and fiscal policy.									
Examination Mode	Theory									
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus								CO Mapping		
Unit 1								CO1		
•	-	prium in produc nd LM function	-	markets: IS and I	LM funct	tions, ch	anges	CO1		
•	ISLM	General equitim	changes in g	eneral equilibriur	n			CO1		
•	Elastic	ity of IS and Ll	M functions	and monetary and	d fiscal p	policies.		CO1		
Unit 2								CO2		
•		•	•	view on trade c s,control of trade	•	humpet	er,	CO2		
•		sian, Modern th	-	nd cures, theories lation (demand P				CO2		
•	Inflatio	on – unemploy	ment trade of	off.Natural rate of	funempl	loyment		CO2		

		CO3
Unit 3		
•	Open Economy models: Short run open economy model, nominal exchange rate and real exchange rate	CO3
•	Mundell-Fleming model and exchange rate determination, purchasing power parity.	CO3
Unit 4		CO4
•	Monetary Policy: Instruments, objectives and effectiveness in recession and boom.	CO4
•	Fiscal Policy: Instruments and full employment; budget surplus; problems of stabilization policy.	CO4
•	Recent Developments in Macro Economics	CO4
Text Books	 Ackley, G. <i>Macro Economics Theory and Policy</i>. Macmillan publishers. 1978. Branson, William H. <i>Macro-Economic Theory and Policy</i>. Indian edition. Dornbush, R., S. Fisher and R. Startz. <i>Macro Economics</i>. Tata McGraw Hill. 2004. Rana, K.C. and K.N. Verma. <i>Macro-Economic Analysis</i>. Vishal Publishing Co. 2014. Shapiro, Edward. <i>Macroeconomic Analysis</i>. Galgotia Publications. 1999. Indian edition. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN25	ECN251							
Course Title	Statisti	Statistics – I							
Course Outcomes	CO1: To study the tabular and graphical presentation of the data CO2: To understand the measures of Central Tendency Dispersion in order to interpret empirical data CO3: To study the index number and its impact on consumer cost of living index. CO4: To understand the concept of correlation and regression analysis.								
Examination Mode	Theory	7							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1		CO1							
•	Definit	tion: Scope, Imp	portance and	limitation of stat	istics.			CO1	
•		ication and Tab o – way frequer		ata: discrete and c	continuo	is one –	way	CO1	
•	Diagra	mmatic and gra	phic present	ation of Data.				CO1	
Unit 2								CO2	
•		res of Central T ties, merits and	•	ean, Median, Moo	de, GM a	and HM	,	CO2	
•	Range,	Measure of Dispersion: Absolute and Relative measures of dispersion- Range, Quartile Deviation, MeanDeviation, Standard Deviation and Variance.						CO2	
Unit 3								CO3	
•		-	• •	ortance, Methods noment and spear				CO3	

•	Regression: Meaning, simple regression, least squares principle, properties of correlation and regressioncoefficients.	CO3
Unit 4	Index Numbers: Meaning scope and limitation of index numbers, problems in construction of index numbers.	CO4
•	Tests of Index numbers (time reversal and factor reversal tests), Weighted price and quantity index numbers using aggregate method: Laspeyre's, Paasche's, Fisher's Formulae, cost of living index numbers.	CO4
•	Tests for the consistency of index numbers. Use the index numbers to various fields.	CO4
Text Books	 Nagar A.L. and R.K. Das. <i>Basic Statistics</i>. Oxford University Press. 1976 Gupta, S.C. <i>Fundamentals of Statistics</i>. Himalaya Publishing House. New Delhi. 2013. Gupta, S.P. <i>Statistical Methods</i>. Sultan Chand and Sons. New Delhi. 2012. Gupta C.B. <i>An Introduction to Statistical Methods</i>. Vikas Publishing House. New Delhi. 2009. Spiegel, M.R. <i>Theory &Problems of Statistics</i>. McGraw Hill. 2009. 	



]	L	Т	Р	Credits
4	1	0	0	4

Course Code	ECN203							
Course Title	Development Economics							
Course Outcomes	CO1- To enable students to understand the basic concepts of Economic Growth and Development CO2- To examine the different tools for measuring economic growth and development. CO3- To impart knowledge about theoretical framework of Growth and Development under different Schools of economic thought. CO4- students will understand the concept of capital formation and importance of foreign aid.							
Examination Mode	Theory	7						
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus			I			1		CO Mapping
Unit 1								CO1
•		mic Developme pment goals.	ent: Meaning	g and its evolutio	n, Sustai	nable		CO1
•		h vs. Developm eteristics of Dev	-	ance, objectives	and core	values.		CO1
•		-		as measure of we alityLife Index, l				CO1
Unit 2								CO2
•	-	· ·		y of Balanced an mum Effort Thes		anced G	rowth,	CO2
Models of Structural Change: Lewis model of unlimited supply of labour, Nurkse' Model, Fei and Ranis Model.						CO2		

Unit 3		CO3
•	Dualistic Development: Social and Technological Dualism.	CO3
•	Models of Growth: Classical Model, Marxian Model, Schumpeter's Model, Harrod- Domar Model, Kaldor's Model, Rostow's stages of growth. Todaro MP Model	CO3
Unit 4		CO4
•	Capital formation: Meaning and Sources; capital –output ratio; Human Capital: Concept and utilization. Role of foreign Capital & MNC's.	CO4
•	Foreign Aid: Forms and sources; Trade vs. Aid; Transfer of technology. Dual Gap Analysis.	CO4
Text Books	 Chew, S.C. and R. A. Denmark. <i>The Underdevelopment of Development</i>. Sage Publications. New Delhi. 1999. Debraj, Ray. <i>Development Economics</i>. Oxford University Press. 1998. Meier, G. M. and J. E. Rauch. <i>Leading Issues in Economic Development</i>. Oxford University Press. 2000. Taneja, M. L. and R. M. Myer. <i>Economics of Development and Planning</i>. Vishal Publications. 2014. Thirlwall, A.P. <i>Growth and Development</i>. Palgrave Macmillan Publishers. 7th edition. Todaro, M. P. and Stephen C. Smith. <i>Economic Development</i>. Pearson Publications. 2011. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN20	ECN204							
Course Title	Region	Regional Economics with Special Reference to Punjab Economy							
Course Outcomes	CO2: S CO3: T Punjab	CO1: Students will learn about regional economics concepts, problems and policies. CO2: Students will be able to understand structural changes in Punjab economy. CO3: This will help in understanding agriculture and industrial growth and their importance in Punjab economy. CO4: Students will learn how to solve problem of resource mobilization & fiscal crisis in Punjab							
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1									
•	-	al Economics: nic problems; I	-	ope, and framew ors;	ork; Reg	ional		CO1	
•		& their problems; Nature of Regions and relation of activities within a						CO1	
•	Region	al policy & ob	jectives.					CO1	
								CO2	
Unit 2									
•		-	•	nomy: Agricultur role, performanc		-		CO2	
•	Agricu	ltural diversific	cation, ration	ale, constraints,	and pros	pectus;		CO2	
Unit 3								CO3	

