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-2024 & 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.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To equip the students with comprehensive understanding of the concepts and theories of economics.

PEO2: To develop analytical and problem-solving skills in order to understand the dynamics of business and society at local and regional level.

PEO3: To develop research orientation among students to pursue their higher education and career in the field of economics.

PROGRAMME 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, organisational, and personal) from different perspectives.

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

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

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

PO5: Ethics: Recognise 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 of socio-technological changes.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: To enable the students for the application of economic principles for the understanding of real time regional and national issues.

PSO2: Empowering the students to identify the key macro-economic indicators and measures of economic change, growth, and development.

Mapping of PEO with POs

	PEO 1	PEO 2	PEO 3
PEOs			
Pos			
PO1	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

	Course-type Wise Details of Credits									
S.No.	Broad Category of Course	3-Yr B.Sc Economics (Credits)	4-Yr B.Sc Economics (Credits) Honours	4-Yr B.Sc Economics (Credits) Honours with Research						
1	Core Courses	61	85	83						
2	Minor Courses	24	40	32						
3	Multidisciplinary Courses	9	9	9						
4	Ability Enhancement Course (AEC)	8	8	8						
5	Skill Enhancement Courses (SEC)	10	10	10						
6	Value Added Courses	6	6	6						
7	Summer Internship	2	2	2						
8	Research Project/Dissertation	-		12						
	Total Credits	120	160	162						

	S	Semester &	Course W	ise Detai	ls of Cro	edits				
S.No.	SEMESTER	DSC	MC	MDC	AEC -C	SEC- C	VAC -C	SE C- SI	SE C- RP	Total
1	I	4x2=8	-	3x1=3	2	2x2=4	3	-	-	20
2	II	5x1=5 4x1=4	-	3	2	3	3	-	-	20
3	III	4x2=8	4x1=4	3	2	3	-	-	-	20
4	IV	4x3=12	4x2=8	-	-	-	-	-	-	20
5	V	4x2=8	4x2=8	-	2	-	-	2	-	20
6	VI	4x4=16	4x1=4	-	-	-	-	-	-	20
7	VII (Hons)	4x3=12	4x2=8	-	-	-	-	-		20
8	VIII (Hons)	4x3=12	4x2=8	-	-	-	-	-		20
7	VII (Hons with Research)	4x3=12 2x1=2	4x1=4	-	-	-	-	-	3	21
8	VIII (Hons with Research)	4x2=8	4x1=4	-	-	-	-	-	9	21

KEY:

DSC = Discipline specific Course	MDC=	AEC-C =	MC = Minor
	Multi-Disciplinary	Ability	Course
	Course	Enhancement	
		Course	
VAC - C = Value Added Course	SEC-C =Skill	SEC- SI = Summer	SEC- RP=
	Enhancement Course	Internship	Research Project

Semester 1

S.No	Paper Code	Course Title	L	T	P	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		Workshop on Excel for Economists	0	0	4	2	SEC-C
5		Skill Enhancement-Elective	-	-	-	2	SEC-C
6		Value Added Courses	-	-	-	2	VAC-C
7		Ability Enhancement Elective	-	-	-	2	AEC-C
						19	

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

	1						T
S.No	Paper Code	Course Title	L	Т	P	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	-	-	-	2	VAC-C
7		Value added course	-	-	-	2	VAC-C
						21	

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:

The student will be awarded "Undergraduate Certification in Economics" after exit at this point, provided they secure 4 credits in skill/work based vocational courses or internship/apprenticeship for 4-6 weeks (with minimum 120 hours) during summer term.

Semester 3

S.No	Paper Code	Course Title	L	T	P	Cr	Course Type
1	ECN201	Microeconomics-III	4	0	0	4	DSC
2	ECN202	Macroeconomics-III	4	0	0	4	DSC
3	ECN203	Statistics-I	4	0	0	4	MC
4		Multi-Disciplinary Elective	-	-	-	3	MDC
5		Ability Enhancement- Elective	-	-	-	2	AEC-C
6		Skill Enhancement-Elective	-	-	-	3	SEC-C
						20	

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

Semester 4

S.No	Paper Code	Course Title	L	T	P	Cr	Course Type
1	ECN204	Development Economics	4	0	0	4	DSC
2	ECN205	Regional Economics with special reference to Punjab Economy	4	0	0	4	DSC
3	ECN206	Money and Banking	4	0	0	4	DSC
4	ECN207	Statistics-II	4	0	0	4	MC
5	ECN208	Mathematics for Economists-1	4	0	0	4	MC
						20	

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
- 2. Continuing students will undergo an internship in approved organizations for minimum 6 weeks during the summer vacations. They will be required to present summer internship project report during the fifth semester.

Second Exit:

The student will be awarded "Undergraduate Diploma in Economics" after exit at this point, provided they secure 4 credits in skill/work based vocational courses or internship/apprenticeship for 4-6 weeks (with minimum 120 hours) offered during first year summer term or second year summer term.

Semester 5

S.No	Paper Code	Course Title	L	Т	P	Cr	Course Type
1	ECN301	Agricultural Economics	4	0	0	4	DSC
2	ECN302	Indian Economy	4	0	0	4	DSC
3	ECN303	Seminar on Summer Internship	0	0	0	2	SEC-SI
4	ECN304	Statistics- III	4	0	0	4	MC
5	ECN305	Mathematics for Economists-II	4	0	0	4	MC
		Ability Enhancement-Elective	ı	-	-	2	AEC-C
						20	

Semester 6

S.No	Paper Code	Course Title	L	Т	P	Cr	Course Type
1	ECN306	Public Finance	4	0	0	4	DSC
2	ECN307	International Economics	4	0	0	4	DSC
3	ECN308	Economics of Health and Education	4	0	0	4	DSC
4	ECN309	Environmental Economics	4	0	0	4	DSC
5	ECN310	Mathematics For Economists-III	4	0	0	4	MC
						20	

Note

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

Semester 7 (With Research)

S. No	Paper Code	Course Title	L	Т	P	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	ECN404	Research Ethics	2	0	0	2	DSC
5	ECN451	Research Project-1 (Synopsis)	0	0	0	3	SEC-RP
6	ECN452	Basic Econometrics	4	0	0	4	MC
						21	

Semester 8

S.No	Paper Code	Course Title	L	Т	P	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 (Submission)	0	0	0	9	SEC-RP
4	ECN454	Advanced Econometrics	4	0	0	4	MC
						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.

