DEPARTMENT OF ECONOMICS (AIDED)

CHOICE BASED CREDIT SYSTEM (CBCS) &

LEARNING OUTCOME BASED FRAMEWORK (LOCF)

SYLLABUS

BACHELOR IN ECONOMICS

2022 – 2023 Batch

PROGRAMME LEARNING OUTCOMES: (PLOs)

On completion of the programme students will be able to

PLO1: Acquire in-depth knowledge of the concepts, theories, principles and models to develop basic skills used in the subject of Economics.

PLO2: Understand the various financial and economic sectors of the economy.

PLO3: Acquire managerial, entrepreneurial and computer skills for enhancing their employability.

PLO4: Understand the impact of economic activities in the societal and environmental context and demonstrate the need for sustainable development.

PLO5: Equip with moral values, ethical principles social responsibilities and commitment to the needs of business and society.

PROGRAMME SPECIFIC OUTCOMES (PSOs):

PS01: Graduates with intellectual and analytical skills to understand, analyze and evaluate the economic issues and challenges of day to day life.

PS02: Graduates with higher education in areas closely related to Economics focused towards individual and social development.

PS03: Graduates with evaluative and creative abilities to enable them to take up variety of careers in the field of Academic, Corporate, Administration and Entrepreneurship.

DEPARTMENT OF ECONOMICS
CHOICE BASED CREDIT SYSTEM &LEARNING OUTCOME BASED CURRICULAR FRAMEWORK (LOCF)
SYLLABUS & SCHEME OF EXAMINATION
2022-23 BATCH Onwards

Semester	Part	Subject Code	Title of the Paper		Instruction Hours / Week	Instruction Hours / Sem	Tutorial	Duration of Examination	Examination Marks			Credits
									CIA	ESE	Total	
I	I	TAM2201/ HIN2201/ FRE2201/ MAL2201	Language Paper I Tamil/Hindi/French	Language	6	86	4	3	50	50	100	3
I	II	ENG2101	English Paper I	English	6	86	4	3	50	50	100	3
I	III		**Core**									
		ES22C01	Micro Economics I	CC	5	71	4	3	50	50	100	4
		ES22C02	Indian Economy	CC	5	71	4	3	50	50	100	4
I	III	EG22A01/ HI22A01/ ES22A01/ ES22A02	**Allied (Optional papers)** English through classics I Principles of Modern Government/ Indian Economic Development/ International Marketing	GE	6	86	4	3	50	50	100	5
I	IV	NME22B1/ NME22A1	Basic Tamil Paper - I/ Advanced Tamil Paper - I	AEC	2	28	2	2	50	50	100	2

		NME21ES	Introduction to Entrepreneurship	AEC	2	26	4	2	100		100	
II	I	TAM2202/ HIN2202/ FRE2202/ MAL2202	Language Tamil/Hindi/French Paper II	Language	6	86	4	3	50	50	100	3
II	II	ENG2102	English Paper II	English	5	71	4	3	50	50	100	3
II	III		**Core**									
		ES22C03	Micro Economics II	CC	5	71	4	3	50	50	100	4
		ES22C04	Statistics for Economics	CC	5	71	4	3	50	50	100	5
II	III	EG22A02 HI22A02 ES22A03 ES22A04 ES22A05	**Allied (Optional papers)** English Through Classics/ Indian Constitution/ Economic Analysis/ Basics of Econometrics/ Money and Banking	GE	6	86	4	3	50	50	100	5
II	IV	NME22B2/ NME22A2	Basic Tamil Paper - II/ Advance Tamil Paper - II	AEC	--	--	--	--	--	--	--	-
II	IV	21PEAS1	Professional English for Humanities	AEC	3	45	4	2	50	50	100	2
II	IV	OPS1808	Open course	AEC	Self Study online							
II	VI	NM12GAW	General Awareness	AEC	Self Study	--	--	Online Exam	100	--	100	Gr.
III	I	TAM2203 / HIN2203 / FRE2203	Language Paper III Tamil/Hindi/French	Lang	6	88	2	3	50	50	100	3

II	ENG2203	English Paper III	Eng	5	73	2	3	50	50	100	3
III	ES22C05	**Group A – Core** Mathematical Methods	CC	4	58	2	3	50	50	100	4
	ES22C06	History of Economic Thought	CC	4	58	2	3	50	50	100	4
III	EG22A03 BB22A03 HI22A03 ES22A06	**Group B - Allied Paper II** Cluster Writing for media Income Tax Indian Geography Demography	GE	6	88	2	3	50	50	100	5
III	ES20SBCE	Skill Based Subject - /Coursera 1.Business Analytics Executive overview 2. Business Information Economics and data monetization 3. Business Information management and measurement	SEC	3	45	-	-	100		100	3
	NM22EVS	Environmental Studies	AEC	Self Study				100		100	Gr
	NM22UHR	Universal Human Values and Human Rights	AEC	2	30			100		100	2
VI	JOB1903	Job Oriented Course – Foundation Course for Civil Service Examination/Higher Learning		--	60	--	--			--	Gr

