KURUKSHETRA UNIVERSITY, KURUKSHETRA (Established by the State Legislative Act XII of 1956)

("A+" Grade, NAAC Accredited)

Scheme of Examination of MSc (HONS) 5-year INTEGRATEDin Economics Semester 1st to Semester 6th w.e.f. Session 2020-2021, Under Choice Based Credit System/LOCF in phased manner for the regular students of Institute of Integrated and Honors Studies, K.U. Kurukshetra.

Semes	Course Code	Course Name	Credit	Teaching		Time		
ter				Hour per week	Theory	Internal Assessment	Total Marks	
lst	CC-1 IN-ECX-101	Micro Economics-I	6	6	120	30	150	3
150	CC-2IN-ECX-102	Macro Economics-I	6	6	120	30	150	3
	AECC-1	(English/MIL)/Communication/Environmental Studies (As per respective Department)	2	2	40	10	50	2
	GE-1 IN-ECX-103	Money,Banking&Finance-I	6	6	120	30	150	3
	CC-3 IN-ECX-201	Micro Economics-II	6	6	120	30	150	3
lind	CC-4IN-ECX-202	Macro Economics-II	6	6	120	30	150	3
iiiu	AECC-2 (English/MIL)/Communication/Environmental Studies (As per respective Department)		2	2	40	10	50	2
	GE-2 IN-ECX-203	Money,Banking&Finance-II	6	6	120	30	150	3
	CC-5 IN-ECX-301	Mathematics for Economics-I		6	120	30	150	3
	CC-6 IN-ECO-302	Environmental Economics-I		6	120	30	150	3
	CC-7 IN-ECO-303	Statistics for Economics-I	6	6	120	30	150	3
IIIrd	SEC-1	Computer Science Level-1/ Personality Development/MOOC (As per respective Department)	2	2	40	10	50	2
	GE-3IN-ECX-304	Indian Economy-I	6	6	120	30	150	3
	CC-8 IN-ECO-401	Mathematics for Economics-II	6	6	120	30	150	3
IVth	CC-9- IN-ECO-402 Environmental Economics-II		6	6	120	30	150	3
	CC-10 IN-ECO-403	N-ECO-403 Statistics for Economics-II		6	120	30	150	3
	SEC-2	Computer Science Level-1/ Personality Development/MOOC (As per respective Department)	2	2	40	10	50	2

	GE-4IN-ECX-404	Indian Economy-II	6	6	120	30	150	3
	CC-11 IN-ECO-501	Basic Econometrics	6	6	120	30	150	3
	CC-12IN-ECO-502	Development Economics-I	6	6	120	30	150	3
Vth	DSE-1 IN-ECO-503 or DSE-1 IN-ECX-504	History of Economic Thought or Communication skills for Economists	6	6	120	30	150	3
	DSE-2 IN-ECO-505 Or DSE-2 IN-ECO-506	Economics of Health and Education or Public Economics	6	6	120	30	150	3
	GE-5IN-ECO-507	International Trade-I	6	6	120	30	150	3
	CC-13 IN-ECO-601	Economics of Finance	6	6	120	30	150	3
	CC-14- IN-ECO-602	Development Economics-II	6	6	120	30	150	3
Vith	DSE-3 IN-ECO-603 DSE-3 IN-ECO-604 Or DSE-3 IN-ECO-605 DSE-3 IN-ECO-606	Research Methodology Research Methodology(P) Or Energy Economics Energy Economics(P)	4 2	4 2	80 40	20 10	100 50	3
	DSE-4IN-ECO-607 DSE-4IN-ECO-608 Or DSE-4IN-ECO-609 DSE-4IN-ECO-610	Industrial Economics Industrial Economics(P) Or Agricultural Economics Agricultural economics(P)	4 2	4 2	80 40	20 10	100 50	3
	GE-6IN-ECO-611	International Trade-II	6	6	120	30	150	3

^{*}Workload=1 Hour of teaching/2 hours of practical work=25 marks

^{*}MIL stands for Modern Indian Languages

^{*}GE: Generic Elective@ 6 credits. Available in English only(As per respective Department)

^{*}CC: Core courses are fourteen @ 6 credits per semester.

^{*}AECC: Ability Enhancement Compulsory Course are two @ 2 credits per Semester. (Available in Sem. 1 and Sem. 2) (As per respective Department)

^{*}SEC: Skill Enhancement Course is four. @ 2 credits per semester, exist in Sem. 3 and Sem. 4(As per respective Department)

^{*}DSE: Discipline Specific Elective are four @ 6 credits per semester. Available in Sem. 5 &Sem. 6

^{*}General elective may be other than economics.

MASTER OF SCIENCE ECONOMICS (Honors)

(upto and inclusive 6th semester)
5-vear integrated course

PROGRAMME OUTCOMES (POs) for MSc honors course of Economics

- 1- To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems.
- 2- To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them
- 3- To create awareness on ethical issues, good business practices, and ecologyeconomics interface
- 4- To development ability in youth for understanding basic economic rationality and effective communication skills
- 5- To prepare youth for career in teaching, industry, government organizations and self-entrepreneurship
- 6- To make students aware of natural resources, sustainable use and environment
- 7- To provide learning experience in students that instills deep interest in economic science for the benefit of society.

PROGRAMME SPECIFIC OUTCOMES(PSOs) for MSc course in Economics (Honors)

PSO1: demonstrate the knowledge and understanding of economic science i.e. vital processes of economy, consumer and producer behavior at micro level and macro-level

PSO2: critically think and correlate the economics knowledge with decision-making with regard to economic planning and economic policies, understanding of conflicts, tradeoffs, and welfare implications of economic measures to improve the quality of life in person as well as of community.

PSO3: demonstrate an understanding of the principles, methods of economic analysis in static and dynamic terms, analysis of economic data

PSO4: concise and meaningful writing and reporting, effective presentation skills, and ability to work productively in a group with co-operation

Master of Science Economics(Honors)5-year integrated Semester-1 Micro Economics-I CC1-IN-ECX-101

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	i-a To introduce the students about microeconomics,
(i-a)	its nature, scope, importance; Choice as basic
Introduction: Definition & Nature of	economic problem, and production possibility
Economics; Subject matter of Economics:	frontier
human behavior or product behavior	The aim is to make students attuned with economics
(Robbins' Definition) Basic Problems of an	as introduced at fresher's level, its subject-matter,
economy	and its nature. Also to make a student learn about the
(1-b)	basic economic problem of choice and production
Fundamental economic Terms: Marginalist	possibility frontiers
Rule, Opportunity cost, Time Value of	i-b is meant to make student acquainted with basic
Money	principles of economics and fundamental terms
UNIT-2	ii-a
(ii-a)	Objective is to acquaint the students with laws relating to consumption, and approaches to
Consumer Behavior- Law of equi-marginal	consumer's behavior: Neo-classical, and later
utility; Indifference Curve analysis: Consumer	developments
Equilibrium	ii-b
	The contents under this section are designed to make
(ii-b)	students learn about the law of demand and elasticity
Law of Demand; Types of Goods (Ordinary	of demand, and the measurement by different
and Giffen); Elasticity of Demand (Price,	approaches.
Income and Cross)	
UNIT-3	iii-a
(iii-a)	The contents under this section are designed to make
Theory of Production: Theory of Cost	students learn about the producer or firm's behaviour
	as laws of returns in short-period and long period,

(Traditional & Modern), Concepts of

Revenue.; Isoquants & least-cost

Combination; Laws of returns & economies of scale

(iii-b)

Supply and Law of Supply; Types of supply, Elasticity of supply.

UNIT-4

(iv-a)

Markets-firm's and industry's equilibrium in Perfect competition

(iv-b)

Monopoly: Monopoly market, price discriminating monopoly (first, second & third degree Price Discrimination),

Monopolistic Competition: Firm's equilibrium

(Chamberlin's model)

and least cost combinations, alongwith economies of scale

iii-b

A general idea about the supply and supply law, changes in supply, and sensitivity of supply to price

iv-a

Objective is to make students' exposure to markets, behavior of perfectly competitive firm

iv-b

The students are expected to learn about behavior of firm in imperfect competition

Overview of Outcomes

Core Course- Micro Economics-I

After the successful completion of the course, the students will be able to Course Objective #

Ecx101.1 Have insight about the economics, the economic problem and consumer behavior in terms of demand and its elasticity

Ecx101.2 Have further understanding of consumer behavior in terms ofindifference curves, and responsive of demand

Ecx101.3 Have knowledge about nature of production, and producer behaviorin terms of laws of production, economies and diseconomies of scale, and elasticity of supply

Ecx101.4 Have understanding about markets, perfectly competitive firmand imperfectly competitive firm, and industry.

CORE-COURSE- MICROECONOMICS-1

CO#	PO	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
	1										
Ecx101.1	3	3	1	2	2	2	1	3	1	2	1
Ecx101.2	3	3	2	2	1	1	1	3	1	2	1
Ecx101.3	3	3	1	2	2	2	2	3	2	2	1
Ecx101.4	3	3	2	2	2	1	1	3	1	2	1
Average	3	3	1.5	2	1.75	1.5	1.25	3	1.25	2	1

Suggested Readings List

Archibald, G.C. (Ed.) (1971), Theory of the Firm, Penguin, Harmondsworth.

- Baumol, W.J. (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- Borch, K.H. (1968), The Economics of Uncertainty, Princeton University Press, Princeton.
- Broadway, R.W. and N. Bruce (1984), Welfare Economics, Basil Blackwell, London.
- Da Costa, G. C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
- Diamond and Rothschild (Eds.) (1978), Uncertainty in Economics, Academic Press New York.
- Graff, J. De. V. (1957), Theoretical Welfare Economics, Cambridge University Press, Cambridge.
- Green H.A.G. (1971), Consumer Theory, Penguin, Harmondsworth.
- Heathfield & Wibe (1987): An Introduction to Cost & Production Functions; Macmillan, London.
- Henderson J. and Quandt R.E(1980): Micro-economic Theory: A Mathematical
- Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi.
- Koutsoyiannis A. (1990): Modern Microeconomics, Macmillan press, London.
- Kreps, David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
- Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York.
- Quirk, J. and R. Saposnik (1968), Introduction to General Equilibrium Theory and Welfare Economics, McGraw Hill, New York
- Samuelson P.A, and Nordham, W.D(1998):Economics, Tata-McGraw Hill, NewDelhi
- Sen, A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi. Varian, H. (2000), Microeconomic Analysis, W.W. Norton, New York.

Master of Science Economics(Honors)5-year integrated Semester-I Macro Economics-I CC2-IN-ECX-102

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	i-a Objective is to introduce the students about
(i-a)	macroeconomics, its nature, scope, importance with the
Nature and scope of Macroeconomics: Introduction to Macro-economic data; Circular flow of income	aim is to make students acquainted with macro-economics as introduced at fresher's level, its subject-matter, and nature of economic processes as a circular flow.
(i-b) Gross and Net national product, national and personal income, methods of national income accounting.	i-b is meant to give a broad and indepth view of National Income concepts and measurement.
UNIT-2	ii-a Objective is to acquaint the students with approaches
(ii-a) Theories of Employment: Classical Theory of Employment, Say's Law of Markets, (ii-b) Keynesian Theory of Employment.	relating to determination of Income and employment- Classical model, its limitations ii-b Students are expected to get exposure about Keynes' model, and basic comparison between the two approaches
UNIT-3	iii-a Objective is to make students' exposure to the concept of consumption function, and its attributes
(iii-a)Consumption function: Psychological law of consumption (iii-b)Absolute income hypothesis, Life cycle hypothesis and Permanent income hypothesis	iii-bThe students are expected to learn about Income- consumption relationship in short run and long run in terms of the various kinds of Income-Absolute Income, Relative Income, Permanent Income and Income over life cycle.
nj pomesis	
UNIT-4 (iv-a)	iv-a Aims at pupils' understanding of macroeconomic

Investment and Investment function. Types	aggregate of investment; factors which determine
of Investment, and determinants of	investment, Investment multiplier and its role.
Investment, Concept of Investment Multiplier	
(iv-b)	iv-b
Decision to Invest: MEC and rate of interest.	Objective is to make students learn about decision to
Multiplier-Accelerator interaction.	Invest, and Income generation process, and aaplicability of
Applicability of Keynesian Theory to the	Keynesian economics todeveloping countries.
developing countries	

Overview of Outcomes

Core Course- Macroeconomics-I

After the successful completion of the course, the students will be able to

Course Objective #

Ecx102.1 Have insight about the macroeconomics, national income, concepts and measurement

Ecx102.2 Have further understanding of economy in terms of equilibrium level of income employment-classical and Keynesian approach

Ecx102.3 Have knowledge about nature of consumption function, and Consumption-income relationship in short and long run

Ecx102.4 Have understanding about Capital, investment function, decision to invest, and income generation process

Core-Course- MacroEconomics-1

Core Course	111401	Core Course Macroneconomics 1									
CO#	РО	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
	1										
Ecx102.1	3	3	1	2	1	2	1	3	1	2	1
Ecx102.2	3	3	2	2	1	1	2	3	2	2	1
Ecx102.3	3	3	1	2	2	2	1	3	1	2	1
Ecx102.4	3	3	2	2	2	1	1	3	1	2	1
Average	3	3	1.5	2	1.5	1.5	1.25	3	1.25	2	1

- Ackley, G. (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
- Bernanke and Abel: Macroeconomics, 4th Edition
- Blackhouse, R. and A. Salansi (Eds.) (2000), Macroeconomics and the Real World (2 Vols.), Oxford University Press, London.
- Blanchard: Macroeconomics (Pearson Education), 4th Edition.
- Branson, W.A. (1989), Macroeconomic Theory and Policy, (3rd Edition), Harper and Row, New York.
- Dernburg, T.F.and D. M.Mc Dougall, Macroeconomics, McGraw Hill International Book Company.