Semester 7 (without Research)

S.No	Paper Code	Course Title	L	Т	P	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 Economic Thought	4	0	0	4	DSC
4	ECN452	Basic Econometrics	4	0	0	4	MC
5	ECN455	Operations Research	2	0	4	4	MC
						20	

Semester 8

S.No	Paper Code	Course Title	L	Т	P	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	MC
5	ECN456	Data Analysis	2	0	4	4	MC
						20	

Note:

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

Course	Ability-	Cr.	Course	Skill-	Cr.	Course	Value-	Cr.
Code	Enhancement		Code	Enhancement		Code	Added	
	Courses			Courses			Courses	
MGN90	Personality	1L+1P	MGN90	Essentials of	2L+1P		Environment	2L+2
1A	Enhancement		1S	Entrepreneurship-			al Studies	P
				Thinking and			(Mandatory)	
				Action				
MGN90	Personality	2P		Design Thinking	2P		Human	2L+2
2A	Development						Values and	T
							Ethics	
							(Mandatory)	
	Behavioural&	1L+1P		Design Thinking &	2L		Gender	2L
	Life Skills			Innovation			Sensitization	

	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	T	P	Credits
4	0	0	4

Course Code	ECN10	ECN103						
Course Title	Microe	Microeconomics – I						
Course Outcomes	perspe CO2: 7 and de CO3: 7	CO1: The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. CO2: The students learn some basic principles of microeconomics, interactions of supply and demand, and characteristics of perfect and imperfect markets. CO3: The student will learn about production function and producer equilibrium. CO4: students will understand the fundamentals of cost and revenue concepts.						
Examination Mode	Theory	,						
	Contin	uous Assessmen	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus					.	J	II.	CO Mapping
Unit 1								
•		oroblems of an e		g, Definition, Sco	ope, Impo	ortance	and	CO1
•		d and Supply furium due to char		ket Equilibrium, ad and supply.	Shift in 1	narket		CO1
•	elastici	•		alculating price, i pretation, relation				CO1
•		Elasticity of Supply: Meaning and Method of calculating elasticity of Supply. Degrees and their interpretation.						CO1
Unit 2								
•	Consumer Choice: Cardinal theory: Law of Diminishing Marginal Utility and Law of Equi Marginal utility.						ility	CO2
•		l theory: Budget al rate of substit		rence curves: Me	eaning an	d prope	rties,	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 	



I		Т	P	Credits
4	ļ	0	0	4

Course Code	ECN10	ECN104						
Course Title	Macroe	Macroeconomics – I						
Course Outcomes	CO2: 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	,						
	Contin	uous Assessmen	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus					1	•	1	CO Mapping
Unit 1	Introdu	iction to Macroe	economics					
•	Meani limitati	•	scope, import	ance, Micro vs. M	Iacroeco.	nomics,	and its	CO1
•		les: Real and no ; ex-ante andex-		ed and autonomo	us; Lagge	ed and u	n-	CO1
•		and Equations; I sequilibrium.	Equality & ide	entity; stock and f	low; Stat	ic, Equi	librium	CO1
Unit 2	Nation	al Income						
•	Definition: Economic and Non- Economic Production: Productive Vs Non-productive,intermediate, and final output;							CO2
•	Concepts of national income. Measurement of National Income: National income: Concepts, components and methods of measurement; Income, Output and Expenditure methods, Difficulties in national income measurement. Nominal and Real GNP.							
•	Circula	r flow of incom	e in two, thre	ee and four sector	s' econo	mies;		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 incomedetermination.	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	T	P	Credits
0	0	4	2

Course Code								
Course Title	Works	hop on Excel fo	r Economists	S				
Course Outcomes	CO1. Understand the structure of Excel functions CO2. Create, sort, and filter lists. CO3. Apply conditional functions CO4. Use Excel's Look Up functions							
Examination Mode	Practical							
	Contin	uous Assessmen	it		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance				
Weightage	-	-	-	20	-	30	-	50
Syllabus					<u> 1</u>			CO Mapping
Unit 1	Introd	luction to Excel						
•	Launch Excel and navigate the worksheet. Enter and edit data in a worksheet. Build worksheets.							CO1
•	Structure of an excel function							CO1
•	Functions such as SUM (), MIN (), MAX (), AVERAGE (), COUNT (), AUTOSUM, AUTOFILL.							CO1
Unit 2	Worki	ing with an Exc	el List					
•		standing Excel L a List Using M		CO2				
•	Filter a	Filter an Excel List Using the AutoFilter, Creating Subtotals in a List						CO2
•	Format a List as a Table, Using Conditional Formatting to Find Duplicates, Removing Duplicates.						cates,	CO2
Unit 3	Condi	tional Function	s and Worki	ing with Large E	Excel Dat	ta Sets		
•	Conditional Functions: Working with Excel Name Ranges, Using Excel's IF () Function, Nesting Functions, Using Excel's COUNTIF () Function, Using Excel's SUMIF () Function, Using Excel's IFERROR () Function.						CO3	
•	Workii	ng with Large Se	ets of Excel I	Data: Using the Fi	reeze Par	nes Tool	.,	CO3

	Grouping Data (Columns						
	and/or Rows), Consolidating Data from Multiple Worksheets.						
Unit 4	Jnit 4 Look Up and Text Based Function						
•	Excel's Lookup Functions: Using Excel's VLOOKUP () Function	CO4					
•	Using Excel's HLOOKUP () Function	CO4					
•	Using Excel's INDEX () and MATCH() Functions	CO4					
Text Books	 Etheridge, D. Excel Data Analysis, Indianapolis: Wiley Publishing. Latest Edition Alexander, Kusleika, & Walker Bach; Excel 2019 Bible; Wiley,2018 John Walkenbach; Excel Charts, Wiley,2016 Lokesh Lalwani, BPB publication, 'Excel All-in One: Master the new features of Excel,2019 						