CC-Core Courses; AEC – Ability Enhancement Course; GE-Generic Elective; CA- Continuous Assessment; ESE- End semester Examination

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
ES22C01	**Micro Economics I**	C	71	4	-	4

PREAMBLE

To provide an understanding of the Nature and Scope of Economics, Basic Concepts, Principles and laws pertaining to the behavior of Consumer and Producer

COURSE OUTCOMES

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

CLO Number	CLO Statement	Knowledge Level
CLO1.	Define Wealth, Welfare, Scarcity, Growth Deductive method, Inductive method, Cardinal utility, ordinal utility, marginal utility, total utility, indifference curve, Law of demand, Revenue, Indifference map, Income effect, Price effect	K1
CLO2.	Explain the nature of economic laws, Relationship between Marginal utility and Total Utility, factors affecting demand and supply, Factors of production, nature of cost curves	K2
CLO3.	Understand Economics and dynamics, exception of law of demand- factors affecting supply- scale of production- short run and long run production function - Marginal rate of technical substitution, short run and long run cost curves	K3
CLO4.	Examine law of diminishing marginal utility, law of equi marginal utility, law of supply, law of Variable Proportion, Returns to scale, Cobb-Douglas production function, Importance of Economics as science and art, consumer surplus- Revealed preference theory- Elasticity of demand-Measurement- Production functionCES linear production function, Types of cost- Relationship between AR and MR	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	M
CLO2.	S	S	S	M	M
CLO3.	S	S	M	M	M
CLO4.	S	S	S	S	M

S- Strong; M-Medium; L-low

CORE PAPER I -MICRO ECONOMICS I   ES22C01

Unit I- Introduction 14Hrs
Definition-Wealth, Welfare, Scarcity, Growth Definition. Methods- Nature of Economic Laws- Deductive method- Merits and Demerits-Inductive method-Merits and Demerits-Economics as a science-Economics as an arts-Nature of Economic laws-Positive and Normative approaches- Economics statics and Dynamics.

Unit II- Consumer Behavior: 15 hrs
Utility- Cardinal and ordinal utility analysis- Law of Diminishing Marginal Utility-Relationship between Marginal utility and Total Utility- Law of Equi-marginal utility-Indifference curve analysis- Indifference schedule-Indifference map- Properties-Consumer equilibrium-Income effect-Substitution effects and price effects- Revealed preference theory.

Unit III – Demand Analysis : 15 hrs
Meaning of demand-Demand function, Demand schedule-Law of demand-Exception of law of demand-factors affecting demand-movement and shift in demand- elasticity of demand-degrees-types-measurement of elasticity-factors determining elasticity of demand-consumer surplus-supply-law of supply-factors affecting supply.

Unit IV – Production: 14hrs
Meaning-Factors of production-Scale of production- Production function-Linear -Cobb-Douglas-CES Production function-short and long run production function -ISO quant's-Marginal Rate of Technical Substitution-Law of Variable Proportion-Returns to scale.

Unit V – Cost and Revenue 13 hrs
Meaning of cost: Types-Money cost and Real cost- Implicit and Explicit cost-Historical and Replacement cost-Increment and Sunk cost-Opportunity cost- short run and long run cost curves-Total Cost, Fixed Cost, Average Cost, Marginal Cost, nature of cost curves-Revenue curve-Total Revenue, average Revenue, Marginal Revenue- Relationship between AR and MR curve

TEXT BOOK	1.P.N.Chopra	Advanced Economic theory Micro and Macro	Kalyani Publishers	2011
	2. Sankaran .S	Micro Economics	Margham Publications, Chennai	2014
REFERENCE	1. Kaveri R. and others	Micro Economic Theory	S.Chand and Company Ltd , New Delhi.	2010
	2. Ahuja H.L.	Principles of Economics	S.Chand and Company Ltd , New Delhi.	2014
	3.Jhingan M.L.	Micro Economics	Vrinda Publications(P)Ltd, Delhi	2015

Pedagogy: Chalk and Talk, PPT, Group Discussion, Debate and Seminar
Course Designers:

1.Dr. K.RenukaAssociate Prof, Department of Economics

2. Dr.C.Athena Assistant Professor, Department of Economics

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
ES22C02	**INDIAN ECONOMY**	C	71	4	-	4

PREAMBLE

To introduce the students the fundamental topics in development & planning and to provide a comprehensive approach towards issues related to development & planning.