•	Industry in Punjab: Industrial development – Pattern, performance, constraints & challenges; Small–scale industry role, problems & prospects;	CO3
•	State & industrial development	CO3
Unit 4		CO4
•	Development of transport and banking in Punjab. Finances of Punjab State; Sources of revenue and heads of expenditure;	CO4
•	Problems of resource mobilization & fiscal crisis in Punjab.	CO4
Text Books	 1.Hoover, F.M. : An Introduction to Regional Economics. 2.Richardson, H.W. : Regional Economics. 3.Johar, R.S.& J.S. Khanna : Studies in Punjab Economy. 4.Raikhy, P.S. & S.S. Gill : Resource Mobilization and Economic Development: A Regional Perspective. 5.Govt. of Punjab : Statistical Abstracts. 6.Bawa R.S. & P.S.Raikhy : Punjab Economy : Emerging Issues 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN205							
Course Title	Money and Banking							
Course Outcomes		Understand nature I for money,	e, functions ar	nd growth of mone	y, Supply	creation	of mon	ey and theories of
		-		a commercial ban dit policy of India.	k, the fun	ctions of	f comme	ercial bank. Explain the
		Application of trac iff barriers and th			internatio	nal trade	e, unders	tanding of tariff and
	CO4. Apply functions, provisions of international trade system and functions to facilitate the global trade. Students will be able analyze impact of WTO on current global trade in detail							
Examination Mode	Theory	7						
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus			I					CO Mapping
Unit 1	Money	: Introduction						CO1
•	Nature	and functions	of money					CO1
•	money	and near mo	ney					CO1
•	Demar	nd for money						CO1
•	Fisher,	Cambridge, K	eynesian the	eories				CO1
•	Supply	of money, me	chanics of 1	money supply cr	reation			CO1
•	measur	res of money su	pply in Indi	a				CO1
Unit 2	Rate of	f Interest						CO2
•	Meani	ng and Classific	ation of Inte	erest				CO2

•	Determination of interest rate	CO2
•	Factors affecting the level and structure of interest rates	CO2
•	Theories of interest: Classical theory of interest	CO2
•	Keynesian theory of interest	CO2
Unit 3	Commercial Banking	CO3
•	Meaning and types of commercial banks	CO3
•	Credit creation process of commercial banks	CO3
•	Central Banking: Meaning and functions	CO3
•	Techniques of credit control with special reference to India	CO3
Unit 4	Monetary system	CO4
•	Monetary Policy: Targets and indicators	CO4
•	macroeconomic objectives	CO4
•	Monetary policy in less developed countries	CO4
•	Indian Monetary and Credit System	CO4
•	System of note-issue; computation of money supply by the RBI	CO4
•	Problems and working of money and capital markets	CO4
Text Books	1.Sundram, K.P.M. <i>Money, Banking, Trade and Finance</i> . Sultan Chand & Sons. New Delhi. 2014	
	2. Gupta, S.B. <i>Monetary Economics-Institutions, Theory and Policy</i> . S. Chand & Co. Ltd. New Delhi. 1995.	
	3. L. M. Bhole and J. Mahukud. <i>Financial Institutions and Markets</i> . Tata McGraw Hill. 2011. 4. Misra, S. Puri. <i>Indian Economy</i> . Himalaya Publishing House. 2015.	
	5. Pathak, Bharati V. <i>The Indian Financial System</i> , <i>Market</i> , <i>Institutions & Services</i> . Pearson. 2008. 6. Paul, R.R. <i>Monetary Economics</i> . Kalyani Publishers. 2005.	
	7. Sundram, K.P.M. <i>Money, Banking, Trade and Finance</i> . Sultan Chand & Sons. New Delhi. 2014.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN252								
Course Title	Statistics – II								
Course	CO 1: Students study the basics of statistical inference.								
Outcomes	CO 2: Create and conduct an empirical research project in Economics CO 3: To understand hypothesis testing and research methodology CO 4: To acquire thorough understanding of data analysis, statistical tools and research methodology that facilitate transition to higher research programs like M.A/MSc and PhD.								
Examination Mode	Theory								
	Continuous Assessment					MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus				<u>I</u>		I		CO Mapping	
Unit 1								CO1	
•	Correlation and Regression Analysis: Partial and multiple correlation coefficients: Derivations, application and properties.						CO1		
•	Fitting of multiple regression by least squares technique stress on numericalexamples.						CO1		
Unit 2							CO2		
•	Skewness, Moments and Kurtosis: Introduction, Difference between dispersion and Skewness Tests of Skewness, Absolute measure of Skewness, Karl Pearson's coefficient of Skewness, Bowley's coefficient of Skewness Kelly's coefficient of Skewness.						CO2		
•	Moments about arbitrary origin, Central Moments, Momentsabout zero. Measures of Kurtosis.						CO2		
Unit 3	it 3						CO3		

•	Time Series Analysis: Meaning, Components: Models, economic significance of time series, methods of estimating trend and seasonal variations.	CO3
•	Growth Curves: Properties, methods of estimation and applications of parabolic, geometric, exponential, modified exponential, Gompertz and logistic growthcurves.	CO3
Unit 4		CO4
•	Probability: Definition (classical and empirical only), laws of probability, conditional probability, and independence of events (applications only)	CO4
•	Concept of random variables, probability density and massfunction, expectation, moments, moment generating function, properties (without proof).	CO4
Text Books	 Nagar A.L. and R.K. Das. <i>Basic Statistics</i>. Oxford University Press. 1976. Gupta, S.C. <i>Fundamentals of Statistics</i>, Himalaya Publishing House. New Delhi. 2013. Gupta, S.P. <i>Statistical Methods</i>. Sultan Chand and Sons. New Delhi. 2012. Gupta C.B. <i>An Introduction to Statistical Methods</i>. Vikas Publishing House. New Delhi. 2009. Spiegel, M.R. <i>Theory &Problems of Statistics</i>. McGraw Hill. 2009. 	



L	LT		Р	Credits		
4		0	0	4		

Course Code	ECN253							
Course Title	Mathematics for Economists – I							
Course Outcomes	CO1: Students will be well versed with identifying various mathematical functions and their applications at course completion. CO2: Mathematical outcomes will be interpreted well in terms of economics. CO3: Students will get to learn applications of mathematical tools to economy. CO4: A basic understanding of this course is essential for solving problems pertaining to economic theory where mathematics is used as a tool							
Examination Mode	amination Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus				1				CO Mapping
Unit 1								CO1
•	The straight line, Mathematical modelling, Applications: Demand, Supply, Cost, and Revenue.						CO1	
•	Translations of linear Functions, elasticity of demand, Supply and Income, Budget and cost constraints,Excel for linear Functions.							CO1
Unit 2								
•	Simultaneous equations: Solving simultaneous equations, Equilibrium and break even, Consumer andproducer surplus							CO2
•		Non-linear functions and applications; Quadratic, Cubic and other polynomial functions. Exponential functions.						CO2
Unit 3								
•	Arithmetic Progression; Definition nth term of an A.P, sum of n terms, Arithmetic mean, A.M. between two numbers, application of A.P. series						CO3	

•	Geometric Progression; Definition, nth terms of G.P. series, sumof n terms, Geometric mean between two numbers, Application of G.P. series	CO3
Unit 4		
•	Financial Mathematics: Simple interest, compound interest and annual percentage rates, depreciation, net present value and internal rate of return	CO4
•	Annuities, debt repayments, Sinking funds, the relationshipbetween interest rate and the prices of bonds.	CO4
Text Books	 Bradley T. Paul Patton. Essential Mathematics for Economics and Business. Wiley Publication. 2014. Chiang, A.C. Fundamental Methods of Mathematics Economics. McGraw Hill. 2005. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1. Himalaya Publishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1I. Himalaya Publishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1I. Himalaya Publishing House. New Delhi. 2011. Yamane, T. Mathematics for Economist. Prentice Hall of India. New Delhi. 2001. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN301								
Course Title	Agricu	Agricultural Economics							
Course OutcomesCO1: Understand the nature, importance and role of agriculture i for backwardness.CO2: Need, role and importance of agriculture credit. Various in									
	 land reforms done by the government. CO3: New agriculture technology and its impact on various factors related with agriculture. CO4: Structure, type and defects of agriculture marketing in India. Agriculture price policy and mobilization of agriculture surplus. 								
Examination Mode	Theory	7							
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1	Agricu	lture Economics	s in the econ	omy				CO1	
•	Nature	, scope of agricu	lture and its	importance in ec	onomics			CO1	
•	Role of	f agriculturein e	conomic dev	velopment				CO1	
•	Reasor	ns for backward	ness of India	n agriculture				CO1	
•	Transf	orming tradition	al agricultur	e.				CO1	
•		g Systems: F g and state farm		ing, co-operativ	e farmi	ng, col	lective	CO1	
•		ize and product	-					CO1	
Unit 2	Agricu	ltural credit						CO2	
•	Need, 1	role of co-opera	tive and com	nmercial banks				CO2	

