Post Graduate and Research Department of Economics
Sacred Heart College (Autonomous) Tirupattur-635601. Tirupattur District.

Program structure for M.A. Economics under new CBCS with effect from 2021-2022

Name of the Programme: **EC02 - MA ECONOMICS**

Vision:

We, the Department of Economics of Sacred Heart College, inspired by the love of the Heart of Jesus and fundamental human values, following the educative system of Don Bosco are committed to the creation of an ethical and prosperous society, to empower the student in higher education in terms research and consultancy.

Mission:

To impart quality of education of student community to create a society more worthy of humans.

Programme Outcomes at Postgraduate Level

Programme will be able to:

PO1	Demonstrate advanced knowledge in their disciplines.
PO2	Develop specialized skills to plan, analyze and draw conclusions in their field of study.
PO3	Exhibit and expertise in their field of study through project and research activities.
PO4	Prepare themselves to incorporate new techniques in their own discipline and demonstrate excellence in their area of specialization.
PO5	Develop social and ethical responsibility in the transfer and management of knowledge.
PO6	Equip them to face the job market and to become entrepreneurs.

Programme Specific Outcomes at Postgraduate Level

Programme will be able to:

PSO1	Pursue various advanced economic theories into diverse empirical fields.
PSO2	Concede contemporary economic concepts pertaining to discipline of economics.
PSO3	Demonstrate and impart knowledge on structure and distribution of the economy.
PSO4	Create critical thinking and social responsibility among the students.
PSO5	Compare and contrast environmental values, consciousness and making policy analysis
PSO6	Take up careers, research and employability skills in different sectors.

Semester - I

Category	Subject Code	Title of the paper	Hrs.	Credits	Marks CIA	Marks SE
Core	E748	Advanced Micro Economic Theory – I	6	5	50	50
Core	E749	Advanced Macro Economic Theory – I	6	4	50	50
Core	E750	Statistics for Economists	5	4	50	50
Core	E751	Economics of Growth and Development	5	5	50	50
Elective-I	E752A	(i) Demography	6	4	50	50
	E752B	(ii) History of Economic Thought				
	E752C	(iii) Economics of Infrastructure				
Subject skill (SK)	E753S	Business Communication Skills	2	2		
		Total	**30**	**24**		

Semester - II

Category	Subject Code	Title of the paper	Hrs.	Credits	Marks CIA	Marks SE
Core	E855	Advanced Micro Economic Theory – II	6	5	50	50
Core	E856	Advanced Macro Economic Theory – II	6	4	50	50
Core	E857	Mathematics for Economists	5	4	50	50
Core	E858	Managerial Economics	5	5	50	50
Elective-II	E859A	(i) Industrial Economics	6	4	50	50
	E859B	(ii) Economics of Urbanisation				
	E859C	(iii) Economics of Gender and Development				
Subject skill (SK)	E860S	Entrepreneurship Training Skills	2	2		
Certificate course CC-1		Computer Software Packages (SPSS,AMOS) in Economics	Optional- Successful Completion 2*			
		Total	**30**	**24+2* = 26**		

PSO – PO Mapping						
PSO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**Mean Score**
PSO1	3	2	2	1	2	2
PSO2	2	3	1	1	3	2
PSO3	2	2	2	2	2	2
PSO4	2	2	3	3	2	2.4
PSO5	2	3	2	2	3	2.4
					Mean Overall Score	2.16
					Result	High
High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)						

Semester	Course Code	Title of the Course	Hours	Credits
I	**E748**	**ADVANCED MICRO ECONOMIC THEORY – I**	**6**	**5**

Course Objectives:
1. To learn understand micro economic theories and models.
2. To study traditional demand theories and its functions.
3. To understand modern demand theories and its functions.
4. To demonstrate costs and production functions.
5. To evaluate and use the various game theory model.

Course Outcomes:
After the successful completion of the course, the student will be:

Sl. No.	CO – Statements	Cognitive Level (K-Level)
CO – 1	Understanding economics models and methodologies.	K1, K2
CO – 2	Applying traditional demand theories in business.	K2, K3
CO – 3	Analysing modern demand theories in business.	K3, K4
CO – 4	Evaluating cost and Production functions.	K4, K5
CO – 5	Constructing game theory models in business.	K5, K6

Unit – I: Methodology of Economics   (18 Hours)
Scarcity and Choice – Choice under Risk and Uncertainty – Functions of Economic Systems. Methods of Economic Models.

Unit – II: Applications of Demand Analysis – Cardinal Approach   (18 Hours)
Elasticity of demand – Price – Income – Cross Elasticity – Factors affecting elasticity of demand – Methods of measuring Elasticity of demand – Utility analysis of Marshall – Consumer equilibrium and derivation of demand curve – Consumer Surplus.

Unit – III: Applications of Demand Analysis – Ordinal Approach   (18 Hours)
Revealed Preference Theory – Hicks Revised demand theory – Indifference Curve approach – Neumann Morgenstern Utility Hypotheses – Consumer equilibrium – Decomposition of Price Effect – Compensation Variation Principle – Price effect – Income effect – Substitution effect – Slutsky effect.

Unit – IV: Cost and Production Functions   (18 Hours)
Cost functions: Different Cost Concepts – Short run and Long run Costs – Traditional and Modern Theory of Costs – Importance of Cost in Decision making. Production functions: Short run and Long run Production Function– Economies of Scale – Cobb Douglas Production function – CES Production Function – Iso-Quant - Producer's Equilibrium.

Unit – V: Game Theory   (18 Hours)
Strategic and Non-Strategic Model – Finitive and Infinitive Model – Repetitive and Non-repetitive Model – Business Dilemma – Beach Game Model.

Text Book
1. Ahuja H.L, Advanced Economic Theory, Micro and Macro Analysis, S. Chand, New Delhi, 2019.

       Unit - I: Chapter 3, Page: 39 – 54.
       Unit – II: Chapter 6 & 7, Page: 137 – 183
       Unit – III: Chapter 11, Page: 235 – 286
       Unit – IV: Chapter 20, Page: 394 – 427
       Unit – V: Chapter 32, Page: 613 – 625

2. Hal Varian. R. Intermediate Micro Economics: A Modern Approach, 8th edition, ww Norton Company, New York, 2010.

       Unit – III: Chapter 6, 14. 66-94.
       Unit – IV: Chapter 21, 7, Page: 394 – 427
       Unit – V: Chapter 28, Page: 645 – 680

Books for References
1. Ahuja H.L, Advanced Economic Theory, Micro and Macro Analysis, S.Chand, New Delhi, 2017.
2. Samuelson P.A 'Economics' -TATA McGraw Hill – New Delhi-1985.
3. Stonier A.W & Huge D.C, A text book of Economic Theory', Longmans Green London, 1980.
4. Bell and Todaro M.P 'Economic Theory'- Mac Millan, London, 1980.
5. William J.Baumol 'Economic Theory and Operations Analysis', Practice Hall, London, 1961.

Journals
1. Stefan Napel, Advanced Microeconomics – I, Universitat Bayreuth.
2. American Economic Journal: Microeconomics
3. Journal of Economics: Springer
4. Journal of political economy: Microeconomics
5. Journal of Economic Perspectives

Web Resources
1. https://www.academia.edu/38262502/A_koutsoyiannis_Modern_Microeconomics_Second_Edition
2. https://zalamsyah.staff.unja.ac.id/wp-content/uploads/sites/286/2019/11/1-Advanced-Microeconomic-theory-3rd-Ed.-JEHLE-RENY.pdf.
3. https://open.umn.edu/opentextbooks/textbooks/193
4. https://faculty.ksu.edu.sa/sites/default/files/microeco-varian.pdf
5. https://scholar.google.co.in/scholar?q=microeconomics+theory+and+applications+pdf&hl=en&as_sdt=0&as_vis=1&oi=scholar

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E748	**Advanced Micro Economic Theory – I**									6	5

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	2	3	2	2	1	2.1
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	2	3	3	2	2	2	2	3	3	3	2.5
CO4	3	1	3	3	1	3	3	3	1	3	2.4
CO5	3	2	3	2	3	2	3	3	3	3	2.7
Mean Overall Score											2.5
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	**E749**	**ADVANCED MACRO ECONOMIC THEORY – I**	**6**	**4**

Course Objectives:
1. To learn understand the importance of macro economics.
2. To study the National Income and circular flow of Income.
3. To understand classical and Keynesian theory of employment and output.
4. To demonstrate Consumption and Investment functions.
5. To evaluate ISLM functions.

Course Outcomes:

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

S.No.	Description	Cognitive Level (K-Level)
CO-1	Understanding the importance and principles of macro economics.	K1, K2
CO-2	Comparing national income measurement and circular flow of income.	K2, K3
CO-3	Analysing the classical and Keynesian theory of employment and output.	K3, K4
CO-4	Assessing the consumption and investment patterns.	K4, K5
CO-5	Evaluating the effectiveness of ISLM functions.	K5, K6

Unit – I: Scope of Macro Economics   (18 Hours)

Micro – Macro Relations – stock and flow concepts - Scope of Macro Economics – Macro Economic paradox - Importance and Limitations of Macro Economics – Static, Comparative, static and dynamics.

Unit – II: National Income Accounting   (18 Hours)

National Income - Concepts of National Income – Methods of measuring national income – Difficulties in calculating national income – Need for measuring national income – Social Accounting: Meaning and uses or importance – Circular flow of income (Four Sector).

Unit – III: Theory of Employment and output   (18 Hours)

The classical theory – features – The classical theory of employment with saving and without saving and Investment – Say's Law of Market and its criticism – The Keynesian theory of Effective Demand – The concept of Under Employment Equilibrium – Criticism of Keynesian theory.

Unit – IV: The Consumption and Investment function   (18 Hours)

Factors determinants – MPC and APC – Keynes psychological law of consumption – The post Keynesian theories of consumption functions -The investment function and its types and determinants – Multiplier – Accelerator and Super multiplier.

Unit – V: General Equilibrium Concepts and Functions   (18 Hours)

ISLM Equilibrium – shifts in ISLM Functions - The effectiveness of monetary policy and fiscal policy in different regions – The Three Ranges Analysis – The Crowding – out Effect and crowding in effect– The Four Sector ISLM Model – The ISLM Model with Balance of Payments Functions.

Text Books
1. Dr. Ahuja H.L., Modern Economics, S. Chand & Company, Pvt. Ltd. New Delhi,2013.
   - Unit I: Chapter I - Page Nos. from 15 to 25 and 39 to 47
   - Unit II: Chapter VIII – P. Nos. 13 to 36
   - Unit III: Chapter VIII – P. Nos. 37 to 54 and 55 to 65
   - Unit IV: Chapter VIII – P. Nos. 113 to 132 and 145 to 173
   - Unit V: Chapter XI – P. Nos. 399 to 415

2. Edward Shapiro, Macro Economic Analysis, 5th Edition, Harcourt Brace, JivanocichInc, New York, 2013.
   - Unit I: Chapter 1- P. Nos. 3 to 8
   - Unit II: Chapter 2 – P. Nos. 11 to 27
   - Unit IV: Chapter 4 – P. Nos. 47 to 66

Books for References
1. Dwivedi D.N., Macro Economics, Tata McGraw Hill, New Delhi, 2005.
2. Seth M.L., Macro Economics, Lakhsmi Narain Agarwal Publication, Agra, 2017.
3. Jhingan M.L., Macro Economic Theory, Vrinda Publications, P (Ltd.) Delhi, 2014.
4. Richard T. Froyen, Macro Economics Theories and Policies, Dorling Kindersley, Pvt. Ltd. Pearson Education, New Delhi, 2012.
5. Errol D'Souza, Macro Economics, Dorling Kindersley Pvt. Ltd. Pearson Education, New Delhi, 2008.

Journals
1. The Journal of Macro Economics.
2. Journal of Macro Economics / Science Direct .com.
3. Journal of Macro Economics – Long dom Publishing Sl
4. The Review of Economic Studies.
5. The American Economic Review.

Web Resources
1. http://library.oapen.org
2. https://press.Ise.ac.uk>site>books
3. https://www.worldscientific.com.>w
4. https://www.worldbank.org.>topic
5. https://www.york.ac.uk.>latest

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E749	Advanced Macro Economic Theory – I									6	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	1	1	2	1	1.8
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		1	2	2	3	2	2	2	3	1	3	2.1
CO4		3	2	3	2	2	2	2	3	2	3	2.4
CO5		3	2	3	2	3	2	3	2	2	1	2.3
Mean Overall Score												2.3
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	**II CA (50)**	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	**E750**	**STATISTICS FOR ECONOMICS**	**5**	**4**

Course Objectives:
1. To learn about probability, distributions and random variables.
2. To study various parameters of sampling and population.
3. To understand various methods of estimation.
4. To demonstrate the various sampling techniques and time series analysis.
5. To evaluate the validity and reliability of the co-variation.

Course Outcomes:
After the successful completion of the course, the student will be able to

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Comparing theories of probability and distribution	K1, K2
CO-2	Understanding the sampling methods with statistical inference.	K2, K3
CO-3	Analysing the least square methods and confidence interval estimates.	K3, K4
CO-4	Applying different sampling techniques in Social Science Research.	K4 K5
CO-5	Evaluate and develop the regression model in economic application.	K5, K6

Unit - I: Probability Theory   (15 Hours)
Concept of probability, conditional probability and Bayes' theorem; Random variables – discrete and continuous, Density and distribution functions, joint, marginal and conditional distribution, moment generating function, law of large numbers and Central Limit theorem

Unit - II: Sampling Theory   (15 Hours)
Population and Sample (parameter and statistic) – sampling with and without replacement- random samples, random numbers – sampling distributions – sampling distributions of means, sampling distributions of proportions, sampling distribution of differences and sums – standard error.

Unit - III: Estimation   (15 Hours)
Estimator and estimate – point and interval estimate – reliability of an estimate - sampling variants and mean – square error – properties of a good estimator – methods of estimation – Least squares, methods of moments, Maximum Likelihood method.

Unit - IV: Sampling Techniques and Time Series   (15 Hours)
Sampling methods: Random and non-random sampling, Simple random sampling, Stratified random sampling – Concept of an estimator and its sampling distribution – Desirable properties of an estimator – Time series analysis.

Unit - V: Correlation and Regression   (15 Hours)
Correlation analysis: Types, Methods, Karl Pearson's correlation, Spearman's Rank Correlation, Limitations – Regression analysis: The Model and estimation of regression coefficients – Economic applications.

Text Book

1. Gupta S.P, 'Statistical Methods' 46th Edition, Sultan Chand & Sons Publications, New Delhi, 2021.

Unit-I	-	Chapter 1 (Volume II)
Unit-II	-	Chapter 4 (Volume I)
Unit-III	-	Chapter 3 (Volume II)
Unit-IV	-	Chapter 4 and 14 (Volume I)
Unit-V	-	Chapter 10 and 11 (Volume I)

2. Sharma J.K, "Business statistics: Problems and Solutions". Vikas Publishing House, New Delhi, 2012.

Books for References

1. Gupta S.C, 'Fundamental of Statistics' 7th Edition, Himalaya Publishing House, New Delhi, 2018.
2. Pillai R.S.N and Bagavathi, "Statistics: Theory and Practice", 8th Edition, S. Chand & Co Ltd. New Delhi, 2019.
3. Gupta S.C and Kapoor .V.K, "Fundamentals of Mathematical Statistics", 12th Edition, Sultan Chand & Sons Publications, New Delhi, 2020.
4. Vittal P.R, "Business Mathematics and Statistics", Margham Publications, Chennai, 2020.
5. Derek Rowntree, "Statistics without Tears: An Introduction to Non-Mathematicians", Penguin, UK, 2018.

Journals

1. https://www.tandfonline.com/toc/cjas20/current
2. https://www.springer.com/journal/362
3. https://serialsjournals.com/index.php?route=product/product&productid
4. http://stmjournals.com/Journal-of-Statistics.html
5. https://www.hindawi.com/journals/jps/

Web resources

1. https://www.economics.utoronto.ca/jfloyd/stats/ecstats.pdf
2. https://www.oreilly.com/library/view/business-statistics-second
3. https://edge.sagepub.com/gau3e/student-resources
4. https://online.stat.psu.edu/statprogram/courses/requirements
5. www.tutor2u.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E750	Statistics for Economists									5	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	3	2	1	2	2	1	2
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	2	3	1	3	2	2	2	2	3	3	2.3
CO4	3	1	3	3	2	2	3	3	2	3	2.5
CO5	3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score											2.5
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	**E751**	**ECONOMICS OF GROWTH AND DEVELOPMENT**	**5**	**5**

Course Objectives:
1. To learn understand the concepts of economic growth and development.
2. To study the theories of economic growth and development.
3. To understand different growth models.
4. To demonstrate different measurement of economic development
5. To evaluate various policies for economic development.

Course Outcomes:

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

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Classifying various concepts of economic growth and development.	K1, K2
CO-2	Comparing the theories of economic growth and development.	K2, K3
CO-3	Categorizing various models of growth and development.	K3, K4
CO-4	Analysing the measurement of economic development.	K4, K5
CO-5	Evaluating various policies for economic development.	K5, K6

Unit – I: Concepts of Economic Development   (15 Hours)
Economic Development – Economic Development and Growth – Factors of Economic Growth: Economic and Non – Economic – Characteristics of Developing Economies – Economic Backwardness – Human Development Index – Characteristics of Modern Economic Growth.

Unit – II: Theories of Economic Development   (15 Hours)
Growth Vs Development – Marxian Theory – The Schumpeterian Theory – Rostow's stages of Economic Growth – Nurkse's Theory – Lewis Theory – Fei and Ranis Theory – Nelson's Low level Equilibrium Trap – Big Push Theory - balanced and unbalanced Growth.