COURSE OUTCOMES

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

CLO Number	CLO Statement	Knowledge Level
CLO1.	Define basic concepts in Economic Growth and Development, Determinants of growth, industrial policy, unemployment- Agricultural Marketing, Green Revolution, Agricultural Finance- NABARD	K_1
CLO2.	Understand the features of developed nations- defects of agricultural marketing, Indian Agriculture, Causes for Low Productivity- Agricultural Finance-Need for credit	K_2
CLO3.	Explain the difference between growth and development-Role of agriculture- Sources of NABARD - Role and Problems of MSMEs Large Scale Industries -Causes and measures to improve capital Formation in India- Achievements	K_3
CLO4.	Discuss the features of Indian Economy, Agricultural marketing measures – Industrial policies - Population in India, Poverty – causes and measures - employment generation schemes Impact of Industry 4.0 and 5.0, five year plans, Liberalisation, Privatisation and Globalisation.	K_4

Mapping with Programme Outcomes

COs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	S
CLO2	S	S	M	S	S
CLO3	S	S	S	S	S
CLO4	S	S	S	S	S

S- Strong; M-Medium; L-Low

CORE PAPER II – INDIAN ECONOMY   ES21C02

UNIT I : 14 hrs

Meaning of Economic Growth and Development – Difference- Determinants of Growth - Features of Developing Countries – Features of Indian Economy – Features of Developed Countries- major issues of Development

UNIT II: 14 hrs

Meaning of Indian Agriculture – Role – features- Causes for Low Productivity – Measures to improve Agricultural productivity- Green Revolution – Agricultural Marketing – Regulated & Unregulated market – Meaning- Defects – Measures - Agricultural Finance- Need for credit- Non-Institutional sources- Institutional sources- Cooperative credit society- Commercial Banks- NABARD

UNIT III: 18hrs

Concept of Industrialization –Industrial Policy Resolution 1948, 1956 and New Industrial Policy 1991 –Role and Problems of MSMEs- Large Scale Industries –Introduction to Industry 4.0 - Need for Adopting Industry 4.0 - skills required- Impact of Industry 4.0 on Society, Business, Government and People - Introduction to 5.0 - Capital Formation – Meaning – Process.

UNIT IV : 13hrs

Population in India – Size and Growth - Density of Population – Highlights of current Census - National Population Policy 2000 – Poverty in India – Causes – Measures - Unemployment – Types – Measures-Causes of Brain Drain

UNIT V : 12hrs
Planning –Five Year Plans- Objectives -Achievements– Liberalisation, Privatisation and Globalisation – Meaning, Merits and demerits – NITI Aayog.

TEXT BOOK	1.Sankaran.S	Indian Economy (Problems, Policies and Development	Margham Publications, Chennai.	2013
	2.Dutt &Ruddar	Indian Economy	S.Chand Publishers, New Delhi.	2012
REFERENCE	1. Agarwal. A.N	Indian Economy	WishwaPrakashan New Delhi	2012
	2.Dhingra.IC	Indian Economy	Sultan Chand and Sons, New Delhi	2014
	3. Misra&Puri	Indian Economy	Himalaya Publishing Houses, Mumbai	2019
Related Online Contents :1.Introduction to Industry 4.0 and Industrial Internet of Things by Prof.SudipMishra,IITKharagpur.				
2. A Complete Guide to Industry 4.0-Udemy				

Pedagogy : Chalk and Talk, PPT, Group Discussion, Debate
Course Designers:
1.Dr.Mrs. C.Athena, Associate Prof. Dept. of Economics.
2.Dr.Mrs. S.PadmaAnnakamu, Asst. Prof., Dept. of Economics.

Course Number	Course Name	Category	L	T	P	Credit
ES22A01	INDIAN ECONOMIC DEVELOPMENT	A	86	04		5

Preamble

   To impart the students with the knowledge on Indian economic development process, Budget and planning

Course Outcomes

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

CLO Number	CLO Statement	Knowledge Level
CLO1.	Understand the meaning of growth and development, green revolution, , new economic policy-liberalisation, globalization, privatization- Small scale industry poverty, unemployment, agricultural marketing, budget, Planning, National Income	K1
CLO2.	Explain the growth and development- role of NABARD- importance of industrialization - role of agriculture-causes for low productivity-features-causes for population and poverty	K2
CLO3.	Illustrate major issues of development-Agricultural marketing – defects-Large scale industries-Government programmes to reduce unemployment- uses of National Income - measures, Role and problems of MSMEs	K3
CLO4.	Discuss the Industrial policies 1948, 1956, New industrial policy, effects, Five year Plans, procedure for preparing the budget Measurement of national income- Difficulties in calculation - types of budget, Five year plans - current budget	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	H	H	S	S	S
CLO2.	S	S	M	S	S
CLO3.	S	S	S	S	S
CLO4.	S	S	S	S	S

S- Strong; M-Medium; L-Low

Syllabus

SEMESTER I - ALLIED PAPER I – INDIAN ECONOMIC DEVELOPMENT
ES22A01

UNIT I : 17 hrs.
Meaning of Economic Growth and Development – Difference- Determinants of Growth - Features of Under Developed Countries – Features of Indian Economy – Features of Developed Countries- major issues of Development

UNIT II : 18 hrs.