•	Land reforms- consolidation of holdings	CO2
•	abolition of intermediaries	CO2
•	ceiling on land holdings and tenurial reforms	CO2
•	need, nature and evaluation with special reference to India	CO2
Unit 3	New agricultural technology	CO3
•	Its impact on production	CO3
•	Its impact on income distribution and labour absorption	CO3
•	Negative consequences of new agricultural technology in the context of Punjab	CO3
•	Crop diversification – Need, progress and problems	CO3
Unit 4	Agricultural Marketing in India	CO4
•	Structure, types and defects of agriculture markets in India	CO4
•	Marketing functions, marketing margins, marketed surplus and marketable surplus	CO4
•	Factors affecting marketed surplus	CO4
•	Agricultural Price Policy: Need and objectives	CO4
•	Mobilization of agricultural surpluses	CO4
•	Terms of tradebetween agriculture and industry	CO4
•	Agricultural taxation in India	CO4
Text Books	 1.Sourth Worth, H.M. and John Sten, B.F. Agricultural Development and Economic Growth (1967) 2 Sadhu, A.N. and Amarjit Singh. Fundamentals of Agricultural Economics, Himalaya Publishers.New Delhi. 3.Schultz T.W. Transforming Traditional Agriculture(1964) 4. H Drummond, John Goodwin. Agriculture Economics. Pearson Publication. 2013. 6. Sadhu, A.N. and Amarjit Singh. Fundamentals of Agricultural Economics, Himalaya Publishers. New Delhi. 2012. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN30	ECN302								
Course Title	Indian	Indian Economy								
Course Outcomes	 CO1. Develop ideas of the basic characteristics of Indian economy, its potential or resources. CO2. Understand the importance, causes and impact of population growth and its distribut and relate them with economic development. CO3. Understand agriculture as the foundation of economic growth and development, and progress and changing nature of agricultural sector and its contribution to the economy as a CO4. Grasp the importance of planning undertaken by the government of India, ha knowledge on the various objectives, failures and achievements as the foundation of ongoing planning and economic reforms taken by the government. 							distribution, translate nent, analyze the nomy as a whole. India, have		
Examination Mode	Theory	7								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus								CO Mapping		
Unit 1	Structu	re of Indian Ec	onomy					CO1		
•		al Income and and a lincome in a lincome and a		orial contribution	n, Inter-s	tate var	iation	CO1		
•	Capita	l Formation and	l Economic	Development in	India			CO1		
•		n resources and population in I		evelopment in In	dia: Size	e and gro	owth	CO1		
•				Population, Popula	lation Po	licy in I	ndia,	CO1		
•	Povert	y Line and varie	ous measure	s to control Pove	erty			CO1		
Unit 2	Econor	mic Planning in	India					CO2		

•	Review of Five Year Plans in India	CO2
•	Resources mobilization during different plans	CO2
•	Structure, role and functions of NITI Ayog	CO2
Unit 3	Basic Issues in Agriculture	CO3
•	Role, nature and Emerging trends in agriculture	CO3
•	Factors determining productivity and Remedies measures to raise agriculture productivity inIndia	CO3
•	Agriculture sustainability and development during plan period	CO3
•	Issues in Industrial Development: Industrial development during planning period	CO3
•	Review of Industrial policy of 1948, 1956, 1977 and new industrial policy 1991 and latest policies	CO3
•	Small scale and Cottage industries in India and MSME	CO3
•	Public sector in India-its role, growth, performance, problems; Issue of privatization.	CO3
Unit 4	External Sector: India's foreign trade	CO4
•	features, composition and direction of Indian foreign trade	CO4
•	India's balance of payments position in India	CO4
•	Foreign Trade policy in India	CO4
•	Current Global slowdown and financial turmoil and itsimpact on Indian economy	CO4
Text Books	 Kapila, Uma, Indian Economy: Programme and Policies, Academic Foundation, New Delhi, 2015. Dutt, Ruddra and, K.P.M. Sundharam. <i>Indian Economy</i>. New Delhi: S. Chand and Company Ltd.2015. Misra, S.K. & V.K. Puri. Indian Economy. Himalayan Publishing House. 2015. 	



L	Т	P	Credits
4	0	0	4

Course Code	ECN351								
Course Title	Statisti	Statistics – III							
Course Outcomes		CO1: Students will learn theoretical distribution and derivation with numerical. CO2: Students will get detailed knowledge about sampling concepts.							
	CO3: I	Enable the stude	ents to under	stand theories of	estimati	on.			
	CO4: I	t makes the stu	dents to und	erstand the testin	g of hyp	othesis.			
Examination Mode	Theory	Theory							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus		I		1		I		CO Mapping	
Unit 1								CO1	
•	Theore	etical Distribution	on; binomial	, Poisson and nor	rmal dist	ribution	IS	CO1	
•	Deriva their fi		rical exampl	es based upon th	ese distr	ibutions	and	CO1	
Unit 2								CO2	
•	-	ing: Concepts u n, systematic, a	•	ing: methods of	sampling	g simple	2	CO2	
•			•	om sampling, me hods of estimatio	U	an estir	nator;	CO2	
Unit 3								CO3	
•	Theori	es of estimation	; Point Estir	nation, Interval E	Estimatic	on.		CO3	
•	-		•	ypothesis;types o ampling distribut		some		CO3	

Unit 4		CO4
•	Testing of Hypothesis; Large sample test; Sampling of attributes, Test of significance for difference of proportion, Single mean, Differences of means.	CO4
•	t- test, chi square and F-test.	CO4
Text Books	 Gupta, S.C. and V.K. Kapoor. <i>Fundamental of Applied</i> <i>Statistics</i>. Sultan Chand and Sons. New Delhi.2010 Kapur, J.N. and H.C. Saxena. <i>Mathematical Statistics</i>. S. Chand and Company. New Delhi. 1995. Mood, A.M. and F.A. Gray Bill. <i>Introduction to the Theory</i> <i>of Statistics</i>. McGraw Hill Company, NewYork. 1963. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN35	ECN352							
Course Title	Mather	Mathematics for Economists – II							
Course	CO1: 5	Students will be	able to unde	rstand sets and re	elations.				
Outcomes	CO2:	Enable the stude	ents to under	stand about diffe	rentiatio	n and pa	artial di	fferentiation.	
	CO3: F	Provide knowled	lge of maxin	na, minima and b	asic trigo	onometi	ric funct	ions.	
	CO4: 5	Students will ha	ve good kno	wledge about ma	trices.				
Examination Mode	Theory	7							
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus			I		_			CO Mapping	
Unit 1									
•	Sets an econom		nctions-type	s of function and	its appli	cation i	n	CO1	
•		n of equations an uity of function		es in Market Equ	ilibrium	. Limits	s and	CO1	
Unit 2								CO2	
•	revenu	Differentiation: Rules of differentiation, Economic Applications; Marginal revenue, average revenue, totalrevenue, marginal cost, average cost and total cost.						CO2	
•	Partial	differentiation	and Euler's t	heorem				CO2	
Unit 3								CO3	
•	Maxim	a and Minima,	profit maxim	nization				CO3	

•	Basic Trigonometric Functions: Angle – Positive and negative, Trigonometric ratio of angle, t value of ratio.	CO3
Unit 4		CO4
•	Linear Algebra: Matrices, types, products of matrices, inverse of matrix, rank of a matrix, determinants	CO4
•	Simultaneous linear equations (Cramer's rule). Rank method	CO4
Text Books	 Bradley T. Paul Patton. Essential Mathematics for Economics and Business. Wiley Publication. 2014 Chiang, A.C. Fundamental Methods of Mathematics Economics. McGraw Hill. 2005 Kandoi, B. Mathematics for Business and Economics with Applications. Volume-I, HimalayaPublishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-II, HimalayaPublishing House. New Delhi. 2011. Monga, G.S. Mathematics and Statistics for Economics. Vikas Publication. New Delhi. 2005. Yamane, T. Mathematics for Economist. Prentice Hall of India. New Delhi. 2001. 	