L	T	P	Credits
4	0	0	4

Course Code	ECN105							
Course Title	Microe	Microeconomics – II						
Course Outcomes	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 Assessme	ent		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								CO1
•	and inc	Perfect competition: its features, price determination, equilibrium of firm and industry in market period, short run and long run; Shut down point, short period and long period supply curves.						CO1
•	1	Monopoly: Meaning, Assumptions, equilibrium of the monopolist in short and long run, monopoly power, supply curve.						CO1
•				grees, conditions and reg	-	librium	in	CO1
Unit 2								CO2
•		Monopolistic competition: meaning, assumptions, product differentiation and demand curve, firm and group equilibrium;					CO2	
•	Selling	g costs, excess	capacity, Dur	nping.				CO2
•	Price determination under monopsony and bilateral monopoly.						CO2	

Unit 3		CO3
•	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</i>, <i>A Mathematical Approach</i>. Samuelson, P.A. and W.D. Nordhaus. <i>Economics</i>. Tata McGraw Hill. 2005. 	



L	T	P	Credits
4	1	0	5

Course Code	ECN106								
Course Title	Macro	Macroeconomics – II							
Course Outcomes	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				CO Mapping					
Unit 1				CO1					
•	Basic (Concepts: Full	ent.	CO1					
•	Aggreg	gate demand an	d aggregate	supply functions	•			CO1	
•				of effective demand.	,	minatio	n of	CO1	
Unit 2								CO2	
•		Keynesian Economics: Keynes consumption function; saving and investment functions.						CO2	
•	Psycho	Psychological law of consumption						CO2	
•		nination of inco		CO2					
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. 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 McGraw 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	T	P	Credits
4	0	0	4

Course Code	ECN201							
Course Title	Microe	Microeconomics – III						
Course Outcomes	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	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
•		Factor Pricing: Marginal productivity theory of distribution and determination of factor prices under different market forms;						CO1
•		mic Rent: conce iination - Ricard	_	quasi rent etc.) ar dern theory.	nd theori	es of rer	nt	CO1
Unit 2								CO2
•	Wages	and its determ	ination.					CO2
•	Interes	t: Classical and	Loanable fu	und theory				CO2
•	Determination of profit and theories of profit. CO2						CO2	
Unit 3								CO3
•		orth box: 2 goodlity conditions		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	T	P	Credits
4	0	0	4

Course Code	ECN20	ECN202						
Course Title	Macro	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	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	1	1		1	CO Mapping
Unit 1								CO1
•	_	orium in produce	-	markets: IS and I	LM func	tions, ch	nanges	CO1
•	ISLM	General equitim of	changes in g	eneral equilibriur	n			CO1
•	Elastic	ity of IS and LI	M functions	and monetary and	d fiscal p	oolicies.		CO1
Unit 2								CO2
•		-	-	view on trade c s,control of trade	-	humpet	er,	CO2
•	Inflation: Causes, consequences and cures, theories of inflation: Classical, Keynesian, Modern theory of Inflation (demand Pull and Cost push inflation)							CO2
•	Inflatio	on – unemploy	ment trade of	off.Natural rate of	f unempl	oyment	•	CO2

Unit 3		CO3
•	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. 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 McGraw 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	T	P	Credits
4	0	0	4

Course Code	ECN203							
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 interprempirical 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							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus					<u> </u>	<u> </u>		CO Mapping
Unit 1								CO1
•	Definit	tion: Scope, Imp	ortance and	limitation of stat	istics.			CO1
•		ication and Tab o – way frequer		nta: discrete and c	continuo	us one –	way	CO1
•	Diagra	mmatic and gra	phic present	ation of Data.				CO1
Unit 2								CO2
•		Measures of Central Tendency; Mean, Median, Mode, GM and HM, properties, merits and demerits.						CO2
•	Range,	Measure of Dispersion: Absolute and Relative measures of dispersion-Range, Quartile Deviation, MeanDeviation, Standard Deviation and Variance.						CO2
Unit 3								CO3
•		Index Numbers: Meaning scope and limitation of index numbers, problems in construction of index numbers.						CO3

•	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.	CO3
•	Tests for the consistency of index numbers. Use the index numbers to various fields.	CO3
Unit 4		CO4
•	Correlation: meaning, Types, importance, Methods to measure – Scatter Diagram, Karl Pearson's productmoment and spearman's rank correlation.	CO4
•	Regression: Meaning, simple regression, least squares principle, properties of correlation and regressioncoefficients.	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	T	P	Credits
4	0	0	4

Course Code	ECN20	ECN204							
Course Title	Develo	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	/							
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus			l	1				CO Mapping	
Unit 1								CO1	
•		mic Developme pment goals.	ent: Meaning	g and its evolution	n, Sustai	nable		CO1	
•		h vs. Developm eteristics of Dev	-	ance, objectives	and core	values.		CO1	
•		Indicators of Development: GDP as measure of welfare, Social and Economic indicators, Physical QualityLife Index, Human Development Index.						CO1	
Unit 2								CO2	
•	_	Strategies of Development: Theory of Balanced and Unbalanced Growth, Theory of Big Push, Critical Minimum Effort Thesis.						CO2	
•		s of Structural (, Nurkse' Mode	•	vis model of unli anis Model.	mited su	pply of		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.	CO3
Unit 4		CO4
•	Capital formation: Meaning and Sources; capital –output ratio; Human Capital: Concept and utilization.	CO4
•	Foreign Aid: Forms and sources; Trade vs. Aid; Transfer of technology.	CO4
Text Books	 Chew, S.C. and R. A. Denmark. The Underdevelopment of Development. Sage Publications. New Delhi.1999. Debraj, Ray. Development Economics. Oxford University Press. 1998. Meier, G. M. and J. E. Rauch. Leading Issues in Economic Development. Oxford University Press. 2000. Taneja, M. L. and R. M. Myer. Economics of Development and Planning. Vishal Publications. 2014. Thirlwall, A.P. Growth and Development. Palgrave Macmillan Publishers. 7th edition. Todaro, M. P. and Stephen C. Smith. Economic Development. Pearson Publications. 2011. 	