- Dornbusch, Fisher and Startz: Macroeconomics (Tata McGraw-Hill), 9th Edition.
- Dornbusch, R. and F. Stanley (1999), Macroeconomics, Irwrin McGraw Hill, Inc. New York, 7th Edition.
- Edward Shapiro : Macroeconomic Analysis.
- Frisch, H. (1983), Theories of Inflation, Cambridge University Press, Cambridge.
- Gardner Ackley : Macroeconomic Theory
- Heijdra, B.J. and V.P. Fredericck (2001), Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.
- Jha, R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- Karl E. Case, Ray C. Fair: Principles of Macroeconomics, Publisher: Prentice Hall
- Lucas, R. (1981), Studies in Business Cycle Theory, MIT Press, Cambridge, Masscechusetts.
- Mankiw N.G: Macroeconomics (Worth Publishers), 5th Edition,
- Mankiw, N. Greogory (2000), Macroeconomics Macmillan Worth Publishers 4th Edition.
- Mankiw, N.G. and D. Romer (Eds.) (1991), New Keynesian Economics, (2Vols.), MIT Press, Cambridge.
- Rana &Verma: Macro-economics Analysis.
- Romer, D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
- Ruggles R. and N. Ruggles (1956), National Income Accounts and Income Analysis Mc Graw Hill, Newyork.
- Samuelson P.A, and Nordham, W.D(1998):Economics, Tata- McGraw Hill, New Delhi.
- Sheffirin, S.M. (1996), Rational Expectations, Cambridge University Press, Cambridge.
- Taylor, L. (1983), Structuralist Macroeconomics, Basic Books, New Longman. Turnovsky, S.J. (1977), Macroeconomic Analysis and Stabilization Policy, Cambridge University Press, Cambridge.
- Veniers, Y.P. and F.D.Sebold, (1977) Macroeconomics; Models and Policy John Wiley and Inc, USA.

Master of Science Economics(Honors)5-year integrated Semester-I Money, Banking&Finance-1 GE1-IN-ECX-103

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing the students about Barter&
Barter system – Characteristics and	money; nature and functions to money
difficulties; Money-Definition, functions,	(i-b)
classification, and significance;	
(i-b)	aims at making the students acquainted with money
Money supply determinants,	supply, its determinants and components of money
High-powered money and money	supply
multiplier; RBI measures of monetary	
aggregates.	
UNIT-2	(ii-a)
(ii-a)	Has the objective of giving exposure about money
Money market and Capital market-	and capital markets, organization&functions
constituents (lenders and borrowers)	(ii-b)
instruments, structure and Functioning	Aims at introducing students about dynamics of
(ii-b)	money and capital markets in India, and functions
Nature& role of money& capital markets	of SEBI
in India; SEBI-Management, functions,	
power, guidelines.	
UNIT-3	
(iii-a)	iii-a
Commercial banks –functions; credit	aims at developing understanding in students' mind
creation; Assets and liabilities of Banks;	about commercial banks and their functions,
Methods of notes issue in India; problem	methods of note issue, and problem of NPAs
of non- performing assets	iii-b
(iii-b)	

Reserve bank of India-functions; credit control instruments	has the objective of functions of RBI, and its monetary policy
UNIT-4	
(iv-a)	iv-a
Recent Monetary Policy; Need of Reform in Banking and Financial System (iv-b)	has the objective of describing and explaining the basics of latest monetary policy, and need of banking reforms
The Narasimham Committee Report: Report of Committee to Review the Financial System 1991, Narsimham Committee Report on Banking Sector Reforms 1998.	iv-b Aims at explaining the relevance and rationale of recommendations of various committees relating to banking reforms

Overview of Outcomes

GE COURSE- Money, Banking&Finance-1

After the successful completion of the course, the students will be able to Course Objective #

Ecx.103.1 Have knowledge about the money & money supply determinants

Ecx.103.2 Have understanding of money and capital markets, their Functions, and regulatory body of capital market

Ecx.103.3 Have knowledge about commercial banks, RBI, and problem of NPAs Ecx103.4 Have understanding about basic elements of latest monetary Policy and banking reforms.

GE-COURSE- Money, Banking&Finance-1

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx.103.1	3	3	1	2	1	2	1	3	2	2	1
Ecx103.2	3	3	2	2	1	1	2	3	2	2	1
Ecx103.3	3	3	1	3	2	1	1	3	2	2	1
Ecx103.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	1

- A.D. Bain (1992) Economics of the Financial System
- Committee Report II) Summary in RBI Bulletin, July, 1998.
- DM Mithani:Money, Banking and Public Finance
- Goodhart, C.A.E (1978), Money. Information and Uncertainty, The Macmillan Press Ltd., London.
- Johnson, H.G (1972), Further Essays in Monetary Economics, George Allen and Unwin,

- London.
- Johnson, H.G and Nobay A.R. (1974), Issues in Monetary Economics, Oxford University Press, Delhi.
- Khan, MY: Indian Financial System; Tata-McGrawhill
- Krishna, K.L (1999), Econometric Applications in India, Oxford University Press, New Delhi
- Laidler, D.E.W. (1977), Demand for Money: Theory and Evidence, Dum-Don Valley, New York.
- Narendra Jadhav (1993), Monetary Economics for India, Macmillan India Ltd., Madras.
- Pierce, David G and Shaw, David M (1974), Monetary Economics: Theories, Evidence and Policy, Butterworths, London.
- R.B.I Report of the Working Group : Money Supply Analytics and Methodology of Compilation, 1998.
- R.B.I. Report of the Committee on Banking Sector Reforms (Narasimham
- Roy Bailey (2005) The Economics of Financial Markets
- Suraj.B.Gupta: Monetary Economics Institutions, Theory & Policy; S Chand publications
- Suraj.B.Gupta:Monetary Planning for India
- Venugopal Reddy, Y (2000), Monetary and Financial Sector Reforms in India, UBS Publishers' Distributors Ltd., Chennai.
- Wrightsman, Dwayne (1971), An Introduction to Monetary Theory and Policy, The Free Press, New York. Gibson, Williamson E and Kaufman, George G (1971), Monetary Economics: Readings on Current Issues, TATA McGraw-Hill Publishing Company Ltd., New Delhi.
- Y.V. Reddy (2000), Monetary and Financial Sector Reforms in India UBSPD, New Delhi.

Master of Science Economics(Honors)5-year integrated Semester-II Micro Economics-II CC3-IN-ECX-201

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
 (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the

four units (24 marks each)

Learning objectives
i-a) has the objective of introducing students with
laborate view of factor pricing in classical and modern
pproach
i-b) aims at making the students acquainted with
etermination of Rent, wage, interest and profit.
ii-a) aims at giving the pupils knowledge about behavior
f Imperfectly competitive firm under oligopoly non-
ollusion
ii-b) has the objective of giving knowledge about
behavior of imperfectly competitive firm under Oligopoly ollusion
ondston
ii-a
ims at developing understanding about modern theory of
actor pricing in perfect and imperfect competition.
ii-b
This has the objective of introducing students about price
scillations.
v-a
has the objective of explaining General equilibrium, and
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General Equilibrium Theory: The	its condtions to the students
Walrasian System, Existence,	
Uniqueness and Stability of an	iv-b
equilibrium, Graphical analysis of	aims at introducing the basics of welfare economics.
general equilibrium theory	
(iv-b)	
Pareto Improvement & Optimality	
Criterion (Efficiency of household,	
producer and product mix).	

Overview of Outcomes

CORE COURSE- MicroEconomics-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx201.1 Have insight about factor pricing under classical and modern approach

Ecx201.2 Have further understanding of imperfect markets in terms of Duopoly and Oligopoly.

Ecx201.3 Have knowledge about nature of factor pricing under perfect and imperfect markets

Ecx201.4 Have understanding about General equilibrium and elementary welfare economics.

CORE-COURSE- Micro Economics-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx201.1	3	3	1	2	1	2	1	3	2	2	1
Ecx201.2	3	3	2	2	1	1	2	3	1	2	1
Ecx201.3	3	3	1	2	2	1	2	3	2	2	1
Ecx201.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2	1.5	1.25	1.75	3	1.75	2	1

- Archibald, G.C: (ed) (1971): Theory of the Firm, Penguin, Harmondsworth.
- Bain, J: (1958): Barriers to New Competition, Harvard University Press, Harvard.
- Baumol, W.J: (1982): Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
- Dacosta, G.C: (1980): Production, Prices and Distribution, Tata Mc Graw Hill, New Delhi.
- Henderson, J.M. and Quandt (1980): Micro Economic Theory: A Mathematical Approach, Mc Graw Hill, New Delhi.
- Koutsoyiannis, A: (1979): Modern Microeconomics (2nd ed), Macmillan Press, London.
- Sen, A: (1999): Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
- Stigler, G: (1996): Theory of Price, (4th ed), Prentice Hall of India, New Delhi. Varian, H: (2000): Microeconomic Analysis, W.W. Norton, New York.
- Stonier, A.W and Hague (1972): A Text Book of Economic Theory, ELBS, London. Ahuja, H.L. (2006): Advanced Economic Theory, Sultan Chand and Co., New Delhi.

Master of Science Economics(Honors)5-year integrated Semester-II Macro Economics-II CC4-:IN-ECX-202

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
 (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the

four units (24 marks each)

Content	Learning objectives				
UNIT-I	i-a				
(i-a)	Objective is to introduce the students about				
Aggregate demand, aggregate supply and the price level: the aggregate demand curve; short and long run aggregate curves; Derivation of Aggregate Demand Curve, Shift in Aggregate Demand Curve and	Aggregate demand, nature, derivation, shifts in Aggregate demand, and its relationship with price level, as well as with income generation				
Multiplier Effect (i-b)	i-b is meant to give a b road view to students about Aggregate supply, nature, derivation, and interaction				
Aggregate Supply: Short Run and Long Run Aggregate supply curve, Derivation of Aggregate Supply Curve, Shift in Aggregate Supply Curve. AD-AS Model: Friedman's Natural Rate Hypothesis	with Aggregate demand, and natural rate hypothesis				
UNIT-2	ii-a				
(ii-a)	Objective is to acquaint the students with value of				
Fluctuations in Value of money: Inflation- Concept, types-Demand pull, and Cost- push, Measurement of Inflation(price-index)	money, its fluctuations, Inflation-typology, measurement and causes ii-b				
(ii-b) Philips Curve, Policy-measures; Deflation-nature, causes, and policy-measures UNIT-3	Students are expected to get exposure about Phillips curve, and inquiry into the causes &measures of deflation				

(iii-a)

Rate of Interest: Classical, Keynesian and IS-LM Analysis. IS – LM Model:

commodity market equilibrium and the IS curve, money market equilibrium and the LM curve

(iii-b)

macroeconomic equilibrium and the adjustment process: Monetary& Fiscal Policy co-ordination

UNIT-4

(iv-a)

Trade Cycles-nature, characteristics

(iv-b)

Theories of trade cycles-Hicks, Samuelson and Kaldor; Policy-measures.

iii-a

Objective is to make students' exposure to the theories of interest rate in classical, Keynesian viewpoint; later development as IS-LM model, its working.

iii-b

The students are expected to learn about adjustment process under IS-LM framework, and monetary-fiscal policy co-ordination

iv-a

Aims at introducing the students about trade cycles, phases, characteristics

iv-b

\has the objective of giving exposure to students about explanation of trade cycles in terms of approaches by Hicks, Samuelson, Kaldor, as well as remedial measures

Overview of Outcomes

CORE COURSE- MacroEconomics-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx202.1 Have insight about Aggregate demand and Aggregate Supplyand its role in macroeconomic equilibrium and income generation

Ecx202.2 Have further understanding of value of money, inflation and Inflation and employment relationship.