Indian Agriculture – Role – Causes for Low Productivity –Measures to improve Agricultural Productivity- Green Revolution – Agricultural Marketing – Defects –Measures – Role of NABARD.

UNIT III : 16 hrs.
Concept of Industrialization –Industrial Policy 1948, 1956 and New Industrial Policy –Role and Problems of **MSME**s- Large Scale Industries

UNIT IV : 19 hrs.
Population – Causes – Measures - Poverty – Causes – Measures - Unemployment –Causes- Measures- Government Programmes to reduce unemploymentand Poverty

UNIT V : 16 hrs.
Planning – Meaning – Need – Five Year Plans – National Income – Measurement – Uses – Difficulties- Budget –Meaning – Preparation of Budget – Current Budget
TEXT BOOK

1.Sankaran.S	Indian Economy (Problems, Policies and Development	Margham Publications, Chennai.	2013
2.Dutt &Ruddar	Indian Economy	S.Chand Publishers, New Delhi	2012
3. S.S.Acharya	Agricultural Marketing	Oxford & IBH Publishing	2019

REFERENCE BOOKS

REFERENCE	1. Agarwal.A.N	Indian Economy	WishwaPrakashan New Delhi	2012
	2.Dhingra.IC	Indian Economy	Sultan Chand and Sons,New Delhi	2014
	3. Misra&Puri	Indian Economy-Its development-experience	Himalaya Publishing Houses, Mumbai	2019

Pedagogy: Lecture (Chalk & talk), group discussion, OHP, debate, Quiz.
Course Designers:
1.Dr.Mrs. K. Renuka, Associate Prof. Dept. of Economics
2.Dr.Mrs.S.PadmaAnnakamu, Asst. Prof., Dept. of Economics.

Course Number	Course Name	Category	L	T	P	Credit
ES22A02	INTERNATIONAL MARKETING	A	86	04		5

Preamble

To impart knowledge on concepts of International marketing, regional economic co-operation polices and market research techniques.

Course Outcomes

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

CLO Number	CO Statement	Knowledge Level
CLO1.	Define the concepts of International marketing, trading blocks, economic development, internet, ASEAN, NAFTA, SAFTA, COMECON, MNCs, Marketing Research, Regional Co-operation Production Possibility Curve, Principle of Absolute Advantage , Principle of Relative Advantage, Factor Endowment theory, Porter's diamond model	K1
CLO2.	Understand Production Possibility Curve, Principle of Absolute Advantage , Principle of Relative Advantage, Factor Endowment theory, Porter's diamond model.	K2
CLO3.	Discuss Need for marketing research, Sources of Information, Primary research, Secondary research, Sampling, Basic methods of data collection.Examine Economic Co-operation Agreements, Trading blocks, Multinational Market Regions and Market Groups.	K3
CLO4.	Understand the stages of economic development with features in order to know required markets and making business decision.Discuss the International Market Selection, Segmentation , Market Selection Process , Strategies ,International Marketing	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	S
CLO2.	S	S	S	S	S
CLO3.	S	S	S	S	S
CLO4.	S	M	S	S	S

S- Strong; M-Medium; L-Low

SEMESTER I -ALLIED PAPER II - INTERNATIONAL MARKETING ES22A02
Unit I : 18 hrs.

Basic concepts of International Marketing: Meaning of International marketing –
Definition – Domestic Marketing Vs International Marketing- Characteristics of
Firms operating in International Markets -Benefits of International Marketing and
Barriers - Foreign Market Entry Modes –Multinational Corporations and Global
Corporations

Unit II : 17 hrs
Foreign Trade: Production Possibility Curve – Principle of Absolute Advantage –
Principle of Relative Advantage– Factor Endowment theory – Porter's diamond
model- Limitations of Trade Theories- Evaluation of Trade Theories

Unit III : 17 hrs.
Market research and Information systems: Need for marketing research, Sources of
Information, Primary research, Secondary research, Sampling, Basic methods of data
collection, Marketing Information systems
Unit IV : 17 hrs
Economic Market Groups: Economic Co-operation Agreements – Trading blocks
EEC - EFTA, COMECON - NAFTA - LAFTA - CEFTA - ASEAN - Multinational
Market Regions and Market Groups.
Unit V : 17 hrs
Potential Market Assessment: International Market Selection – Segmentation – Data
mining and market segmentation – Market Selection Process – Strategies –
International Marketing: Planning and Control.