Unit – III: Growth models   (15 Hours)
The Harrod and Domar Model – Joan Robinson's Model – The Solow Model of Long run growth – Kaldor's Model of growth – The Model of Technical change: Neutral and Non – Neutral – Growth models in Indian planning.

Unit – IV: Measurement for Economic Development   (15 Hours)
Capital Formation: Importance, reasons for low rate of capital formation and sources; Role of Agriculture and Industry – Monetary and Fiscal policies for Economic Development – Price policy – Role of State in Development – Role of Entrepreneurship in Economic Development.

Unit – V: Policy for Development   (15 Hours)
Economic planning and its objectives – Trade Policy in development : (a) import substitution (b) export promotion- Fiscal policy for development: (a) direct Vs indirect taxes (b) pattern and level of taxation – Regional disparities – Role of public sector and Central Bank in Development.

Text Book

1. Misra S.K and V.K.Puri, Economics of Development and Planning (Theory and Practice), Himalaya Publishing House, Mumbai, 2018.

          Unit – 1 - Chapter 2 – P. Nos. 19-34 & Chapter 4 – P. Nos. 53-73.

          Unit – 2 - Chapter 7,8,9,10, 11 – P. Nos. 112-147.

          Unit – 3 - Chapter 13,14,15 – P. Nos. 157-203.

          Unit – 4 - Chapter 2 – P. Nos. 499-524 & Chapter 40 – P. Nos. 560-570.

          Unit – 5 - Chapter 2 – P. Nos. 557-891.

2. Hendrik Van Den Berg, Economic Growth and Development (Third Edition), 2016.

Books for References

1. Debraj Ray. Development Economics. New Delhi, Oxford University Press, 1998.
2. Kausikh Basu. Analytical Development. New Delhi, Oxford University press, 1999.
3. Agarwal.A.N. and Kundanlal. Economics of Development and planning. New Delhi, Vikas Publishing House, 2006.
4. Karnati Lingaiah. Economic Growth and Development Models. New Delhi, Chand & Co. Ltd, 2001.
5. Robert J.Barro and Xavier Salai Martin. Economic Growth. USA, The MIT Press, 2007.

Journals

1. https://www.springer.com/journal/10887/journal of economic growth
2. https://www.journals.uchicago.edu/toc/edcc/current/economicdevelopmentandcultural change /
3. https://www.journals.elsevier.com/journal-of-development-economics
4. https://onlinelibrary.wiley.com/journal/14679361 Reviewofdevelopmenteconomics
5. https://www.journals.elsevier.com/world-development

Web Resources

1. https://nios.ac.in/media/documents/SrSec318NEW/318_Economics_Eng/318_Economics_Eng_Lesson3.pdf
2. https://www.economicshelp.org/blog/57/growth/explaining-theories-of-economic-growth/
3. https://pages.nyu.edu/debraj/Courses/GrDev13/Notes/10dnote.pdf
4. https://www.economicsdiscussion.net/economic-growth/models-economic-growth/models-of-economic-growth-with-diagram-macroeconomics/26622
5. https://hardeebusiness.com/resources/measuring-economic-growth-and-development

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E751	Economics of Growth and Development									5	5
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	1	2	2	1	1.9
CO2		2	3	2	3	2	3	2	3	3	3	2.6
CO3		2	3	2	3	2	2	2	3	2	3	2.4
CO4		3	2	2	2	2	2	3	3	2	3	2.4
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.4
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	E752A	Elective -I DEMOGRAPHY	6	4

Course Objectives:

1. To learn the population growth and economic developed in developing countries.
2. To study the concepts of demography and the vital statistical indicators. .
3. To understand the population census to frame the suitable Government policies.
4. To demonstrate the techniques of population projection.,
5. To evaluate the new population policy and its implementations for development strategy.

Course Outcomes:
After the successful completion of the course, the student will be able to

S.No.	Description	Cognitive Level (K-Level)
CO-1	Classifying population and economic growth in developing and developed countries.	K1
CO-2	Comparing demography and vital statistics.	K2
CO-3	Applying diverse techniques in measurement of population studies.	K4
CO-4	Analyzing the measurement of population projection and aging population.	K5, K6
CO-5	Evaluating different new population policies for growth and development.	K3, K6

Unit - I: Introduction   **(18 Hours)**
Population study and Demography; its relation with other disciplines- Theories of population: Malthusian theory, Optimum theory of population-theory of demographic transition; Historical evidence of population growth in developed and developing countries.

Unit - II: Sources of Demographic Data in India   **(18 Hours)**
Census - Civil registration system and demographic surveys; National family health survey1 and 2 –their relative merits and demerits.

Unit - III: Technique of analysis   **(18 Hours)**
Crude birth rate and Death rate, Standardized birth rate and death rate -Study of fertility: Total fertility rate, gross reproduction rate, and net reproductive rate - Study of marital status - Life table : meaning, columns and uses - Reproductive and child health in India-Temporal and spatial ratio in sex ratio.

Unit - IV: Population projection   **(18 Hours)**
Technique of population projection - Concept of stationary, stable and quasi stationary population, aging of population in India - changes in family structure and old age security.

Unit - V: Population Policy   (18 Hours)

Salient features of Recent Population Census-Evolution of population policy in India, demographic factors and household behaviour – education ,women's autonomy and fertility-population, health, poverty and environmental linkages in India; New population Policy.

Text Books

1. Majumdar P.M., India's Demography, Changing Demographic Scenario in India,Rawat Publications,Jaipur,2017.
2. Bhende A.A and T.R Kanitkar – Principles of population Studies, Himalayan Publishing House, Bombay, 1982
   - Unit – 1   -   Chapter 3, 11 – P. Nos.1-26, 104-136
   - Unit – 2   -   Chapter 2, P. Nos. 27-59
   - Unit – 3   -   Chapter 6, 7– P. Nos. 139-188
   - Unit – 4   -   Chapter 6, 7 – P. Nos. 189-247
   - Unit – 5   -   Chapter 13, 14 – P. Nos. 469-577

Books for References:

1. Agarwal U.D., Population Projection and their Accuracy B.R Publishing Corporation, New Delhi, 1999.
2. Agarwala S.N., India's Population Problems, TATA Mc-Graw Hill,Bombay, 1985
3. Bogue D.J., Principles of Demography, John Wiley, New York, 1971.
4. Bose A. - India's Basic Demographic Statistics, B.R Publishing Corporation, New Delhi, 1996.
5. Census of India, Various Reports – Government of India, New Delhi, 2011.

Journals for References:

1. Journal of population Studies

2. Population association of America

3. Journal of Population Research

4. International Journal of Population Research

5. Scholarly Articles for Population Journals

Web Resources:

1. https//:www.researchgate.net>3223
2. https://suffolk.libguides.com>c.php
3. https://popindex.princeton.edu>int...
4. https://guides.libraries.psu.edu>refe...
5. https://guides.library.appstate.edu>....

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E752 A	Demography									6	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	2	1	2	2	1	1.9
CO2	2	3	2	3	2	3	3	1	3	3	2.5
CO3	1	3	2	3	2	2	2	3	3	3	2.4
CO4	3	1	3	2	2	2	2	1	2	2	2
CO5	3	2	2	2	3	2	3	2	2	3	2.4
Mean Overall Score											2.4
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	**E752B**	**ELECTIVE I: HISTORY OF ECONOMIC THOUGHT**	**6**	**4**

Course Objectives:
1. To learn understand the context of socialistic ideas.
2. To study the ideas of different marginalist schools.
3. To understand the economic ideas of Neo-Classical school.
4. To demonstrate the different economic ideas of pre-independence of India.
5. To evaluate major economists in the post-independence of India to build modern economic ideas.

Course Outcomes:
After the successful completion of the course, the student will be able to

S. No	CO – Statement	Cognitive Level (K – Level)
CO-1	Practicing socialistic ideas of St. Simon, Sismondi, Robert Owen and Karl Marx in economic world today.	**K1, K2**
CO-2	Comparing and contrasting different contributions of marginalists school.	**K2, K3**
CO-3	Analyzing the current macroeconomic debate between Neo-classical and the Keynesian school.	**K3, K4**
CO-4	Interpreting and analyzing the early and modern economic ideas of Kautilya, Thiruvalluvar, Naoraji, Ranade and Gandhi.	**K4, K5**
CO-5	Critically analyzing the applicability of early approaches to planning in relation to the economic world today.	**K5, K6**

Unit - I: Development of Socialistic Ideas   **(18 Hours)**
St.Simon, Sismondi and Robert Owen - Economic Ideas of Karl Marx: Dynamics of social change, Theory of value, Surplus value, Profit and crisis in capitalism.

Unit - II: Marginalists School   **(18 Hours)**
Main Characteristics of Marginalism; Economic Ideas-Jevons, Karl Menger, Walras and Alfred Marshall: role of time in price determination, economic methods, ideas of consumer's surplus, elasticities, external and internal economies, quasi-rent, organization as a factor of production, nature of profits.

Unit - III: Neoclassical School   **(18 Hours)**
Institutionalist Theory of Veblen- Gunnar Myrdal- J.K. Galbraith. J.A.Schumpeter: Role of entrepreneur and innovations, Mrs. Joan Robinson: Imperfect Market C.A. Chamberlin: Monopolistic Competition.

Unit - IV: Economic Ideas of Pre-Independence   **(18 Hours)**
Early economic ideas: Kautilya, Thiruvalluvar; Modern economic ideas: Naoraji, Ranade, R.C. Dutt and M.N. Roy; Economic ideas of Gandhi: Village, Swadeshi, place of machine and labour, cottage industries, trusteeship.

Unit - V: Economic Ideas of Post-Independence   **(18 Hours)**

Ambedkar's Economic ideas - Nehru - J.C.Kumarappa: Early approaches to planning (The National Planning Committee); Gadgil: co-operation as a way of life and strategy of development - J.K. Mehta: Wantlessness – A.K. Sen's economic idea.

Text Books:
1. V. Lokanathan, "A History of Economic Thought", S. Chand & Company Ltd, New Delhi, 2007.
   > Unit I – Chapters 17, 18, 19. P. Nos. 92 - 115.
   > Unit II – Chapters 21, 23. P. Nos. 118 - 127, P. Nos. 132 - 138.
   > Unit III – Chapters 26, 28. P. Nos. 148 - 151, P. Nos. 163 - 164.
   > Unit IV – Chapters 3, 32. P. Nos. 19 - 24, P. Nos. 177 - 221.
   > Unit V – Chapters 32. P. Nos. 177 - 221.
2. S. K. Srivastava, "History of Economic Thought", S. Chand & Company Ltd, New Delhi, 1999.
   > Unit I – Chapter 22, P. Nos. 325 – 355.
   > Unit II – Chapters 17, P. Nos. 257 – 277.
   > Unit III – Chapters 27, P. Nos. 399 - 412
   > Unit IV – Chapters 35, 36, 40, P. Nos. 559 - 570, P. Nos. 571 - 591
   > Unit V – Chapters 39, P. Nos. 617 - 638.

Books for References:
1. Black house. R, "A History of Modern Economic Analysis", Basil Blackwell, Oxford 1985.
2. Ganguli. B.N, "Indian Economic Thought: A 19th Century Perspective", McGraw Hill, New Delhi, 1977.
3. Gide.C. and Rist.G, "A History of Economic Doctrines", George Harrop, London, 1956.
4. Grey, A. and Thomson. A.E., "The Development of Economic Doctrine", Longman Group, London, 1980.
5. Kautilya., "The Arthashastra" (Edited, Rearranged, Translated and Introduced by L.N. Rangaranjan), Penguin Books New Delhi ,1992.

Journals for References:
1. Journal of the History of Economic Thought.
2. The European Journal of the History of Economic Thought.
3. Economic Thought Journal.
4. Journal of Economic Theory
5. Journal of Economic Literature

Web Resources:
1. https://www.britannica.com/topic/socialism
2. https://www.investopedia.com/ask/answers/032515/what-marginalism-microeconomics-and-why-it-important.asp
3. https://www.econlib.org/library/Enc1/NeoclassicalEconomics.html
4. https://www.shcollege.ac.in/wp-content/uploads/NAAC_Documents_IV_Cycle/Criterion-II/2.3.2/kautilya.pdf
5. https://corporatefinanceinstitute.com/resources/knowledge/economics/neoclassical-economics/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E752 B	History of Economic Thought									6	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	1	2	2	1	1.9
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		1	3	2	3	2	1	2	2	3	3	2.2
CO4		3	2	3	1	2	2	2	3	2	3	2.3
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.3
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	**E752C**	**ELECTIVE I: ECONOMICS OF INFRASTRUCTURE**	**6**	**4**

Course Objectives
1. To learn understand the basic concepts of public utility services.
2. To study social physical infrastructural theories.
3. To understand the health care services and new education.
4. To demonstrate the basic amenities and pricing policy in rural and urban areas.
5. To evaluate different forms of social infrastructural services.

Course Outcomes
After the successful completion of the course, the student will be able to

S.No	CO-Statement	Cognitive level (K-level)
CO-1	Relating the basic public utility services.	K1, K2
CO-2	Applying the different public utility services and its development.	K2, K3
CO-3	Analysing the demand and supply of health care and educational services.	K3, K4
CO-4	Examining the basic utility services and pricing.	K4, K5
CO-5	Constructing the social infrastructural services.	K5, K6

Unit – I: Introduction   **18 hours**
Infrastructure and economic development – Infrastructure as a public good – Social and physical infrastructure – Special characteristics of public utilities – Economies of scale of Joint supply – Marginal Cost Pricing vs. other methods of pricing in public utilities; Cross-subsidization – free prices, equity and efficiency.

Unit – II: Communications   **18 hours**
Rate-making in Telephone Utilities – Principles of Decreasing Costs in Telephone Industry – Characteristics of Postal Services – Criteria for Fixation of Postal Rates – Measurement of Standards of Service in Telephone and Postal Utilities – e commerce and cashless economy.

Unit - III: Education and Health   **18 hours**
Education and Economic Growth – Approaches to Educational Planning – The issues in education policy; Health dimensions of development; Determinants of Health – Economic dimensions of health care – Demand and supply of health care – Financing of health care and resource constraints; Inequalities in health – class and gender perspectives.

Unit – IV: Electricity, Gas and Water Supply   **18 hours**
Bulk Supply and Pricing of Electricity – The Relative Economies of Thermal – Hydel and Nuclear Power Plants – The Case for a National Power Grid – Financing Water Utilities – Urban and Rural Water Supply – The Exploitation of Natural Gas – Pricing Problem.

Unit - V: Social Infrastructure   **18 hours**
Organization and Financing of Supply of Social Services – Private vs. Public Sector Financing – Recent debate about the fixation of prices of social services – Development of social services in the successive Indian Plans.

Text Books

1. Barun Kumar D, Infrastructure Economics, Vrinda Publication Pvt. Ltd., New Delhi, 2015.
2. Dutt and Sundaram, Indian Economy, Sultan son Publication, New Delhi, 2020.

     Unit I – Chapters 1, P. Nos. 120-163
     Unit II – Chapters 2, P. Nos. 148-155
     Unit III – Chapters 3, P. Nos. 164-181
     Unit IV – Chapters 4, P. Nos. 164-181
     Unit V – Chapters 5, P. Nos. 164-181

Books for References

1. Dash LN, Economics of Infrastructure, Regal Publications, New Delhi, 2007.
2. Jose A. Gomez-Ibanez and Zhi Liu, Infrastructure Economics and Policy – International Perspectives, Lincoln Institute of land Policy, Columbia, 2022.
3. Crew, M.A. and P.R. Kleindorfer, Public Utility Economics, Macmillan, London, 1979.
4. National Council of Applied Economic Research (NCAER), India Infrastructure Report Policy Implications for Growth and Welfare, NCAER, New Delhi, 1996.
5. Parikh, K.S., India Development Report-1997, Oxford, New Delhi, 1997.

Journals

1. Economic &Political weekly, A Sameeksha trust publication, Mumbai.
2. The UIP Journal of Applied Economics, A Division of the IEFA, Society.
3. Arthaniti Journal of Economic Theory and practice, Sage Publication, New Delhi.
4. Yojana, New Delhi.
5. Indian Journal of Public Administration , Indian Institute of Public Administration ,Sage publication, New Delhi,

Web Resources

1. www.epwrf@epwrf.in
2. www.IUP India.in
3. www.unfpa.org
4. www.telegrapindia.com
5. www.thehindu.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E752 C	Economics of Infrastructure									6	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	2	1	2	2	1	1.9
CO2	2	3	2	3	1	3	3	2	3	2	2.4
CO3	1	3	2	3	2	2	2	3	2	3	2.3
CO4	3	2	3	1	2	2	2	3	2	3	2.3
CO5	3	2	2	2	3	2	3	3	3	2	2.5
Mean Overall Score											2.3
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
I	E753S	**SKILL PAPER: BUSINESS COMMUNICATION SKILLS**	2	2

Course Objectives:
1. To learn the importance of the communication process.
2. To study the different business communication skills.
3. To understand the oral and presentation skills.
4. To demonstrate the personal and business letters.
5. To evaluate the internal and external communications.

Course Outcomes:
After the successful completion of the course, the student will be able to

S. No.	Description	Cognitive Level (K-Level)
CO-1	Identifying the importance of the communication process.	K1, K2
CO-2	Distinguishing the different business communication skills.	K2, K3
CO-3	Applying the oral and presentation skills.	K3, K4
CO-4	Assessing the personal, business letters.	K4, K5
CO-5	Practicing the internal and external communications.	K5, K6

Unit – I: Introduction to Communication   **(6 Hours)**
Purpose of Communication – Process of Communication – Importance of Communication in Business – Difference between Technical and General Communication – Barriers to Communication – Types of Communication.

Unit – II: Communication for Employment   **(6 Hours)**
Dialogues for daily communication: Spotting the errors and Reading comprehension – Interview skills – Group discussion – Debate and Tele Interviews. Types of Interviews – Listening skills (Testing through passages. Contents of Good Resume – Guidelines for Writing Good Resume – Different types of Resumes – Need for a cover letter for applying Job – Format of Cover Letter – Different types of Cover Letters.