L	Т	P	Credits
4	0	0	4

Course Code	ECN303							
Course Title	Public Finance							
Course Outcomes	 CO1. Understand the sources of finance both public and private, demonstrate the role of government to correct market failures and possible advantage of public financing. CO2. Understand the possible burden, benefits and distribution of various types of taxes among various classes of people, know the general trend and impact on general welfare and arouse 							
	 them to suggest good and bad tax system. CO3. Understand the needs of public borrowing from all possible sources to meet necessary public investment/expenditures. Also be alerted to find sources for repayment. CO4. Deliver effectively the preparation of budget and how they are passed in the house. Understand the changes in size and flexibility of state and central budget along with the role played by Finance 							
Examination Mode	Theory							
	Contin	uous Assessme	ent MSE MSP		ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		I		1				CO Mapping
Unit 1								
•	fiscal f		ation, distribu	public finance, ca ition and stability	-			CO1
•				efficiency, extern on, merit goods.	alities, p	rivate v	ersus	CO1
Unit 2								CO2
•	Taxati	CO2						

•	Tax base (income, consumption and wealth); direct vs. indirect taxes, proportional vs. progressive taxes; tax incidence (Concept and measurement).	CO2
Unit 3		CO3
•	Optimal Taxation: Normative versus positive, commodity tax, income tax, analysis of normative andpositive optimal tax.	CO3
•	Public Debt: Concept, objectives and significances of public debt, sources of public borrowings; distinctionbetween internal and external debt.	CO3
Unit 4		CO4
•	Issues in Indian Public Finance: Recent tax reforms, fiscal federalism in India, state and local finances.	CO4
•	International Issues: Global public goods, taxation of international trade, government revenue and smuggling	CO4
Text Books	 Musgrave, R. A and P. B Musgrave. <i>Public</i> <i>Finance in Theory and Practices</i>, McGraw-Hill International Editions, 1989. Cullis, John and Philip Jones, <i>Public Finance and</i> <i>Public Choice</i>, Oxford University Press, Third Edition (Indian), 2010. Rao, M Govind and Mihir, Rakshit. <i>Public</i> <i>Economics: Theory and Policy Essays in Honor of</i> <i>Amaresh Bagchi</i>, Sage Publications, 2011. Srivastava, D K and U, Shankar (ed.). <i>Development and Public</i> <i>Finance: Essays in Honour of Raja</i> <i>J. Chelliah</i>, Sage Publications, 2012. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN304								
Course Title	Interna	International Economics							
Course Outcomes	 CO 1 – To enable students to understand the basic concepts related to international trade. CO 2- To familiarize students with policies that influence trade between countries. CO3- To familiarize students about Balance of Payment and intricacies of exchange rate determination. CO 4-To enable students to have a basic understanding of the emerging trends in the field of the emerging trends in the emerging trends in the field of the emerging tren								
Examination Mode	international economic system. Theory								
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus		I	I					CO Mapping	
Unit 1									
•		Theories and Co rative advantage		olicy: Theories of cunity cost;	absolute	e advant	age,	CO1	
•	Heckso limitati		ry of trade- i	ts main features,	assumpt	ions, an	d	CO1	
•	Termso	of trade (concep	ts and secula	ar deterioration in	terms o	f trade).		CO1	
Unit 2									
•	barrier		, voluntaryex	ale of protection; sport restraints, ex			ariff	CO2	
•	Tariff a	and quota (parti	al equilibriu	nanalysis).				CO2	
Unit 3								CO3	

•	Balance of Payments: Concepts and components of balance of payments.	CO3
•	Equilibrium and disequilibrium balance of payments; various measures to correct deficit in the balance of payment.	CO3
Unit 4		CO4
•	Exchange Rate: Meaning, concept of equilibrium exchange rate and determination; Fixed versus flexible exchange rates: Managed floating exchange rate; Purchasing Power Parity (absolute, relative); Bretton wood systems and its breakdown.	CO4
•	Contemporary Issues: Financial Globalization, Global Financial Crises (2007-2009), IMF its working and operation.	CO4
Text Books	 Krugman, Paul, M. Obstfeld and Marc J. Melitz. <i>International Economics: Theory and Policy</i>. AddisonWesley Longman. Ninth Edition, 2012. Salvatore, D.K. <i>International Economics</i>. John Wiley and Sons. 2013. Soderston, Bo and G. Reed. <i>International Economics</i>. Macmillan Publishing House. 1994. 	



L	Т	Р	Credits			
4	0	0	4			

Course Code	ECN305								
Course Title	Econo	Economics of Health and Education							
Course	CO1: H	Enable the stude	ents to unders	stand the importa	nce of h	ealth eco	onomic	s.	
Outcomes	CO2: 1	Го provide knov	vledge about	the demand and	supply o	of health	care.		
	CO3: I	t provides know	vledge regard	ding the formulat	ion healt	h financ	cing pol	icy.	
	CO4: 5	Students will kn	ow the impo	rtance of educati	on & inv	restment	in hun	nan capital.	
Examination Mode	Theory								
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus				<u> </u>				CO Mapping	
Unit 1	Introdu	ction to Health	Economics					CO1	
•	Meanin	ng, Importance	and Essentia	1 Features of Hea	lth Econ	omics		CO1	
•	Concep CMR,		lth Care, Bir	rth rate, Fertility	rate, Dea	th rate,	IMR,	CO1	
•	Morbic	lity rate (Acute	and Chronic), Adjusted Life	Year (D	ALY)		CO1	
•	Quality	y Adjusted Life	Year (QUA)	LY), Sex Ratio.				CO1	
Unit 2	Deman	nd and Supply o	f Heath Care	2:				CO2	
•	Deman	nd for Health Ca	are					CO2	
•	Case of	f Health Care A	ccessibility					CO2	
•	Socio I	Economic and C	Cultural Feat	ures				CO2	
•	Supply	of Health, Hea	lth Care Del	ivery System				CO2	
•	Pricing	g of Health Care	,					CO2	

Unit 3	Health Financing Policy	CO2
•	Health Expenditure – Public & Private – Direct and Indirect	CO3
•	Health Insurance, Concept of User Cost	CO3
•	Health Policy of WHO	CO3
•	National Health Policy – NRHM	CO3
•	Health as a State Subject	CO3
Unit 4	Education & Investment in Human Capital	CO4
•	Rate of Return to Education: Private and Social	CO4
•	Quality of Education, Signaling or Human Capital	CO4
•	Theories of Discrimination	CO4
•	Gender and Caste Discrimination in India	CO4
•	Literacy Rates, School articipation, School	CO4
•	Quality Measures with special reference to India	CO4
Text Books	 Henderson J.W. <i>Health Economics and Policy</i> .Thomson learning. Latest Edition. Ramankutty. A Premier of Health System Economics. Allied publications. New Delhi. 2007 Ronald G., Ehrenberg and S. Robert and Smith. Modern Labor Economics: Theory and Public Policy. Addison Wesley. 2005. William, Jack. Principles of Health Economics for Developing Countries. World BankInstitute Development Studies. 1999. World Development Report. Investing in Health. The World Bank, 2014. 	