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TEXT BOOK

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1.Philip R. Cateora, John L. Graham, R.Bruce Money, Mary C.Gilly	International Marketing	Mc-Graw Hill, New Delhi.	2019
2. Natarajan L	International Marketing	Margam Publishers, Chennai	2015

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REFERENCE BOOKS

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1. Francis Cherunilam	International Marketing	Himalaya Publishing House,Mumbai	2016
2.Srinivasan.R	International Marketing	Prentice Hall of India, New Delhi	2016
3. Varshney RL B.Bhattacharyya	International Marketing Management	Sultan Chand Publishers, New Delhi.	2012

Pedagogy: Lecture (Chalk & talk), group discussion, visualisation, concept simulation,
debate.

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Course Designers:

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1.Dr.C.Athena, Associate Prof. Dept. of Economics
2.Mrs. N.V.Kavitha, Asst. Prof., Dept. of Economics.

Course Number	Course Name	Category	L	T	P	Credit
NME261ES	Introduction to Entrepreneurship		26	4	-	2

Unit 1:(5 hrs)

Nature of Entrepreneurship: (3 hrs)

Meaning – Definition – Need of Entrepreneurship - Characteristics of Entrepreneurship - Importance of Entrepreneurship to the nation.

Activity: Assignment, Interaction (2 hrs)

Unit 2: (6 hrs)

Role of Entrepreneur (4 hrs)

Factors Influencing Entrepreneurship – Functions of Entrepreneurial Management – Barriers to Entrepreneurship - Pros and cons of Entrepreneurship.

Activity: Quiz / Role Play (2 hrs)

Unit 3: (6 hrs)

Business and Environment: (4 hrs)

Types of Entrepreneurs - Styles of Entrepreneurs – Business Ethics and Social Responsibility of Business – Indian Business Environment.

Activity: 50 Rupees Venture (2 hrs)

Unit 4: (6 hrs)

Creativity and Innovation: (4 hrs)

Identification of Business – Preparation of Business plan – Significance of Business plan – Components of Business plan- Feasibility Study: (Innovative ideas for marketing)

Activity: Business Plan (2 hrs)

Unit 5: (7 hrs) (7 hrs)

Project:

- **Interface with Successful Entrepreneurs**
- **Role of Financial Institutions / Supporting Agencies.**

Note: Interface   – 4 hrs

        Presentation   – 3 hrs

Reference Books

1. Entrepreneurial Development - Gupta CB & Srinivasan N P, Sultan Chand & Sons, 6th Edition, 2005

2. Projects - Planning, Analysis, Financing, Implementation & Review - Prasanna Chandra, Tata McGraw Hill Publishing Co. Ltd, New Delhi, 2006

Internal Pattern

CIA I and II – 50 Marks(2 hrs) Each - 100 marks Converted into   60 Marks

Activity(Quiz-5, Assignment-5, Business Plan-5, 50 Rs venture -5)   20 Marks

Project   20 Marks
                                                                                                                        _____

          Total   -   100 Marks

Question paper pattern for CIASection-

A(Paragraph answers-4 out of 6) 4x5=20marks

Section-B(Essay type-2 out of 3) 2x15=30marks

Total=50marks

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
ES22C03	**MICRO ECONOMICS II**	C	71	4	-	4

PREAMBLE

To impart an understanding about the behavior of the producer in different type of markets and pricing of factors of production

COURSE OUTCOMES

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

CLO Number	CLO Statement	Knowledge Level
CLO1.	Define Market , Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly ,Product Pricing, Factor Pricing ,Rent Wages, Interest and Profit, Modern theory of rent, Transfer earnings, Wages	K1
CLO2.	Distinguish between different type of market, market price and nominal price, nominal and real wages, Gross interest and net interest, gross profit and net profit	K2
CLO3.	Explain factors influencing markets, role of Time Element in Value Analysis, types of price discrimination, Reason for price rigidity classification of oligopoly, Kinked demand curve and Cournot model.	K3
CLO4.	Analyse equilibrium and price determination in different type of markets both in product market and factor market and equilibriumunder monopolistic competition, theory of wages and interest.	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	M
CLO2.	S	S	M	S	M
CLO3.	S	S	M	M	M
CLO4.	S	S	S	M	M

S- Strong; M-Medium; L-Low

<div align="center">**Syllabus**

CORE PAPER III -MICRO ECONOMICS II ES22C03</div>

UNIT I : 13 Hrs

Market-Meaning-Features of market-Classification of markets-Firm and Industry- Meaning- Perfect Competition-Equilibrium of firm and Industry-Short run and long run- Pricing under perfect competition- Effects of changes in demand and supply-importance of time element in price theory.