Ecx202.3 Have knowledge about nature of interest rate, IS-LM framework and monetary-fiscal policy interaction

Ecx202.4 Have understanding about trade cycles, and theories /models

CORE-COURSE- MACROECONOMICS-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx202.1	3	3	1	2	1	2	1	3	1	2	1
Ecx202.2	3	3	2	2	1	1	2	3	2	2	1
Ecx202.3	3	3	1	2	2	1	2	3	1	2	1
Ecx202.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2	1.5	1.25	1.75	3	1.5	2	1

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Master of Science Economics(Honors)5-year integrated Semester-II Money, Banking &Finance-II GE2-IN-ECX-203

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing the students about DEMAND
Demand for Money- Classical: Quantity Theory	FOR MONEY:approach of classicals, neoclassical
Approach, Fisher's Equation; Neoclassical:	and Keynes'
Cambridge Quantity Theory; Keynesian Liquidity	
Preference Approach: Transaction, Precaution,	(i-b)
Speculative Demand for Money, Liquidity Trap	aims at making the students acquainted with
(i-b)	monetarist approach to the demand for
Monetarists' approach: Friedman's Modern	money;Interest rate and portfolio
Quantity Theory of Money; Determinants of	
demand for money: Income, Wealth and Interest	
Rate, Shoe-Leather Approach.	
UNIT-2	(ii-a)
(ii-a)	
Money and Capital markets-Call Money	Has the objective of giving exposure about money
Operations: Inter-Bank Call Money Market; Bill	market instruments& operations
market operations: Treasury Bill, Commercial	(1)
Bill;	(ii-b)
(ii-b)	Aims at introducing students shout sonits!
Stock markets:	Aims at introducing students about capital market
Mechanism, Instruments and Operations; National	instruments and operations, and working of NSE&BSE
Stock Exchange; Bombay Stock Exchange.	NSECOSE
UNIT-3	iii-a
(iii-a)	
Exchange Rates: meaning, types: Fixed and	aims at developing understanding in students' mind about EXCHANGE RATES, and exchange rate
	about EACHAINGE KATES, and exchange rate

Flexible Exchange Rate, Policy of Managed Flexibility: Adjustable Peg System, Crawling peg system, Policy of Managed Floating: Clean & Dirty Floating, European Snake (iii-b)

Multiple Exchange Rates; Speculation, Hedging, Swapping and arbitrage operations in foreign currency.

UNIT-4

(iv-a)

Development Banking: Role, Nature and Functions, Non-Banking Financial intermediaries, Merchant Banking, Investment Banking

(iv-b)

Refinancing institutions; Financing of foreign trade-modes and instruments; Export-Import Bank(EXIM): Role and Functions.

adjustments in historical perspective by leading nations of Europe and US iii-b

has the objective of giving understanding about multiple exchange rates and various operations in foreign exchange market

iv-a

has the objective of describing and explaining the basics of development banks , merchant banks and NBFIs

iv-b

Aims at explaining the relevance and rationale of refinancing institutions, and export-import procedures and EXIM bank functions

OVERVIEW OF OUTCOMES

GE COURSE- Money, Banking&Finance-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx.203.1 Have knowledge about the demand for money and Classical, neoclassical and Modern approach to it

Ecx.203.2 Have understanding of money and capital market instruments, mechanism of stock markets and leading stock exchanges

Ecx.203.3 Have knowledge about exchange rate mechanism, adjustments ,And foreign exchange market operations

Ecx203.4 Have understanding about development banking, refinancing and EXIM bank operations for trade financing..

GE-COURSE- Money, Banking&Finance-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx.203.1	3	3	1	2	1	2	1	3	2	2	1
Ecx203.2	3	3	2	2	1	1	2	3	2	2	1
Ecx203.3	3	3	1	3	2	1	1	3	2	2	1
Ecx203.4	3	3	2	2	2	1	2	3	2	2	1
Average	3	3	1.5	2.25	1.5	1.25	1.5	3	2	2	1

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Master of Science Economics(Honors)5-year integrated Semester-III Mathematics for Economists-I CC5-IN-ECX-301

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

four units (24 marks each)	
Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing the students about fundamentals of Set
Concepts of set, elementary set operations,	theory and applications
laws of set operations, Number of	(i-b)
elements in a set, applications of sets	aims at making the students understand the concept of
(i-b)	functions, limit and continuity.
Functions, limits & continuity: Types of	
functions, Factors, Substitution and	
rationalization Methods, continuity and	
discontinuity of functions;	
UNIT-2	(ii-a)
(ii-a)	
Matrices-types, addition, multiplication of	Has the objective of giving exposure about Matrices, and
Matrices, Inverse of matrix, Cramer's rule	operations on matrices
and matrix inverse method,	
	(ii-b)
(ii-b)	
Applications of matrices in economics,	Aims at introducing students about applications of matrices,
Input-output analysis; more on matrices	and higher operations on them.
(vectors, quadratic forms, Eigen roots and	
Eigen vectors)	
UNIT-3	iii-a
(iii-a)	
Differentiation, simple derivatives, higher	aims at developing understanding in students' mind about
order derivatives of one variable, their	derivatives, partial and total, and their economic applications
economic applications. Partial total	
derivatives, double order partial	

derivative, economic applications;

(iii-b)

Maxima & minima of functions: necessary and sufficient conditions for functions, economic application of unconstrained & constrained maxima & Minima.

UNIT-4

(iv-a)

Linear Programming: Graphical and Simplex method, Dual Problem in linear programming

(iv-b)

, Game Theory: odd moments method, principle of dominance & simplex method, Prisoner's dilemma in game theory, concept of Nash Equilibrium.

iii-b

has the objective of detailing about maxima and minima of functions, and applications of constrained and unconstrained maxima and minima.

iv-a

has the objective of describing and explaining the basics of Linear programming problems and solution

iv-b

Aims at explaining the applications of game theory and Nash equilibrium...

OVERVIEW OF OUTCOMES

CORE COURSE- Mathematics for Economists-I

After the successful completion of the course, the students will be able to Course Objective #

Ecx.301.1 Have knowledge about the basics of set theory, economic applications

Ecx.301.2 Have understanding of matrix algebra and economic applications of matrices

Ecx.301.3 Have knowledge about derivatives and differentiation, maxima and minima of a function.

Ecx301.4 Have understanding about basic elements of linear programming and game theory.

CORE-COURSE- Mathematics for Economists-I

CO#	PO	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
	1										
Ecx301.1	3	3	1	2	1	2	1	3	2	2	1
Ecx301.2	3	3	2	2	1	1	1	3	2	2	1
Ecx301.3	3	3	1	3	2	1	2	3	2	2	1
Ecx301.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.25	3	2	2	1

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Master of Science Economics(Honors)5-year integrated Semester-III Environmental Economics-1 CC6- IN-ECX-302

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

four units (24 marks each)	
Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing the students about environment
Environment and Economy: Nature and	economics, and linkage between environment and
scope of environmental economics;	economy
Linkage	(i-b)
between environment and economy	aims at making the students acquainted with linkage of environment with population, and
(i-b)	sustainable development
Population-environment linkage;	sustamable development
Sustainable Development.	
UNIT-2	(ii-a)
(ii-a)	Has the objective of giving exposure about market
Market failure: Incomplete markets;	failures, and nature of externalities.
Externalities (ii-b)	(ii-b)
Environment as public good – Non-	Has the objective of acquainting pupils about
exclusion, Non-rivalry; Non-convexities; Asymmetric information.	environment as public good;qualifying features and
Asymmetric information.	asymmetric information
UNIT-3	
(iii-a)	iii-a
Environment and Development: Natural	aims at developing understanding in students' mind about Role of environment in natural resource
resources; Human capital vs. Physical	development and capital and rational use.
capital: Their use & effect on Environment	iii-b
(iii-b)	
	has the objective of making the understanding of
Role of Environment Education in	role of environment education, Green GDP

controlling pollution; Environmental Educational in India. Green GDP;	
Environmental Kuznets Curve;	
UNIT-4	iv-a has the objective of describing and explaining the basics of Environment laws in India, Pollution
(iv-a)Environmental legislation: Pollution-causes, control and abatement	control
(iv-b)Environment protection mechanism	iv-bAims at explaining the relevance and rationale
in India; Environmental institutions and	of environment protection, and role of institutions.
grass root movements.	

OVERVIEW OF OUTCOMES

CORE COURSE- Environment Economics-1

After the successful completion of the course, the students will be able to Course Objective #

Ecx.302.1 Have knowledge about constituents of environment, its Linkage with economy and population

Ecx.302.2 Have understanding of market failure, and role of externalities

Ecx.302.3 Have knowledge about relationship of environment with Natural resources, and role of environment education

Ecx302.4 Have understanding about basic elements of environment laws, and measures to protect the environment.

CORE-COURSE- Environment Economics-1

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx.302.1	3	3	1	2	1	2	1	3	2	2	1
Ecx302.2	3	3	2	2	1	3	1	3	2	2	1
Ecx302.3.3	3	3	1	3	2	3	1	3	2	2	1
Ecx302.4	3	3	1	2	2	3	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	2.75	1	3	2	2	1

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Master of Science Economics(Honors)5-year integrated Semester-III Statistics for Economics-1 CC7- IN-ECX-303

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
 (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the

four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at making basic understanding the
Measures of Central Tendency: Arithmetic	computation of first order measures, their
Mean, Weighted Arithmetic Mean,	intererlationship
Median, Mode, Geometric Mean and	
Harmonic Mean	(i-b)
(i-b)	
Partition values-Quartiles, Deciles,	Has the objective of introducing about the partition
Percentiles Standard Deviation and	values and measures of dispersion.
Lorenz Curve	
UNIT-2	(ii-a)
(ii-a)	Aims at developing students' minds about the
Skewness: Types, measures of skewness,	concept of skewness and moments
Pearson's, Bowley's, Kelly's Method,	
Moments, moments about mean and zero	(ii-b)
	Aims at making understanding of kurtosis, and the
(ii-b)	measure based on moments
Measures of Kurtosis: Beta and Gamma	
Coefficients based on Moments	
UNIT-3	iii-a
(iii-a)	aims at developing understanding in students' mind
Correlation: Definition, types, degrees	about correlation, its properties and measurement
and methods-scatter diagram, Karl	
Pearson's Coefficient of Correlation,	iii-b
Variance-Covariance Method, Rank	
Correlation, Concurrent Deviation	has the objective of acquainting students with basic
Method, Coefficient of Determination,	elements of regression, and standard error of
	estimate.

Probable Error

(iii-b) Linear Regression Analysismeaning, types, regression lines, regression co-efficient and regression equations and least square method

UNIT-4

(iv-a)Index Numbers: meaning, types, uses and limitations of index numbers, Problems in construction of index numbers, methods of construction of index numbers, Tests of adequacy of index numbers; Some specific problems: chainbase & fixed-base index, base shifting, splicing, deflating of index numbers, Consumer Price index.

Time-Series: (iv-b) & meaning components of time-series, model of analysis of time series, methods of measuring trend, and its components; seasonal variations: simple average method, moving average method, ratio to moving average, ratio to trend method and link relative method

iv-a

aims ate developing understanding about Index numbers, tests and operations on index number series

iv-b

Goal is to make students familiar with Time series analysis, measurement of trend and seasonal variations by various methods

OVERVIEW OF OUTCOMES

CORE COURSE- Statistics for Economics-1

After the successful completion of the course, the students will be able to Course Objective #

Ecx.303.1 Have knowledge about the measures of central tendency and partition values

Ecx.303.2 Have understanding about the skewness and kurtosis

Ecx.303.3 Have knowledge about correlation and regression. Forecasting method based on least squares

Ecx303.4 Have understanding about basic elements of Index numbers and time series, trend measurement

CORE-COURSE- Statistics for Economics-1

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx.303.1	3	3	1	2	1	2	1	3	2	2	1
Ecx303.2	3	3	2	2	1	1	1	3	2	2	2
Ecx303.3	3	3	1	3	2	1	1	3	2	2	2

Ecx303.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1	3	2	2	1.5

- Cocharm, W. G., Sampling Techniques, John Willey, New York.
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Master of Science Economics(Honors)5-year integrated Semester-III Indian Economy-I GE3-IN-ECX-304

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives				
UNIT-I	(i-a)				
(i-a) Nature and Characteristics of Indian	Aims at introducing the students about nature of				
Economy: India as Underdeveloped and	Indian economy, and underdevelopment in				
Developed economy. Colonialism and	historical perspective				
Underdevelopment of the Indian Economy:	(i-b)				
	Aims at introducing the students about impact of				
(i-b) British Rule and the Exploitation of	exploitation of Indian economy during British				
India, The British Rule and India's	rule				
Underdevelopment, State Policies and					
Economic Underdevelopment.					
UNIT-2	(ii-a) Has the objective of giving exposure about				
(ii-a) Economic Planning: Rationale,	planning and strategy of plans				
Features and Objectives, Strategy of					
Economic Planning	(ii-b) Has the objective of acquainting pupils				
(ii-b)	about latest status of planning process in India,				
Current plan scenario: Objectives and	and current long term plan				
Targets of perspective plan; NITI Aayog.					
UNIT-3	iii-a				
	aims at developing understanding in students'				
(iii-a)Problems in Indian Economy: Nature	mind about nature of problem of unemployment				
of Employment and Unemployment in	in India				
India, Concepts, Types, Trends and	1111 L				
Structure of Unemployment, Causes of	iii-b				
Unemployment	has the chicative of making the understanding of				
(iii-b) Poverty: Concepts of Poverty Line,	has the objective of making the understanding of				
Incident of Poverty in India, Causes and	nature, causes of poverty, and and measures to do				

Measures; Social Exclusion in India.	away with social exclusion.
UNIT-4	iv-a
	has the objective of describing and explaining the
(iv-a)Demographic features of Indian	basics of demography of India, trends.
Economy	iv-b
	Aims at explaining the nature of rural-urban
(iv-b) Problems of Rural-Urban Migration,	migration in India, and population planning
causes and Remedies, Urbanization,	measures
Recent Population Policy.	