L	Т	P	Credits
4	0	0	4

Course Code	ECN306								
Course Title	Enviro	Environmental Economics							
Course Outcomes	 CO 1: It will familiarize the students the association of the economy and environment CO 2: Enable students to develop a comprehensive knowledge on the environmental theory for analysis CO3: This would impart the skills essential for understanding and solving the environmental success. CO 4: Enable the students to impart knowledge about environmental policy tools and disting management in India 							ronmental theories the environmental	
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	_				
Weightage	10	10	5	-	25	-	50	-	
Syllabus			I		1	1	I	CO Mapping	
Unit 1	Introdu	CO1							
•	Meanin	CO1							
•	Positiv	CO1							
•	Туре о	f Environmenta	al Goods					CO1	
•	Use va	lue and Nonuse	e value (exis	tence, altruistic a	and bequ	est valu	e)	CO1	
•	Public	goods, Private	goods, Club	goods				CO1	
•	Open a	access resources	6					CO1	
Unit 2	Market	t Failure and Ex	ternalities					CO2	
•	-	of Environmer	Ū.	•				CO2	
•	Assign	ment of Proper	tyRights and	l Coase Theorem	l			CO2	

•	Government Interventions: - Command & Control Measures	CO2
•	Marketable Instruments	CO2
Unit 3	Valuation of Environmental Goods and Services	CO3
•	Indirect method (revealed preference)	CO3
•	household production function-travel cost, hedonic pricing	CO3
•	direct/stated preference method – contingent valuation	CO3
Unit 4	Economic Growth and the Natural Environment	CO4
•	Rise and fall of Environmental Kuznets Curve	CO4
•	Sustainable Development: - Meaning of sustainability	CO4
•	weak or strong, goals and indicators of sustainable development	CO4
•	National Accounting and the Natural Environment	CO4
•	Green National Income Accounting with specialreference to India	CO4
Text Books	 Roger Perman, Yue Ma, James McGilvray and Michael Common. Natural Resource andEnvironmental Economics. Pearson Education/Addison Wesley. 3rd edition. Kolstad, Charles D. Intermediate Environmental Economics. Oxford University Press. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN3	ECN353							
Course Title	Mather	Mathematics for Economists – III							
Course	CO1: 5	Students will lea	arn about dif	ference equations	s and the	ir appli	cations.		
Outcomes	CO2: 5	Students will be	able to unde	erstand simple int	tegration	and the	ir appli	cations.	
	CO3: I	t enables the stu	idents to lea	rn Input – Outpu	t Analysi	is.			
	CO4: 5	Students will lea	arn about lin	ear programming	and Dua	ality the	orem.		
Examination Mode	Theory	7							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	-				
Weightage	10	10	5	-	25	-	50	-	
Syllabus		I	1			I		CO Mapping	
Unit 1								CO1	
•		ence equations a ence Equation o		lications; Linear	Homoge	enous		CO1	
•	Non-L	inear differentia	al equation o	f First Order.				CO1	
Unit 2								CO2	
•	-	e Integration and tion, Integration		ns; Rules of Integ	gration, N	Aethods	of	CO2	
•	Econor		us: Cost, Rev	venue, Demand F	unction,	Consun	ner	CO2	
Unit 3									
•	coeffic	Input – Output Analysis: Assumptions; Transaction matrix: Technical coefficients, Hawkin–Simon Conditions, Metzler condition, open and close input-output systems							

•	Dynamic input output analysis (an introduction).	CO3
Unit 4		
•	Linear Programming: Formulation of linear programming p r o b l e m. Graphical method, Simplex method, Two-phase simplex method, unbounded solution, infeasible solution, degeneracy and cycling problem.	CO4
•	Duality theorem, Solution of primal and dual by simplex method. Dual simplex method.	CO4
Text Books	 Bradley T. Paul Patton. Essential Mathematics for Economics and Business. Wiley Publication. 2014. Chiang, A.C. Fundamental Methods of Mathematics Economics. McGraw Hill. 2005. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-1, HimalayaPublishing House. New Delhi. 2011. Kandoi, B. Mathematics for Business and Economics with Applications. Volume-II, HimalayaPublishing House. New Delhi. 2011. Kandoi, B. Mathematics and Statistics for Economics. Vikas Publication. New Delhi. 2005. Yamane, T. Mathematics for Economist. Prentice Hall of India. New Delhi. 2001. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN40	ECN401								
Course Title	Industr	ndustrial Economics								
Course	CO1: I	t makes the stud	lents to unde	rstand the nature	and scop	be of inc	lustrial	economics.		
Outcomes	CO2: S	Students will und	derstand the	industrial efficier	ncy and t	echnica	l efficie	ency.		
	CO3: I	t makes learners	s to understa	nd the growth of	firm and	market	structu	re.		
	CO4: I	t makes the stuc	lents to unde	rstand various the	eories of	Industr	ial Loca	ation		
Examination Mode	Theory									
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	-					
Weightage	10	10	5	-	25	-	50	-		
Syllabus					1			CO Mapping		
Unit 1										
•	Definit	ion: Nature and	scope of Ind	lustrial Economic	zs.			CO1		
•	History	and developme	ent of industr	rial Economics.				CO1		
•		Concepts: Firm, and active beh	-	arket, Market stru firm.	icture, N	larket p	ower,	CO1		
Unit 2								CO2		
•	Concep	otual framework	for the study	y of Industrial Ec	onomics	•		CO2		
•	Organi	zational form ar	nd alternative	e motivesof the fi	rm.			CO2		
•	Industr	ial efficiency ar	nd technical e	efficiency. Optim	um size	of the fi	rm.	CO2		
Unit 3								CO3		

•	Growth of the firm: Acquisition, diversification, merger constraints on Growth: demand, managerial andfinancial.	CO3
•	Market Structure: Seller's concentration; product differentiation; entry conditions and economics of scale.	CO3
Unit 4		CO4
•	Theories of Industrial Location: Factors affecting location; contributions of weber and Sargent Florance. Location policy in India since Independence.	CO4
•	Industrial concentration and dispersal in India. Industrial growth under planning in India and trends in industrial growth after liberalization period.	CO4
•	Industrial policy and licensing policy, MRTP Act and FERA Act in India and current industrial policy.	CO4
Text Books	 Barthwal, R. R. 2007. Industrial Economics: An Introductory Text Book. New Age International.New Delhi. Ferguson, P. R.1998. Industrial Economics: Issues and Prospectus. New York University Press. Seth, R. 2010, Industrial Economics. Ane Book. New Delhi. 	



L	Т	P	Credits
4	0	0	4

Course Code	ECN40	ECN402								
Course Title	Labour	Labour Economics								
Course Outcomes	CO1: It involves the study of the factors and structure of labor and importance in the economic activities.									
	CO2: I	t helps to under	stand the en	nployers demand	l as well	who rec	uires th	e service of labour		
	CO3: I	t helps to analy	ses the wage	e structure, incon	ne and le	vel of e	mployn	nent		
		abour economi an power econo		n various aspects	of labou	r organ	izations	, wage bargaining		
Examination Mode	Theory									
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus			I	•	1	1		CO Mapping		
Unit 1		CO1								
•	Introdu	ction to Labou	r Economics	s: Meaning, Scop	e and Im	portanc	e.	CO1		
٠	labour	under different	market forn	l Productivity The ns, Short run and ry; elasticity of su	Long ru	n labou		CO1		
•	Marsha	all's rules of de	rived deman	d.				CO1		
Unit 2								CO2		
•	Labour	r Supply: Neocl	assical Mod	el of labour-leisu	ire choic	e;		CO2		
Effects of changes in non-labour income andwage rate on i equilibrium; role of income and substitution effect, backwa supply curve;								CO2		