UNIT II : 14 Hrs

Monopoly- Definition-characteristics-Types-Causes of monopoly-price and output determination in short run and long run-measurement of monopoly power-Regulation of monopoly-price discrimination-forms-degrees-effects of price discrimination-dumping.

UNIT III : 14 Hrs

Monopolistic competition- definition- features-equilibrium under monopolistic competition-individual and group equilibrium in short run and long run – excess capacity-chamberlains view of excess capacity-selling cost-difference between production cost and selling cost- wastages of monopolistic competition.

UNIT IV : 15 Hrs

Oligopoly-Meaning-Features-Classification-Price leadership-Types-Kinked demand curve- Reason for price rigidity-Duopoly- Edgeworth, Chamberlin - Cournot model.

UNIT V: 15 Hrs

Theory of factor pricing-marginal productivity-theory of factor pricing-rent-Ricardian theory of rent-Quasi rent-Modern theory of rent-Transfer earnings-Wages- Nominal and real wages- theory of wages-subsistence theory-wage fund theory-marginal productivity theory of wages-interest-gross and net interest- classical theory of interest- liquidity preference theory of interest-profit- gross profit-net profit-uncertainty theory of profit and innovation theory of profit.

TEXT BOOK	1.Sankaran S	Micro Economics	Margham Publications – Chennai	2014
	2.Jhingan M.L.	Micro Economics	Vrinda Publications(P)Ltd, Delhi	2015.
REFERENCE	1. Kaveri R. and others	Micro Economic Theory	S.Chand and Company Ltd , New Delhi.	2010
	2. Ahuja H.L.	Principles of Economics	S.Chand and Company Ltd , New Delhi.	2014
	3. Amitkumar Upadhyay	Principles of Economics	Vikas Publishing	2014

Pedagogy : Chalk and Talk, PPT, Group Discussion, Debate and Seminar

Course Designers

1. Dr. K.Renuka Associate Prof. Department of Economics

2. Dr.C.Athena Assistant Professor Department of Economics

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
ES22C04	STATISTICS FOR ECONOMICS	C	71	04		5

PREAMBLE

To impart the students with the knowledge of gathering, analyzing and interpretation of data to draw conclusions.

COURSE OUTCOMES

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

CLO Number	CLO Statement	Knowledge Level
CLO1	Define the concepts of Statistics, Collection of Data, and Classification and tabulation of Data, Measures of Central Tendency - Dispersion Inter Quartile – Mean Deviation – Standard Deviation – Co-efficient of Variation	K1
CLO2	Differentiate between Regression and Correlation, Graphic Method- Algebraic method- Experiments and events – Theoretical Distribution	K2
CLO3	Understand the features, importance and functions of statistics, Mean, Median, Interquartile coefficient of variation – methods of Dispersion- Role of Poisson distribution-Importance and properties of binomial and normal distribution	K3
CLO4	Analyze the measures of Central Tendency - Karl Pearson's Co- efficient of Correlation-Spearman's Rank Co-efficient of Correlation, Probability –Bayes Theorem, Theoretical Distribution	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	S
CLO2.	S	S	S	S	M
CLO3.	S	S	S	S	S
CLO4.	S	M	S	S	S

S- Strong; M-Medium; L-Low

CORE PAPER V – STATISTICS FOR ECONOMICS   ES22C04

UNIT I: 13 hrs

Statistics – Meaning , Definition ,Characteristics ,Statistics Science or Art , Importance , Functions , Limitations - Collection of Data , Meaning , Classification and tabulation of Data , Diagrammatic presentation , Meaning Types.

UNIT II: **14 hrs**
Measures of Central Tendencies –Average - Arithmetic Mean, Median and Mode-Dispersion, Meaning, Methods ,Range – Inter Quartile – Mean Deviation – Standard Deviation– Co-efficient of Variation.

UNIT III: 15hrs
Correlation- Definition- significance- Types- Methods of studying correlation- Graphic Method-Mathematical method-Karl Pearson's Co- efficient of Correlation-Spearman's Rank Co-efficient of Correlation- Regression- Definition- Graphic method- Algebric Method.

UNIT IV: 14hrs
Probability- Definition-Importance of concept of probability- Experiments and Events- Theorems of Probability- Addition Theorem- Multiplication Theorem- Conditional Probability- Bayes theorem-Mathematical expectation.

UNIT V: 15hrs

Theoretical Distribution- Binomial Distribution- Meaning- Properties- Importance-Applications of binomial distribution (simple problems)- Poisson Distribution- Meaning- Role of Poisson Distribution- Application(simple problems) Normal Distribution- Meaning- Importance- Properties- Conditions for normality- Area under normal curve.