OVERVIEW OF OUTCOMES GE COURSE- Indian Economy-1

After the successful completion of the course, the students will be able to

Course Objective #

Ecx.304.1 Have knowledge about the distinguishing features of Indian economy, and historical impact of British rule

Ecx.304.2 Have understanding about the concept of planning and latest facts about planning system and plans

Ecx.304.3 Have knowledge about causes of unemployment and poverty in India, and strategy. Ecx304.4 Have understanding about basics of demography of India, urbanization, population policy

GE – Indian Economy-1

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CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx304.1	3	3	1	2	1	2	1	3	2	2	1
Ecx304.2	3	3	2	2	1	1	1	3	2	2	1
Ecx304.3	3	3	1	3	2	1	1	3	2	2	1
Ecx304.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1	3	2	2	1

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- Reserve Bank of India, Report on Currency and Finance, (Annual).
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Master of Science Economics(Honors)5-year integrated Semester-IV Mathematics for Economists-II CC8-IN-ECX-401

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing the students about fundamentals of
Analytical geometry- Equation of straight	straight line equation and its parameters
line Slope: Positive & Negative slope,	
Zero slope, Undefined Slope	(i-b)
(i-b)	
The point slope formula; circle, conic	aims at making the students understand the point slope
sections, parabola, rectangular hyperbola;	formula, and derivation in case of circle, conic sections, and
Applications in economics	applications in economics
UNIT-2	(ii-a)
(ii-a)	Has the objective of giving exposure about Integration, and
Integration-rules of integration, by parts,	methods
and by substitution, by partial fractions	
	(ii-b)
(ii-b)	Aims at introducing students about integration of logarithmic
Integration of logarithmic & exponential	and exponential functions;definite integral; economic
functions, evaluation of areas, Definite	applications
Integral, Economic applications.	
UNIT-3	iii-a
(iii-a)	aims at developing understanding in students' mind about
Differential equations-solution;	differential equations, solution, and its economic applications
homogeneous& non-homogeneous	iii-b
differential equations, Exact differential	has the objective of detailing about difference equations,
equation, Economic applications	solution and their economic applications
(iii-b)	
Difference equations-Solution, general&	

particular; Homogeneous & General l	inear
difference equations with constant co-	
efficient, economic applications.	
UNIT-4	iv-a
(iv-a)Linear and quadratic equation a	nd its has the objective of describing and explaining the basics of
economic applications, Rate of g	rowth Linear and quadratic equations, and their applications
(Compound Annual Growth Rate) a	nd its
measurement	iv-b
	Aims at explaining the applications of linear and quadratic
(iv-b)Present value (Or capital value	e) and equations in present value of assets and fixed regular
its application; Annuities: types, an	mount inflows

OVERVIEW OF OUTCOMES

and Present value

CORE COURSE- Mathematics for Economists-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx.401.1 Have knowledge about the basics of analytical geometry, economic applications

Ecx.401.2 Have understanding of differential and difference equations, Economic applications

Ecx.401.3 Have knowledge about integration, methods and economic applications

Ecx401.4 Have understanding about basic elements of linear and quadratic equations and applications in economics.

CORE-COURSE- MATHEMATICS FOR ECONOMISTS-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx401.1	3	3	1	2	1	2	1	3	2	2	1
Ecx401.2	3	3	2	2	1	1	1	3	3	2	1
Ecx401.3	3	3	1	3	2	1	1	3	3	2	1
Ecx401.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1	3	2.5	2	1

- AC Chaing, K Wainwright: Fundamental Methods of mathematical economics, McGraw-Hill Publishing co.
- Aggarwal, H.S.: Modren Micro-Economics, Konark, New Delhi, 1998.
- Allen R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press, London.
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- Black, J. and J.F. Bradley (1973), Essential Mathematics for Economists, John Wiley and Sons.
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- Henderson J. and Quandt R.E(1980): Micro-economic Theory: A Mathematical Approach;

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- Quantitative Methods by D.R. Aggarwal ,Basic Mathematics for Economists by R.C. Joshi, New Academic Publishing.
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- Quantitative Techniques in Management by N.D. Vohra, TMH.
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Master of Science Economics(Honors)5-year integrated Semester-IV Environmental Economics-II CC9-IN-ECX-402

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

four units (24 marks each)	
Content	Learning objectives
UNIT-I	(i-a)
	Aims at introducing the students about
(i-a) Concept and indicators of sustainable	SUSTAINABLE development, and criteria of
development - sustainability rules,	sustainability
	(i-b)
(i-b)	aims at making the students understand the
Common-Perrings model; The	approaches to sustainable development by leading
Solow/Hartwick approach to sustainability.	environment economists.
UNIT-2	(ii-a)
	Has the objective of giving exposure about the
(ii-a)Management of common property	management of common property resources
resources; CPRs, LDCs and sustainable	
development	(ii-b)
	Aims at introducing students about rational approach
(ii-b)Subsidies, Controls and use of	to subsidies and utilization of natural resources
natural capital in India.	
UNIT-3	iii-a
(iii-a)	aims at developing understanding in students' mind
Environment and energy; Water resource	about relationship of energy-use, water-use and
planning; Water and air pollution - existing	pollution ;control measures
pollution control mechanisms	iii-b
	has the objective of detailing about impact of land and
(iii-b)	forest degradation; regeneration strategies
Land and forest degradation and the	Torest degradation, regeneration strategies
strategy for regeneration.	
UNIT-4	iv-a
	1, 4

(iv-a)	
Global environmental issues; Problems in	has the objective of describing and explaining the
managing climate change; I	basics of climate change among Global environmental
(iv-b) International trade and environment;	issues
Trade and environment in WTO regime.	
	iv-bAims at explaining the relationship of trade and
	environment, and WTO's measures for environment
	protection.

OVERVIEW OF OUTCOMES

CORE COURSE- Environmental Economics-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx.402.1 Have knowledge about the basics of sustainable development, and approaches to sustainable development

Ecx.402.2 Have understanding of common property resource management, and natural capital Ecx.402.3 Have knowledge about impact of energy use and water use on quality of environment, pollution control strategy

Ecx402.4 Have understanding about basic elements of climate change and WTO measures for protection of environment.

CORE-COURSE- ENVIRONMENTAL ECONOMICS-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx402.1	3	3	1	2	1	2	2	3	2	2	1
Ecx402.2	3	3	2	2	1	2	2	3	2	2	2
Ecx402.3	3	3	1	3	2	2	2	3	2	2	1
Ecx402.4	3	3	1	2	2	2	2	3	2	2	2
Average	3	3	1.25	2.25	1.5	2	2	3	2	2	1.5

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- Brian G. Dahlin, The Impact of Education on Economic Growth -Theory, Findings, and Policy Implications, Duke University, pdf from internet.
- Chary, S.N. and Vyasulu, Vinod (2000), Environmental Management an Indian Perspective, Macmillan, New Delhi.
- Education and economic growth, Jonathan Temple*, Department of Economics, University of Bristol, 8 Woodland Road, Bristol BS8 1TN, pdf from internet.
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- Hanley, N., J.F. Shogern and B. White (1997), Environmental Economics in Theory and Practice, Macmillan.
- Hussen, A.M. (1999), Principles of Environmental Economics, Routledge, London.
- Jeroen. C.J.M. van den Berg (1999), Handbook of Environment and Resource Economics, Edward Elgar Publishing Ltd., U.K.
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- World Bank (1993), The World Development Report, 1993: Investing in Health, Oxford University Press, New York.

Master of Science Economics(Honors)5-year integrated Semester-IV Statistics For Economics-II CC10-IN-ECX-403

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a) Probability-Basic Concepts,	Aims at introducing the students about
Definitions-Classical and Statistical	probability, addition, multiplication theorems
Definition, Theorems of Probability:	
Addition Theorem, Multiplication	
Theorem and Bay's Theorem	
	(i-b)
(i-b) Probability Distribution: Binomial,	aims at making the students acquainted with
Poisson and Normal Probability	nature of discrete and continuous probability
Distribution and their Properties	distributions
UNIT-2	(ii-a)
(ii-a) Sampling and Sampling Distribution:	
Some Basic Concepts, Method of	Has the objective of giving exposure about
Sampling- Census and Sample Method,	sampling and methods and concept of sampling
Sampling and Non Sampling Errors,	distribution
Sampling Distribution	
	(ii-b)
(ii-b)Tests of Hypothesis: Large-Sample	
Tests- Basic Concepts of Hypothesis	Has the objective of acquainting pupils about
Testing and Small Sample Tests-t-test,	statistical inference and testing of hypotheses,
Fisher's Z-test and F-test.	large sample and small sample tests.
UNIT-3	iii-a
(iii-a) Chi-Square Test	aims at developing understanding in students'
(W.1) 0.1 N. D T	mind about Chi square tests, its applications.
(iii-b) Other Non-Parametric Tests-Sign	iii-b
Test, Wilcoxon Signed Rank Tests, Mann-	has the objective of making the understanding of
Whitney U-test, Kruskal-Willis Test.	various non-parametric tests

UNIT-4	iv-a
(iv-a)Statistical Estimation Theory:	has the objective of describing and explaining the
Properties of Good Estimator,	basics of point and interval estimation, and
Applications of Point Estimation, Interval	criteria of good estimators
Estimation for Small Samples	
(iv-b) Statistical Decision theory: Elements	iv-b
of Decision Problem, Decision Criteria,	Aims at explaining the relevance and rationale of
Applications of Decision Making Under	decision; under risk and uncertainty, and quality
Risk and Decision Tree; Statistical Quality	control
Control (S.Q.C.): meaning, Definition,	
advantages and Methods of S.Q.C.,	

OVERVIEW OF OUTCOMES CORE COURSE- STATISTICS FOR ECONOMICS-II

Control Chart, Types of Control Charts.

After the successful completion of the course, the students will be able to Course Objective #

Ecx.403.1 Have knowledge about the concept of probability and Probability distributions

Ecx.403.2 Have understandingabout sampling theory, and testing of Hypotheses.

Ecx.403.3 Have knowledge about non-parametric tests of significance

Ecx403.4 Have understanding about basic elements of decision theory and statistical quality control

CORE-COURSE- Statistics for Economics-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx.403.1	3	3	1	2	1	2	1	3	2	2	1
Ecx403.2	3	3	2	2	1	1	2	3	2	2	1
Ecx403.3	3	3	1	3	2	1	1	3	2	2	2
Ecx403.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	.25

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Master of Science Economics(Honors)5-year integrated Semester-IV Indian Economy-II GE4-IN-ECX-404

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

four units (24 marks each)	
Content	Learning objectives
UNIT-I	(i-a)
(i-a) National Income of India: Trends,	Aims at introducing the students about National
Estimation and Distribution	Income of India, trends and composition
(i-b) Structural changes	(i-b)
in Indian Economy-Changes in	Aims at introducing the students about structural
Occupational pattern and Sectoral	changes in Indian economy w.r.t National income
distribution of Income	of India
UNIT-2	(ii-a) Has the objective of giving exposure about
(ii-a) Agriculture & Industry in India:	Agriculture, trends in productivity
Nature& Importance; Trends in	
AgriculturalProduction & productivity	(ii-b) Has the objective of acquainting pupils
(ii-b) Green Revolution, Latest	about latest agricultural policy and Industrial
Agricultural Policy in India;	policy measures.
Industrialization in India; Latest Industrial	
Policy.	
UNIT-3	iii-a) aims at developing understanding in
	students' mind about nature of foreign trade
(iii-a)External sector: Balance of Payment	:direction and composition
since 1991; Composition & Direction of	
India's foreign Trade	iii-b) has the objective of making the
	understanding of inward oriented trade policy,
(iii-b) Export promotion & Import	and SEZs as export promotion
Substitution; Special Economic Zones	
(SEZ).	
UNIT-4	iv a) has the chicative of describing and
(iv-a)	iv-a) has the objective of describing and
Economic Reforms and Liberalization: The	explaining the background of economic reforms

Origin of Economic Crisis in the Early	and policy initiatives
1990s, Economic Reforms in India	
(iv-b) Macroeconomic Stabilisation,	iv-b
Structural Reforms in India.	Aims at explaining the nature of macroeconomic
	stabilization, and latest structural reforms in india

OVERVIEW OF OUTCOMES

GE COURSE- Indian Economy-II

After the successful completion of the course, the students will be able to

Course Objective #

Ecx.404.1Have knowledge about the distinguishing features of National Income of India , its trends

Ecx.404.2 Have understanding about the significance of Agriculture and industry; latest and agri policy initiatives.