•	Individual and market labour supply curve.	CO2
Unit 3		CO3
•	Equilibrium in Labour Market: Analysis of equilibrium under the competitive and non-competitive market forms, Neo Classical theory of labour market.	CO3
•	Unemployment: History of Economic Thought – classical theory, Keynesian, New Classical, Phillips curve, Monetarism; various concepts of unemployment; work participation, labour absorption.	CO3
Unit 4		CO4
•	Rural and Urban Labour Market: Labour Market Reforms in India; Labour Laws in India; Subsistence wageand Minimum Wage Act in India;	CO4
•	Contemporary issues (post liberalization era); Welfare programmes, government wage employment and self-employment programmes.	CO4
•	Human Capital; Labour Mobility; ChildLabour issues; Issues in developing and transition economies.	CO4
Text Books	 Borjas, George J. Labour Economics. McGraw-Hill Irwin. 2013. Gould, J. P. and P. Edward Lazear. Microeconomic Theory. AITBS Publishers and Distributors Delhi.2001. Government of India. Indian Labour Yearbooks (various issues), GOI Kar, Saibal and Debabratta, Datta. Industrial and Labor Economics: Issues in Developing and Transition Countries. Springer India. 2015. Smith, Stephen. Labour Economics. Routledge. 2003 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN40	ECN403								
Course Title	Resear	Research Methodology								
Course Outcomes		CO1: Students will gain the knowledge of sample type and size. CO2: To provide knowledge about errors in survey.								
	CO3: 5	Students will lea	rn how to p	rocess collected d	lata.					
		Develop underst edge about plag		ublication ethics	and publ	ication	miscon	duct and gather the		
Examination Mode	Theory									
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus			I			1		CO Mapping		
Unit 1	Sample	e type and size						CO1		
•	Simple	random sampli	ng					CO1		
•	cluster	sampling						CO1		
•	stratifie	ed sampling and	l its complic	ations				CO1		
•	Determ	nining an approp	priate size					CO1		
Unit 2	Measu	rement scales ir	research					CO2		
•	Errors	in surveys						CO2		
•	Misuno	derstanding of o	questions an	d answers				CO2		
•	proble	m of nonrespor	ise					CO2		
•	Process	sing of survey of	lata					CO2		
Unit 3	Cleanir	ng of data and i	ts coding					CO3		

•	Ethics and scientific integrity	CO3
•	Standards of conduct, privacy in data	CO3
Unit 4	Research Ethics	CO3
•	Publication ethics: definition, introduction and importance, best practices / standards setting initiatives and guidelines: COPE, WAME, etc., Conflicts of interest.	CO4
•	Publication misconduct: definition, concept, Violation of publication ethics, authorship and contributorship, Identification of publication misconduct, complaints and appeals, Predatory publishers and journals	CO4
•	Plagiarism software like Tumitin, Urkund and other open-source software tools, Databases-Indexing databases, Citation databases: Web of Science, Scopus, etc.,	CO4
Text Books	 Bethlehem, J. (2009). Applied survey methods: A statistical perspective. Wiley. Cochran, W. (2008). Sampling techniques, 3rd ed. Wiley. Cooper, D., Schindler, P., Sharma, J. (2012). Business research methods, 12th ed. McGraw-Hill. Flick, U. (2012). Introducing research methodology: A beginner's guide to doing a research project. Sage Publications. Groves, R., Fowler, F., Couper, M., Lepkowski, J., Singer, E., Tourangeau, R. (2009). Survey Methodology. Wiley. Kumar, R. (2014). Research methodology: A step by step guide for beginners, 4th ed. Sage Publications. P.Chandah. (2018). Ethics in Competitive Research: Do not get Scooped; do not get plagiarized. 	



L	LT		Credits		
4	0	0	4		

Course Code	ECN40	ECN405									
Course Title	Global	Global Political Economy									
Course Outcomes	CO1: Understand the basic concepts of global political economy. CO2: Able to understand the concepts of changing dynamics of capitalist production.										
	CO4: I	CO3: Students will learn about the political economy of global trade.CO4: It enables students to understand the era of globalisation and global economic instability and crisis.									
Examination Mode	Theory										
	Continuous Assessment				MSE	MSP	ESE	ESP			
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance							
Weightage	10	10	5	-	25	-	50	-			
Syllabus								CO Mapping			
Unit 1	Introdu	action and over	view					CO1			
•	-	ctives on polition cal overview	cal economy	of globalisation	with a			CO1			
Unit 2	Chang	ing dynamics of	f capitalist p	roduction				CO2			
•	Organi	zational forms	and Labour	processes				CO2			
•	Fordist	and post-Ford	ist productio	n regimes				CO2			
•	Multin	ational corpora	tions –evolu	tion, structural fo	orm and o	lynamic	S	CO2			
•	global	value chains an	nd production	n networks				CO2			
•		inging nature of sed economy	f employmer	nt, job security ar	nd Labou	r rights	in a	CO2			
Unit 3	•	litical economy	/ of global tr	ade				CO3			
•	Structu	re and institution	ons of the in	ternational trade	regime			CO3			

•	The role of finance in the globalised economy	CO3
•	financialisation of the global economy – trends, instruments, features and consequences	CO3
Unit 4	The state in the era of globalisation	CO4
•	Globalisation and the limits of the welfare and developmental states	CO4
•	Global economic instability and crisis	CO4
•	The 2008 global economic crisis – prelude, proximate and long term causes	CO4
•	Possibility of recurring crises	CO4
Text Books	 Bhaduri, A. (2002). Nationalism and economic policy in the era of globalization. In D. Nayyar (ed.): <i>Governing globalization: Issues and</i> <i>institutions</i>. Oxford University Press. Chang, D. (2009). Informalising labour in Asia's global factory. <i>Journal of Contemporary Asia</i>, 39, 161-179. Dore, R. (2008). Financialisation of the global economy. <i>Industrial and</i> <i>Corporate Change</i>, 17, 1097-1112. Harvey, D. (2005). <i>A brief history of neoliberalism</i>. Introduction, Chapters 1-3. Oxford University Press. Winham, G. (2011). The evolution of the global trade regime. In J. Ravenhill (ed.): <i>Global political economy</i>. Oxford University Press. 	



LT		P	Credits			
4	0	0	4			

Course Code	ECN406								
Course Title	Advanced Global Trade Challenges and Opportunities								
Course Outcomes	CO1: Students will able to understand trade policy implications and global value chains. CO2: It enables the students to understand the importance of innovation and digitalization in trade.								
	CO3: 5	Students will ur	derstand the	e concepts politic	al econo	my and	geopol	itics of trade.	
	CO4: It will enable them to understand the challenges in trade, trade negotiations and diplomacy.								
Examination Mode	Theory								
	Continuous Assessment					MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus			1					CO Mapping	
Unit 1	Review	CO1							
•	Brief r	eview of key co	oncepts in in	ternational econo	omics			CO1	
•	Compa	arative advantag	ge and trade	theories				CO1	
•	Trade	policy and its in	nplications					CO1	
•	Globa	l Value Chains	GVCs)					CO1	
•	Unders	standing GVCs	and their sig	gnificance				CO1	
•	GVC g	governance and	coordinatio	n				CO1	
•	GVC p	participation and	d upgrading	strategies				CO1	

	Trade and Innovation	CO2
Unit 2		
•	Intellectual property rights (IPR) and trade	CO2
•	Technology transfer and its impact on trade	CO2
•	Innovation-driven trade policies	CO2
•	Trade in Services and Digital Trade	CO2
•	In-depth analysis of trade in services	CO2
•	The role of e-commerce and digital trade	CO2
•	Regulatory challenges in the digital economy	CO2
Unit 3	Trade Policy and Political Economy	CO3
•	Political economy of trade policy	CO3
•	Lobbying and interest groups in trade	C03
•	Trade policy-making in a globalized world	CO3
•	Geopolitics of Trade	CO3
•	Geopolitical factors shaping trade dynamics	CO3
•	Trade tensions and disputes among major economies	CO3
•	National security considerations in trade policy	CO3
Unit 4	Trade and Emerging Markets	CO4
•	Challenges and opportunities in emerging markets	CO4
•	Trade strategies of emerging economies	CO4