TEXT BOOK	1.R.S.N.Pillai& Bhagavathi	Statistics	S Chand & Co. Ltd., New Delhi	2010
	2.Gupta S.P	Statistical methods	S.S.Chand Co Ltd., New Delhi	2016
REFERENCE BOOK	1. B.L.Agarwal	Basic Statistics	New age International private Ltd.	2013
	2. N.G.Das, J.K.Das	Business Mathematics and Statistics	MCGraw Hill Education	2017
	3.S.P.Gupta &M.P.Gupta	Business Statistics	Sultan chand&sons, New Delhi.	2014

25 percent of the Question Paper should contain Theory Questions

Course Designers:
1. Dr.MrsK.Renuka Associate Professor, Department of Economics
2. Dr.Mrs. C. Athena, Assistant Professor, Department of Economics

Course Number	Course Name	Category	L	T	P	Credit
ES22A03	**ECONOMIC ANALYSIS**	A	86	04		5

Preamble

To enable the students to understand the nature and scope of Economics and to impart knowledge on consumer behaviour, producer behaviour and factor pricing.

Course Outcomes

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

CLO NUMBER	CLO STATEMENT	KNOWLEDGE LEVEL
CLO1.	Define and list out various Economic concepts like wants, utility demand, supply, elasticity, cost, production, factors of production, perfect competition, monopoly, Price discrimination, monopolistic competition and Oligopoly.	K1
CLO2.	Understand the producer goods and consumer goods, perishable goods and durable goods, autonomous demand and induced demand – Price discrimination types- monopolistic competition and oligopoly	K2
CLO3.	Explain the law of demand, supply, types of elasticity indifference curves, indifference map, Isoquant, Producer's equilibrium, Economies and diseconomies of scale – Liquidity Trap	K3
CLO4.	Describe theories on distribution of wealth, principles relevant to supply of goods and producer behaviour under various market structures, Law of Variable Proportions, Laws of Returns, Returns to Scale, theory of Interest	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	S
CLO2.	S	M	S	S	S
CLO3.	S	S	S	S	S
CLO4.	S	S	S	S	S

S- Strong; M-Medium; L-Low

UNIT I : 16 hrs.
Economics – Definition – Nature – Scope - Objectives of Firm – Social responsibilities of firm – Utility Analysis – Law of Diminishing Marginal Utility – Law of Equi-Marginal Utility.

UNIT II : 16 hrs.
Demand – Meaning - Types- - Law of Demand-Exceptions -Indifference Curve Analysis – Properties- Elasticity of Demand – Types- Measurement

UNIT III : 18 hrs.
Production – Factors of production – Production Function– Laws of Returns – Law of Variable Proportions – Isoquants- Returns to Scale – Economies and Diseconomies of Scale – Law of Supply – Cost and Revenue concepts and curves.

UNIT IV :20 hrs.
Market–Meaning–Types – Equilibrium of the firm – Industry – Pricing under Perfect Competition – Monopoly – Price Discrimination – Pricing under Monopolistic Competition – Pricing under Oligopoly.

UNIT V : 16 hrs.
Distribution- Marginal Productivity Theory – Theories of Wages – subsistence theory- wage fund theory- Theories of Rent —Ricardian theory of rent-Quasi rent- Modern theory of rent- classical theory of interest- liquidity preference theory of interest-uncertainty theory of profit and innovation theory of profit.

TEXT BOOK

1.Sankaran.S	Economic Analysis	Margham Publications, Chennai	2012
2.Robert Pindyck Daniel Rubinfeld	Micro Economics	Pearson Education	2017

REFERENCE BOOKS

1. Mas-Colell, Whinston, JerryR.Green	Micro Economic Theory	Oxford Publisher	2012
2. Varshini and Maheswari	Managerial Economics	Sultan Chand and Son's , New Delhi	2012
3.Dr. Vishwanath B.K	Priniciples of Economics	Chandra LokPrakshan, New Delhi	2013

Pedagogy: Lecture (Chalk & talk), group discussion, OHP, role play, Quiz.

Course Designers:
1. Dr.Mrs.K.Renuka Associate Professor, Department of Economics
2. Dr.S.Padma Annakamu, Assistant Professor, Department of Economics

Course Number	Course Name	Category	L	T	P	Credit
ES22A04	**BASICS OF ECONOMETRICS**	A	86	4		5

Preamble

To make the students to understand the basic concepts in Econometrics and to empirically verify economic relationships.