Ecx.404.3 Have knowledge about Foreign trade, its trends and trade policy measures.

Ecx404.4 Have understanding abouteconomic and structural reforms in India, and the present position

GE-COURSE- INDIAN ECONOMY-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx404.1	3	3	1	2	1	2	1	3	2	2	1
Ecx404.2	3	3	2	2	1	1	1	3	2	2	2
Ecx404.3	3	3	1	3	2	1	2	3	2	2	2
Ecx404.4	3	3	1	2	2	2	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.5	1.5	3	2	2	1.5

- Kapila Uma Indian Economy Academic Foundation New Delhi Latest Edition.
- Ahluwalia, I.J. and I.M.D. Little (Eds.) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
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- Monga G.S.and Goel M.M. (2001) Wage Goods Approach and Development Deep and Deep New Delhi.
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Master of Science Economics(Honors)5-year integrated Semester-V Basic Econometrics CC11:IN-ECX-501

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
	Aims at introducing the students to econometrics,
(i-a) Nature and scope of econometrics;	and econometric models and methodology
Methodology of econometric research;	
Desirable properties of an econometric	(i-b)
model	aims at making the students understand the
(i-b) Random variables and sampling	random variables in sampling theory, and
theory (only review); Covariance,	implications of covariance of variables
variance, and correlation.	
UNIT-2	(ii-a)
(ii-a)Nature of the regression analysis;	Has the objective of giving exposure about
Two variable regression analysis: Some	regression analysis, and indepth meaning of
basic ideas; Assumptions of the linear	assumptions of linear regression model
stochastic regression model;	
	(ii-b)
(ii-b)Distribution of the dependent variable	Aims at introducing students about regression by
Y; Problem of estimation: The least square	least square approach, and distribution of the
criterion and normal equations.	explained variable
UNIT-3	iii-a
	aims at developing understanding in students'
(iii-a)Test of the goodness of fit with R ² ;	mind about relationship of goodness of fit with R
Tests of the significance of parameter	squared, ;tests, mean and variance of OLS
estimates: Mean and variance of the OLS	estimates, and behavior of error term
estimates; Variance of the random variable	,
(iii-b) Sampling distribution of the OLS	iii-b
estimates (standard error test, Z test and	has the objective of detailing about sampling

student's t test); Confidence intervals for OLS estimates; Test of significance for sample correlation coefficient.

UNIT-4

(iv-a)Desirable properties of estimators; Properties of OLS estimators; Second order tests of the assumptions of linear regression model: The assumption of the randomness of u, The assumption of zero mean of u, The assumption of normality of u

(iv-b)

The problem of Heteroscedasticity, Autocorrelation and Multicollinearity (Nature, causes and consequences).

distribution of OLS estimates, and intervals estimates, also test for sample correlation coefficient.

iv-a

has the objective of describing and explaining the basics of desirable properties of estimators, test of OLS assumptions

iv-b

Aims at explaining the relationship of reliability of estimates in the presence of Heteroscedasticity, autocorrelation and multicollinearity, implications.

OVERVIEW OF OUTCOMES

CORE COURSE- Basic Econometrics

After the successful completion of the course, the students will be able to Course Objective #

Ecx.501.1 Have knowledge about the basics of econometrics, econometric models

Ecx.501.2 Have understanding of nature of regression analysis, with regard to its assumptions, and least square method

Ecx.501.3 Have knowledge about tests of significance of parameter Estimates, and sampling distribution of the estimates, tests

Ecx501.4 Have understanding about basic elements of Best Linear Unbiased efficient estimates, problems of autocorrelation, Multi-collinearity and heteroscedasticity

CORE-COURSE- BASIC ECONOMETRICS

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx501.1	3	3	1	2	1	2	1	3	2	2	1
Ecx5012	3	3	2	2	1	1	1	3	2	2	1
Ecx5013	3	3	1	3	2	1	2	3	2	2	2
Ecx501.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.25	3	2	2	1.25

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- Theil H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi

Master of Science Economics(Honors)5-year integrated Semester-V Development Economics-1 CC12-IN-ECX-502

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted(iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the

four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
	Aims at introducing the students about growth
(i-a) Growth and Development	and development, distinction between the two in
Meaning of Economic Growth and	nature and features.
Development, Features of Developing and	(i-b)
Developed Countries, Concepts of	aims at making the students understand the
Development,	measurement of economic development in terms
	of HDI, PQLI., and roadblocks in path of
(i-b) Measuring Economic Development:	development
Income Measure, Physical Quality of Life	
Index (PQLI) and Human Development	
Index (HDI), Determinants and Obstacles	
to Economic Development	
UNIT-2	(ii-a)
(** -)	Handle abiation of civing and account the Carith
(ii-a)	Has the objective of giving exposure about Smith
Classical Theories of Economic	and Ricardo's views on economic development
Developmen Adam Smith: Role of Capital	process, and its determinants
Accumulation, Division of Labour,	
Natural Law and Stage of Stationary State,	(ii-b)
Theory of Value; Ricardian Theory of	(11-0)
Economic Development: Dynamic system	Aims at introducing students about Schumpeter
of Ricardo, Theory of Rent and Grades of	and Marx's views on development process, and
Land	its determinants
(ii-b)	The desirements
Schumpeter: Dynamic Process,	

Technology, Entrepreneur, Bank Credit; Karl Marx: The Materialistic Interpretation of History, The Theory of Surplus Value, **Destruction of Capitalistic Process** iii-a UNIT-3 aims at developing understanding in students' mind about role of Agriculture in economic development w.r.t. India (iii-a) Sectoral Aspects of Development Role of Agriculture in Economic Development, Green Revolution, iii-b Problems of Agriculture Development; has the objective of detailing about (iii-b) Rationale and Pattern of Industrialisation and its role in economic Industrialization in Developing Countries, development w.r.t India, and terms of trade Terms of Trade between Agriculture and between the two sectors Industry UNIT-4 iv-a has the objective of describing and explaining the basics of contribution of manpower planning in (iv-a)Economic Development and Human CapitalMan Power planning: Meaning, economic development Objectives and Methodology of Man Power planning, Man Power Problems and iv-b Man Power Planning in LDCs Aims at explaining the relationship of human capital formation and sustainable development in context of Indian economy (iv-b)Human Capital Formation and Policy Issues, Sustainable Development with special reference to India

OVERVIEW OF OUTCOMES

CORE COURSE- Development Economics-1

After the successful completion of the course, the students will be able to Course Objective #

Ecx.502.1Have knowledge about the basics of Economic developmentand economic growth, measurement by revised standards

Ecx.502.2 Have understanding of nature of development process in the shape of theories of Smith, Ricardo, Schumpeter and Marx

Ecx.502.3 Have knowledge about significance of role of Agriculture and industry in economic development in general, and w.r.t India

Ecx502.4 Have understanding about basic elements of manpower Planning, and human capital formation, and role in economic Development for developing countries in general, and for India in particular

CORE-COURSE- DEVELOPMENT ECONOMICS-1

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4

Ecx502.1	3	3	1	2	1	2	1	3	2	2	1
Ecx502.2	3	3	2	2	1	1	1	3	2	2	1
Ecx502.3	3	3	1	3	2	2	2	3	2	2	2
Ecx502.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.5	1.5	3	3	2	1.25

- Chakravarti, S. (1987), Development Planning: The Indian Experience, Clarendon Press, Oxford.
- Chenery, H. and T.N. Srinivasan (Eds.) (1989), Handbook of Development
- Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- Development, (3rd Edition), W.W. Norton, New York.
- Economics, Vols. 1 & 2, Elsevier, Amsterdam.
- Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- Gillis, M., D.H. Perkins, M. Romer and D.R. Snodgrass (1992), Economics of
- Grossman, G. and E. Helpman (1991), Innovation and Growth in the Global Economy, MIT Press, Cambridge, Mass.
- Higgins, B. (1959), Economic Development, W.W. Norton, New York.
- Hirschman, A.O. (1958), The Strategy of Economic Development, Yale University Press, New York.
- Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York.
- Meier, G.M. and J.E.Rauch (2005), Leading Issues in Economic Development, (8th Edition), Oxford University Press, New Delhi.
- Nayyar, D. (Ed.) (1994), Industrial Growth and Stagnation: The Debate in India, Oxford University Press, New Delhi.
- Sen, A. (1992), Inequality Reexamined, Oxford University Press, Oxford.
- Sen, A.K.(Ed.) (1990), Growth Economics, Penguin, Harmondsworth.
- Sen, A. (1983), Poverty and Famines, Oxford University Press, Oxford.
- Thirlwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- Todaro, M.P. and S.C. Smith (2003), (8th Edition), Economic Development, Pearson Education, Delhi.

Master of Science Economics(Honors)5-year integrated Semester-V History of Economic Thought DSE1-IN-ECX-503

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted

(iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a) Aims at introducing to the students
	about economic thoughts of A Smith and D
(i-a) Classical economics- Adam Smith:	Ricardo on growth, distribution, and foreign
Growth, distribution and value; David Ricardo:	trade
Distribution theory and views on International	
trade	(i-b)
(i-b)Malthus: Theory of population; Reaction	aims at making the students understand ideas
against classicals- Karl Marx: Theory of Capital	of Malthus and Marx on growth of
Exploitation and Surplus value.	population and economic growth
UNIT-2	(ii-a)
(ii-a) Neo-classical- Marshall: Views on	
Elasticity, Consumer's and Producer's Surplus,	Has the objective of giving exposure about
Time Element in determination of Prices, Quasi	neoclassical economic though with Marshall
Rent; Keynesian Economics: Underemployment	as a great synthesizer, and Conceptual
Equilibrium, MEC, Investment Multiplier and	framework of Keynesian economics
Liquidity Preference,	
	(ii-b)
(ii-b) Development economists – Hicks:	
Consumer's surplus, Super Multiplier;	Aims at introducing to students about
Samuelson theory of trade cycle.	Development economists-Hicks and
	Samuelson
UNIT-3	iii-a
(iii-a) Cambridge School of economists,	aims at developing understanding in
Chicago school of economists	students' mind about economic ideology of
	Cambridge school and Chicago school of
(iii-b) Mathematical School of economics:	thought
Jevons, Walras and Pareto.	
	iii-b

has the objective of detailing about the ideology oriented toward mathematical approach by Jevons, Walras and Pareto

UNIT-4

(iv-a)Indian economic Thought- Kautilya: wealth, Divisions of economics, Production, Agriculture, Trade, Public Finance and Economic Functions of State; M.K.Gandhi: Economic Philosophy and ideas, Socialism, The Sarvodaya Plan

(iv-b) VKRV Rao: Economic Planning and their economic thoughts; Amartya Sen: Social Welfare and economic justice, poverty Index.

iv-a

has the objective of describing and explaining the basics of contribution of Indian thinkers viz Kautilya and Gandhi

iv-b

Aims at discussing the economic thoughts of VKRV Rao and Amartya Sen

OVERVIEW OF OUTCOMES

DS ELCETIVE- History of Economic Thought

After the successful completion of the course, the students will be able to Course Objective #

Ecx.503.1 Have knowledge about the basic ideology of Classical economists

Ecx.503.2 Have understanding of evolution of neoclassical ideology Keynesian economics and development economics of Hicks And Samuelson

Ecx.503.3 Have knowledge about evolution of economic thought by Cambridge school, Chicago school, and mathematical school

Ecx503.4 Have understanding about basic elements of Indian economicthought ranging from Kautilya, Gandhi, VKRV Rao to Sen

DS ELECTIVE- HISTORY OF ECONOMIC THOUGHT

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CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx503.1	3	3	1	2	1	2	1	3	2	2	1
Ecx503.2	3	3	2	2	1	1	1	3	2	2	1
Ecx503.3	3	3	1	3	2	1	1	3	2	2	1
Ecx503.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1	3	2	2	1

- Blackhouse, R.E:Truth and Progress in Economic knowledge.
- Blaug, M:Economic Theory in retrospect Schumpeter, J:History of economic analysis O'Brien, D.P:Classical Economists.
- Hunt EK: History of economic thought, India ed. Shilpi Publications, Delhi
- Paul, RR: History of economic thought, India, Kalyani Publishers, New Delhi.