L	T	P	Credits
4	0	0	4

Course Code	ECN20	ECN205						
Course Title	Region	Regional Economics with Special Reference to Punjab Economy						
Course Outcomes	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	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								
•	_	nal Economics: nic problems; I	_	cope, and framew tors;	ork; Reg	gional		CO1
•		Different Approaches to study Regional Economics; Location of places & their problems; Nature of Regions and relation of activities within a region						
•	Region	al policy & obj	jectives.					CO1
								CO2
Unit 2								
•		ral Changes in luctivity Green		CO2				
•	Agricu	ltural diversific	cation, ration	nale, constraints,	and pros	pectus;		CO2
Unit 3								CO3

•	Industry in Punjab: Industrial development – Pattern, performance, constraints & challenges; Small–scale industry role, problems &	CO3
	prospects;	
•	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	 Hoover, F.M.: An Introduction to Regional Economics. Richardson, H.W.: Regional Economics. Johar, R.S.& J.S. Khanna: Studies in Punjab Economy. Raikhy, P.S. & S.S. Gill: Resource Mobilization and Economic Development: A Regional Perspective. Govt. of Punjab: Statistical Abstracts. Bawa R.S. & P.S.Raikhy: Punjab Economy: Emerging Issues 	



L	T	P	Credits
4	0	0	4

Course Code	ECN20	06						
Course Title	Money and Banking							
Course Outcomes								ey and theories of
								ercial bank. Explain the
		Application of traciff barriers and th			nternatio	nal trade	, unders	tanding of tariff and
			•	of international t analyze impact o	-			ons to facilitate the al trade in detail
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	Money	: Introduction						CO1
•	Nature	CO1						
•	money and near money Demand for money						CO1	
•							CO1	
•	Fisher, Cambridge, Keynesian theories						CO1	
•	Supply of money, mechanics of money supply creation measures of money supply in India							CO1
•								CO1
Unit 2	Rate of	f Interest	CO2					
•	Meani	ng and Classific	cation of Interest					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	Sundram, K.P.M. <i>Money, Banking, Trade and Finance</i> . Sultan Chand & Sons. New Delhi. 2014	



L	T	P	Credits
4	0	0	4

Course Code	ECN207							
Course Title	Statistics – II							
Course Outcomes	CO 1: Students study the basics of statistical inference. 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								
	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
•	Correlation and Regression Analysis: Partial and multiple correlation coefficients: Derivations, application and properties.						CO1	
•	Fitting of multiple regression by least squares technique stress on numerical examples.							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.						zero.	CO2
Unit 3	CO						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	T	P	Credits
4	0	0	4

Course Code	ECN20	ECN208						
Course Title	Mathe	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	Theory	7						
	Contin	uous Assessme	ent		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus				1			I	CO Mapping
Unit 1								CO1
•		raight line, Mat v, Cost, and Rev		odelling, Applica	ations: D	emand,		CO1
•				elasticity of demants, Excel for line		. •		CO1
Unit 2								
•		Simultaneous equations: Solving simultaneous equations, Equilibrium and break even, Consumer and producer surplus						CO2
•		Non-linear functions and applications; Quadratic, Cubic and other polynomial functions. Exponential functions.						CO2
Unit 3								
•		•		n nth term of an a wo numbers, app				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. Yamane, T. Mathematics for Economist. Prentice Hall of India. New Delhi. 2001. 	



L	T	P	Credits
4	0	0	4

Course Code	ECN30	ECN301							
Course Title	Agricu	Agricultural Economics							
Course Outcomes	CO1: Understand the nature, importance and role of agriculture in Indian economy and reasons for backwardness.								
		Need, role and it forms done by t	_	-	it. Vario	ous instit	tutions a	available for credit,	
	CO3:	New agriculture	e technology	and its impact or	n various	s factors	related	with agriculture.	
		Structure, type a zation of agricul		-	keting ir	ı India.	Agricult	ture price policy and	
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	I			CO Mapping	
Unit 1	Agricu	lture Economics	s in the econ	omy				CO1	
•	Nature	, scope of agricu	ılture and its	importance in ec	onomics	}		CO1	
•	Role of	f agriculturein e	conomic dev	velopment				CO1	
•	Reason	ns for backward	ness of India	n agriculture				CO1	
•	Transfe	orming tradition	al agricultur	re				CO1	
•	Farming Systems: Family farming, co-operative farming, collective CO1 farming and state farming						CO1		
•	Farm s	Farm size and productivity CO1							
Unit 2	Agricu	ltural credit			_			CO2	
•	Need, 1	role of co-opera	tive and con	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	 Sourth Worth, H.M. and John Sten, B.F. Agricultural Development and Economic Growth (1967) Sadhu, A.N. and Amarjit Singh. Fundamentals of Agricultural Economics, Himalaya Publishers. New Delhi. 	