Unit – III: Presentation Skills   **(6 Hours)**
Speaking skills – Power point presentation techniques – Preparation of Welcome address, Master of Ceremony, Chief Guest Introduction, Vote of Thanks. Report writing: features of writing good report – purpose of report writing – importance of communication in report writing – Guidelines for report writing – steps in report writing – structure of report – types of reports and different formats.

Unit – IV: Writing Business Letter   **(6 Hours)**
Importance of Business Letters – Difference between Personal and Business Letters – Structure and format of business letters – Types of Business Letters.

Unit – V: Communication in Organizations   **(6 Hours)**
Internal Communication – Stake holders in Internal Communication – Channels of Internal Communication – External Communication – Stake holders in External Communication – Channels of External Communication.

Text Books
1. Thill, John and Bove Courtland, Business communication essentials, A skills-Based approach to vital business English, Fourth Edition, Pearson Publishers, India, 2011
             Unit I: Chapters 1, 4 to 10
             Unit II: Chapters 14 Page No 206- 221
             Unit III: Chapter 12 Page No 164 to 174
2. Singha K K, Business communication, Golgotia publishers, New Delhi, 2010 Third Edition.
             Unit I: Chapter 2 Page No 9 to 12
             Unit V: Chapter 4 Page No 19 to 24

Books for References
1. Scott McLean, Business Communication for Success, Flat World Knowledge, Inc., 2010.

2. Adir John, Effective Communication, Pan Macmillan Ltd, London, 2003
3. Ajmani. J. C. Good English: Getting it Right, Rupa Publication, New Delhi, 2012
4. Bonet Diana, The Business of Listening: Third Edition, Viva Books, New Delhi, 2004
5. Bovee, Courtland.L, Jhon. V Thill & Barbara E Schatzman, Business Communication Today: Tenth Edition, Prentice Hall, New Jersy, 2010.

Journals
1. International Journal of Business Communication
2. Journal of Business and Technical Communication
3. The Journal of Business Communication
4. Business Communication Research and Practice
5. Business Communication Quarterly

Web Resources
1. https//:www.bookboon.com/business communication.
2. https://www.elcom.com.au/resources/blog/15-essential-communication-platforms-and-software-to-use
3. https://www.pixelmattic.com/blog/the-best-online-communication-tools-for-your-business/
4. https://www.googleadservices.com
5. https://www.swissdesignnetwork.org/role-website-business/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
I	E753 S	**Business Communication Skills**									2	2
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	1	2	2	1	1.9
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		2	3	3	3	2	3	2	3	3	3	2.7
CO4		3	2	3	3	2	2	2	3	2	3	2.5
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.6
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	**II CA (50)**	
Remember	10	10	20
Understand	10	10	30

Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	**E855**	**ADVANCED MICRO ECONOMIC THEORY-II**	**6**	**5**

Course Objectives:
1. To learn relevant perfect market structure.
2. To study the nature of imperfect market structure.
3. To understand factor pricing under perfect market structure.
4. To demonstrate factor pricing under imperfect market structure.
5. To evaluate knowledge on general equilibrium and welfare economics.

Course Outcomes:
After the successful completion of the course, the student will be able to

S.No	CO-Statement	Cognitive level(K-level)
CO-1	Understanding the relevance of perfect market structure.	K1, K2
CO-2	Comparing the nature of imperfect market structure.	K2, K3
CO-3	Analysing the factor pricing in perfect competitive market.	K3, K4
CO-4	Examining the trade union and rent theories	K4, K5
CO-5	Evaluating the general equilibrium theory and welfare economics.	K5 ,K6

Unit – I: Price and Output determination under Perfect Competition   (18 hours)
Perfect Competition**:** Features – Price and Output determination of Firm and Industry in Short run and Long run – MC – MR Approach – Role of Time elements in Price determination – Economic Efficiency of perfect competition.

Unit – II: Price and Output determination under Imperfect Competition   (18 hours)
Monopoly: Features – Price and Output determination of Firm and Industry in Short run and Long run – Price Discrimination – Types – Control of Monopoly. Monopolistic Competition: Characteristics – Individual and Group Equilibrium – Theory of Excess capacity – Selling Cost and Advertising Cost. Oligopoly: Features – Collusive and Non-Collusive Oligopoly – Kinked demand Curve Theory of Oligopoly – Cournot Duopoly Model.

Unit – III: Factor Pricing under Perfect Competition   (18 hours)
Product and Factor Pricing – Personal and Functional Distribution – Concepts of Factor Productivity – Physical Productivity (PP) – Revenue Productivity (RP) – Factor Cost under Perfect Competition – Marginal Productivity Theory of Distribution.

Unit – IV: Factor Pricing under Imperfect Competition **(18 hours)**

Wage determination under Monopsony – Exploitation of factors under different forms of market Wage determination Monopsony in Factor market Perfect competition in Product in Product market, Monopsony in Factor market and monopoly in Product market – Role of Trade Union and Collective Bargaining – Ricardian Theory of Rent, Quasi Rent and Economic Rent

Unit – V: General Equilibrium and Welfare Economics **(18 hours)**

Meaning – Edgeworth Box and General Equilibrium of Exchange, Production and Distribution – Pareto Criterion of Social Welfare – Conditions of Pareto Efficiency – Critical evaluation of Pareto Criterion and Pareto efficiency.

Text Books

1. Koutsoyiannis. A. Modern Microeconomics 2nd Edition, Macmillan Publications. London, 2000.
2. Hall. Varian, Intermediate Microeconomics A Modern Approach, 8th Edition, Affiliated East-West Press, 2010.
    Unit I – Chapters 5, P. Nos. 154-170
    Unit II – Chapters 6, P. Nos. 172-191
    Unit III – Chapters 15, P. Nos. 330-359
    Unit IV – Chapters 16, P. Nos. 360-393
    Unit V – Chapters 5, P. Nos. 185-527

Books for References

1. Ahuja H.L, Advanced Economic Theory, Micro Economic Analysis, 14th Revised Edition. S.Chand & Company Ltd., New Delhi, 2004.
2. Bell and Todaro.M.P. Economic Theory. London, Mac millan, 1980.
3. Gregory Mankiw. Principles of Economics. Australia, Thomson, 1998.
4. Samuelson.P.A, Economics. 5th Ed, New Delhi, TATA McGraw Hill, 1985.
5. Stonier.A.W and D.C Huge. A text book of Economic Theory. London, Longmans Green, 1980.

Journals

1. J. Roberts and H. Sonnenschein, (1976), "On the Existence of Cournot Equilibrium without Concave Profit Functions," Journal of Economic Theory, vol. 13, pp. 112-117.
2. S. Grossman, (1981), "Nash Equilibrium and the Industrial Organization of Markets with Large Fixed Costs," Econometrica, vol. 49, pp. 1149-1172,
3. H. Varian, (1981), "A Model of Sales," American Economic Review, vol. 70, no. 4, pp. 651-659.
4. Games and Economic Behavior, ELSEVIER.
5. International Journal of Game Theory (INT J GAME THEORY). Springer.

Web Resources

1. http://www.stern.nyu.edu/networks/Roberts_Sonnenschein_On_the_Existence_of_Cournot_ Equilibrium.pdf
2. http://www.stern.nyu.edu/networks/phdcourse/Grossman_S_Nash_equilibri um.pdf.
3. http://www.stern.nyu.edu/networks/phdcourse/Dixit_A_model_of_duopoly.Pdf
4. http://www.sapub.org/journal/aimsandscope.aspx?journalid=1021
5. https://www.journals.elsevier.com/games-and-economic-behavior

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course	Hours	Credi

										Mean Score of COs
II	E855		Advanced Micro Economic Theory – II						6	5
	Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	2	2	2	1	2	2	1	1.9
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	1	3	2	3	2	2	2	3	3	3	2.4
CO4	3	2	3	3	2	3	2	3	3	3	2.7
CO5	3	2	2	2	3	3	3	3	3	3	2.7
Mean Overall Score											2.7
Result											**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	E856	ADVANCED MACRO ECONOMIC THEORY – II	6	4

Course Objectives
1. To learn economic fluctuations and its related theories.
2. To study about policy measures to control trade cycle.
3. To understand macroeconomic policies in present scenario.
4. To demonstrate in decision making to achieve desired economic goals.
5. To evaluate understand macroeconomic policies.

Course Outcomes
After successful completion of the course, the student will be able to

S. No	CO – Statement	Cognitive Level (K-Level)
CO-1	Understanding about economic fluctuations.	K1, K2

CO-2	Applying policy measures to control trade cycle.	K2, K3
CO-3	Expertzing in principles of macroeconomics.	K3, K4
CO-4	Evaluating modern macroeconomic theories and policies.	K4, K5
CO-5	Creating macroeconomic variables at national and global level.	K5, K6

Unit - I: Inflation and Deflation (18 hours)

Inflation: Causes – Types – Methods of measuring Inflation – Economic Effects of Inflation - Theories of Inflation - Measures to control Inflation - Anti-inflation Policy – Deflation and its Effects – The difference between inflationary and deflationary gap - Phillip's Curve

Unit - II: Trade Cycle (18 hours)

Trade Cycle: Characters – Phases –Theories: Hicks – Samuelson - Cobweb – Schumpeter – Policy Measures to control Trade Cycle

Unit – III: The Modern Macro Economics (18 hours)

Radicalism – The Radicalists Attack on Keynesian Macro Economics – Rational Expectations – The Supply Side Economics: Features and it's Central Theme – It`s Major Criticisms – Monetarism and Fiscalism : Similarities and Differences between them.

Unit - IV: The Basic Growth Models in Macro Economics (18 hours)

Significance – Classifications – Uses and Limitations of growth Models – The Classical Model of Economic Growth – Marxian Growth Theory – Schumpeterian Theory –Harrod-Domar Growth Models – Neo Classical Growth Model – Endogenous Growth Model.

Unit - V: Macro Economic Policy (18 hours)

Income policy–Monetary policy and Fiscal policy- Targets – Instruments – Objectives – problems of coordination of Macro Economic policy objective – Lags in Effects - Demonetization of Currency — Present Macro Economic Scenario in India.

Text Books

1. Gupta G S. "Macroeconomics Theory and Application" McGraw Hill Education, 2017.
2. Edward Shapiro, Macro Economic Analysis, 5th Edition, Harcourt Brace, Jivanocich Inc, New York, 2013.
   Unit I: Chapter 4- P. Nos.54
   Unit II: Chapter 5 – P. Nos. 68
   Unit III: Chapter 8, P. Nos. 79
   Unit IV: Chapter 11 – P. Nos. 112
   Unit V: Chapter 13 – P. Nos. 137

Books for References

1. Ahuja H.L. "Macro-Economic Analysis "Chand and Sons Publications, New Delhi, 2018.
2. Bradley R. Schiller. The Macro Economy Today, 11th Edition, Tata McGraw-Hill Edition, New Delhi.
3. Dwivedi D.N., Macro Economic Theory and Policy, Tata McGraw – Hill Publishing Company Ltd, New Delhi, 2005.
4. Seth M.L., Macro Economics, Lakshmi Narayan Agarwal Educational Publishers, Agra, 2017.

5. Jhingan M. L., Macro Economic Theory, Twelfth Edition. Vrinda Publications, Pvt Ltd, Delhi, 2017.

Journals
1. Journal of Macroeconomics.
2. South Asian Journal of Macroeconomics and Public Finance.
3. Quarterly Journal of Economics.
4. Journal of Political Economy.
5. Journal of Economic Growth.

Web Resources
1.   https://www.freakonomics.com/
2.   https://www.cbsnews.com/moneywatch/
3.   https://hbswk.hbs.edu/
4.   https://economics.mit.edu/
5.   https://www.economy.com/dismal/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
II	**E856**	**Advanced Macro Economic Theory – II**									**5**	**4**
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1		3	2	2	2	2	3	1	2	2	1	**2**
CO2		2	3	2	3	2	3	3	3	3	3	**2.7**
CO3		3	3	2	3	2	2	2	2	3	3	**2.5**
CO4		3	2	3	3	2	2	2	3	2	3	**2.5**
CO5		3	2	3	3	3	2	3	3	3	3	**2.8**
Mean Overall Score												**2.5**
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	**II CA (50)**	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	**E857**	**MATHEMATICS FOR ECONOMISTS**	**5**	**4**

Course Objectives:
1. To learn matrices and its different components.
2. To study differentiation with various economic theories.
3. To understand the strategies of game theory.
4. To demonstrate about input-output analysis.
5. To evaluate about the integration calculus.

Course Outcomes

After the successful completion of the course, the student will be

Sl. No.	CO – Statements	Cognitive Level (K-Level)
CO – 1	Illustrating of matrices in various economic methods.	K1, K2
CO – 2	Expertising of differentiation on diverse economic theories.	K2, K3
CO – 3	Constructing of game theory models with business strategy.	K3, K4
CO – 4	Evaluating the input-output models.	K4, K5
CO – 5	Composing of integral calculus in economic theories.	K5, K6

Unit - I: Matrix Functions (15 Hours)

Definition, types of matrices, addition and subtraction, matrix multiplication, transpose of a matrix, determinant of a matrix, inverse of matrix, Cramer's rule for solving simultaneous equations

Unit - II: Differentiation (15 Hours)

Demand function and curve, Total Revenue, Average Revenue and Marginal Revenue functions and curves. Total cost, Average cost and Marginal cost functions and curves. Elasticity of demand, Profit function: Maxima and Minima.

Unit – III: Game Theory (15 Hours)

Meaning, Classification, strategy of Game theory, Saddle point solution – Odds method and Dominance Method, limitations.

Unit – IV: Input –Output Analysis (15 Hours)

Meaning, types and strategy of input –output analysis – Simon Hawkin conditions – Production function – dynamic input-output model, limitations.

Unit – V: Integration (15 Hours)

Meaning and rule of Integration – integration by parts – Properties and application of integration in Economic theory – Costs, Revenue, Consumer's Surplus and Producer's Surplus.

Text Books
1. Edward T. Dowling, Mathematical Methods (Schaum's Series), McGraw Hill Publications, New Delhi, 2003.

2. Madnani G.M.K., and Mehta B.C., Mathematics for Economists, Sultan Chand & Sons, 9th Edition, 2008.

       Unit 1 – Chapter 10 & 11, Page No- 130
       Unit 2 – Chapter 2, 3 & 9, Page No- 10, 40
       Unit 3 – Chapter 4, Page No- 65
       Unit 4 – Chapter 16, Page No- 120
       Unit 5 - Chapter 16 & 17, Page No- 134

Books for References
1. Vittal P.R, Business Mathematics and Statistics, Margham Publications, Chennai, 2017.
2. Chiang. A.C, Fundamentals methods of Mathematical Economics, McGraw Hill Publications, New Delhi, 2002.
3. Agarwal C.S and Joshi R.C, Mathematics for students of Economics, New Academic Publications, 2008.
4. Kam Yu, Mathematical Economics: Prelude to the Neoclassical Model, Springer Publications, New Delhi, 2020.
5. Lokesh Boro, Mathematical Economics, Bidya Bhawan Publishers private Ltd, India, 2019.

Journals
1. Journal of Mathematical Economics, Elsevier.
2. Mathematics and Financial Economics, Springer.
3. Mathematical Economics: Application of Fractional Calculus, MDPI
4. International Journal of Game Theory, Springer.
5. Journal for Quantitative Economics, Springer.

Web Resources
1. https://www.economicsnetwork.ac.uk/teaching
2. http://www.math.uni-magdeburg.de
3. http://www.parisschoolofeconomics.com
4. https://mjo.osborne.economics.utoronto.ca
5. https://www.haverford.edu/mathematical-economics

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
II	E857	Mathematics for Economists									5	4
		Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	2	2	2	2	2.1
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		3	3	2	3	2	2	2	3	3	3	2.6
CO4		3	2	3	3	2	2	2	3	2	3	2.5
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.6

Result	High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	**E858**	**MANAGERIAL ECONOMICS**	**5**	**5**

Course Objectives
1. To learn enhance managerial principles with business activities.
2. To study the theoretical knowledge towards firm.
3. To understand the pricing practices in managerial aspect.
4. To demonstrate about the project analysis.
5. To evaluate the techniques of investment appraisal.

Course Outcomes
After the successful completion of the course, the student will be

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Understanding the different managerial principles in business.	K1, K2
CO-2	Practicing behavioral theories in decision-making.	K2, K3,
CO-3	Implying pricing practices.	K3, K4
CO-4	Analysing the risk and uncertainty situation.	K4, K5
CO-5	Assessing sales promotion strategies and investment appraisal.	K5, K6

Unit – I: Principles of Managerial Economics   **(15 Hours)**
Definition – Nature and Scope – Principles of Managerial Economics: The Concept of Incremental Cost- Opportunity Cost –Time Perspective – The Discounting Principle –The Equi - Marginal Principle – The Discounting Principle –Relation with other Disciplines like Marketing, Finance and Personnel.

Unit – II: Modern Managerial and Behavioral Theories of Firm   **(15 Hours)**
Theory of Baumol's Sales Revenue Maximization –O. Williams Theory – Marry's Theory on Managerial Enterprise – Behavioral Theories of Firms: Simon Theory – Cyert and Marsh's Theories.

Unit – III: Advanced Areas in Pricing Practices   **(15 Hours)**
Peak-Load Pricing – Administered Prices – Dual Pricing –Pricing Behaviors in Large Enterprises and Small Businesses – The Pricing Process: Individuals Concerned with Pricing Decisions – Multistage Process – Pricing Considerations.

Unit – IV: Risks and Uncertainties in Decision and Project Analysis   **(15 Hours)**
Business Decision Making – Certainty Risk and Uncertainty Risk – Pay off Matrix – Sources of Business Risks – Steps involved in the analysis of Risky Decisions – Risk Premium and Risk Adjustment – Certainty Equivalent Approach – Decision Tree Approach – Sensitivity Analysis.