Master of Science Economics(Honors)5-year integrated Semester-V Communication Skills for Economists DSE1-IN-ECX-504

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

10ul ullits (24 illarks each)	
Content	Learning objectives
UNIT-I	(i-a)
(i-a) Introduction-Business	Aims at introducing to the students about Business
Communication; Basic Forms of	Communication and communication process
communicating, Communication process	
	(i-b)
(i-b) Effective communication, Audience	aims at making the students understand about effective
Analysis.	communication, and Audience analysis
	(ii-a)
UNIT-2	
(ii-a)	Has the objective of giving exposure about self –
Self-development & Communication:	development and positive personality attributes
development of positive personal attitudes,	
SWOT analysis	(ii-b)
(ii-b)	
Whole communication. Body Language:	Aims at introducing to students about Holistic view of
kinesics, Proxemics, Para-language.	communication; body language and effective listening
Effective listening: Principles of effective	
listening; Factors affecting listening;	
Exercise-oral, written& video sessions.	
UNIT-3	iii-a
(iii-a)	aims at developing understanding in students' mind about
Corporate communication: formal &	corporate communication and communication barriers
informal communication network,	
Business	

miscommunication(barriers), Improving communication

(iii-b)

Practices in business communication; Group discussions; Mock Interviews; Seminars; Effective listening exercises; Individual& group presentation; Art of interviewing and Report writing

UNIT-4

(iv-a)

Modern Forms of communication: e-mail, Fax, SMS, Video- conferencing

(iv-b)

Communication for the Disabled: Introduction to Braille and American Sign Language iii-b

has the objective of detailing about the Group discussions, Mock interviews, report writing, and art of interviewing

iv-a

has the objective of describing and explaining the basics of modes of modern communication

iv-b

Aims at discussing the introductory knowledge about Braille and ASL

OVERVIEW OF OUTCOMES

DS ELECTIVE- Communication Skills for The Economists

After the successful completion of the course, the students will be able to

Course Objective #

Ecx.504.1 Have knowledge about thebasics of communication process and effective business communication

Ecx.504.2 Have understanding of positive personality traits and , holistic analysis of expressions through body language

Ecx.504.3 Have knowledge about corporate communication practices barriers, and communication practices viz discussions and interviews

Ecx504.4 Have understanding about basic modes of modern Communication and communication modes for the disabled

DS ELCETIVE- COMMUNICATION SKILLS FOR THE ECONOMISTS

CO#	РО	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
	1										
Ecx504.1	3	3	1	2	1	2	1	3	2	2	3
Ecx504.2	3	3	2	2	1	1	3	3	2	2	3
Ecx504.3	3	3	1	3	2	1	1	3	2	2	3
Ecx504.4	3	3	1	2	2	1	2	3	2	2	3
Average	3	3	1.25	2.25	1.5	1.25	1.75	3	2	2	3

- Bovee & Thill: Business communication Today, Tata- McGraw Hill, New Delhi.
- Randall E. Magors: Business Communication; Harper& Row, New York
- Ronald E. Dulek and John S Fielder: Principles of Business Communication; McMillan Publishing company, London
- Webster Guide to Effective Letter-writing, Harper& Row, New York

Master of Science Economics(Honors)5-year integrated Semester-V Economics of Health And Education DSE2-IN-ECX-505

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a) Role of Health and Education in	Aims at introducing to the students about health
Human Development: Importance in	and education as stimulants to human
poverty alleviation	development, and poverty alleviation
	(i-b)
(i-b) health and education outcomes and	aims at making the students understand about
their relationship with macroeconomic performance	health and education outcomes and economic development
	(ii-a)
UNIT-2	Has the objective of giving knowledge about
(ii-a) Health Sector in India: Overview;	health sector of India and indicators of health
Health outcomes	quality
(ii-b) healthcare systems; health financing.	
	(ii-b)
	Aims at introducing to students about Health care
UNIT-3	systems and funding of healthcare infrastructure
(iii-a) Education: Investment in Human	iii-a
Capital: Rate of return to education: private	aims at developing understanding in students'
and social; quality of education;	mind about education as investment in human
	capital, and quality of education
(iii-b) Signalling of human capital;	iii-b
theories of discrimination; gender and	has the objective of detailing about the return of
caste discrimination in India.	education as asset; problems of discrimination
UNIT-4	iv-a
	has the objective of describing and explaining the
(iv-a)Education Sector in India: Overview;	has the objective of describing and explaining the

Literacy rates, school participation, school quality measures (iv-b)	basics of education sector; school education iv-b Aims at discussing the role of higher education
Role of Higher Education and Vocational Education in India; Skill India campaign	and skill creation.

OVERVIEW OF OUTCOMES

DS ELECTIVE- ECONOMICS OF HEALTH AND EDUCATION

After the successful completion of the course, the students will be able to Course Objective #

Ecx.505.1 Have knowledge about the basics of role and outcomeseducation and health w.r.t. economic development

Ecx.505.2 Have understanding of healthcare systems and funding of health infrastructure

Ecx.505.3 Have knowledge about education as investment in human Resources, and problem of discrimination

Ecx505.4 Have understanding about school and higher education In India and skill creation campaign

DS ELCETIVE- ECONOMICS OF HEALTH AND EDUCATION

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx505.1	3	3	1	2	1	2	3	3	2	2	1
Ecx505.2	3	3	2	2	1	1	2	3	2	2	2
Ecx505.3	3	3	1	3	2	1	3	3	2	2	1
Ecx505.4	3	3	1	2	2	1	3	3	2	2	2
Average	3	3	1.25	2.25	1.5	1.25	2.75	3	2	2	1.5

- Institute Development Studies, 1999.
- Mishra S.K.and Puri V.K, Indian Economy Himalya Publication House Latest Edition.
- Monga G.S.and Goel M.M. (2001) Wage Goods Approach and Development Deep and Deep New Delhi.
- Parikh, K.S. (1999), India Development Report 1999-2000, Oxford University Press, New Delhi.
- Ronald G., Ehrenberg and Robert S., Smith, Modern Labor Economics:
- Sen, A. (1992), Inequality Reexamined, Oxford University Press, Oxford.
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- Thirlwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- Todaro, M.P. and S.C. Smith (2003), (8th Edition), Economic Development, Pearson Education, Delhi.
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- World Development Report, Investing in Health, The World Bank, 1993.

Master of Science Economics(Honors)5-year integrated Semester-V PUBLIC ECONOMICS DSE-2-IN-ECX-506

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
 (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the

four units (24 marks each)

four units (24 marks each)	
Content	Learning objectives
UNIT-I	(i-a)
	Aims at introducing to the students about health
(i-a) Economic rationale of Mixed	and education as stimulants to human
Economy; Role of govt in a state,	development, and poverty alleviation
Introduction to positive and tools of	
normative analysis: Pareto efficiency,	(i-b)
equity and the social welfare function	aims at making the students understand about
	health and education outcomes and economic
(i-b) Fiscal federalism, the economic	development
basis of decentralisation: the Tiebout	
Hypothesis: voting with your feet	
UNIT-2	(ii-a)
(22 - 2)	The decading of civing languages at any
(ii-a)	Has the objective of giving knowledge about health sector of India and indicators of health
Public goods: definition, models of	quality
efficient allocation: Lindahl model(in	quanty
brief)	(ii-b)
40.7	(II b)
(ii-b)	Aims at introducing to students about Health care
Samuelson model of efficient allocation (in	systems and funding of healthcare infrastructure
brief), pure and impure public goods, free	3
riding problem.	
UNIT-3	iii-a
(iii-a)	
Externalities: The problem and its	aims at developing understanding in students'
solutions, taxes versus regulation,	mind about education as investment in human
	capital, and quality of education

(iii-b)	
Property rights, the Coase Theorem(in brief).Inverted-U Kuznets curve hypothesis. UNIT-4	has the objective of detailing about the return of education as asset; problems of discrimination iv-a
(iv-a)Indian Tax system, Recent reforms, Public Expenditure, Public debt, deficits and subsidies in the Indian economy	has the objective of describing and explaining the basics of education sector:school education iv-b
(iv-b) Centre-State financial relations, Recommendations of 15 th finance Commission.	Aims at discussing the role of higher education and skill creation.

OVERVIEW OF OUTCOMES DS ELECTIVE- PUBLIC ECONOMICS

After the successful completion of the course, the students will be able to Course Objective #

Ecx.506.1 Have knowledge about the basics of efficiency and equity and rationale of fiscal federalism

Ecx.506.2 Have understanding of nature of public goods and efficient allocation of public goods

Ecx.506.3 Have knowledge about externalities and property rights w.r.t public choice

Ecx506.4 Have understanding about Indian tax system, recent reforms,
Public debt and public expenditure, centre-state financial relations

DS-ELCETIVE- PUBLIC ECONOMICS

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx506.1	3	3	1	2	1	2	1	3	2	2	1
Ecx506.2	3	3	2	2	1	1	2	3	2	2	2
Ecx506.3	3	3	1	3	2	2	2	3	2	2	2
Ecx506.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.5	1.75	3	2	2	1.5

- Arrow Kenneth, J. (1963), Social Choice and Individual Value, Yale University Press, New Haven
- Atkinson A. B., and Siglitz J. E. (1980), Lectures on Public Economics, Tata MacGraw Hill, New York.

- Bagchi, Amaresh (2005) Reading in Taxation, Oxford Press.
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- Broadway, R.W. and N. Bruce (1984), Welfare Economics, Basil Blackwell, Oxford.
- Bruce, Neil, Public Finance, Addison-Wesley Educational Publishers, Inc).
- Buchanan, J. M. (1970), The Public Finances, Richard D.li-win, Homewood.
- Chelliah, Raja J.(ED.) 1997, Towards, Sustainable Growth, Oxford University Press, New Delhi.
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- DK Khatri:Investment Management & Security Analysis: Text and Cases; McMillan India
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- Downs, A, An Economic Theory of Democracy, Harper and Row, New York.
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 McGraw Hill Book Company, New Delhi.

 Public Finance in Theory and Practice,

Master of Science Economics(Honors)5-year integrated Semester-V International Trade-1 GE5-IN-ECX-507

External marks:120 Internal Marks:30 Time: 3 hours Credit:6

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Tour units (24 marks each)	T
Content	Learning objectives
UNIT-I	
(i-a) International trade: contents of	(i-a)
international trade; Need for a separate	Aims at introducing the students about
theory;	Internationa trade, and rationale for a separate
	theory
(i-b) Distinguishing features of	(i-b)
international trade; Importance:	aims at making the students acquainted with
Advantages and Dis-Advantages of	nature and significance of international trade in
international trade; Trade as engine of	economic development
growth	
	(ii-a)
UNIT-2	
(ii-a)	Has the objective of giving exposure about
Classical Theory of International Trade: –	theories of International trade from classical
Theories of absolute advantage,	perspective
comparative advantage.	
	(ii-b)
(ii-b)	
Neo Classical Theory of international	Has the objective of acquainting pupils about
Trade (opportunity costs theory); Modern	opportunity costs theory and factor proportions
Theory of International Trade (Heckscher-	theory
Ohlin Model).	
UNIT-3	iii-a
(iii-a)	aims at developing understanding in students'
()	mind about Role of reciprocal demand in
Alternative theories of international trade:-	determining trade volume and direction
	1

The Leontief Paradox; Offer curve	iii-b
analysis; J.S. Mill's theory of reciprocal demand;	has the objective of making the understanding of factor price equalization theorem, and specific
(iii-b) Factor price equalization theorem; The specific factors model.	factor price equalization theorem, and specific factors model
UNIT-4	iv-a
(iv-a)Tariff and Non Tariff Barriers:- Partial and General equilibrium analysis of tariff;	has the objective of describing and explaining the basics of tariffs and their effects
(iv-b) Import Quota and other Non tariff barriers; Arguments for protection; Concepts of terms of trade, their uses and limitations	iv-b Aims at explaining the relevance and rationale of quotas and their effects, also the nature and significance of terms of trade.