L	T	P	Credits
4	0	0	4

Course Code	ECN302							
Course Title	Indian Economy							
Course Outcomes	CO1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.							
		Inderstand the imate them with eco			population	on growt	h and its	distribution, translate
		_		oundation of econo cultural sector and	_		-	•
	knowle	edge on the vari	ious objectiv	nning undertakenes, failures and a eforms taken by	achieven	nents as	the fou	
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					1	•	1	CO Mapping
Unit 1	Structu	re of Indian Ec	onomy					CO1
•		al Income and onal income in		orial contribution	n, Inter-s	state var	riation	CO1
•	Capita	l Formation and	l Economic	Development in	India			CO1
•	Human resources and economic development in India: Size and growth rate of population in India							CO1
•	Demographic features of India's Population, Population Policy in India, Family Planning and welfareprogramme in India.							CO1
•	Povert	y Line and vario	ous measure	s to control Pove	erty			CO1
Unit 2	Econor	mic Planning in	India					CO2

•	Review of first ten Five Year Plans in India	CO2
•	Resources mobilization during different plans	CO2
•	Eleventh five-year plan: objectives, target and achievement and its critical analysis	CO2
•	Twelfth he year plan: objectives, target and achievement, issues for approach to the twelfth plan	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	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	T	P	Credits
4	0	0	4

Course Code	ECN30	ECN304						
Course Title	Statisti	Statistics – III						
Course Outcomes	CO2: S	Students will lead Students will ge Enable the stude	rical.					
	CO4: I	t makes the stu	dents to und	erstand the testin	g of hyp	othesis.		
Examination Mode	Theory	1						
	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
•	Theore	etical Distribution	on; binomial	, Poisson and no	rmal dist	ributior	ns	CO1
•	Deriva their fi		rical exampl	es based upon th	ese distr	ibutions	and	CO1
Unit 2								CO2
•	_	ing: Concepts un, systematic, a	•	ling: methods of	sampling	g simple		CO2
•		Point estimation: Concept of random sampling, meaning of an estimator; properties of a good estimator; methods of estimation.						CO2
Unit 3								CO3
•	Theori	es of estimation	; Point Estir	mation, Interval I	Estimatio	n.		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. Fundamental of Applied Statistics. Sultan Chand and Sons. New Delhi.2010 Kapur, J.N. and H.C. Saxena. Mathematical Statistics. S. Chand and Company. New Delhi. 1995. Mood, A.M. and F.A. Gray Bill. Introduction to the Theory of Statistics. McGraw Hill Company, New York. 1963. 	



L	T	P	Credits
4	0	0	4

Course Code	ECN305								
Course Title	Mather	Mathematics for Economists – II							
Course	CO1: Students will be able to understand sets and relations.								
Outcomes	CO2: 1	Enable the stude	ents to under	rstand about diffe	rentiatio	n and pa	artial di	fferentiation.	
	CO3: F	Provide knowled	lge of maxin	na, minima and b	asic trig	onometr	ric funct	ions.	
	CO4: S	Students will ha	ve good kno	wledge about ma	trices.				
Examination Mode	Theory	7							
	Contin	uous Assessmen	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									
•		nd Relations: Fu mics, System of	• •	s of function and	its appli	cation i	n	CO1	
•	Limits	and Continuity	of functions					CO1	
Unit 2								CO2	
•	revenu	Differentiation: Rules of differentiation, Economic Applications; Marginal revenue, average revenue, totalrevenue, marginal cost, average cost and total cost.							
•	Partial	differentiation.						CO2	
Unit 3								CO3	
•	Maxim	a and Minima,	profit maxin	nization-Economi	c applic	ations		CO3	

•	Basic Trigonometric Functions: Angle – Positive and negative,	CO3
	Trigonometric ratio of angle	
Unit 4		CO4
•	Linear Algebra: Matrices, types, products of matrices, Adjoint of a matrix,	CO4
	Inverse of a matrix, rank of a matrix, determinants	
•	Simultaneous linear equations (Cramer's rule). Inverse 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. Aggarwal & Joshi. Mathematics for Economists 	



L	T	P	Credits
4	0	0	4

Course Code	ECN30	06							
Course Title	Public	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							ypes of taxes among elfare and arouse to meet necessary ent.	
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							1	CO Mapping	
Unit 1									
•	Introduction: Nature and scope of public finance, categories of revenue, fiscal functions (allocation, distribution and stability), meaning of public sector and public expenditure.							CO1	
•	Market Performance: Meaning of efficiency, externalities, private versus public good – their efficient provision, merit goods.						CO1		
Unit 2								CO2	
•		on: Requirement principle, equit	•	l tax structure; be and vertical);	enefit pri	nciple, a	ability	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. Public Finance in Theory and Practices, McGraw-Hill International Editions, 1989. Cullis, John and Philip Jones, Public Finance and Public Choice, Oxford University Press, Third Edition (Indian), 2010. Rao, M Govind and Mihir, Rakshit. Public Economics: Theory and Policy Essays in Honor of Amaresh Bagchi, Sage Publications, 2011. Srivastava, D K and U, Shankar (ed.). Development and Public Finance: Essays in Honour of Raja J. Chelliah, Sage Publications, 2012. 	



L	T	P	Credits
4	0	0	4

Course Code	ECN30)7						
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 international economic system.							untries. exchange rate
Mode								
	Contin	uous Assessmei	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus		l			-			CO Mapping
Unit 1								
•		Theories and Corative advantage		olicy: Theories of cunity cost;	f absolut	e advan	tage,	CO1
•	Heckscher-Ohlin theory of trade- its main features, assumptions, and limitations.						d	CO1
•	Terms	of trade (conce	ots and secul	ar deterioration i	n terms o	of trade)	•	CO1
Unit 2								
•	Instruments of Trade Policy: Rationale of protection; Tariff and non-tariff barriers to trade (quota, voluntaryexport restraints, export subsidies, dumping and international cartel);						CO2	
•	Tariff a	and quota (parti	al equilibriu	manalysis).				CO2
Unit 3								CO3

•	Balance of Payments: Concepts and components of balance of payments.	CO3
•	Equilibrium and disequilibriumin 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	T	P	Credits
4	0	0	4