•	Trade Finance and Risk Management	CO4
•	Financing international trade	CO4
•	Managing currency and financial risks	CO4
•	Trade credit and insurance	CO4
•	Trade Negotiations and Diplomacy	CO4
•	Advanced negotiation techniques in trade agreements	CO4
•	Diplomatic skills in trade diplomacy	CO4
Text Books	 Global Business Today" by Charles W. L. Hill and G. Tomas M. Hult Global Value Chains: Linking Local Producers from Developing Countries to International Markets" by Gary Gereffi International Trade: Theory and Policy" by Paul Krugman and Maurice Obstfeld International Trade: Feenstra and Taylor" by Robert C. Feenstra and Alan M. Taylor Trade, Development and Political Economy: Essays in Honour of Anne O. Krueger" edited by Sadik D. Al-Azm and Naved Hamid 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN407								
Course Title	The History of Economic Thought								
Course	CO1: 1	familiarize the	concept mer	cantilism & Phy	siocrats	and the	physio	cratic school.	
Outcomes	CO2: .	Acquire knowle	edge of Briti	sh political econ	omy.				
	CO3: 1	Enabling the stu	idents to ha	ve depth of socia	lism.				
	CO4: 1	Enable students	to understa	nd Indian econo	mic tho	ughts.			
Examination Mode									
	Contin	nuous Assessme	ent		MS	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	- E				
Weightage	10	10	5	-	25	-	50	-	
Syllabus		I		I		1	1	CO Mapping	
Unit 1								CO1	
•	Import in Fore	tance of Foreig	n Conquest, inition of W	nitations of natio Colonization an Vealth and the wa ance of Trade.	d Trade	, Role of	f State	CO1	
•	Charle			Mum, Josiah Cl ill Age of Enligh		•		CO1	
•	econor	The Physiocratic school. Definition of surplus. The organization of economic activities and transactions. The Tableau Economique Works of Jacques Turgot, Francois Quesnay, Richard Cantillon.							
Unit 2								CO2	

•	British Political Economy - Nature of the Surplus, Source of Value, Measure of Value, Market Prices and Natural Prices, Profits and Wages, Gross and Net Revenue (national income).	CO2
•	Income Distribution, Works of Adam Smith, David Ricardo, Robert Malthus.	CO2
•	Objections raised by J. B. Say, Charles Dupuit, W Stanley Jevons, and Leon Walras, J.M. Keynes	CO2
Unit 3		CO3
•	Socialism - Rise of Socialist ideas, Political background, Ricardian Theory of Rent, Nationalization of Land, French Socialists, Marxism, Marx's writings in theoretical economics.	CO3
•	The Marxian twist, Marxism post – 1991 - Schumpeter's Critique.	CO3
Unit 4		CO4
•	Indian Economic Thought - Early Indian economic thought - Chanakya's Artha shastra - Colonial Economic policies, Unfair treatment of the colonies, Nationalist response, Swadeshi Movement.	CO4
•	Economic ideas of M. G. Ranade, Dadabhay Nowrosjee, Gopal Krishna Gokhale, Dr. B. R. Ambedkar, M.K. Gandhi	CO4
Text Books	1.History of Economic Analysis by Joseph Schumpeter2.Handbook on the History of Economic Analysis (eds) G. Faccarello and Heinz D. Kurz.	



]	LT		P	Credits
4	4	0	0	4

Course Code	ECN40	ECN408								
Course Title	Financi	Financial Economics								
Course	CO1: 7	Fo familiarize th	e students w	vith the basic conc	cepts in t	financia	l econor	mics		
Outcomes	CO2: 7 operati		prehensive k	nowledge on the	role of f	inance a	nd finaı	ncial systems in		
		The course inten market	ds to familia	arize the students	with the	basic co	oncepts	in money market and		
	CO 4: To enable students to know the operation of the Indian Financial System and activities in the financial markets.									
Examination Mode	Theory									
	Contin	uous Assessmer	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	-					
Weightage	10	10	5	-	25	-	50	-		
Syllabus		<u> </u>						CO Mapping		
Unit 1	Financ	ial system and H	Financial Ma	urkets				CO1		
•	Financ	ial system-Strue	cture-Functio	ons- Financial ma	rkets			CO1		
•	Financ	ial Instruments	-Financial sy	stem and Econor	nic deve	lopmen	t	CO1		
•	Money	market-Meanin	ng-Functions	5				CO1		
•		•		loans, Collateral Bills, Gilt edged	-		ry	CO1		
•	RBI in	Indian Money	market					CO1		
Unit 2	Capita	l Market						CO2		
•	Capital market		ng – Functio	ons-Structure-Prin	nary and	l Second	lary	CO2		

•	Instruments of Capital market- Bonds and debentures, Government promissory notes, Public sector bonds	CO2
•	Initial Public Offer-Methods of floatation of shares	CO2
•	Secondary Market- Nature and functions of stock exchanges -Settlement and trading in stock exchange	CO2
•	Players in stock exchanges -Speculators-Bulls, Bears, Lame duck, Stag- Kerb trading, Insider trading- Listing of securities	CO2
Unit 3	Security Market Analysis	CO3
•	Risk-Return on risk-types of risk- Security Evaluation	CO3
•	Fundamental Analysis, Technical Analysis -Fundamental Analysis	CO3
•	Dow Theory, Dow-Jones Index, Elliot Wave Theory	CO3
•	Derivatives-Options, Futures/Forwards, Swaps Construction of Stock market indices	CO3
Unit 4	Indian Financial System	CO4
•	Structure of Indian Financial System-Organization and management of Indian Stock Exchanges	CO4
•	Depositories in India NSDL, CSDL	CO4
•	Development financial institutions	CO4
•	Pension and Provident Funds, National Pension system and PFRDA (Pension Funds Regulatory and Development Authority)	CO4
•	Mutual funds- Venture capital funds- NBFIS, Chit Funds	CO4
•	Credit rating agencies in India	CO4
Text Books	1. Bhole, L M (1999): Financial Institutions and Markets, TATA Mc Graw Hill Co Ltd, New Delhi •	
	2. Gupta, S B (2007): Monetary Economics Institutions Theory and Policy, Chand and Co Ltd	
	3.Khan, N Y (1996): Indian Financial system, TATA Mc Graw Hill Co Ltd, New Delhi 4.Bharathi V Pathak(2003):Indian Financial system, Pierson Education, New Delhi.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN4	ECN452						
Course Title	Basic I	Econometrics						
Course Outcomes		•		g of Econometrics				
				bout the multiple			-	ble linear regression
	CO3- 7	Γo enable them	to understan	d the econometri	c modeli	ng and	multico	llinearity.
	CO4- \$	Students will un	derstand the	concepts of auto	correlati	on and l	heterosc	edasticity.
Examination Mode	Theory	7						
	Continuous Assessment				MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		I	1					CO Mapping
Unit 1	Nature	, Meaning and S	Scope of eco	nometric				CO1
•	Differe	ence between m	athematical	economics, statis	tics and	econom	etrics	CO1
•	Metho	dology of Econ	ometrics					CO1
•	Differe	ence between co	orrelation and	d regression				CO1
•	Simple	Simple linear regression model (Two variables)						
•	Sources of disturbance terms, assumptions, least squares estimators and their properties							CO1
٠		Markov's theor	em					CO1
Unit 2	Multip	le regression M	odel					CO2
•	Definit	tion, assumption	ns, least–squ	ares estimation				CO2
•	Testing	g significance of	f regression	coefficients, cond	cepts of l	R2 and I	R-2	CO2