OVERVIEW OF OUTCOMES GE- INTERNATIONAL TRADE-1

After the successful completion of the course, the students will be able to Course Objective #

Ecx.507.1 Have knowledge about the distinguishing features of

International trade, and rationale for a separate theory

Ecx.507.2 Have understanding about the Theories of international trade

Ecx.507.3 Have knowledge about trade theories based on reciprocal

and specific factors

Ecx507.4 Have understanding about basic elements of tariffs and quotas

, and terms of trade.

GENERIC ELECTIVE- INTERNATIONAL TRADE-1

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx.507.1	3	3	1	2	1	2	1	3	2	2	1
Ecx507.2	3	3	2	2	1	1	2	3	2	2	1
Ecx507.3.	3	3	1	3	2	1	1	3	2	2	2
Ecx507.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	1.25

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Master of Science Economics(Honors)5-year integrated Semester-VI Economics of Finance CC13-IN-ECX-601

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

Note:

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted

(iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a) Nature, Scope and Objective of	Aims at introducing to the students about Nature,
Financial Economics;	scope and objectives of financial economics
	(i-b)
(i-b) Financial statement: Balance sheet,	aims at making the students understand basics of
Profit & Loss Account and ratio analysis;	financial statements, and time value of money
Time value of money	
UNIT-2	(ii-a)
(ii-a)	
	Has the objective of giving exposure to students
Capital Budgeting Decisions: Net Present	about Capital budgeting and its methods
Value, IRR, Profitability Index, Payback	
	(ii-b)
(ii-b)	
Corporate Restructuring: Mergers,	Aims at introducing to students about Corporate
Acquisitions, Amalgamations,	strategies of restructuring, and corporate
Divestments-Meaning, Motives And	governance
Strategies; Corporate Governance.	
UNIT-3	iii-a
(iii-a)	aims at developing understanding in students'
Cost of Capital: Concept of Risk and	mind about Risk and Return and portfolio theory
Return; Portfolio Theory, Capital Asset	iii-b
Pricing Model	has the objective of detailing about Arbitrage
	Pricing theory and efficient market hypothesis
(iii-b) Arbitrage Pricing Theory; Efficient	

Market Hypothesis-Basic Concept.	
UNIT-4	iv-a
(iv-a)Capital market in India: brief history (iv-b) Major reforms in primary and secondary capital market.	has the objective of describing and explaining the Indian capital market in historical perspective iv-b Aims at discussing the primary capital market and stock market reforms in India

OVERVIEW OF OUTCOMES

CORE COURSE- Economics of Finance

After the successful completion of the course, the students will be able to Course Objective #

Ecx.601.1 Have knowledge about the Financial economics, and financial

statements

Ecx.601.2 Have understanding of capital budgeting decisions, and

Corporate restructuring strategies

Ecx.601.3 Have knowledge about Risk and return, portfolio theory and Efficient market hypothesis

Ecx601.4 Have understanding about historical review of Indian capital Market, and capital market reforms

CORE-COURSE- ECONOMICS OF FINANCE

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx601.1	3	3	1	2	1	2	1	3	2	2	1
Ecx601.2	3	3	2	2	1	1	2	3	2	2	2
Ecx601.3	3	3	1	3	2	1	1	3	2	2	2
Ecx601.4	3	3	1	2	2	1	2	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	1.5

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- Prasanna Chandra: Investment management and Portfolio Analysis; McGraw-Hill
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Master of Science Economics(Honors)5-year integrated Semester-VI Development Economics-II CC14:IN-ECX-602

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
 (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Tour units (24 marks each)	
Content	Learning objectives
UNIT-I	(i-a)
	Aims at introducing to the students about steady
(i-a) Growth Models: Steady-State	state growth, and neoclassical models.
Economic Growth and Equilibrium Path:	
Harrod-Domar Model; Neo-Classical	(i-b)
Models of Solow and Meade	aims at making the students understand basics of
	Capital accumulation model of Robinson and
(i-b) J Robinson's (golden rule of	Kaldor's growth model
Accumulation) and Kaldor's Growth	
Models.	
UNIT-2	(ii-a)
(ii-a)	Has the objective of giving exposure to students
Balanced and unbalanced growth strategy:	about strategies of economic development,
Big Push, Critical Minimum Effort	Balanced growth, Big Push and Critical
Dig Tush, Chica William Lifett	minimum effort
(ii-b)	(ii-b)
Economic Growth and Distribution: Models	Aims at introducing to students about
of distribution-Ricardo, Marx and Kaldor,	macroeconomic theories of distribution
UNIT-3	iii-a
	aims at developing understanding in students'
(iii-a)	mind about choice of techniques
Technological Development:	1
Choice of Techniques: Labour-Intensive,	iii-b
Capital Intensive and Intermediate	has the objective of detailing about Investment

Techniques	criteria and project evaluation
(iii-b)	
Planning Techniques: Investment Criteria	
and Cost-Benefit Analysis	
UNIT-4	iv-a
(iv-a)Technical Progress: Capital Saving,	has the objective of describing and explaining the
Labor Saving and Neutral Technical	kinds of technical progress
Progress (Harrod and Hicks); Embodied	
and Disembodied Technical	iv-b
Progress(Solow and Nelson)	Aims at discussing the sources of growth and
	models of endogenous growth
(iv-b)	
Theories of Endogenous Growth: AK	
Model; Romer	

OVERVIEW OF OUTCOMES

CORE COURSE- DEVELOPMENT ECONOMICS-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx.602.1 Have knowledge about the Steady-state growth and its path

Ecx.602.2 Have understanding of strategies of economic developmentand macroeconomic theories of distribution

Ecx.602.3 Have knowledge about choice of techniques, investment criteria and costbenefit analysis

Ecx602.4 Have understanding about Technical progress and sources of economic growth CORE-COURSE- DEVELOPMENT ECONOMICS-II

00112	COLE COCINE DE LEGITALITA ECOLOMICS II										
CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx602.1	3	3	1	2	1	2	1	3	2	2	1
Ecx602.2	3	3	2	2	1	1	1	3	2	2	2
Ecx602.3	3	3	1	3	2	2	2	3	2	2	2
Ecx602.4	3	3	1	2	2	2	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.75	1.25	3	2	2	1.5

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Master of Science Economics(Honors)5-year integrated Semester-VI Research Methodology DSE3-IN-ECX-603

External marks:80 Internal Marks:20 Total Marks:100 Total credits:4 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 10 and 6 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each)

Tour units (10 marks each)	T
Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing to the students scientific
Research methodology:Research, and Scientific method; Identifying and defining a research problem; (i-b)	method and Research problem. (i-b) aims at making the students understand the kinds of research designs
Research Design: Experimental, Ex-post facto research: Exploratory, Historical and Descriptive, Field study&Case-study, Survey research, Case study research. UNIT-2	(ii-a)
(ii-a) Sample design –probability&Non-probability sampling, Sample size;	Has the objective of giving exposure to students about sample design and measurement scales
Measurement Design-measurement scales; errors in measurement, Validity and	(ii-b)
Reliability (ii-b)	Aims at introducing to students about data collection, editing and presentation.
Data collection & editing coding; Presentation: Graphical & Content analysis	
UNIT-3 (iii-a)	iii-a
Formulation of Research Problem-Pilot Study, Literature Survey, formation of	aims at developing understading of formulation of research problem and hypothesis setting-up

hypothesis

(iii-b)

Experimental Research-experimental designs: Single factor Designs, Two or more factors designs; Randomised Block Design, Latin Square design, Quasi-experimental Designs; Validity&Reliability

UNIT-4

(iv-a)

Analysis of Variance for Experimental Data: Single factor Randomised Block Design, Latin square Design, and 2x2 factorial design

(iv-b)

Thesis writing:Principles; Format of Research reports; Briefing, Rules for Word processing

iii-b

has the objective of acquainting students with single factor and 2-or more factor experimental designs, as well as Quasi-experimental designs

iv-a

has the objective of describing and explaining the problem-solving of experimental data in different experimental settings under ANOVA iv-b

Aims at giving the knowledge to students about basics of research report writing

Research Methodology DSE: IN-ECO-604

Practical
Presentation (written/oral)
External marks:40

Internal marks:10

Total marks:50

Credits:2

Time:3 hours

Measurement scales; ANOVA Problem-solving onRandomised Block design, Latin Square Designs, and 2x2 factorial Design; Writing a research report/Synopsis Data analysis using MS Excel, SPSS and E views.

OVERVIEW OF OUTCOMES (IN-ECO-603&IN-ECO-604) DS ELECTIVE- RESEARCH METHODOLOGY

After the successful completion of the course, the students will be able to Course Objective #

Ecx.603&4.1 Have knowledge about the research problem and research

design

Ecx.603&4.2 Have understanding of sample design and data collection

and data editing

Ecx.603&4.3 Have knowledge about experimental and Quasi-experimental

research

Ecx603&4.4 Have understanding aboutANOVA and thesis writing

DS-COURSE- RESEARCH METHODOLOGY

CO#	PO1	PO	PO3	PO4	PO5	PO6	PO7	PSO	PSO2	PSO3	PSO4
		2						1			
Ecx603&4.1	3	3	1	2	1	2	1	3	2	2	1
Ecx603&4.2	3	3	2	2	1	1	1	3	2	2	2
Ecx603&4.3	3	3	1	3	2	1	2	3	2	2	2
Ecx603&4.4	3	3	1	2	2	1	1	3	2	2	2
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	1.75

- Alexis Leon and Mathews Leon: Introduction to Computers with Ms-Office, TMH.
- Asthana and Brij Bhushan: Statistics for Social Sciences (with SPSS applications), PHI.
- Feeber, R and Verdoorn, P.J.:Research Methodology in Economics and Business
- Foercese, D.P. and Richer, S., Social Research Methods
- Ghosh. B.N., Scientific Methods and Social Research
- Kerns: Essentials of Microsoft Windows, Word and Excel, PHI
- KN Krishnaswamy, Appa I Sivakumar, M Mathirajan, Management Research Methodology, Pearson education, Dorling Kindersley(India)pvt ltd.
- Kothari, CR (1995) Research Methodology: Methods and Techniques, Wishwa Prakashan (Wiley Eatern Ltd), New Delhi.
- Kurien, C.T. (ed.), A Guide to Research in Economics
- Raja Raman.V.: Fundamentals of Computers, PHI, New Delhi.
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- Sabine, Landau, Brian S. Everitt: A handbook of statistical analyses using SPSS, Chapman & Hall/CRC Press LLC
- Sadhu, A.N. and Singh, Research Methodology in Social Sciences
- Sharma, B.A.U. et. Al., Research Methodology in Social Sciences
- Sinha, P.K.: Computer Fundamentals, BPB Publications, New Delhi
- Spiegel, M.R., Theory and Problems of Statistics (Schaum's outlines Series), Thesis and Assignment Writing
- Wilkinson, T.S. and Bhandarker, P.L., Methodology and Techniques of Social Research
- Yamane, T., Statistics: An Introduction Analysis.

Master of Science Economics(Honors)5-year integrated Semester-VI Energy Economics DSE3-IN-ECX-605

External marks:80 Internal Marks:20 Total marks:100 Credits:4 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 10 and 6 marks respectivelyAll Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each)

Tour units (To marks each)	
Content	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing to the students basic
Some Basic Concepts: Definition of Energy,	concepts relted to Energy, and energy
Measuring Energy; Energy Conversion and	conversion process.
Efficiency, law of Thermodynamics	(i-b)
	aims at making the students understand the
(i-b)	energy indicators and energy-economics
Emergence of Energy Economics: Its nature	relationship
and scope; Energy indicators: Energy &	
Economics relationship.	
UNIT-2	(ii-a)
(ii-a)	
	Has the objective of giving exposure to students
Natural Resources: Types and classification	about the nature and types of energy resources
(Conventional & Non- Conventional);	
Energy Resources: Renewable- Water	(ii-b)
Energy, Solar Energy, Wind Energy and Non- Renewable	
	Aims at introducing to students about thermal
(ii-b)	energy and its EIA
Thermal Energy, Thermal Energy and its	
Environmental Impact Assessment	
	iii-a
UNIT-3	aims at developing understanding of energy
	crisis and environmental crisis; and measures
(iii-a)	,
Energy Crisis - causes, consequences -	iii-b
Remedial measures; Environmental Crisis -	has the objective of acquainting students with

causes, consequences, remedial measures	role of international institutions in energy development
(iii-b)	
Role of International Institutions in Energy	
and Economic Development-OPEC,	
OAPEC, IEA and World Bank	
UNIT-4	iv-a
	has the objective of introducing to the students
(iv-a)Energy Planning and Energy	about Energy planning and energy management
Conservation: Meaning, objectives and	iv-b
importance - Energy Management -	Aims at giving the knowledge to students
Meaning, Objectives and Importance.	aboutrecent energy policy issues in India and
	sustainable energy use.
(iv-b) Recent Developments - Energy	
Auditing - Energy Accounting - Energy	
Pricing and Taxes - Role of Economists in	
Promoting Sustainable Energy	
Management.	