Course Code	ECN30	ECN308							
Course Title	Econo	Economics of Health and Education							
Course Outcomes	CO2: 7	CO1: Enable the students to understand the importance of health economics. CO2: To provide knowledge about the demand and supply of health care. CO3: It provides knowledge regarding the formulation health financing policy. CO4: Students will know the importance of education & investment in human capital.							
Examination Mode	Theory		ow the impo	ortance of educati	ion & mv	resumen	t III IIUII	ан сарнаг.	
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus			l	-			1	CO Mapping	
Unit 1	Introdu	action to Health	Economics					CO1	
•	Meani	ng, Importance	and Essentia	al Features of Hea	alth Econ	omics		CO1	
•	Conce CMR,		alth Care, Bi	rth rate, Fertility	rate, Dea	ith rate,	IMR,	CO1	
•	Morbio	dity rate (Acute	and Chronic	c), Adjusted Life	Year (D.	ALY)		CO1	
•	Quality	y Adjusted Life	Year (QUA	LY), Sex Ratio.				CO1	
Unit 2	Demar	nd and Supply o	f Heath Care	e:				CO2	
•	Demar	nd for Health Ca	are					CO2	
•	Case o	f Health Care A	accessibility					CO2	
•	Socio 1	Economic and C	Cultural Feat	tures				CO2	
•	Supply	of Health, Hea	lth Care Del	livery 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. Health Economics and Policy .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	T	P	Credits
4	0	0	4

Course Code	ECN30	ECN309							
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 theories for analysis CO3: This would impart the skills essential for understanding and solving the environmental issues. CO 4: Enable the students to impart knowledge about environmental policy tools and disaster management in India								
Examination Mode	Theory								
	Continuous Assessment MSE MS				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	Introdu	action to Enviro	onmental Eco	onomics				CO1	
•	Meani	ng, Scope and I	mportance o	of environmental	econom	ics		CO1	
•	Positiv	e and Normativ	veEconomic	S				CO1	
•	Type o	of Environment	al Goods					CO1	
•	Use va	lue and Nonus	e value (exis	tence, altruistic a	nd bequ	est valu	e)	CO1	
•	Public	goods, Private	goods, Club	goods				CO1	
•	Open a	access resource	S					CO1	

Unit 2	Market Failure and Externalities	CO2
•	Theory of Environmental Regulation and Policy	CO2
•	Assignment of PropertyRights and Coase Theorem	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 and Environmental Economics. Pearson Education/Addison Wesley. 3rd edition. Kolstad, Charles D. Intermediate Environmental Economics. Oxford University Press.	



L	T	P	Credits
4	0	0	4

Course Code	ECN31	ECN310							
Course Title	Mather	Mathematics for Economists – III							
Course Outcomes	CO1: Students will learn about difference equations and their applications. CO2: Students will be able to understand simple integration and their applications. CO3: It enables the students to learn Input – Output Analysis. CO4: Students will learn about linear programming and Duality theorem.								
Examination Mode	Theory	7							
	Contin	uous Assessmen	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	
•		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	
•	Simple Integration and Applications; Rules of Integration, Methods of Integration, Integration by Parts						CO2		
•		mic Applications, Producer Surp	ner	CO2					
Unit 3									

•	Input – Output Analysis: Assumptions; Transaction matrix: Technical coefficients, Hawkin–Simon Conditions, Metzler condition, open and close input-output systems	CO3
•	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. 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	L T F		Credits		
4	0	0	4		

Course Code	ECN401								
Course Title	Industr	Industrial Economics							
Course	CO1: I	t makes the stu	dents to unde	erstand the nature	and sco	pe of inc	dustrial	economics.	
Outcomes	CO2: S	Students will ur	nderstand the	industrial efficie	ncy and	technica	l efficie	ency.	
	CO3: I	t makes learne	rs to understa	and the growth of	firm and	market	structu	re.	
	CO4: I	t makes the stu	dents to unde	erstand various th	eories of	Industr	ial Loca	ation	
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> </u>		<u> </u>				CO Mapping	
Unit 1									
•	Definit	tion: Nature and	d scope of In	dustrial Economi	cs.			CO1	
•	History	y and developm	nent of indust	rial Economics.				CO1	
•		Concepts: Firm and active bel	•	larket, Market str firm.	ucture, M	larket p	ower,	CO1	
Unit 2								CO2	
•	Conce	ptual framewor	k for the stud	ly of Industrial Ed	conomics	5.		CO2	
•	Organi	zational form a	and alternativ	e motivesof the f	irm.			CO2	
•	Industrial efficiency and technical efficiency. Optimum size of the firm.					irm.	CO2		

Unit 3		CO3
•	Growth of the firm: Acquisition, diversification, merger constraints on Growth: demand, managerial and financial.	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.	CO4
•	Industrial policy and licensing policy, MRTP Act and FERA Act in India.	CO4
Text Books	 Barthwal, R. R. 2007. <i>Industrial Economics: An Introductory Text Book</i>. New Age International.New Delhi. Ferguson, P. R.1998. <i>Industrial Economics: Issues and Prospectus</i>. New York University Press. Seth, R. 2010, <i>Industrial Economics</i>. Ane Book. New Delhi. 	



LT		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 activities.								
	CO2: I	t helps to under	stand the en	nployers demand	as well	who rec	uires th	ne service of labour	
	CO3: I	t helps to analy	ses the wage	e structure, incom	ne and le	vel of e	mployn	nent	
		abour economi an power econo		n various aspects	of labou	ır organ	izations	, wage bargaining	
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			!	-	•	J		CO Mapping	
Unit 1								CO1	
•	Introdu	action to Labou	r Economics	: Meaning, Scop	e and Im	portanc	e.	CO1	
•	labour	under different	market form	I Productivity That s, Short run and y; 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	re choic	e;		CO2	
•		rium; role of inc		ncome andwage rostitution effect, b				CO2	

•	Individual and market labour supply curve.	CO2
Unit 3		CO3
•	Equilibrium in Labour Market: Analysis of equilibrium under the competitive and non-competitive marketforms.	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	T P		Credits			
4	0	0	4			

Course Code	ECN40	ECN403								
Course Title	Resear	Research Methodology								
Course	CO1: F	CO1: Provide knowledge about data types and sources of data.								
Outcomes	CO2: S	Students will ga	in the know	ledge of sample t	ype and	size.				
	CO3: '	To provide kno	wledge abou	it errors in survey	<i>'</i> .					
	CO4: S	Students will lea	arn how to p	rocess collected of	lata.					
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	Data ty	pes and source	S					CO1		
•	Qualita	ative and quanti	ty data					CO1		
•	measur	rement and scale	es					CO1		
•	second	lary sources of o	lata and inst	itutions				CO1		
•	Sample	e questionnaires	: Measurem	ent and scales				CO1		
Unit 2	Sample	e type and size						CO2		
•	Simple	random sampli	ing					CO2		
•	cluster	sampling		CO2						
•	stratific	ed sampling and	d its complic	cations				CO2		
•	Determ	nining an appro	priate size					CO2		
Unit 3	Errors	in surveys						CO3		

•	Misunderstanding of questions and answers	CO3
•	problem of nonresponse	CO3
Unit 4	Processing of survey data	CO3
•	Cleaning of data and its coding	CO4
•	Ethics and scientific integrity	CO4
•	Standards of conduct, privacy in data	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. 	