Unit – V: Advertising and Modern Techniques in Investment Appraisal   **(15 Hours)**
Advertisement: Meaning- Importance and Nature – Sales Relationship – Budgeting in Advertisement with different Media – Optimum Level of Advertisement – Economic Effect of Advertisement - Modern Techniques in Investment Appraisal: Cash Flow Approach – Net

Present Value Criteria – Internal Rate of Return – Profitability Index – The Traditional Methods of Appraisal.

Text Books
1. Jeffrey M. Perloff, Managerial Economics and Strategy, 2nd Edition, Pearson Publication, 2017
2. Dominick Salvatore, Managerial Economics, 9th Edition, Oxford University Press, New York, 2020.

Unit – I	Page. No: 3 - 70
Unit – II	Page. No: 11-15, 584
Unit – III	Page. No: 453-462,
Unit – IV	Page. No: 516-555
Unit – V	Page. No: 341

Books for Reference
1. Christopher R. Thomas, Managerial Economics, 12th Edition, Richard D. Irwin, Inc., 2016.
2. Luke M Froeb, Managerial Economics, 4th Edition, Cengage Learning, 2016.
3. Samuelson, Managerial Economics, 8th Edition, John Wiley & Sons, Inc., 2015.
4. Ahuja H.L., Business Economics, Sultan Chand and Company, Pt. Ltd. New Delhi, 2017.
5. Varshney R.L., and Maheshwari K.L., Managerial Economics, Sultan Chand and Sons, New Delhi, 2019.

Journals
1. Journal of Business Economics and Management, Taylor & Francis.
2. Journal of Economics and Business, Elsevier.
3. Journal of Business Economics, Springer.
4. European Journal of Management and Business Economics, Emerald Publishing Limited.
5. Managerial and Decision Economics, Wiley.

Web Resources
1. https://www.edx.org/learn/managerial-economics
2. https://libraries.ou.edu/business
3. https://onlinelibrary.wiley.com/journal/10991468
4. https://www.coursera.org/courses?query=managerial%20economics
5. https://libguides.uttyler.edu/c.php?g=948327&p=6838214

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
II	E858	Managerial Economics									5	5
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	3	2	2	2	1	2	2	1	2
CO2		2	3	2	3	2	3	3	3	3	3	2.7

CO3	3	3	2	3	2	2	3	3	3	3	2.7
CO4	3	2	3	2	2	2	2	3	2	3	2.4
CO5	3	2	3	2	3	2	3	3	3	3	2.7
Mean Overall Score											2.7
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	**E859A**	**ELECTIVE II: INDUSTRIAL ECONOMICS**	**6**	**4**

Course Objectives:
1. To learn the fundamentals of Industrial Economics.
2. To study different theories in Industrial location.
3. To understand Indian industrial growth and pattern.
4. To demonstrate industrial labour legislation and labour market.
5. To evaluate industrial concentration and its diversification.

Course Outcomes:
After the successful completion of the course, the student will be

S.No.	Description	Cognitive Level (K-Level)
CO-1	Understanding the fundamental ideas in Industrial Economics.	K1, K2
CO-2	Applying different theories of Industrial location.	K2, K3
CO-3	Comparing the Indian industrial growth and pattern.	K3, K4
CO-4	Appraising of industrial labour legislation and labour market.	K4, K5
CO-5	Assessing the industrial concentration and analyze the diversification.	K5, K6

Unit - I: Industrial Concepts (18 Hours)
Scope and objectives of industrial economics - Classification of industries - organization of a firm- ownership, control and objectives of the firm.

Unit - II: Industrial Location (18 Hours)
Nature and measurement of market concentration - indices of concentration - Theories of industrial location- Weber and Sargent Florence - factors affecting location - Product pricing. Theories and empirical evidence on Mergers, Acquisitions and Diversification.

Unit - III: Indian Industrial Growth and Pattern (18 Hours)
Recent industrial policy of India - Role of public and private sectors, recent trends in Indian industrial growth, MNCs and transform of technology, liberalization and privatization, regional industrial growth in India.

Unit – IV: Industrial Labour (18 Hours)
Structure of industrial labour - employment dimensions of Indian industry- industrial legislation; industrial relations; Exit policy and social security, wages and problems of bonus- labour Market reforms.

Unit - V: Industrial Concentration (18 Hours)
Concepts and measurement; extents, causes and likely effects of concentration; analysis of diversification in industry, Rationalization: aspects – objectives – need – facilities – problems; Automation: benefits – problems – guidelines.
Text Books
1. Roger, Clark, Industrial Economics, New York Blackwell Publishers, 2013.

Unit I: Chapters 1,3 Page No 1 to 12, 35 to 64
Unit II: Chapters 7,8,17 Page No 185 to 226, 474 to 496
Unit III: Chapter 18 Page No 497 to 517
Unit IV: Chapter 19 Page No 518 to 534
Unit V: Chapter 7 Page No 94 to 112

2. Jotwani, Kiran, Industrial Economics, Nirali Prakashan Advancement of Knowledge, Mumbai, 2016.
   Unit I: Chapter 1 Page No1.1 to 1.16, Chapter 5 Page No 5.1 to 5.6
   Unit II: Chapter 2 Page No 2.1 to 2.26
   Unit III: Chapter 5 Page No 5.1 to 5.38 Chapter 5 Page 5.7 to 5.23

Books for References

1. Barthwal R.R, Industrial Economics, 4th Edition, New Age International Pvt. Ltd., , New Delhi, 2021.
2. Ahluwalia .J, Industrial Growth in India, Oxford University Press New Delhi, 1985.
3. CherunilamF,IndustrialEconomics,Indian Perspective 3rd edition, Himalya publishing house Mumbai, 1994.
4. Desai B. Industrial Economy in India,3rd edition, Himalaya Publishing House, Mumbai, 1999.
5. Kuchhal S.C. Industrial Economy of India 5th edition Chaitanya publishing house Allahabad. 1980.

Journals

1. The Journal of Industrial Economics
2. International Journal of Industrial Organization
3. Journal of Industrial Economics
4. Journal of Industrial Economics
5. Industrial and Corporate Change

Web Resources

1. https://indecon.com/
2. https://egyankosh.ac.in/handle/123456789/3349
3. https://www.slideshare.net/attrimahesh/industrial-economics
4. https://aiu.edu/publications/student/english/industrial%20economics.html
5. https://elearning15.unibg.it/course/view.php?id=889

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
II	E859 A	Industrial Economics									6	4
		Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	1	2	2	1	1.9
CO2		2	3	2	3	2	2	3	3	2	3	2.5
CO3		1	3	2	3	2	2	2	3	3	3	2.4
CO4		3	2	3	2	1	2	2	3	2	3	2.3
CO5		3	2	2	2	3	2	3	2	3	3	2.5
Mean Overall Score												2.4
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	**E859B**	**ELECTIVE II: ECONOMICS OF URBANISATION**	**6**	**4**

Course Objectives:
1. To learn the structure of urban economics.
2. To study the theories of urban economics.
3. To understand the trends in urban housing and labour market.
4. To demonstrate about the problems of urbanisation.
5. To evaluate the modern approach of growth strategies.

Course Outcomes:
After the successful completion of the course, the student will be

S.No.	Description	Cognitive Level (K-Level)
CO-1	Understanding the nature and structure of urban economics.	K1, K2
CO-2	Examining the theoretical knowledge of urban economics.	K2, K3
CO-3	Applying suitable policies in upgrading the structure of urbanization.	K3, K4
CO-4	Assessing appropriate policies in urbanization problems.	K4, K5
CO-5	Evaluating the government policies on various aspects of urban development.	K5, K6

Unit – I: Introduction to Urban Economics   **(18 Hours)**
Nature and scope of urban economics – structure and growth of urban economy – urban public services – Growth of urban Economy.

Unit – II: Growth of Urbanization and Theories   **(18 Hours)**
Urban growth – Central place theory and its application to the study of urban growth – the urban economic base and urban growth – the communication theory of urban growth – City size and urban growth – Urban spatial structure – Concentric zone hypothesis – the radial sector theory – the multiple Nuclei hypothesis.

Unit – III: Urban Housing, Labour Market and Poverty   **(18 Hours)**
Housing market imperfection – Trends in slum housing – Tearing down the slums. Urban labour market: Determination of labour income-wage differentials – The culture of urban poverty – Measures of urban poverty – The causes of urban poverty - Public policies for reducing urban poverty – macroeconomic policies – Maintenance policies – Negative income taxes.

Unit – IV: Problems of Urbanization   **(18 Hours)**
Urban development problems in India – Land prices and land speculation – Urban land celling – Congestion and urban transport pricing policy – Cost and supply of alternative urban transport system.

Unit – V: Urban Growth Strategies (18 Hours)

An approach to metropolitan planning in developing countries – National urbanization policy with reference to India – Concept of smart and satellite cities.

Text Books
1. Arthur O' Sullivan. Urban Economics, McGraw Hill Publications, New York, 2000.

   Unit I: Chapters 1, Page No 2 to 12
   Unit II: Chapters 6, Page No 139 to 167
   Unit III: Chapter 12, Page No 335 to346
   Unit IV: Chapter 2, Page No 15 to 38.
   Unit V: Chapter 7 Page No 94 to 112

2. Odeyar D. Heggade, Urban Development in India, Mohit Publications, New Delhi, 1998.

Books for References
1. Gaur K.D, Economics of Urbanisation, PA Publisher, 2004
2. Gaur K.D., Rita Bakshi, Meenu Agarwal, Economics of Urbanisation, PA Publisher, 2004.
3. Holger Sieg, Urban Economics and Fiscal Policy, Princeton Publishers, USA, 2020.
4. Edwin S.Mills & Bruce W. Hamilton, Urban Economics, Scott Foresman and Company, Glenview, Illionis Boston, London, 2000.
5. Alan Gilbert & Josef Gugler, Cities, Poverty, and Development, Oxford University Press, London, 2000.

Journals
1. Canadian Journal of Economics Revue canadienne d economique, Wiley
2. The Journal of Urbanisation, Indian Institute for Human Settlements, Sage
3. Journal of Urban Management, Elsevier
4. International Journal of Urban Sustainable Development, Taylor & Francis.
5. Journal of Urban Planning and Development, American Society of Civil Engineers.

Web Resources
1. https://www.lse.ac.uk/resources/calendar.bak/courseGuides/GY/2015_GY400.htm
2. https://eprints.whiterose.ac.uk/
3. https://www.dawn.com/news/812258/economics-of-urbanisation
4. https://www.sciencedirect.com/
5. https://www.researchgate.net/publication

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course		Hours	Credit
II	E859 B	Economics of Urbanisation		6	4
	Programme Outcomes (PO)		**Programme Specific Outcomes (PSO)**	**Mean Scores of**	

		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	COs
CO1		3	2	2	2	2	2	1	2	2	1	1.9
CO2		1	3	2	3	2	3	3	2	3	3	2.5
CO3		2	3	2	2	2	2	2	2	3	2	2.2
CO4		3	1	3	2	2	1	2	3	2	3	2.2
CO5		3	2	2	2	3	2	3	3	2	3	2.5
Mean Overall Score												2.2
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	**CA Tests (Marks Allotment)**		**Term End Exam (100) Marks Allotment**
	I CA (50)	**II CA (50)**	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	**E859C**	**ELECTIVE II: ECONOMICS OF GENDER AND DEVELOPMENT**	**6**	**4**

Course Objectives:
1. To learn feminist economics and challenges.
2. To study the importance of women and labour market.
3. To understand the role of technology for women empowerment.
4. To demonstrate social security and gender policies.
5. To evaluate gender and the relevance of different policy.

Course Outcomes

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

S. No.	CO – Statement	Cognitive Level
CO-1	Understanding the concepts of gender economics and its challenges.	K1, K2
CO-2	Identifying the nature of labour market for women	K2, K3
CO-3	Applying gender relations for developmental process.	K3, K4
CO-4	Apprising social security and protection measures for women.	K4, K5
CO-5	Creating ideas about the different gender policies.	K5, K6

Unit – I: Introduction and Conceptualization of Gender Studies: **(18 hours)**
Importance and concepts of women Studies- Women in patriarchal and matriarchal societies and structures, relevance to present day society in India; analysis of women's work. Valuation of productive and unproductive work; visible and invisible work; paid and unpaid work; economically productive and socially productive work, Female contribution to National Income.

Unit – II: Women and Labour Market   **(18 hours)**
Factors affecting female entry in labour market; Supply and demand for female labour in developed and developing countries, Female work participation in various sectors of Indian Economy. Wage differentials in female activities; Determinants of wage differentials, gender, education, skill, productivity, efficiency, opportunity.

Unit – III: Women and Technology   **(18 hours)**
Women, Technology and Environment: Impact of technological development and modernization on women's work participation; various sectors agriculture, non-agriculture, rural activities, small and cottage industries and organized industry; Role of new technologies in helping women.

Unit – IV: Social Security and Protection   **(18 hours)**
Social Security and Social Protection for Women: entitlements ensuring economic independence and risk coverage, access to credit and insurance markets; Role of voluntary organizations, self-help groups; Schemes for safety net for women; Need for female labour unions; Affirmative action for women and improvement in their economic and social status.

Unit – V: Gender and Policy   **(18 hours)**

Gender Development Policies and Governance: Gender and development Indices; Mainstreaming gender into development policies; Gender sensitive governance; Paradigm shifts form women's well being to women's empowerment; Democratic decentralization (pantheist) and women's empowerment in India.

Text Books
1. Joyce Jacobsen, The Economics of Gender, 3rd Edition, Wiley- Blackwell, 2007.
   Unit I: Chapters 2, Page No 33 to 53
   Unit II: Chapters 3, Page No 67
   Unit IV: Chapter 10, Page No 333
   Unit V: Chapter 1 Page No 1 to 19
2. Amartya Sen, A.K., Gender and Cooperative Conflicts in Tinker (Ed.) Persistent Inequalities: Women and World Development, Oxford University Press, New York, 1990.
   Unit III: Chapter 3, Page No 10 to 14

Books for References
1. Mishra, S., Voluntary Action in Health and Population: The Dynamics of Social Transition, Sage Publications, New Delhi, 2000.
2. Amsden, A.H (Ed), The Economics of Women and Work, Penguin, Harmondsworth. 1980.
3. Seth, M., Women and Development: The Indian Experience, Sage Publications, New Delhi. 2000.
4. Srinivasan K., India: Towards Population and Development Goals, Oxford University Press, New Delhi. 1998.
5. Wazir, R., The Gender Gap in Basic Education: NGOs as Change Agents, Sage Publications, New Delhi. 2000.

Journals
1. Indian Journal of Gender Studies.
2. The Journal of Economic Education.
3. Journal Feminist Economics.
4. Journal Gender and Society.
5. Journal Psychology of Women Quarterly.

Web Resources
1. https://scholar.google.co.in
2. https://www.researchgate.net
3. http://www.owl.ru
4. https://micromasters.mit.edu/dedp
5. http://www.unece.org/stats/gendner/web

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course		Hours	Credit
II	E859 C	**Economics of Gender and Development**		6	4
	Programme Outcomes (PO)		**Programme Specific Outcomes (PSO)**		**Mean Scores of COs**

	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	2	1	2	2	1	1.9
CO2	2	3	2	3	2	2	3	3	3	3	2.6
CO3	1	3	2	3	2	2	2	2	3	3	2.3
CO4	3	2	1	2	2	2	2	3	2	3	2.2
CO5	3	2	2	2	3	2	3	3	2	3	2.5
Mean Overall Score											2.3
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
II	E860S	Entrepreneurship Training Skills	2	2

Course Objectives:
1. To learn the importance of entrepreneurship for economic development.
2. To study personal creativity and entrepreneurial initiatives.
3. To understand business ideas for the project appraisal.
4. To demonstrate marketing strategies and institutional finance.
5. To evaluate the various benefits of small scale industry.

Course Outcomes:
After the successful completion of the course, the student will be

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Understanding the resources for business enterprise.	K1, K2
CO-2	Organising programs to develop the entrepreneurial activities.	K2, K3
CO-3	Preparing business project proposals for new business.	K3, K4
CO-4	Applying industrial finance for marketing.	K4,K5
CO-5	Creating innovative ideas for new business initiatives.	K5, K6

Unit – I: Introduction to Entrepreneurship   (6 Hours)
Definition and structure - Entrepreneurial culture – Origins – Barriers – Classification and Types of Entrepreneurs – Entrepreneurial skills – Micro credit and Entrepreneurial Development.

Unit – II: Entrepreneurial Development Programmes   (6 Hours)
Objectives – Evolution of EDP – Developments of Women Entrepreneurs, Entrepreneurial Development Training – Institutions involved in Entrepreneurs Training – Role of SIDCO – DIC – Various Consultancy Organizations.

Unit – III: Project proposal   (6 Hours)
Meaning and importance – Project identification – Contents of a Project Proposal – Format of a Report – Project Appraisal – Feasibility Analysis.

Unit – IV: Marketing and Industrial Finance   (6 Hours)
Methods of Marketing – Market Segmentation – Marketing Channels – Functions of Marketing Channels – Marketing Consortium – Role and functions of IFCI – SIDBI – IDBI – ICICI – TIIC – Other Industrial Finance.

Unit – V: Small Scale Industry   (6 Hours)
Steps to Starting Small Business – Selection – Registration – Tax Benefits to Small Scale Industry – Assistance – Government Policy on Small Scale Enterprises.
Note: write a mini project about profile and performance of an entrepreneur. (max. 20 – 25 pages) Internal component.

Text Book

1. Anil Kumar S, Entrepreneurship Development, New Age International Pvt. Ltd., New Delhi, 2021.
2. Khanka S.S, "Entrepreneurial Development" 4th Edition, S.Chand and Company Ltd., New Delhi, 2020.