•	Functional forms: Estimation of quadratic, semi–log and double log functions	CO2
•	simple and compound rates of growth (applications)	CO2
Unit 3	Econometric Modeling	CO3
•	Specification of regression model	CO3
•	Model selection criterion and Diagonistic testing	CO3
•	Multicollinearity: Problem consequences	CO3
•	test to detect Multicollinearity, remedies	CO3
Unit 4	Autocorrelation and Heteroscedasticity	CO4
•	Nature of autocorrelation and heteroscedasticity	CO4
•	Consequences tests	CO4
•	remedies (elementary treatment)	CO4
Text Books	1. Christopher Dougherty. Introductory Econometrics. Oxford University Press. 2012.	
	2. Gujarti, D. N. Basic Econometrics. Tata McGraw Hill. 2004.	
	3. Koutsoyiannis, A. Theory of Econometrics. Palgrave Macmillan.2005.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN4	ECN455						
Course Title	Opera	tions Researcl	1					
Course Outcomes	method CO2: S CO3: S CO4: U	 CO1: Identify the characteristics of linear programming problems. Understand various methods for solving linear programming problems CO2: Solve transportation problems using different methods. CO3: Students will learn to solve the problems related to assignment. CO4: Understand basic concept of game theory and learn the concepts of project management. 						
Examination Mode	Theory	1						
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		<u> </u>				I		CO Mapping
Unit 1	Introdu	uction to OR						CO1
•	Operat	ions research in	n India, natu	re, scope				CO1
•	limitat	ion and techniq	ues of OR					CO1
•	Duality	y-Concept of du	uality in LPI	P, Formulation of	the dua	l proble	m	CO1
•	Rules	for constructing	g the dual pr	oblem, Primal-D	ual relat	ionship		CO1
•		eting the Prim Simplex, Steps i		tionship, -Dual	of the D	ual is I	Primal,	CO1
•		tivity Analysis		analysis, Limitat	ions of S	Sensitiv	ity	CO1
Unit 2		oortation Model						CO2
•	Introdu	ction, Optimal	solution of	Transportation p	roblem			CO2
•	Metho	ds for initial ba	sicfeasible s	olutions- NWCM	I, LCM,	VAM		CO2

•	Optimality Tests- Stepping stone method, Modified distributionmethod	CO2
•	Degeneracy in Transportation problem	CO2
•	Profit maximization in Transportation problem,	CO2
•	Unbalanced Transportation problems, Trans shipment problem.	CO2
Unit 3	Assignment Model and	CO3
•	Introduction, Mathematical Formulation	CO3
•	Hungarian method [Minimization method, Maximization case in Assignment Problems	CO3
•	Travelling Salesman Problem, Un-balanced Assignment Problem, Air Crew assignment	CO3
•	Prohibited assignment/ Constrained assignment problem, LPP formulation of Assignment Problem	CO3
•	Inventory Control: Meaning, Inventory decisions, Types of Inventory, Factors affecting IC policy	CO3
•	Objectives of IC, Scope of IC, IC systems- P& Q	CO3
•	Inventory Models-Deterministic models (EOQ), Pricebreak approach, Safety stocks- factors & methods, Approaches to IC- ABC, VED.	CO3
Unit 4	Game Theory	CO4
•	Introduction, Types of strategy, The Maximin-Minimax principle	CO4
•	Saddle point, Types of problems-Games with pure strategies	CO4
•	Games with mixed strategies (8 methods), limitations of game theory	CO4
•	Network Analysis- PERT and CPM- Introduction	CO4
•	Objectives of Network Analysis, Applications of Network Model	CO4
•	ActivityTimes & Critical Path Computation of Critical Path Slack & Float	CO4
•	PERT- Steps & computing variance, Merits & demerits of PERT, CPM- Time estimating & Limitations	CO4
•	Project Cost analysis- Direct & indirect costs, The lowest cost schedule, Crashing of jobs, Allocation & leveling of resources (through CPM)	CO4

Text Books	1. Kalavathy, S. <i>Operations Research</i> . Vikas Publishing House. New Delhi.	
	 Kapoor, V.K. Operations Research. Sultan Chand & Sons. New Delhi. 	
	 Paneerselvam, R. Operations Research. Prentice Hall of India. New Delhi 	
	 Vohra, N.D. Quantitative Techniques in Management. Tata McGraw Hill Publishing Company Ltd. 	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN456							
Course Title	Data A	nalysis						
Course Outcomes	CO2: S CO3: u	 CO1: Students will learn to represent and analysis of data of real-world problems. CO2: Students will learn about statistical software's available for data analysis. CO3: understand visualization and representation using software's. CO4: To understand simple estimation techniques and test. 						
Examination Mode	nation Theory							
Assessment Tools	Contin Quiz	uous Assessmen Assignment	nt ABL/PB L	Lab Performance	MSE	MSP	ESE	ESP
Weightage	10	10	5	-	25	-	50	-
Syllabus								CO Mapping
Unit 1	Introdu	iction to the cou	irse					CO1
•	How ca probler		ation and an	alysis of data helj	p us stud	y real-v	vorld	CO1
•	Publicl	y available data	ı sets					CO1
Unit 2	Using I	Data: Available	statistical so	oftware				CO2
•	steps in	n data storage						CO2
•	organiz	zation and clean	ing					CO2
Unit 3	Visuali	zation and Rep	resentation					CO3
•	Alterna	ative forms of p	resenting dat	ta				CO3
•	Alterna	ative forms of su	ummarizing	data				CO3
Unit 4	Simple	estimation tech	niques					CO4
•	tests fo	r statistical infe	rence					CO4

Text Books	1. Levine, D., Stephan, D., Szabat, K. (2017). Statistics for managers	
	using Microsoft Excel, 8th ed. Pearson.	
	2. Tattar, P., Ramaiah, S., Manjunath, B. (2018). A course in statistics with	
	R. Wiley.	



L	Т	Р	Credits
4	0	0	4

Course Code	ECN45	ECN454							
Course Title	Advanced Econometrics								
Course	CO1: Students will understand the concept of dummy variables.								
Outcomes	CO2: This will help in understanding the Simultaneous Equation Models.								
	CO3: Students will learn Distributed Lag Models.								
	CO4: it will help in understanding basic characteristics of Time Series Data.								
Examination Mode	Theory								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus								CO Mapping	
Unit 1	Dummy Variables							CO1	
•	Regression on qualitative and quantitative variables						CO1		
•	dummy variable trap						CO1		
•	structu	structural stability of regression models						CO1	
•	Chow test, piecewise linear regression model						CO1		
Unit 2	Simult	Simultaneous Equation Models CO2						CO2	
•	Simultaneous bias, structural versus reduced form						CO2		
•	Identifi	Identification: rank versus order condition, exact and over identifications						CO2	
•	triangu	lar model, metl	CO2						
•	two-sta	two-stage least squares and three-stage least squares model						CO2	
Unit 3	Distributed Lag Models					CO3			

•	Formation of expectations	CO3
•	naïve expectation versus adaptive expectations models	CO3
•	partial adjustment models, distributed lag models	CO3
•	Koyck's model, Almon lag, polynomial distributed lag models	CO3
Unit 4	Basic Characteristics of Time Series Data	CO4
•	Random Walk	CO4
•	Testing for Non stationarity and Stationarity	CO4
•	Unit Root Tests	CO4
Text Books	1. Gujarati, Damodar N. Basic Econometrics. New York: McGraw-Hill. 2007. Print.	
	2. Wooldridge, Jeffrey M. Introductory Econometrics: A Modern Approach. Peking: Cengage Learning. 2009. Print.	
	3. Brooks, C. Introductory Econometrics for Finance. Cambridge University Press. 2003. First edition	