In	hou		
L	T	P	Credit
2	0	0	2

Course Code	ECN4	ECN404							
Course Title	Resear	Research Ethics							
Course Outcomes	On the completion of the course the student will be able to CO1: Understand the basics of philosophy, ethics and scientific conduct. CO2: Develop understanding on publication ethics and publication misconduct. CO3: Gain the knowledge about open access journals CO4: Gather the knowledge about plagiarism and research metrics.								
Examination Mode	Theory								
	Contin	nuous Assessme	ent		MSE	MSP	ESE	ESP	
Assessment Tools	Quiz	Assignment	ABL/PBL	Lab Performance					
Weightage	10	10	5	-	25	-	50	-	
Syllabus			l		I			CO Mapping	
Unit 1	Philos	ophy and Ethi	cs					CO1	
	Introdu	uction to Philos	sophy- Definit	ion, Nature, Sco	ppe.			CO1	
	Ethics	-Definition, Mo	oral Philosoph	y, Nature of Mo	ral Judg	ement.		CO1	
			•	hics, Ethics with esearch integrity	•	to scien	ce and	CO1	
	Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP), Redundant publications, Selective reporting and misrepresentation of data.							CO1	
Unit 2	Publication Ethics CO2							CO2	
	Publication ethics: definition, introduction and importance, best practices / standards setting initiatives and guidelines: COPE, WAME, etc., Conflicts of interest.						CO2		

	Publication misconduct: definition, concept, Violation of publication ethics, authorship and contributorship, Identification of publication misconduct, complaints and appeals, Predatory publishers and journals	CO2
Unit 3	Open Access Publishing	CO3
	Open access publications-Definition and concept	CO3
	Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.	CO3
Unit 4	Database & Research Metrics	CO4
	Plagiarism software like Tumitin, Urkund and other open-source software tools, Databases-Indexing databases, Citation databases: Web of Science, Scopus, etc.,	CO4
	Research Metrics-Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score, Metrics: h-index, g index, i10 index, Altmetrics	CO4
Text Books	 Bird,A. (2006). Philosophy of Sciences. Routledge MacIntyre, Alasdair (1967). A Short History of Ethics. London P.Chandah. (2018). Ethics in Competitive Research: Do not get Scooped; do not get plagiarized. 	



L	TP		Credits			
4	0	0	4			

Course Code	ECN40	ECN405								
Course Title	Global	Global Political Economy								
Course	CO1: U	CO1: Understand the basic concepts of global political economy.								
Outcomes	CO2: A	Able to understa	and the conce	epts of changing	dynamic	s of cap	italist p	production.		
	CO3: S	Students will lea	arn about the	political econom	ny of glo	bal trad	e.			
	CO4: I and cri		nts to unders	tand the era of gl	obalisati	on and	global e	economic instability		
Examination Mode	Theory	7								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP		
Assessment	Quiz	Assignment	ABL/PB	Lab						
Tools			L	Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus		CO Mapping								
Unit 1	Introdu	ection and overv	view					CO1		
•	_	ctives on politic cal overview	cal economy	of globalisation	with a			CO1		
Unit 2	Changi	ing dynamics of	f capitalist p	roduction				CO2		
•	Organi	zational forms	and Labour p	processes				CO2		
•	Fordist	and post-Fordi	st production	n regimes				CO2		
•	Multin	ational corporat	tions –evolut	tion, structural fo	rm and o	dynamic	S	CO2		
•	global	value chains an	d production	n networks				CO2		
•		the changing nature of employment, job security and Labour rights in a globalised economy CO2								
Unit 3	The po	litical economy	of global tra	ade				CO3		
•	Structu	re and institution	ons of the int	ternational trade 1	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 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 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. 	



L	ı T P		Credits	
4	0	0	4	

Course Code	ECN40	ECN406						
Course Title	Advan	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: Students will understand the concepts political economy and geopolitics of trade. CO4: It will enable them to understand the challenges in trade, trade negotiations and diplomacy. Theory							
Mode								
	Contin	uous Assessme	nt		MSE	MSP	ESE	ESP
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance				
Weightage	10	10	5	-	25	-	50	-
Syllabus						l .		CO Mapping
Unit 1	Review	v of Internatio	nal Econom	nics				CO1
•	Brief re	eview of key co	oncepts in in	ternational econo	omics			CO1
•	Compa	rative advantag	ge and trade	theories				CO1
•	Trade 1	policy and its ir	nplications					CO1
•	Global Value Chains (GVCs)							CO1
•	Unders	standing GVCs		CO1				
•	GVC g	governance and	coordination	1				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	CO3
•	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	T	P	Credits
4	0	0	4

Course Code	ECN4	ECN407								
Course Title	The H	The History of Economic Thought								
Course Outcomes	CO2: A	CO1: familiarize the concept mercantilism & Physiocrats and the physiocratic school. CO2: Acquire knowledge of British political economy. CO3: Enabling the students to have depth of socialism.								
	CO4: 1	Enable students	to understa	nd Indian econor	nic tho	ights.				
Examination Mode	Theory	ý								
	Contin	uous Assessme	ent		MS E	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance	- L					
Weightage	10	10	5	-	25	-	50	-		
Syllabus		l		1				CO Mapping		
Unit 1								CO1		
•	Import in Fore	tance of Foreign	n Conquest, inition of W	nitations of natio Colonization and ealth and the wa ance of Trade.	d Trade	, Role o	f State	CO1		
•	Charle			Mum, Josiah Chill Age of Enligh		•		CO1		
•	The Physiocratic school. Definition of surplus. The organization of economic activities and transactions. The Tableau Economique Works of Jacques Turgot, Francois Quesnay, Richard Cantillon.							CO1		
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 Schumpeter 2.Handbook on the History of Economic Analysis (eds) G. Faccarello and Heinz D. Kurz.	