Unit-I	-	Chapter 1 and 2
Unit-II	-	Chapter 12
Unit-III	-	Chapter 14 and 15
Unit-IV	-	Chapter 28 and 21
Unit-V	-	Chapter 13

Books for References
1. Gupta. C. B and N. P. Srinivasan, "Entrepreneurial Development", New Delhi, Sultan Chand & Sons, 2020.
2. Vasanth Desai, "Dynamics of Entrepreneur Developments & Management", 6th Edition, Himalaya Publishing House, New Delhi, 2022.

Journals for references
1. https://journals.sagepub.com/home/joe
2. https://journals.sagepub.com/home/iei
3. https://www.abacademies.org/journals/international-journal-of-entrepreneurship-home.html
4. https://onlinelibrary.wiley.com/journal/1932443x
5. https://innovation-entrepreneurship.springeropen.com/

Web resources
1. http://sdeuoc.ac.in/sites/default/files/sde_videos/BCM4%20A13:BBA4%20A13%20-ENTREPRENEURSHIP%20DEVELOPMENT.pdf
2. https://www.ddegjust.ac.in/studymaterial/mba/cp-401.pdf
3. http://old.mu.ac.in/wp-content/uploads/2014/04/Management-PAPER-V-ENTREPRENEURSHIP-Management-final-book.pdf
4. https://www.drnishikantjha.com/booksCollection/Innovation%20and%20Entrepreneurship_%20Theory,%20Policy%20and%20Practice%20(%20PDFDrive%20).pdf
5. https://atpsnet.org/wp-content/uploads/2017/05/BIPCEA_Manual.pdf

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
II	E860 S	Entrepreneurship Training Skills									2	2
	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs	
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	2	1	2	2	1	1.9
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	1	3	2	3	2	2	2	3	1	3	2.2
CO4	3	2	3	1	2	2	2	3	2	3	2.3
CO5	3	2	2	2	3	2	2	3	3	3	2.5
Mean Overall Score											2.3
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester - III

Category	Subject Code	Title of the paper	Hrs.	Credits	Marks CIA	Marks SE
Core	E940	International Trade	6	4	50	50
Core	E941	Public Economics	5	4	50	50
Core	E942	Monetary Economics	6	4	50	50
Core	E943	Research Methodology	6	4	50	50
Elective-III	E944A	(i) Econometrics Methods	5	4	50	50
	E944B	(ii) Health Economics				
	E944C	(iii) Personnel Management				
Subject skill	E945S	Data Analysis and Interpretation	2	2	50	50
Certificate course CC-2		Computer Software Packages (E-Views, R-Programming) in Economics	Optional- Successful Completion			2*
Total			**30**	**22+2* = 24**		

Semester - IV

Category	Subject Code	Title of the paper	Hrs.	Credits	Marks CIA	Marks SE
Core	E1039	Indian Economy: Issues and Policy	6	4	50	50
Core	E1040	Environmental Economics	6	4	50	50
Core	E1041A	(i) Indian Public Finance	5	4	50	50
	E1041B	(ii) Tamil Nadu Economic Development				
	E1041C	(iii) Financial Institutions and Markets				
Elective-IV	E1042A	(i) Labour Economics and Industrial Relations	5	4	50	50
	E1042B	(ii) Security Analysis and Portfolio Management				
	E1042C	(iii) Co-operation and Rural Development				
	E1043J	Project Work Dissertation (Evaluation) Viva – Voce **Total**	6	3	80 20 **100**	
	VE1004	Human Rights in India	2	1		
Total			**30**	**20**		
Grand Total			**120**	**90+4* = 94**		

PSO – PO Mapping

PSO	PO1	PO2	PO3	PO4	PO5	Mean Score
PSO1	3	2	2	1	2	2
PSO2	2	3	1	1	3	2
PSO3	2	2	2	2	2	2
PSO4	2	2	3	3	2	2.4
PSO5	2	3	2	2	3	2.4
					Mean Overall Score	2.16
					Result	High
High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)						

Semester	Course Code	Title of the Course	Hours	Credits
III	E940	International Trade	6	4

Course Objectives:
1. To understand the traditional and modern theories of international trade.
2. To get thorough knowledge on various instruments of trade policies.
3. To know more about the operation of different trading agreements among the member countries.
4. To understand the overview of Indian EXIM and Foreign Trade Policies over the years.
5. To appraise on existing policy framework and promotional measures related to exports and exporters.

Course Outcomes: By the end of the course, students will be

S.No.	Description	Cognitive Level (K-Level)
CO-1	Able to learn the traditional and modern theories of international trade	K1, K2
CO-2	Getting enough knowledge about different instruments used in international trade.	K2, K3
CO-3	Becoming more familiar with operation of various trading agreements that took place across the world over the years.	K3, K4
CO-4	Examining the features of EXIM and Foreign Trade Policies over the time period.	K4
CO-5	Analyzing the existing policy framework and better understanding of various export promotion measures.	K4, K5

Unit– I: Theoretical Foundations of International Trade   (18 hours)
Reasons for International Trade - Modern Theories: Hecksher and Ohlin theory and Paul Krugman theory – Opportunity Cost Theory Stophler– Samuelson Theorem – Rybczynski Theorem.

Unit - II: Instruments of Commercial Policy   (18 hours)

Trade policy of developing countries: Gains from trade – Balance of Payment – Devaluation- Importance of devaluation in foreign trade - Marshall-learner condition- J curve effect- Foreign trade multiplier

Unit – III: Regional Economic Integration   (18 hours)
Regional Economic Integration- Free Trade Area, Customs Union, European Economic Union, and Common Market, Trade Creation and Diversion effects-Regional trade agreements.

Unit – IV: Foreign Trade Policy   (18 hours)
Foreign Trade Policy -Features, Objectives, Strategy, Provision regarding Import & Export, Highlights of India's current Foreign Trade policy.

Unit -V: Policy Framework and Promotional Measures   (18 hours)

India's foreign trade Policy and Mechanism. Export Promotion Measures and Infrastructure Support, Export and Trading Houses, Export Promotion Schemes and Incentives, Institutional Arrangements for Export Promotion, Export processing Zones and Special Economic Zones.

Text Books

1. Francis Cherunilam " International Economics" , 4th Edition, Mc Graw Hill Publishers, New Delhi, 2006.
   Unit 1 : Chapter 6
   Unit 2 : Chapter 15, 16 & 17

   Unit 3 : Chapter 13
2. Bhatia H L, "International Economics", Vikas Publishing House, New Delhi, 2015
   Unit 4 : Chapter 30
3. Francis Cherunilam F, International Trade and Export Management, Himalaya Publishing House, October 2016.

   Unit 5 : Chapter

References
1. Nihanika Vij, "International Trade Law", Universal Law Publishing House, New Delhi, 2016.
2. Ram Singh, "International Trade Operations", Excel Books Publishing, New Delhi, 2009.
3. Sharma.G, "International Trade: Theory and Practice", Centrum Press, Anmol Publications, New Delhi, 2012.
4. Parthapratim Pal, "International Trade and India", Oxford University Press, New Delhi, 2014.
5. Robert C. Fenstra, "Advanced International Trade", Princeton University Press, USA, 2015.
6. Dominic Salvatore, International Economics, 13th Edition, Pearson Education Publisher: Wiley, 2019.
7. Triveni Batham Rajendra .P Maheswari, "International Trade", International Book House Pvt. Ltd, Mumbai, 2015.
8. Paul Krugman, Maurice Obstfeld and Marc Melitz, International Trade: Theory and Policy, Tenth Edition, Pearson Education Publisher, May 2017.
9. Singhal, International Trade, Singhal Law Publishers, January 2021.
10. Jeevanandam C, Victor Louis Anthuvan, Kalyani K N, Padma N, Hemavathi Sekar, " International Economics", Sultan Chand & Sons Publishers, New Delhi, 2006.

List of Journals in International Trade
1. The International Trade Journal
2. *International Journal of Trade and Global Markets*
3. Journal of International Trade Law and Policy
4. Foreign Trade Review
5. Journal of International Trade and Economic Researches
6. International Journal of Export Marketing
7. Export and Import Management

Web Resources
https://www.globalnegotiator.com/en/infotrade-data-base
https://www.trade.gov/
https://www.globaltrade.net/
https://comtrade.un.org/db/
https://commerce.gov.in/useful-links/export-promotion-councils/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
III	E940	International Economics									6	4
		Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	2	2	2	1	2
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		2	3	2	3	2	2	2	3	3	3	2.5
CO4		3	3	3	2	2	3	2	3	2	3	2.6
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.6
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
III	E941	**Public Economics**	5	4

Course Objectives:
1. To understand the concepts of public finance and provisions of social goods.
2. To enable them to understand different tax theories.
3. To study the effects of public expenditure and public debt.
4. To study about the preparation of the budget statement.
5. To understand the functions of finance commission in India.

Course Out comes:
By the end of this, students will be:

S.No	CO-Statement	Cognitive Level -K
CO-1	Using the basic tools, concepts and models to solve problems in key areas of public Economics	**KI**
CO-2	Analysing the different theories of taxation andchallenges facing by the governments.	**K2,K3**
CO-3	Knowing the causes and growth of public expenditure and debt in India	**K4,**
CO-4	Providing guidelines to prepare the budget for state and local governments.	**K2.K3**
CO-5	Estimating the different tax was distributed to the state and the local government	**K5**

Unit – I: Nature and Scope
Role of the Government in the economic activity –Fiscal Functions: Allocation, Distribution and Stabilization functions – Provisions of private goods, public goods, social goods, merits goods and mixed goods – Welfare economics: Theory of Second Best – Arrows – Bergson.

Unit – II: Tax Revenue and Non-tax Revenue
Principle of fiscal neutrality – Excess burden – Doctrine principle of equity – Benefit principle – Bowen and Lindhal models – Ability to pay principle – Application of taxation principles in developing countries – Impacts and Incidence of Taxes: Theories of shifting and incidence: Diffusion – Concentration and Modern Theory.

Unit – III: Public Expenditure and Public Debt.
Wagner's Law – Wiseman – Peacock hypothesis – Pure theory of public expenditure – Cannon of public expenditure – Effects of public expenditure – Causes for increasing public expenditure. Public debt: Classification – Burden–Management – Redemption – Sources – Causes for increasing public debt.

Unit – IV: Budget
Budget: components –Types - Preparation, presentation and execution of budget – Economic classification of budget – Budget deficits and their implications – Central, state and local budget (Current union budget.

Unit – V: Federal Finance and Fiscal Policy
Federal Finance: Principles of federal finance – Assignment of functions and devolution of resources and grants – Vertical and Horizontal imbalance – Transfer of resource from union to states – Recommendations of current finance commissions – Centre-state conflicts on finance. Fiscal Policy: Interdependence of monetary and fiscal policies.

Text Book:
1. Richard A.Musgrave, Peggy B.Musgrave. Public Finance in Theory and Practice, New Delhi, Tata Mcgraw Hill Publishing Company Limited, 2010.
2. Singh.S.K,Public Fiancé in Theory and Practices,S.Chand and Company Ltd,New Delhi,2018.

Unit-1-Chapter-1,2,3,P-1-26.
Unit-2-Chapter-8,9,10,P-94-169
Unit-3 Chapter-4,5,6,P-33-58,Ch,22-P-266,Ch,23-P-277
Unit-4 Chapter-30-P-360,Ch-31-P,367
Unit-5 Chapter-33-P-395,Ch-34,P-431,Ch-36,P-443.

References:
1. Lekhi.R.k., Public Finance, New Delhi, Kalyani Publications (P) Ltd., 2015.
2. Mithani. D.M. Principles of Public Finance and Fiscal Policy. New Delhi, Himalaya Publishing House, 2015.
3. Sundharam.K.P.M and K.K.Andly. Public Finance in Theory and Practice. New Delhi, Chand.S. Company Limited, 2015.

4. Musgrave.R.A.The Theory of Public Finance, Cambridge publication, New Delhi,2000.5. Musgrave.R.A.,andMusgrave,P.B.PublicFinace in Theory and Practice, SecondEdition, Cambridge publication, New Delhi,200

Journals for References;
1. Economic and Political weekly,
2. Yojana
3. The Indian Economic Journal-   ISSN0019-4662.
4. Journal of Political Economy-
5. American Economic Review
6. Journal of Economic Theory

Web Resources:
1. https://www.epwrf@vsnl.com
2. https://www.nipf.org.in
3. https;//www. nityyok
4. https://www.ministry of public finance
5. www.mruniversity.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
III	E941	Public Economics									5	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	2	2	2	2	1	2	2	1	2
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	2	3	2	3	3	2	3	3	3	3	2.7
CO4	3	2	3	2	2	2	2	3	2	3	2.4
CO5	3	2	3	2	3	2	3	3	3	3	2.7
Mean Overall Score											2.7
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
III	E942	**Monetary Economics**	6	4

Course Objectives:
1. To enable the students of economics to understand theories and practices monetary economics.
2. To analyse the interconnection between the classical and neo classical theories on money.
3. To shaping and influencing the monetary related policies.
4. To focus on the Money and Assets relationships in economic activities
5. To know the due relevancies of risk – return theory in every business activity of Industrialists and life of human beings

Course Outcomes:
By the end of this course, students will be:

S.No	CO-Statement	Cognitive Level -K
CO-1	Developing monetary theory, to the effects of monetary variables on the macroeconomic system.	KI
CO-2	Understanding the theories of both classic and neo-classic theoretical conditions.	K2,K3
CO-3	Learning the monetary policies undertake by the central government and the recent financial reforms.	K4,
CO-4	Making the students to realize the importance of time factor in every human activity	K2.K3
CO-5	Inducing the students to analyze the banking and the financial operations and activities in all fields developments.	K5

Unit – I: Nature, Demand and Supply of money
A) Nature and scope of monetary economics: meaning – importance – functions, Definitions: Theoretical and empirical – concept of liquidity – Newlin – Radcliff committee.
B) Demand and supply of money (a brief analysis) – factors that determine demand and supply of money in India- components of money supply.

Unit – II: Classical and Neo-Classical Theories
Classical Theory of Money: - The cash transaction version – critical analysis – Cash Balance version – critical analysis – superiority of cash balance over cash transaction version.

Unit – III: Neutrality and non-neutrality of money
A) Classical and Neo-classical dichotomy – Patinkin's integration of monetary and value theories – real balance effect.
B) The Keynesian theory of integration of monetary and value theories – Milton Friedman's Re-statement quantity theory of money.

Unit – IV: Liquidity theories
Liquidity theory of money – Baumol's transaction demand for money – Tobin's portfolio balance theory of money.

Unit – V: Monetary Policy

Objectives – targets and indicators – monetarism and Keynesian, monetary transmission mechanism – time lags – monetary policy in India-Narasimhan Committee Banking in India, Rangarajan Committee on Financial Reforms.

Text Book
1. Vaish.M.C, Monetary Theory, 16th Edition, New Delhi, Vikas publication, 2005.

References
1. Growther.G. An Outline of money. London, Longmans Green, 1963.
2. Gosh.B.N. and Rama Gosh. Fundamentals of Monetary Economics. Bomboy, Himalaya Publication, 1989.
3. Gibson.W.E. and George G.Kaufman. Monetary Economics. New Delhi, Tata McGraw Hill, 1975.
4. Friedman.M. Studies in Quantity Theory of Money. Chicago, Chicago University Press, 1990.
   Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credi
III	E942	**Monetary Economics**									6	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Score of COs**
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	3	2	2	2	2	2	1	2	2	3		2.1
CO2	2	3	2	3	2	3	3	3	3	3		2.7
CO3	3	3	2	3	2	2	2	3	3	3		2.6
CO4	3	2	3	2	2	2	2	3	2	3		2.4
CO5	3	2	2	2	3	2	3	3	3	3		2.6
Mean Overall Score												2.6
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)
Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
III	**E943**	Research Methodology	**6**	**4**

Course Objectives:

1. To understand basic concepts of research Methodology.
2. To select suitable research and sampling design.
3. To organize and conduct research in a more appropriate manner.
4. To enhance the application knowledge to test the hypothesis.
5. To improve the skill of writing research report and thesis.

Course Outcomes:

By the end of this course, students will be:

S. No.	Description	Cognitive Level (K-Level)
CO-1	Demonstrating the knowledge of research processes.	**K1, K2**
CO-2	Developing research design in using specific research.	**K1, K2, K3**
CO-3	Compare quantitative and qualitative research paradigms in describing sampling methods, measurement scales and instruments, and appropriate uses of each scales.	**K3, K4**
CO-4	Describe, descriptive inferential statistics and provide application knowledge	**K4, K5**
CO-5	Expertise in drafting the research report and thesis. For the specific career aspiration in higher education.	**K5, K6**

Unit - I: Nature and significance of social science research
Objectives, Types and significance of research – Research methods and methodology – Steps of research process – Criteria of good research– Research problem – Technique of formulating a problem.

Unit - II: Research design and sampling design
Research design- meaning, need and features - different models –Experimental designs – developing a research plan – Census, sample survey and participatory survey – Steps in sample design –Probability and Non Probability – Simple and complex – systematic, stratified, cluster, area, multistage and sequential sampling designs.

Unit - III: Data collection and Scaling Techniques
Methods of Collecting Primary data. Sources of Secondary data: Measurement in research – Nominal, ordinal, interval and ratio – Sources of Error in Measurement – Tests of Validity, Reliability and Practicality. Scaling Techniques: Rating and Ranking Scales – Scale Construction Techniques - Thurstone, Likert type, Cumulative Factor and Multi-dimensional scales

Unit - IV: Testing of Hypothesis
Null and Alternative Hypothesis - simple and composite hypothesis – Type I and Type II errors – critical region – level of significance – one sided and two sided tests – power of a test – decision making – small sample distributions - 't', 'F' 'χ^2' – Distributions – application – testing of Mean and Variance (ANOVA) – Goodness of fit.