ENERGY ECONOMICS DS IN-ECO-606

Practical
Presentation (written/oral)
External marks:40
Internal marks:10
Total marks:50
Credits:2

Time: 3hours

Presentation (written/oral)

Law of thermodynamics, Energy conversion process and efficiency, Energy audit, Energy pricing, Environment Impact Assessment, Sustainable Energy use

OVERVIEW OF OUTCOMES (IN-ECO-605&IN-ECO-606) DS COURSE- ENERGY ECONOMICS

After the successful completion of the course, the students will be able to Course Objective #

Ecx.605&6.1 Have basic knowledge about the energy economics,

Thermodynamics and energy conversion

Ecx.605&6.2 Have understanding of basics of energy resources and

Environment Impact Assessment of Thermal energy

Ecx.605&6.3 Have knowledge about energy crisis and role of international

Institutions for crisis resolution

Ecx605&6.4 Have understanding aboutenergy pricing, energy

audit andsustainable energy use

DS-COURSE- ENERGY ECONOMICS

DD COCKS	DB COCKBE ENERGY ECONOMICS											
CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	
Ecx605&6.1	3	3	1	2	1	2	1	3	2	2	1	
Ecx605&6.2	3	3	2	2	1	1	1	3	2	2	2	
Ecx605&6.3	3	3	1	3	2	2	2	3	2	2	1	
Ecx605&6.4	3	3	1	2	2	2	1	3	2	2	2	
Average	3	3	1.25	2.25	1.5	1.75	1.25	3	2	2	1.5	

- 3 I Network (2004): India Infrastructure Report 2004, Delhi, OUP, 2004.
- 3 I Network (2010): India Infrastructure Report 2004, Delhi, OUP, 2010 4. Boyle, G. 1996. Renewable Energy: Power for a Sustainable Future. Oxford: Oxford University Press.
- Button, K.J. (2003) Transport economics, Edward Elgar, Aldershot, England.

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- Cooper, J. 2003. Price elasticity of demand for crude oil: estimates for 23 countries. OPEC Review: Energy Economics & Related Issues 27, 1, 1–8. 6.
- Cropper, M. and Oates, W. 1992. Environmental economics: a survey. Journal of Economic Literature 30, 675–740.
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- Michael A. Crew and Paul R. Kleindorfer(1986): The Economics of Public Utility Regulation, MIT Press 1986.
- Steven Stoft, Wiley (2002)Power System Economics: Designing Markets for Electricity.
- W. Fulmer, Robert L. Bradley Jrand Richard (2004), .Energy:The Master Resource.
- William Spangar Peirce, Praeger, (1996). Economics of the Energy Industries, 2nd ed.
- World Bank (1994): Infrastructure for Development, World Development Report, Washington D.C.

Master of Science Economics(Honors)5-year integrated Semester-VI Industrial Economics DSE4-IN-ECX-607

External marks:80 Internal Marks:20 Total marks:100 Credits:4 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 10 and 6 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted(iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each)

Content	Learning objectives
UNIT-I	(i-a)
(i-a) Nature and scope of Industrial	Aims at introducing to the students about
Economics; Concept and Organization of a	industrial economics and organization and
firm – ownership, control and objectives of	objectives of a firm
the firm	(i-b)
(i-b) Growth of the firm – Size and growth	aims at making the students understand the
of a firm, Diversification & growth,	determinants of size and growth of the firm
growth and profitability, constraints on	
growth	
UNIT-2	(ii-a)
(ii-a)	Has the objective of giving exposure to students
Theories of industrial location – Weber and	about theories of location and limiting factors
Sargent theories, Factors affecting location	
(ii-b)	(ii-b)
Industrial localization and remedial	Aims at introducing to students about factors
measures; Sellers' concentration	leading to localization of industries and sellers'
	concentration
UNIT-3	iii-a
(iii-a)Economies of Scale and scope; Market	aims at developing understanding of role of
structure and profitability	economies of scale and scope, market structure
	and profits of a firm
(iii-b) Market structure and innovation;	iii-b
Product pricing – theories and evidence	has the objective of acquainting students with
	product innovation and product pricing practices
UNIT-4	iv-a

(iv-a)Regional Industrial growth in India; Industrial growth through mergers &acquisitions, and diversification;

(iv-b)

Industrial Finance; Sources of short term and long term finance; Structure of Industrial labour; Employment dimensions of Indian Industry has the objective of introducing to the students about Industrial growth through mergers and acquisitions, and product diversification iv-b

Aims at giving the knowledge to students about Industrial finance, and employment potential of Indian industry

INDUSTRIAL ECONOMICS DS ELECTIVE IN-ECO-608

Practical
Presentation (written/oral)
External marks:40
Internal marks:10
Total marks:50
Credits:2

Presentation (written/oral)

Industrial location theories of Sergent and Weber; Market structure; Mergers and Acquisitions, Economies of scale and scope; Pricing practices, Sources of Industrial Finance

OVERVIEW OF OUTCOMES (IN-ECO-607&IN-ECO-608)
DS ELECTIVE- INDUSTRIAL ECONOMICS

After the successful completion of the course, the students will be able to Course Objective #

Ecx.607&8.1 Have basic knowledge about the Industrial Economics and organization of a firm

Ecx.607&8.2 Have understanding of basics of location theories, and localization of industries

Ecx.607&8.3 Have knowledge about Scale and scope economies, market structure and pricing practices

Ecx607&8.4 Have understanding about Industrial growth through Mergers and acquisitions, and sources of industrial finance

DS-COURSE- INDUSTRIAL ECONOMICS

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx607&8.1	3	3	1	2	1	2	1	3	2	2	1
Ecx607&8.2	3	3	2	2	1	1	2	3	2	2	1
Ecx607&8.3	3	3	1	3	2	1	2	3	2	2	1
Ecx607&8.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	1

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Master of Science Economics(Honors)5-year integrated Semester-VI Agriculture Economics DSE4-IN-ECX-609

External marks:80 Internal Marks:20 Total marks:100 Credits:4 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 10 and 6 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each)

Content	I coming chicatives
	Learning objectives
UNIT-I	(i-a)
(i-a)	Aims at introducing to the students about agri
Nature and scope of agricultural and rural	and rural economics and nature of production
economics; Production functions in	process in agriculture
Agriculture-Input-output, and product-	
product relationship	(i-b)
(i-b)	aims at making the students understand the
Interdependence between agriculture and	interdependence and linkages between
industry-intersectoral likages (backward &	agriculture and industry
forward	
	(ii-a)
UNIT-2	
(ii-a) Models of Agricultural development-	Has the objective of giving exposure to students
Fei-Rennis model, Schultze model;	about modles of agri-development, nature and
Irrigation, HYV seeds, mechanisation,	role of agri- inputs
distribution mechanism of output	Total of agric impans
	(ii-b)
(ii-b) New agricultural strategy; and its	Aims at introducing to students about factors
impact on Income distribution&	leading to Green revolution, and later technical
Employment	innovations
UNIT-3	iii-a
	aims at developing understanding of role of co-
(iii-a) Co-operative farming, its evaluation	operative farming, and its impact
with regard to productivity, employment,	operative farming, and its impact
and Income distribution;	iii-b
(iii-b)	has the objective of acquainting students with
	agri-product innovation and agri- practices

New trends in agriculture: Organic farming, Zero-tillage, Genetic Engineering in agriculture

UNIT-4

(iv-a)

Agricultural markets and marketing, Nature of demand & supply of Agri-products; Regulated markets; Warehousing, crop insurance

(iv-b)

Terms of trade between agricultural and non-agricultural sectors; Objectives of agricultural price policy- Instruments and evaluation; Food security in India and Public distribution system and Agri-reforms in India

iv-a

has the objective of introducing to the students about nature of agri-markets, and need for agri-infrastructure of storage and crop insurance iv-b

Aims at giving the knowledge to students about terms of trade between agriculture and industry; food security and agri-reforms in India

AGRICULTURE ECONOMICS DSE IN-ECO-610

Practical Presentation (written/oral) External marks:40 Internal marks:10

Interdependence between agriculture and industry- some empirical evidence, Farm-size & labour productivity Terms of trade between agricultural and non-agricultural sectors; Objectives of agricultural price policy- Instruments and evaluation; Food security in India

OVERVIEW OF OUTCOMES (IN-ECO-609&IN-ECO-610) DS COURSE- AGRICULTURE ECONOMICS

After the successful completion of the course, the students will be able to Course Objective #

Ecx.609&10.1 Have basic knowledge about the Nature and scope of agriculture economics, and linkages between agriculture and industry

Ecx.609&10.2 Have understanding of basics of models of agridevelopment, and new agricultural strategy and its impact

Ecx.609&10.3 Have knowledge about co-operative farming, and new

Innovative agri-practices in India

Ecx609&10.4 Have understanding about Agri-marketing, food security and agri-reforms in India

DS-COURSE- AGRICULTURE ECONOMICS

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx609&10.1	3	3	1	2	1	2	1	3	2	2	1
Ecx609&10.2	3	3	2	2	1	1	2	3	2	2	1
Ecx609&10.3	3	3	1	3	2	1	2	3	2	2	1
Ecx609&10.4	3	3	1	2	2	1	1	3	2	2	1
Average	3	3	1.2	2.25	1.5	1.25	1.5	3	2	2	1
			5								

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Master of Science Economics(Honors)5-year integrated Semester-VI International Trade-II GE6-IN-ECX-611

External marks:120 Internal Marks:30 Total marks:150 Credits:6 Time: 3 hours

- (i) Nine Questions will be set in all and students will be required to attempt 5 questions.
- (ii) Question No. 1 will be compulsory and will consist of PART-A &B, comprising 15 and 9 marks respectively. All Qs of PART-A and 3 Qs out of 6 from part-B are to be attempted
- (iii) For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (24 marks each)

Tour units (24 marks each)	T
Content	Learning objectives
UNIT-I	(i-a)
(i-a) Balance of payments: - concept,	Aims at introducing to the students about Balance
definition and component of Balance of	ofPayments and disequilibrium.
Payment; Disequilibrium in Balance of	
Payment; Balance of payment problem	(i-b)
(basic model)	aims at making the students understand about
	adjustment mechanism in balance of payments
(i-b)	
Disequilibrium and Adjustment; Balance	
of Payment adjustment mechanism: Price	
adjustment mechanism.	
UNIT-2	(ii-a)
(ii-a)	Has the objective of giving knowledge about the
The foreign exchange market: The basis of	nature and functions of Forex markets
the foreign exchange market; Exchange	
rate systems	
(ii-b) Institutional aspects of foreign	
exchange markets; The international	(ii-b) Aims at introducing to students about
character of foreign exchange markets;	trading and intsruments in Forex markets
Exchange risk; Forward exchange;	
Covered interest arbitrage	
UNIT-3	
(iii-a) Flexible vs Fixed exchange rates,	iii-a
Theory of employment with Flexible	Aims at developing understanding in students'
exchange rate; IS-LM model with flexible	mind about effects of fixed and flexible exchange
exchange rate	rates

(iii-b) Foreign trade multiplier and its repercussion effect, Foreign trade multiplier and its repercussion effect

iii-b

Has the objective of detailing about the working of foreign trade multiplier, and transmission of trade repercussions

UNIT-4

iv-a

(iv-a)

Theory of custom unions: Trade diversion and trade creation effect

Has the objective of describing and explaining the basics of Customs unions

(iv-b)

International monetary system:

Gold standard (1870-1914); The Inward period; The Bretton Woods system (1944-1971); The present system of managed flexibility, Special Drawing Rights by IMF

iv-b

Aims at discussing the exchange rates arrangements in historical perspective, and SDRs by IMF

OVERVIEW OF OUTCOMES GE COURSE- INTERNATIONAL TRADE-II

After the successful completion of the course, the students will be able to Course Objective #

Ecx.611.1 Have knowledge about the basics of Balance of payments and Its adjustment mechanism

Ecx.611.2 Have understanding of organization and working of Forex market and instruments of trading

Ecx.611.3 Have knowledge about Fixed and flexible exchange rate systems and working of foreign trade multiplier

Ecx611.4 Have understanding about Customs unions and history of Exchange rate arrangements

GE-COURSE- INTERNATIONAL TRADE-II

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
Ecx611.1	3	3	1	2	1	2	1	3	2	2	1
Ecx611.2	3	3	2	2	1	1	2	3	2	2	1
Ecx611.3	3	3	1	3	2	1	2	3	2	2	2
Ecx611.4	3	3	1	2	2	1	1	3	2	2	2
Average	3	3	1.25	2.25	1.5	1.25	1.5	3	2	2	1.5

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