L	T	P	Credits
4	0	0	4

Course Code	ECN40	ECN408						
Course Title	Financi	al Economics						
Course	•							
Outcomes								
		The course intenmarket	ds to familia	arize the students	with the	basic co	oncepts	in money market and
		To enable stude ancial markets.	nts to know	the operation of the	he India	n Finano	cial Sys	tem and activities in
Examination Mode	Theory	7						
	Contin	uous Assessmen	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	Financ	ial system and I	Financial Ma	ırkets				CO1
•	Financ	ial system-Struc	cture-Function	ons- Financial ma	rkets			CO1
•	Financ	ial Instruments	-Financial sy	stem and Econor	nic deve	lopmen	t	CO1
•	Money	market-Meanii	ng-Functions	S				CO1
•		•		loans, Collateral Bills, Gilt edged			ry	CO1
•	RBI in	Indian Money	market					CO1
Unit 2	Capital	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 Fubile Offer Methods of Houtation of Shares						
•	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						
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	 Bhole, L M (1999): Financial Institutions and Markets, TATA Mc Graw Hill Co Ltd, New Delhi • 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	T	P	Credits			
4	0	0	4			

Course Code	ECN45	ECN452								
Course Title	Basic I	Basic Econometrics								
Course Outcomes	CO1- To provide an understanding of Econometrics CO2- To equip students with knowledge required for the estimation of simple linear regression model and providing a basic idea about the multiple regression model. CO3- To enable them to understand the econometric modeling and multicollinearity. CO4- Students will understand the concepts of autocorrelation and heteroscedasticity.									
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					<u> </u>		l	CO Mapping		
Unit 1	Nature	, Meaning and S	Scope of eco	nometric				CO1		
•	Differe	ence between m	athematical e	economics, statist	tics and	econom	etrics	CO1		
•	Metho	dology of Econo	ometrics					CO1		
•	Differe	ence between co	rrelation and	l regression				CO1		
•	Simple	linear regression	on model (Tv	wo variables)				CO1		
•		s of disturbanc	e terms, ass	umptions, least	squares	estimato	ors and	CO1		
•	Gauss	Markov's theor	em					CO1		
Unit 2	Multip	le regression M	odel					CO2		
•	Definit	tion, assumption	ıs, least–squa	ares estimation				CO2		
•	Testing	g significance of	f regression of	coefficients, conc	epts 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	T	P	Credits
4	0	0	4

Course Code	ECN455									
Course Title	Opera	Operations Research								
Course Outcomes	method CO2: S	CO1: Identify the characteristics of linear programming problems. Understand various methods for solving linear programming problems CO2: Solve transportation problems using different methods.								
	CO4: U	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	nt		MSE	MSP	ESE	ESP		
Assessment Tools	Quiz	Assignment	ABL/PB L	Lab Performance						
Weightage	10	10	5	-	25	-	50	-		
Syllabus				l				CO Mapping		
Unit 1	Introdu	action to OR						CO1		
•	Operat	ions research in	India, natu	re, scope				CO1		
•	limitat	ion and techniq	ues of OR					CO1		
•	Duality	y-Concept of du	ıality in LPF	, Formulation of	the dua	l proble	em	CO1		
•	Rules	for constructing	the dual pro	oblem, Primal-Du	ual relat	ionship		CO1		
•	_	eting the Prima		tionship, -Dual o	of the D	oual is l	Primal,	CO1		
•		tivity Analysis:		analysis, Limitat	ions of S	Sensitiv	ity	CO1		
Unit 2		ortation Model						CO2		
•	Introdu	action, Optimal	solution of	Fransportation pr	oblem			CO2		
•	Metho	ds for initial bas	sicfeasible so	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), Price break 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	 Kalavathy, S. Operations Research. 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	T	P	Credits
4	0	0	4

Course Code	ECN456							
Course Title	Data Analysis							
Course Outcomes	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	Theory							
	Contin	uous Assessmei	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	Introdu	action to the cou	CO1					
•		How can the representation and analysis of data help us study real-world problems						
•	Publicl	Publicly available data sets						CO1
Unit 2	Using 1	Using Data: Available statistical software						CO2
•	steps in	steps in data storage						CO2
•	organiz	organization and cleaning						CO2
Unit 3	Visuali	Visualization and Representation CC						
•	Alterna	Alternative forms of presenting data						CO3
•	Alterna	Alternative forms of summarizing data						CO3
Unit 4	Simple	Simple estimation techniques						CO4
•	tests for statistical inference CO4							CO4

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



L	T	P	Credits
4	0	0	4

Course Code	ECN454							
Course Title	Advanced Econometrics							
Course	CO1: Students will understand the concept of dummy variables.							
Outcomes	CO2: 7							
	CO3: Students will learn Distributed Lag Models.							
	CO4: it will help in understanding basic characteristics of Time Series Data.							
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			ı	CO Mapping				
Unit 1	Dumm	y Variables	CO1					
•	Regres	sion on qualita	tive and qua	ntitative variables	S			CO1
•	dummy	y variable trap						CO1
•	structu	ral stability of 1		CO1				
•	Chow	test, piecewise		CO1				
Unit 2	Simult	aneous Equatio		CO2				
•	Simult	aneous bias, str		CO2				
•	Identif	ication: rank ve	ations	CO2				
•	triangu	lar model, metl	iares	CO2				
•	two-sta	two-stage least squares and three-stage least squares model						CO2
Unit 3	Distrib	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	