Unit - V: Research Report Writing
Steps in writing report – Layout of reports – Types of reports – Mechanics of writing a research report – Precaution for writing reports.

Text Book:
Kothari C R and Gaurav Garg (2020), Research Methodology Methods and Techniques, 4th Edition, New Age International Publishers, New Delhi.

Unit – I   Book (Chapter – 1)
Unit – II   Book (Chapter – 2, 3, 4)
Unit – III   Book (Chapter – 5, 6, 7, 8, 9)
Unit – IV   Book (Chapter – 10, 11, 12, 13)
Unit – V   Book (Chapter – 19)

References:

1. Patricia Leavy (2017), "Research Design", The Guilford Press, New York
2. Geoffrey Marczyk, David DeMatteo and David Festinger (2005) "Essential of Research Design and Methodology" John Wiley & Sons. Inc.New Jersey.
3. Yogesh Kumar Singh (2006), Fundamental of Research Methodology and Statistics, New Age International Publishers, New Delhi.
4. Ranjit Kumar (2011) Research Methodology, Sage Publication Ltd. New Delhi.
5. Jeremiah P. Ostriker and Charlotte V. Kuh (2003), "Assessing Research – Doctoral Programs" The National Academies Press, Washington D.C.

Journals

1.   International Journal of Social Research Methodology
2. Research Methodology and Characteristics of Journal Articles.
3. Organizational Research Methods
4. International Journal of Methodology
5. Exploring Research Methodology: Review Article.

Websites

1. https://www.businessperspectives.org
2. https://www.ijrrjournal.com
3. https://www.researchgate.net/publication
4. https://meth.psychopen.eu
5. https://journals.aijr.org/index.php/ijm
6. https://ijsrm.humanjournals.com
7. https://bmcmedresmethodol.biomedcentral.com/articles

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
III	E943	Research Methodology									6	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	2	2	2	1	2
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		3	3	2	3	2	2	2	3	3	3	2.6
CO4		3	3	3	2	2	3	2	3	2	3	2.6
CO5		3	2	2	2	3	3	3	3	3	3	2.7
Mean Overall Score												2.6
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
III	E944A	**Econometrics Methods**	5	4

Course Objectives:
1. To understand the nature and scope of econometrics and the underlying problems related to econometric analysis.
2. To learn the application of regression analysis and usage of dummy variables.
3. To analyze the application of economic variables in different econometric models.
4. To apply different econometric models in the application of time series data.
5. To acquire knowledge on application of volatility and stochastic models.

Course Outcomes: By the end of the course, students will be

S.No.	Description	Cognitive Level (K-Level)
CO-1	Able to understand the basic of econometrics and problems associated while analyzing the data.	**K1, K2, K3, K4**
CO-2	Analyzing the data using simple and multiple regression and inclusion of dummy variables.	**K3, K4**
CO-3	Applying various econometric models into economic theory and practice.	**K4, K5**
CO-4	Get thorough knowledge in analyzing time series, panel, and cross section data.	**K5, K6**
CO-5	Having better understanding of different econometric methods in the application of volatility and error correction models.	**K5, K6**

Unit – I: Introduction to Econometrics and Problems of Error Estimation   (15 hours)
Meaning, Nature and scope of econometrics, Simple and general linear regression model – Assumptions, Estimation through OLS approach and properties of estimators. Problems of Heteroscedasticity, Multi collinearity and Auto-Correlation.

Unit - II: Regression with Qualitative and Dummy variables   (15 hours)
Regression with Qualitative and Lagged Variables, Dummy Variable Techniques. Testing structural stability of regression models, Regression with dummy dependent variables, Uses of Dummy variables.

Unit – III: Simultaneous Equation Models   (15 hours)
Simultaneous equation models: equation bias and inconsistency of OLS estimators, The identification problem and the rules of identification. Methods of estimating simultaneous equation system, instrumental variables. Estimation of demand, production: Cobb Douglas and cost functions.

Unit - IV: Stationary and Forecasting of Data   (15 hours)
Stationary, unit roots, co-integration-spurious regression, Dickey-Fuller test, Error correction mechanism. Forecasting with ARIMA modeling- Box-Jenkins methodology.

Unit– V: Vector Auto Regression and Volatility Structure Model   (15 hours)
Vector Auto Regression-problems with VAR modeling and its applications. Volatility Structure Model: ARCH and GARCH.

Text Books

1. Koutsayannis A, 'Theory of Econometrics', Second Edition, EL/BS Macmillan Publishers, 1977.

   Unit-1: Chapter 4,6,10 & 11

   Unit-2: Chapter 12 & 13

   Unit-3: Chapter 14, 15 & 16

2. Gujarati, D. Basic Econometrics, McGraw Hill, International Edition, Singapore, 2013.
   Unit-4: Chapter 21 & 22

3. Damodar G. Gujarati, Dawn Porter and Sangeetha Gunasekar, "Basic Econometrics", McGraw Hill Publications, New Delhi, 2011.

   Unit-5: Chapter 21 & 22

References

1. Goldberger, A.S. Introductory Econometrics, Harvard University Press, Cambridge, 2000.
2. Gujarati, D. Basic Econometrics, McGraw Hill, New Delhi, 2004.
3. Pattreson, Kerry, An Introduction to Applied Econometric: Time Series Approach 2000.,
4. Ramanathan Ramu, Introductory Econometrics with applications, Thomson South Western, Singapore, 2002.
5. Wooldridge, Introductory Econometrics, Thomson-South Western, Singapore, 2006.
6. Jeffory Wooldrige, "Introductory Econometrics", Cengage Publications, New Delhi, 2014.
7. Samprit Chaterjee and Alis Hadi, "Regression Analysis by Example", Wiley Publications, Mumbai, 2013.
8. Dominik Salvatore and Derrick Reagle, "Schaum's Outline of Statistics and Econometrics" (Schaum's Outline Series), McGraw Hill Education, New Delhi, 2011.
9. William H. Greene, "Econometric Analysis", Pearson Education, New Delhi, 2003.
10. Steven C. Wheelright and Rob J. Hyndman and Spyros Makridakis, "Forecasting: Methods and Applications", Wiley Publications, Mumbai, 2008.

List of Journals in Econometrics

1. Econometrica.
2. Econometric Theory.
3. Journal of Econometrics.
4. Journal of Business and Economic Statistics.
5. Journal of Financial Econometrics.
6. Journal of Finance.
7. Oxford Bulletin of Economics and Statistics.
8. Review of Economics and Statistics.

Web Resources

1. https://sites.google.com/site/econometricsacademy/hom
2. https://ocw.mit.edu/courses/14-382-econometrics-spring-2017
3. https://www.coursera.org/learn/erasmus-econometrics
4. https://www.coursera.org/learn/linear-regression-model/home
5. https://learneconometricsfast.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
III	E944 A	Econometrics Methods									5	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	3	2	2	2	1	2	3	2	2.2
CO2	3	3	3	3	2	3	3	3	3	3	2.9
CO3	3	3	3	3	2	2	2	3	3	3	2.7
CO4	3	2	3	2	2	2	2	3	2	3	2.4
CO5	3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score											2.6
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
III	E944B	**Health Economics (Elective Optional)**	5	4

Course Objectives:

S. No.	Course Objectives
1	To apply economic concepts and to analyze issues in health and health care systems.
2	To accumulate choices of the production efficiency in health care.
3	To identify the supply and cost benefits in health care services.
4	To understand the principles and techniques of economic evaluation of health interventions.
5	To analyze health policy issues within the Indian context.

Course Outcomes:
        By the end of this course, students will be:

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Understanding the economic approach and analyzing social issues.	K1, K2
CO-2	Identifying the inputs and output sources of production in health care.	K2
CO-3	Learning the needs for health care services.	K3
CO-4	Evaluating the economic benefits in health care.	K2
CO-5	Analyzing the efficiency and quality of health care organizations.	K4
CO-6	Describing the rationale for performing economic evaluation and the economic principles in health care.	K4

Unit – I: Health Economics (15 Hours)
Definition – Approaches to measurement of values of Life – The role of economists in the health sector – Demand for health care – health Indicators – Elements of Health Care Systems – Medical Care as an Investment.

Unit – II: Health Production Function Approach (15 Hours)
Health Inputs and output – production, efficiency and health care – skills and efficiency of production of health services – choice of health care, Mother and Child Health Care – Pre and Post natal care.

Unit – III: Supply and Cost Health Care Services (15 Hours)
Production and cost – Estimating cost functions in health care – Theory of managed care – Demand, Supply and Equilibrium – The information problem – The market for health services.

Unit – IV: Economic Evaluation in Health Care (15 Hours)

Measuring costs in economic evaluation – Cost of illness method – Measuring benefits in economic evaluation – measuring and valuing outputs – Standardized measures of outcome and utility scores – QALY and DALY measures – measuring health gains and utilities.

Unit – V: Health Policies and Health Insurance (15 Hours)
WTO and its Impact on Public Health Care System – WHO and India on Health Issues - Risk and Insurance – Voluntary Insurance – Social Insurance System – Reimbursement Method of Third Party Payers – Recent National Health Policy in India and Tamil Nadu.

Text Book:
1. Himanusha Skar, Rout and Prashant Panda. Health Economics in India. New Delhi, New Century Publications, 2007.

References:
1. Fuchs.V.R. Who Shall Live? Health Economics and Social Choice. USA, World Scientific Publications Company, 1998.
2. Rosalind Reed and Thomas A.Lang. Health Behaviours. New Yark, West publishing Company, 1997.
3. Getchell, Pippin, Varnes. Perspectives on HEALTH. Boston, McDougal Littell, 2003.
4. Chalkley.A.M. A textbook for the Health worker (ANM) Volume I. New Delhi, Wiley Eastern Ltd, 1987.
5. Myron Winick.M.D. Nutrition in Health and Disease. New York, A wileyinterscience publication, 1980.
6. Dr.Mahendra Gaur. National Rural Health Mission (NRHM. New Delhi, Alfa publications, 2008.
7. Ghosal.B.C. Health and Social Development in south and south East Asia. Faridabad, OM Publications, 2000.
8. Culyr A J Dictionary of Health Economics, EdwasdElgas Publications Holland 2010.

Journals:
1. The Economics of Healthcare.
2. INQUIRY: The Journal of Health Care Organization, Provision, and Financing.
3. International Journal Dental and Medical Sciences Research.
4. Health Economics.
5. Hindawi: Journal on Advances in Public Health.
6. Health Economics, Policy & Law
7. Applied Health Economics and Health Policy

Weblinks:
1. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7469424/
2. https://www.studyingeconomics.ac.uk/module-options/health-economics/
3. https://quantifyresearch.com/2018/04/27/useful-health-economics-links-including-blogs-resources-2/
4. https://www.springer.com/journal/40258/submission-guidelines

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course	Hours	Credit

III	E944 B				Health Economics					5	4
		Programme Outcomes (PO)				**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	1	2	2	1	1.9
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		2	3	2	3	2	2	2	3	3	3	2.5
CO4		3	2	3	2	2	2	2	3	2	3	2.4
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.5
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the course	Hours	Credits
III	E944C	Personnel Management (Elective Optional)	5	4

Objectives:
1. To develop an understanding of the personal management.
2. To understand the various aspects of human resource management.
3. To know about the various recruitment and selection process in the industries.
4. To know more about the selection, induction and socialization process in HRM.
5. To understand the virtual organization in personnel management.

Outcomes:
By the end of this course, students will be:

S. No.	Description	Cognitive Level (K-Level)
CO-1	Applying personnel management concepts in to industries.	K6
CO-2	Investigating different personnel management problems.	K6
CO-3	Executing the human resource planning for the betterment of the organization.	K6
CO-4	Applying the knowledge on recruitment, selection, placement, motivation, training and induction in HRM process.	K6, K4
CO-5	Working efficiently and innovatively in virtual platform for the development of the organization.	K3, K4

Unit – I: Introduction to Personnel Management
Personnel Management: Definition- Characteristics – Objectives – Importance – Functions and scope of personnel management – Evolution to the concept of personnel management - Qualities of HR Manager – Environment of personnel management.

Unit – II: Human Resource Planning, Job Analysis and Design
Human Resource Planning – Objectives – Need and importance – Process and Levels - Problems in HRP – Guidelines for effective resources planning. Job Analysis: Concept – Objectives – Uses – Process – Techniques. Job Design: Approaches - Methods – Recent trends in job design.

Unit – III: Recruitment, Selection, Placement and Motivation
Recruitment: Process – Sources – Techniques – Considerations in recruitment. Selection: Meaning – Steps in selection process – Selection testing - selection interviewing. Concept of Placement and Motivation.

Unit – IV: Training, Induction and Socialization
Training: Need for training – Importance – Types – Objectives – Methods – Techniques of training -Evaluating training effectiveness. Induction: Concept of induction and orientation –

Objectives of induction – Advantages of formal induction – Induction in Indian Industries - Effectiveness of induction. Socialization: Process.

Unit – V: Emerging Horizons in Personnel Management
Virtual Organization: Distinction between traditional and virtual organization – Types – Technology of Virtual Organization – Economic liberalization of personnel management.

Text Book:
1. Gupta C. B., "Human Resources Management", Sultan Chand & Sons Publication, New Delhi, 2021.

    Unit – I: Part I: Chapter 1
    Unit – II: Part II: Chapter 5, 6
    Unit – III: Part II: Chapter 7, 8
    Unit – IV: Part II: Chapter 8, 9
    Unit – V: Part VIII: Chapter 36

References:
1. SubbaRao., "Personnel & Human Resource Management", Himalaya Publishing House, New Delhi, 2015.
2. Aswathappa K., "Human Resource and Personnel Management", Tata Mc Graw Hill Publishing Co. Ltd, New Delhi, 2015.
3. VenkataRathnam C.S., &Srivastava B.K., "Personnel Management & Human Resources", Tata Mc Graw Hill Publishing Co. Ltd, New Delhi, 2015.

Websites:
1. https://www.economicsdiscussion.net/personnel-management/personnel-management-2/32439
2. https://www.managementstudyguide.com/personnel-management.htm
3. https://panmore.com/google-hrm-hr-planning-job-analysis-design
4. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd
5. https://aalokagri.blogspot.com/2017/04/recruitment-selection-placement.html
6. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source
7. https://www.mgkvp.ac.in/Uploads/Lectures/47/255.pdf
8. https://slideplayer.com/slide/14334442/
9. https://edurev.in/t/115475/Empowerment-Emerging-Horizons-in-Human-Resource-Ma
10. https://www.scribd.com/document/283795491/Emerging-Horizons-in-HRM-Final

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
III	E944 C	Personnel Management									5	4
		Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	2	2	2	2	2.1
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		3	3	2	3	2	2	2	3	3	3	2.6
CO4		3	2	2	2	2	2	2	3	2	3	2.3
CO5		3	2	2	2	3	3	3	3	3	3	2.7
Mean Overall Score												2.6
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the course	Hours	Credits
III	**E945S**	**Data Analysis and Interpretation**	**2**	**2**

Objectives

S. No	Course Objectives
1	To provide knowledge on Econometric tools and their applications.
2	To learn basic programming languages that is useful for econometric analysis.
3	To learn the use of Models and interpret data in the presence of research problems.
4	To provide knowledge of how to graph and display the results of programming.
5	To enable the students to access SPSS software in applying economic research.

Outcomes:

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

S. No	CO-Statement	Cognitive Level (K-Level)
1	Expertising in doing econometric analysis and tools for conducting research studies.	K1,K2
2	Understanding of Interpret the estimates of econometric models.	K2, K3
3	Evaluating results to graph and display the results of programming.	K3,K4
4	Enabling the students to learn the technique of estimating Econometric Models	K3,K5
5	Training to apply basic econometric techniques like correlation and regression.	K4,K5

Unit - I: Introduction to Statistical Packages   **(5 Hours)**

Creating SPSS data file , opening existing data file, importing data from Non-SPSS file Format, Merging data from multiple files, transforming variables- editing output; Editing tables, charts and graphs, Exporting output ,Creating and using syntax file.

Unit - II Diagrammatic Representation   **(5 Hours)**

Simple, multiple and Drop line diagrams Area graph, Pie chart, Range, simple high low close, cluster high low close simple and cluster box plot.

Unit - III Descriptive statistics in economics   **(5 Hours)**

Mean, median, mode, percentiles, Quartiles, standard deviation, variance, range, Minimum, maximum, skewness, kurtosis – 't' tests – cross table and chi square test, one way ANOVA.

Unit - IV Correlation and Regression   **(5 Hours)**

Correlation Martix, regression, dummy variables, Multi collinearity, test for detecting multicolliniarity.

Unit - V Serial Correlation   **(5 Hours)**

Durbin-Watson Statistics, Ljung-box Q-statistic, unit root test, time serious models.

Text Book:
1. J.P. Verma, Data Analysis in Management with SPSS Software, Springer New Delhi, 2012

        Unit – I: Pages 1 - 27

        Unit – II: Pages 29 - 67

        Unit – III: Pages 69 - 101

        Unit – IV: Pages 103 - 165

        Unit – V: Pages 317 - 358

References:

1. Foster Jeremy.J, Data Analysis Using SPSS For Windos Version 8 to 10:A Beginners Guide ,Sage Publications, New Delhi, 2001.
2. George Darren Mallery Paul, SPSS FOR WINDOWS, Pearson education. New Delhi. 2009.
3. Croxton, Fredric.E.Dudley.J,Cowden and Sideny Klein, Applied General Statistics,Prentice Hall of India Ltd. New Delhi, 1988.
4. Rachad Antonius, Interpreting Quantitative Data with IBM SPSS Statistics, SAGE Publication India Pvt Ltd, New Delhi 2013.
5. Sabine Landau & Brian S. Everitt, A Handbook of Statistical Analyses using SPSS by A CRC Press Company Boca Raton London New York Washington, D.C. 2003

Journals:
1. International Journal of Innovative Technology and Exploring Engineering
2. International Journal of Data Analysis
3. The international journal Advances in Data Analysis and Classification
4. International Journal of Data Science and Analytics
5. Advances in Data Analysis and Classification

Websites:
1. www.spss.co.in
2. www.spss.com
3. www.spsstools.net/spss.htm
4. https://studysites.sagepub.com/antonius2/
5. https://mentor2mentor.in/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
III	E945 S	Data Analysis and Interpretation									2	2
		Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	2	2	2	2	2.1
CO2		3	3	2	3	2	3	3	3	3	3	2.8
CO3		3	3	2	3	2	2	2	3	3	3	2.6
CO4		3	3	3	3	2	2	2	3	2	3	2.6
CO5		3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score												2.6
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
IV	E 1039	Indian Economy: Issues and Policy	6	4

Objectives:

S. No.	Course Objectives
1	To study the basic characteristics of economic development and economic growth.
2	To realize the causes and measures of poverty inequalities and unemployment.
3	To study the agriculture and industrial development trends in India.
4	To examine the necessity of financial systems in India
5	To evaluate the trade policies of India

Outcomes:

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

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Learning recent economic affairs and development schemes in India.	K1, K2
CO-2	Understanding various economic issues at local, national and global level.	K2, K3
CO-3	Discussing the development of agriculture and industry.	K4
CO-4	Evaluating the position of financial sectors of Indian economy	K4, K5
CO-5	Elucidating the trade and development of our state.	K5

Unit - I: Characteristics of Indian Economy   (18 Hours)

Characteristics - Determinants of Economic Development- Economic and Non Economic Factors - Economic Planning Commission – NitiAayog.

Unit - II: Poverty, Unemployment and Human development.   (18 Hours)

Nature **-** Regional variations in Poverty and Unemployment **-** The Recent Government programmes for eradication of Poverty and Unemployment **-** Human Development Index**-** Demographic features: Population growth **-** India's population policy and Development.

Unit - III: Agriculture and Industrial development   (18 Hours)

(i) Agriculture: Growth of Indian agriculture and constraints; Regional variations in agricultural development **-** Sustainable agriculture: Need and Policies **-** Recent agricultural policy of India **-** WTO and Indian agriculture – e-NAM.
(ii) Industry: Growth and structure of Indian industry **-** Regional disparities in industrial Development **-** Impact of New Economic Policy on Indian Agricultural and Industry.

Unit - IV: Financial sector   (18 Hours)

Nationalization of banks and their performance **-** banking sector reforms since 1991**-** Capital market :growth - problems **-** role of Securities Exchange Board of India (SEBI) **-** Black and Parallel Economy in India – Demonetization of currency.

Unit- V: Trade Policy   **(18 Hours)**

Trade policy: impact of WTO on India's import, export and tariff policies- the policy of flexible exchange rates and its impact on Indian economy. Urbanization: providing urban amenities: housing, drinking water- sanitation.

Text Book:
1. Ruddardutt&Sundharam. K. P. M, "Indian Economy", Sultan Chand and Company, Ram Nagar, New Delhi.2016.

Unit-I	-	Part - I
Unit-II	-	Part - II
Unit-III	-	Part – III and IV
Unit-IV	-	Part - V
Unit-V	-	Part - V

References:
1. Ahluwalia, L.J.and IMD Little (EDs), India's Economic Reforms and Development ,Oxford University Press,New Delhi. 1998.
2. Byres,T.J, The Indian Economy, Major Debates Since Independence, Oxford University Press New Delhi. 1998.
3. KausikBasu ,(ed) Oxford Companion to Indian Economy, 3rd Edition OUP, New Delhi. 2012.
4. Agrawal,A.N, Indian Economy: Problems of Development and Planning, WishwaPrakashan,Chennai, 2001.

Journals for references:

1.	The Indian Economic Journal	-	ISSN: 0019-4662
2.	Indian Economic Review	-	ISSN: 0019-4670
3.	PRAGATI Journal of Indian Economy	-	ISSN: 2347-4432
4.	Indian Journal of Economics and Development	-	ISSN: 2320-9828
5.	Economic and Political Weekly	-	ISSN: 0012-9976

Web resources:
1. https://www.indiabudget.gov.in/economicsurvey/relatedlinks.php
2. https://www.themintmagazine.com/indias
3. https://byjus.com
4. https://libguides.uttyler.edu/c.php?g=948327&p=6838214
5. https://z-lib.org/
6. https://www.india.gov.in
7. https://info.ceicdata.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course					Hours	Credit
IV	E1039	Indian Economy: Issues and Policy					6	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	2	2	2	2	2	2.1
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	3	3	2	3	2	2	2	3	3	3	2.6
CO4	3	3	3	2	2	2	2	3	2	3	2.5
CO5	3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score											2.6
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
IV	E1040	**Environmental Economics**	6	4

Course Objectives
1. To provide a comprehensive introduction to the economic analysis of issues arising from the interactions between the natural environment and the human economy.
2. It focuses on the ecosystem-services and the challenges arising due to pollution.
3. To highlight the nature of market failure in resources allocation along with issues of social welfare.
4. To introduce various methods and techniques of valuation of non-tradable environmental goods and services on the one hand and economics of pollution control on other side.
5. To introduces developmental issues relating to trans-boundary and global pollution (climate change) and policies for their mitigation and control.

Course Outcomes:
By the end of this course, students will be:

S. No.	Description	Cognitive Level (K-Level)
CO-1	Equipped the ability to explain core economic terms, concepts, and theories.	K1, K2
CO-2	Addressing the environmental issues in relation to the theory of externalities, public goods, and welfare.	K1, K2, K3
CO-3	Demonstrating the economic principles concerning the choice of instruments for controlling pollution by using theories.	K3, K4
CO-4	Using or Appling different methods for valuing environmental goods and services.	K4, K5
CO-5	Taking up contemporary environmental discourse from an economists' point of view.	K5, K6

Unit – I: Introduction to Environmental Economics
Environmental Economics – Economy and Environment Linkages – The Material Balance Principle – Public and Private goods, Private versus Social Cost - Market Failure – Trade-Off between Economic Growth and Environment – Environmental Quality as a Public Good - Sustainable Development.

Unit – II: Environmental Problems
Sources and Types of Pollution: Domestic and Industrial Pollutions (Air, Water, Solid Waste, Land Degradation) – Causes and Effects of Environmental Degradation–Urban and Rural Environmental Problems – Energy: Renewable and Non-Renewable Resources – Global Environmental Problems: Global Warming; Climate Change

Unit – III: Environmental Economic Theory for Resource Allocation
Economic Theory for Resource Allocation – Externalities – Pareto Efficiency and the Market – Limits to Growth – Coase`s Theorem - Simon Kuznet's Theory – Technology Versus Environment– Population and Environment

Unit – IV: Environmental Management
Economics of Pollution Control – Environmental Impact Assessment (EIA) – Benefit / Cost Analysis – Contingent Valuation Method– Travel Cost Method – Willingness to pay

approach - Valuing Environmental Benefits: Hedonic Price Approach.

Unit – V: Policy Measures
International Environmental Policy – India's Environmental Policy – Law and Environmental Protection in India.

Text Book:
    Euguine T, Environmental Economics, Vrinda Publications (P) Ltd., 2005.

    Unit – I   Book (Chapter – 1)
    Unit – II   Book (Chapter – 4)
    Unit – III Book (Chapter – 14, 15)
    Unit – IV Book (Chapter – 15, 18)
    Unit – V   Book (Chapter – 16, 20)

References:
1. Hanley Nick, Jason F. Shogren and Ben White, Environmental Economics in Theory and Practice, N.Y. Macmillan, 1997.
2. Kostald Charles D, Environmental Economics, Oxford University Press, 2002
3. Perman R. May, McGilvary M. Common Natural Resources and Environmental Economics 3rd Edition, Pearson Addison Wesley, 2003
4. Cunnigham, Environmental Economics, Raintree Publishers, Chennai, 2001
5. Karpakam, Environmental Economics, Kalyani publications, Chennai, 2021.

Journals
1. Journal of Environmental Economics and Management
2. Journal of Environmental Economics and Policy
3. Journal of Environmental Economics and Policy Studies
4. Journal of Environmental and Resource Economics
5. Review of Environmental and Economics and Policy

Websites
1. https://www.businessperspectives.org
2. https://www.tandfonline.com
3. https://econpapers.repec.org
4. https://www.internationalscholarsjournals.org
5. https://www.cambridge.org/core/journals
6. https://www.jescae.com
7. https://www.internationalscholarsjournals.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
IV	E1040	**Environmental Economics**									6	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	2	2	2	2	2	2.1
CO2		3	3	2	3	2	3	3	3	3	3	2.8
CO3		2	3	2	3	2	2	2	3	3	3	2.5

CO4	3	3	3	2	2	2	2	3	2	3	2.5
CO5	3	2	2	3	3	2	3	3	2	3	2.6
Mean Overall Score											2.5
Result											**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	**II CA (50)**	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
IV	E1041A	**INDIAN PUBLIC FINANCE** (Elective Optional)	5	4

Course Objectives;
1. To motivate the students about functioning of finance commission in India
2. To understand the relationship between central, state and local finance.
3. To know about Indian tax system
4. To create knowledge about public expenditure and public debt in India.
5. To Study deficit finance and it impact in India

Course Outcomes:
By the end of this course, students will be:

S.No	CO-Statement	Cognitive Level -K
CO-1	.Knowing the constitutions regarding financial powers between central and state governments.	K1, K2
CO-2	Understanding the students about the tax system in India	K2 K3
CO-3	Calculating GST in different product	K3,K4
CO-4	Estimating the growth of public expenditure and debt in India	K4, K5
CO-5	Enabling the students to understand the sources of central, state and local finance	K5, K6

Unit – I: Federal Finance in India
Introduction – Stages of growth – Allocation of revenue resources between Centre and State under constitution – Finance Commission: Functions and Implementation of the recommendation – Recent finance commission and its recommendations.

Unit – II: Central, State and Local Finance
Central and state source of income – Expenditure of the central and state govt. Local Finance: Introduction – Functions – Finance of local bodies – Financial problems of local bodies – Theory, Principles and problems of fiscal federalism – Problems of Central and State financial relations in India.

Unit – III: Indian Tax System
Introduction – Salient features – Shortcomings – Central government taxes: Income tax, corporation tax, expenditure tax, death duty, estate duty, gift tax, wealth tax, capital tax, commodity tax, export and import duty – Taxes of State government: Land revenue, agriculture income tax, state excise duties – stamp duties – court fees and registration – taxes on immovable property – taxes on trade, profession and employment – entertainment tax – electricity duties and sales tax. Different approaches to the division of tax burden, incidence and effects of taxation – Elasticity and buoyancy – Taxable capacity – GST.

Unit – IV: Public Expenditure and Debt in India
Public Expenditure: Meaning – Classification – control of public expenditure – Public expenditure in UDCs – Effects. Public Debt: Characteristics - classification – Effects - burden – Management of public debt - Problems of public debt – Role of public debt in UDCs – Deficit Financing: Meaning, Objectives – causes – uses – evils – limits of deficit financing.

Unit – V: Budgetary Policy in India

Introduction – Economic, Fiscal and Budgetary policy – Objectives of budgetary policy – Distinction between fiscal policy and budgetary policy – Neutral and compensatory and functional finance – balanced budget multiplier - Budgetary policy since 1991.

Text Book:

1. Lekhi.R.k., Public Finance, New Delhi, Kalyani Publications (P) Ltd., 2015.

Unit-1-Ch-5.P-662-679.
Unit-2-Ch-10,P-789-822.
Unit-3-Ch-9,P-758-788,Ch-10,P-789-822.
Unit-4-Ch-11,P-823-838.
Unit-5-Ch-19,P-959-966.

References:

1. Richard A. Musgrave, Peggy B. Musgrave, Public Finance in Theory and Practice, New Delhi, Tata Mcgraw Hill Publishing Company Limited, 2010.

2. Mithani D.M., Principles of Public Finance and Fiscal Policy. New Delhi, Himalaya Publishing House, 2015.

3. Sundharam. K.P.M and K.K. Andly, Public Finance in Theory and Practice. New Delhi, Chand.S. Company Limited, 2015.

 4.Mithani. D.M. Principles of Public Finance and Fiscal Policy. New Delhi, Himalaya Publishing House, 2015.

Journals:

1. Economic and Political weekly,
2. Yojana
3. The Indian Economic Journal-   ISSN0019-4662.
4. Journal of Political Economy-
5. American Economic Review
6. Journal of Economic Theory

Web Resources:

1. https://www.epwrf@vsnl.com
2. https://www.nipf.org.in
3. https;//www. nityyok
4. https://www.ministry of public finance
5. www.mruniversity.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course	Hours	Credit
IV	E1041 A	Indian Public Finance	5	4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	1	2	2	2	1	1.9
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	3	3	2	3	2	2	2	3	3	3	2.6
CO4	3	3	3	2	2	1	2	3	3	3	2.5
CO5	3	2	2	2	3	2	3	2	3	2	2.4
Mean Overall Score											2.5
Result											High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the course	Hours	Credits
IV	E1041B	Tamil Nadu Economic Development (Elective Optional)	5	4

Objectives:
1. To know about the natural resources of Tamil Nadu.
2. To understand the current situation of different sectors of Tamil Nadu economy.
3. To understand the performance of various sectors operating in Tamil Nadu.
4. To analyze the various welfare schemes in the developmental process of Tamil Nadu.
5. To understand more of State Planning Commission.

Outcomes:
By the end of this course, students will be:

S. No.	Description	Cognitive Level(K-Level)
CO-1	Becoming more effective in understanding about Tamil Nadu Economy.	K1
CO-2	Knowing the current situation of sectoral composition of Tamil Nadu Economy.	K2
CO-3	Analyse the performance of different sectors of Tamil Nadu Economy	K6
CO-4	Getting knowledge about policy analysis with regard to Tamil Nadu Economy	K3, K4
CO-5	Gaining ability to compare and analyze Tamil Nadu Economy with rest of the country	K4, K5

Unit - I: Introduction
Concept of a regional economy – the geographical features of Tamil Nadu – Natural Resources in Tamil Nadu: Land, Forest, Water (Fisheries) and Minerals.

Unit - II: Performance of Tamil Nadu economy
Basic characteristics – Demographic trends – Resource endowment – Urbanization – Trends in state income (NSDP) – Structural growth after reforms (1991) – Dynamism of the economy.

Unit - III: Agriculture and Allied Sector
Triple contribution of agriculture to the economy – Green revolution – Productivity and Yield – Cropping pattern – Agriculture research and education – Agricultural marketing and finance – Regulated and Cooperative marketing system – Animal husbandry and poultry – Marine production.

Unit - IV: Industry and Service sector
Industry: Trends and patterns in industrial growth – Large scale and small-scale industries – FDI's – Industrial estate: SIPCOT, SIDCO - KVIC, KVIB - DIC, TIDCO, ELCOT and TIIC. Service: Financial sector – RRBs, NABARD and Cooperatives – Transport – Roadways, Railways and Waterways –Energy – Conventional and Non-Conventional energy.

Unit - V: Social Welfare and State Planning Commission:

Some Economic Concerns: Education and Health – Unemployment – Antipoverty strategies – Women Development. State Planning Commission: Target and achievement – Financing of plans – revenue, expenditure and debt – Budget.

Text Book:
1. Perumal Samy S., "Economic Development of Tamil Nadu", S.Chand & Co, New Delhi, 2000.
   Unit – I: Chapter 1, 2
   Unit – II: Chapter 3
   Unit – III: Chapter 4, 5
   Unit – IV: Chapter 6, 7, 8
   Unit – V: Chapter 12, 13, 14, 15, 16

References:
1. Leonard A. G. SJ, "Tamil Nadu Economy", Macmillan India LTD, New Delhi, 2006.
2. Kurien C. T., "Economic Change in Tamil Nadu" S.Chand & Co, New Delhi, 2003
3. Statistics Hand Book of Tamil Nadu, Directorate of Economics and Statistics, Government of Tamilnadu, Chennai, Recent Issues.
4. Madras Institute of Development Studies, Tamil Nadu Economy: Performance and Issues, Oxford and IBH Publishing Co., New Delhi. 1988.
5. Nagaraj, Tamil Nadu Economy, MIDS., 2014.

Websites:
1. https://www.espon.eu/Regional-Economy
2. https://statisticstimes.com/economy/india/tamil-nadu-economy.php
3. https://www.thehindu.com/opinion/lead/the-arithmetic-for-tamil-nadu
4. https://spc.tn.gov.in/12plan_english/3a_AGRI_and_allied.pdf
5. http://tnenvis.nic.in/Database/TN-ENVIS_792.aspx
6. https://www.ibef.org/states/tamil-nadu
7. https://timesofindia.indiatimes.com/city/chennai/tn-services-sectors
8. https://spc.tn.gov.in/aboutus.html

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course								Hours	Credit
IV	E1041 B	Tamil Nadu Economic Development								5	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**				**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	1	2	2	1	2	2	2	1	1.8
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		1	3	2	3	2	2	2	3	3	3	2.4
CO4		2	3	3	2	3	2	3	3	2	3	2.6
CO5		3	2	2	2	3	2	3	2	3	3	2.5
Mean Overall Score												2.5
Result												**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
IV		**Financial Institutions and Markets (Elective Optional)**	5	4

Course Objectives:

S. No.	Course Objectives
1	To familiarize the students with the structure and composition of the financial system.
2	To explain the concepts of Interest rates in the monetary system
3	To understand the quantitative and qualitative tools of monetary policy.
4	To identify the non-banking financial intermediaries activities.
5	To facilitate an understanding of the functioning of the money and capital markets in an economy.

Course Outcomes:

By the end of this course, students will be:

S. No.	CO- Statement	Cognitive Level (K-Level)
CO-1	Acquiring knowledge of financial institutions.	K1, K2
CO-2	Analysing the structure of interest rates in the monetary system.	K2
CO-3	Acquiring the policies implementing on central commercial banks.	K3
CO-4	Learning the nature of financial instruments on banking and non-banking financial intermediaries.	K2
CO-5	Understanding the conceptual framework of financial market and institutions of India.	K4

Unit - I: Nature and Role of Financial System   **(15 Hours)**

Money and finance - Money and near-money-Financial intermediation and financial intermediaries - The structure of the financial system - Functions of the financial sector - Indicators of financial development - Equilibrium in Financial Markets - Financial System and Economic Development

Unit - II: Structure of Interest Rates   **(15 Hours)**

Theories of interest rate determination - Level of interest rates - Long period and Short period rates - Term Structure of Interest rates - Spread between lending and deposit rates - Administered interest rates - Appropriate interest rate policy.

Unit - III: The Central Bank, Commercial Banks and Monetary Policy   (15 Hours)
Functions of Central Bank - The aims and objectives of the monetary policy in developed and

developing countries -Instruments of monetary policy - Proliferation of banking and non-bank financial intermediaries - Effectiveness of monetary policy - Credit creation and its control; Profitability and efficiency of banks

Unit - IV: Non-bank Financial Intermediaries (NBFIs)   **(15 Hours)**
Definition and types of non-bank financial institutions: growth and impact on India's economic development, Measures taken to control their operations.

Unit - V: **Financial Markets**   **(15 Hours)**
Role and structure of money market and capital market - Call money market. Treasury bill market, Commercial bill market: commercial paper and certificate of deposits - Discount market - Government securities market: Primary and secondary market for securities - SEBI: its impact on the working of capital market in India; IRDA and its role in financial markets.

Text Book:
1. Bhole, L.M., Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi. 1999.

References:
1. Bhole, L.M., Indian Financial System, Chugh Publications, Allahabad. 2000.
2. Edminster, R.O., Financial Institutions, Markets and Management, McGraw Hill, New York. 1986.
3. Hanson, J.A. and S. Kathuria (Eds.), India : A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi. 1999.
4. Harker, P.T. and S.A. Zenios (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge. 2000.
5. Johnson, H.J., Financial Institutions and Markets, McGraw Hill, New York. 1993.
6. Khan, M.Y., Indian Financial System, Tata McGraw Hill, New Delhi. 1996.
7. Machiraju, M.R., Indian Financial Systems, Vikas Publishing House, New Delhi. 1999.
8. Prasad, K.N., Development of India's Financial System, Sarup& Sons, New Delhi. 2001

Journals:

1. The Journal of Financial Markets
2. International Journal of Financial Markets and Derivatives
3. Journal of Financial Markets
4. Financial Markets and Portfolio Management
5. Asia-Pacific Financial Markets (formerly Financial Engineering and the Japanese Markets),
6. International Journal of Financial Studies.
7. Journal of Capital Markets Studies

Web links:

1. https://libguides.lums.edu.pk/c.php?g=550787&p=3781454
2. https://wps.pearsoned.co.uk/ema_uk_he_howells_finmark_5/62/15939/4080451.cw/content/index.html

3. https://gbdrrrf.org/system/files/privatefiles/international_financial_institutions_ifis.pdf
4. https://www.investopedia.com/terms/f/financialinstitution.asp
5. https://guides.fscj.edu/finance/web
6. https://www.moneyandbanking.com/
7. https://www.markettraderacademy.com/global-financial-markets

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
IV	E1041 C	Financial Institutions and Markets									5	4
		Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	1	2	2	2	1	1.9
CO2		3	3	2	3	2	3	3	3	3	3	2.8
CO3		3	3	2	3	2	2	2	3	3	3	2.6
CO4		3	2	3	2	2	2	2	3	2	3	2.4
CO5		3	2	2	2	3	3	2	3	3	3	2.6
Mean Overall Score												2.6
Result												High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the course	Hours	Credits
IV	E1042A	Labour Economics and Industrial Relations	5	4

Objectives

S. No	Course Objectives
1	To learn the theoretical and empirical aspects of labour markets.
2	To understand the labour law and its practices.
3	To study the role of labour and their relations in industries.
4	To provide the students a foundation of knowledge of organizations.
5	To make students aware of various aspects of social security.

Outcomes:

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

S. No	CO-Statement	Cognitive Level (K-Level)
1	Enabling the students to labour relations in urban and rural settings under capitalism.	K1, K2
2	Developing the ability to analyze labour policy related issues in labour economics.	K2, K4
3	Understanding the acquisition of education as an investment for the labour supply.	K2,K3
4	Familiaring the students with important labour legislations in India.	K3,K5
5	Expertising to the empirical analysis of contemporary issues in labour economics.	K4,K5

Unit - I: Introduction to Labour Economics   (15 Hours)
Scope, Importance, Nature and Problems of Labour, Labour Market and Analysis of Labour-Demand and Supply. Characteristics of Industrial Labour in India and its Migratory Nature. Labour Movement in India.

Unit - II: Labour Turnover and labour productivity   (15 Hours)
Problem of Absenteeism and Labour Turnover, working conditions and hours of work, Standard of Living and Efficiency of workers, Labour Productivity. Conditions of Child, Women and Bonded labour in India.

Unit - III: Wages and Industrial Disputes   (15 Hours)
Wages Act of 1936 and 1948, Living Wages and Minimum Wages, recent Wage Act. Profit Sharing and Co-partnership, the Bonus Problem and other recent amendments. Industrial Disputes, Prevention and Settlement of Industrial Disputes, Collective Bargaining and Trade Unions, Grievance Procedure.

Unit - IV: Social Security   (15 Hours)
Social Security in India-Labour Welfare in India, Industrial Housing, Labour and Co-operation, Employees State Insurance Act 1948, Employees Provident Funds Act 1952 and Public Provident Fund Act 1968 and its subsequent developments, Bonus Act of 1965 and other fringe benefits.

Unit - V: Industrial Relations in India   (15 Hours)

Scope of Industrial Relations, Labour legislation affecting industrial relations. Labour Administration, Labour Flexibility and Exit Policy. International Labour Organization (ILO) its policies, role, functions and impact on India.

Text Book:
1. Suman Kalyan Chakraborty, "Labour Economics: An Introductory Course", Himalaya Publishing House Pvt. Ltd., Mumbai, 2018.

       Unit – I: Pages 1 - 30

       Unit – II: Pages 91 - 154

       Unit – III: Pages 196 - 220

       Unit – IV: Pages 233 - 319

       Unit – V: Pages 196 - 20

References:
1. Chadda .R,"Labour Economics", Sumit Enterprises, New Delhi, 2011.
2. Singh S.D,"Labour Economics", Centrum Press, Anmol Publication, New Delhi, 2012.
3. Ronald G. Ehrenberg and Robert S. Smith, "Modern Labour Economics", Pearson Education, New Delhi, 2014.
4. SrivatsavaS.C,"Industrial Relations and Labour Laws", S. Chand and Company Ltd, New Delhi, 2012.
5. PiyaliGhosh and ShefaliNandan,"Industrial Relations and Labour Laws", McGraw Hill Education, New Delhi, 2015.

Journals:
1. The Indian Journal of Labour Economics
2. British journal of industrial relations
3. Journal of Labour Economics
4. A Journal of Economy and Society
5. Journal of Industrial Relations

Websites:
1. https://www.himpub.com/documents/Chapter2798.pdf
2. https://en.wikipedia.org/wiki/Labour_economics
3. https://labour.gov.in/
4. http://www.isleijle.org/
5. https://info.ceicdata.com/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course									Hours	Credit
IV	E1042 A	**Labour Economics and Industrial Relations**									5	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**					**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	2	1	2	2	2	1	1.9
CO2		2	3	2	3	2	3	3	3	3	3	2.7
CO3		1	3	2	3	2	2	2	3	3	3	2.4
CO4		3	2	3	2	2	3	2	3	2	3	2.5
CO5		3	2	2	2	3	2	3	2	3	3	2.5

Mean Overall Score	2.5
Result	High

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
IV	E1042B	**Security Analysis and Portfolio Management**	5	4

Objectives:
1. To familiarize with the importance of financial market.
2. To study portfolio management with low level of risk.
3. To disseminate with risk and return.
4. To know about the diversification of business.
5. To illuminate the management analysis, financial analysis and operating analysis.

Course Outcomes:
By the end of this course, students will be:

S. No.	Description	Cognitive Level (K-Level)
CO-1	Observe and annotate money, bond markets counter trading and clearing	**K1,K2**
CO-2	Listen and explain the portfolio construction, diversification and capital market theory	**K1,K2**
CO-3	Generalize and elicit risk and return investment avenues, portfolio management	**K2, K3**
CO-4	Articulate and categorize risk premium, market portfolio, and expected return	**K3,K4**
CO-5	Justify environment analysis, company analysis, and management analysis	**K5**

Unit - I: Financial markets and instruments: **(15 Hours)**
Money and bond markets – equity markets – derivative markets – managed funds – exchange traded funds – exchange trading and Over-The-Counter trading – clearing – settlement – margin trading – short sales and contingent orders – regulation of financial markets.

Unit - II: Portfolio Theory   **(15 Hours)**
Portfolio Construction: Approaches to Portfolio Construction, Determination of Objectives-Selection of Portfolio - Reasons to hold a portfolio-Diversification Analysis-Markowitz's Model- Markowitz efficient frontier - Capital Market theory-CAPM model - Capital Market Line-Security Market Line-Present Validity of CAPM-Arbitrage Pricing Theory (APT)

Unit - III: Risk and Return   **(15 Hours)**
Definition of investment – concept of risk and return – investment avenues – definition of portfolio management – functions of portfolio management – types of managed portfolios.

Unit - IV: Diversification   **(15 Hours)**
Expected portfolio return and variance - risk premium – risky or risk free capital allocation – minimum - variance portfolio frontier - market portfolio - expected return relationships.

Unit - V: Risk Management   **(15 Hours)**
Fundamental Analysis-Economic Environment analysis-Industry Analysis- Company analysis- Operating analysis- Management analysis-Financial Analysis- Approaches to valuation.

Text Book:

1. Fischer, D.E. and Jordan R.J., Security Analysis and Portfolio Management, Ed. 6, Prentice-Hall of India (P) Ltd. New Delhi, 2001.

References:

1. Donald E Fischer & Ronald J Jordan, Security Analysis and Portfolio Management, 7th Edition, Pearson Education, 2018.
2. Edwin J Elton, Martin J Gruber, Stephen J Brown, William N Goetzmann, Modern Portfolio Theory and Investment Analysis, 8th Edition, John Wiley Sons, India, 2013.
3. Robert A. Haugen Modern Investment Theory: United States Edition, Prentice Hall Finance Series, 2000.
4. Prasanna Chandra Financial Management: Theory and Practice, 10th Edition, McGraw Hill Education India, 2019.
5. Jonathan Berk, Peter DeMarzo, Ashok Thampy, Financial Management, Pearson Education, 2010.
6. Charles P Jones Investments: Principles and Concepts, 12th Edition, John Wiley & Sons, International Student Version, 2009.

Websites:

1. https://hpuniv.ac.in/hpuniv/upload/uploadfiles/files/4_2.pdf
2. https://www.worldscientific.com/worldscibooks/10.1142/8116
3. https://www.iare.ac.in/sites/default/files/lecture_notes/IARE_SAPM_Lecture_Notes.pdf
4. https://mec.edu.in/mvlc/ppt/l_mba/ppt_sapm.pdf
5. https://www.udemy.com/course/securityanalysisportfoliomanagement/

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course					Hours		Credit
IV	E 1042 B	Security Analysis and Portfolio Management					5		4

	Programme Outcomes (PO)					Programme Specific Outcomes (PSO)					Mean Scores of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	1	2	2	2	1	1.9
CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	3	3	2	3	2	2	3	3	3	3	2.7
CO4	3	2	3	2	2	2	2	3	3	3	2.5
CO5	3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score											2.6
Result											**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	II CA (50)	

Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20

Semester	Course Code	Title of the Course	Hours	Credits
IV	E1042C	**Co-operation and Rural Development** **(Elective Optional)**	5	4

Course Objectives:
1. To understand the concept of cooperation and its origin.
2. To acquire knowledge of international cooperative movements and its growth.
3. To understand the role agriculture in rural development.
4. To acquire knowledge about financial institutions in rural development.
5. To understand the role of Government in rural development programs.

Course Outcomes:

After the successful completion of the course, the student will be;

Sl. No.	CO – Statements	Cognitive Level
CO – 1	Understanding the history and growth of cooperation in India	K1, K2
CO – 2	Acquiring knowledge of cooperative movement in international level	K2, K3
CO – 3	Understanding the agricultural policy, taxation and rural development	K3, K4
CO – 4	Familiarizing with NABARD, RRBs and SHGs in rural development	K4, K5
CO – 5	Knowing the food for work program, rural credit institutions and rural development programs of Government of India.	K6

Unit – I: Introduction to Cooperation **(15 Hours)**

Principles – Importance and Benefits of Co – operation and other forms of business enterprises – Co – operation and Economic Development- History and Growth of Co – operative Movement in India – Rural Co-operative Credit Structure – Primary Agricultural Credit Co-operative Bank and its working structure, problems – Urban Co-operative Societies and Agricultural Marketing – Consumer Co-operatives.

Unit – II: Co – operative Movements **(15 Hours)**

Co-operative Movement in Selected Countries – History and Growth of Co – operative Movement in Asia and Europe. International Co – operative Alliance. Specialized co-operatives in various countries.

Unit – III: Rural Development **(15 Hours)**

The role of agriculture in development – Agricultural policy: (a) Agricultural Taxation (b) Pricing Policy - Risk aversion and uncertainty in subsistence farming - Sharecropping and Interlocking factor markets – Rural – Urban Migration.

Unit – IV: Financial Institution in Rural Development **(15 Hours)**

RBI and Agricultural Credit Department – Role of NABARD and RRBs – Nature and Structure of Rural Economy –V.M. Dandekar's Approach to Rural Development – Rural Poverty and Rural Unemployment – Nature, Causes and Remedies. Rural Indebtedness – Relief Measures – Role of SHGS and Micro Finance – Micro Finance in India and Bangladesh.

Unit – V: Rural Development Programme of Government of India **(15 Hours)**

Food for Work Programme – Unorganized Rural Credit Institutions - Decentralized Planning and Rural Development - Rural Employment Guarantee Programme – Small Farmers Development Programme – National Rural Employment Guarantee Programme – Financial Liberalization and Rural Credit in India.

Text book:

1. Desai Vasant, "Study of Rural Economics", Himalaya Publishing Company, New Delhi 2000.

        Unit - I: Chapter 1 & 2, Page: 2 – 45.
        Unit – II: Chapter 5 & 6, Page: 80 – 119
        Unit – III: Chapter 7, 9 & 18, Page: 120 – 188 & 348 – 377
        Unit – IV: Chapter 9 & 11, Page: 168 – 188 & 212 – 241
        Unit – V: Chapter 20 & 21, Page: 394 - 450

References:

1. Jalal. R. S – Rural Co-operatives in India, Anmol Publications Pvt. Ltd., New Delhi.
2. Shakuntala Devi – Rural Credit and Agricultural Development, Sarup& Sons, New Delhi - 1996.
3. Hough. E.M – Cooperative Movement in India, Oxford University Press, Bombay -1959.
4. Kulkarni. K.R., Theory and Practice of Cooperation in India and Abroad.
5. Tripathi. S.N. – Cooperatives growth and New Dimensions, Discovery Publishing House, New Delhi 2000.
6. Jain S.P., Indian Rural Economics, Vikas Publishers, New Delhi
7. Reserve Bank of India, Statistics on Indian Economy - Various Issues
8. Ramachandran. V. K and MadhuvaSivammathan, Financial Liberalization and Rural Credit in India (Ed), Tulika Books, New Delhi.
9. Hajela. T. N, Co – operation, Konark Publications Pvt. Ltd, Delhi.
10. Bedi. R. D, Theory & History and Practice of Co-operation, R. Lall Book Depot, Meerut.

Journals for Reference:

1. Journal of Co-operative studies
2. Journal of Co-operative organization and management
3. Journal of cooperatives – Arthur Capper Cooperative Center
4. Cooperative Perspective Journal
5. Indian Cooperative review – connect Journals
6. Indian cooperative review: the quarterly journal of the national cooperative Union of India
7. Journal of Co-operative organization and management.

Web Resources

1. https://www.ukscs.coop
2. https://ncul.coop>journals-publications
3. https://www.sciencedirect.com
4. https://www.cooperativeperspective.in
5. https://connectjournals.com
6. https://www.elsevier.com

Relationship matrix for Course outcomes, Programme outcomes/ Programmes Specific outcomes

Sem.	Course Code	Title of the Course								Hours	Credit
IV	E1042 C	Co-operation and Rural Development								5	4
		Programme Outcomes (PO)					**Programme Specific Outcomes (PSO)**				**Mean Scores of COs**
		PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1		3	2	2	2	1	2	1	2	2	1	1.8

CO2	2	3	2	3	2	3	3	3	3	3	2.7
CO3	1	3	2	3	2	2	2	3	3	3	2.4
CO4	3	2	3	2	2	2	2	3	2	3	2.4
CO5	3	2	2	2	3	2	3	3	3	3	2.6
Mean Overall Score											2.4
Result											**High**

High – (2.1 – 3), Medium – (1.1 – 2), Low – (0 – 1)

Assessment Pattern

Bloom's Category	CA Tests (Marks Allotment)		Term End Exam (100) Marks Allotment
	I CA (50)	**II CA (50)**	
Remember	10	10	20
Understand	10	10	30
Apply	10	10	10
Analyze	10	10	10
Evaluate	5	5	10
Create	5	5	20