Course Outcomes

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

CLO Number	CLO Statement	Knowledge Level
CLO1.	Define the concepts like econometric research- Economics, statistics - data hypothesis forecasting –linear function - trend value hetroscedasticity autocorrelation multicollinearity dummy variable dummy variable trap	K1
CLO2.	Explain the properties of estimators properties of OLS estimators – Distinguish between simple and multiple regression model - auto Correlation - hetroscedasticity- multicollinearity-OLS principles - uses of dummy variables	K2
CLO3	Illustrate the methodology of econometric research – validation of OLS estimation of a simple regression model – Dummy variable Trap	K3
CLO4	Examine the exponential functions - the functional forms of regression model testing the hypothesis - Analysis of variance – violation of OLS assumptions	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	M	S
CLO2.	S	S	S	S	S
CLO3.	S	M	S	S	S
CLO4.	S	S	S	S	S

S- Strong; M-Medium; L-Low

SEMESTER -II - ALLIED PAPER IV – BASICS OF ECONOMETRICSES22A04

UNIT I : 18hrs.

Econometrics – Meaning – Scope – Basic concepts-Theoretical econometrics – Applied econometrics – Methodology of Econometric research.

UNIT II : 16 hrs.

Simple Linear Regression model – Assumptions – OLS principles –Properties of OLS estimators (without proof).

UNIT III : 18 hrs.

OLS estimation of a multiple regression model – Significance of the estimated parameters – Error Term

UNIT IV : 18 hrs.

Violation of OLS Assumptions – Hetroscedasticity – Autocorrelation – Multicollinearity: Meaning – Causes – Consequences-Measures.   [Theory only]

UNIT V : 16 hrs.

Dummy variable –meaning-uses- significance-Dummy variable model- Dummy   variable Trap.

TEXT BOOK

| 1.Damodar .N. Gujarati | Essentials of Econometric | McGraw Hill Book Co, New Delhi | 2012 |
| 2. Christopher Dougherty | Introduction to Econometrics | Oxford University Press, New Delhi | 2011 |

REFERENCE BOOKS

1. Koutsoyoannis. A	Theory of Econometrics	Macmillan, Great Britain.	2015
2. Maddala.G.S	Introduction to Econometrics	John Wiley & Sons Ltd, New York	2012
3.Navdeep kaur&Arul pragasams.shymala	Econometrics	Vishal publishing .co, New Delhi	2013

Pedagogy: Lecture (Chalk & talk), group discussion, OHP.

Course Designers:

1.Dr.Mrs.C.Athena, Associate Prof. Dept of Economics
2. Dr.S.PadmaAnnakamu Assistant Professor, Dept of Economics

COURSE NUMBER	COURSE NAME	CATEGORY	L	T	P	CREDIT
ES22A05	MONEY AND BANKING	A	86	04	-	5

PREAMBLE

To impart knowledge on banking functions, role of money in a modern economy and recent trends in banking sector reforms.

COURSE OUTCOME

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

CLO Number	CLO Statement	Knowledge Level
CLO1.	Define Money value, supply, demand, Fiat money, Near money, Credit money, Monetary standard, Inflation, Inflationary gap, Green banking-Deflation, Stagflation, Trade cycle, Innovative Banking – ATM – Teller System	K1
CLO2.	Explain the merits and demerits of Mono-metallism, Distinguish the difference in theories of demand and supply of money, factors influencing demand and supply of money, Cambridge equations and classical equations of money.	K2
CLO3.	Illustrate the types of inflation, analyse the causes, consequences of inflation and deflation, reasons for Inflationary gap, the role of money in a modern economy, Green banking Products	K3
CLO4.	Examine the importance of money in a modern economy, principles and methods of note issue, methods of credit control and role of banks in development process, Functions of central bank.	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	S
CLO2.	S	M	S	S	S
CLO3.	S	S	S	S	S
CLO4.	S	S	S	S	S

S- Strong; M-Medium; L-Low

SEMESTER II -ALLIED PAPER-V - MONEY AND BANKINGES22A05

UNIT I : 16 hrs.
Money – definition - Evolution Money – Kinds - Functions –Significance - Drawbacks of Money-–money in a Capitalist Economy and Socialist Economy – in a developing and mixed economy-circular flow of money.

UNIT II : 16 hrs.
Monetary Standard–meaning – attributes of a good monetary standard - Types of Monetary standard – metallic standard - Monometalism – Bi -metalism – Gresham's Law - Paper currency standard –special features-Merits and Demerits- Principles and Methods of Note Issue - Cryptocurrency.

UNIT III : 18 hrs.
Value of Money – Supply of Money –Different view of money supply - Determinants of Money supply – supply function – Demand for Money – Fisher's Quantity Theory – Cambridge Equations – Keynes' Income Theory – Friedman's Restatement of Quantity Theory.

UNIT IV : 18 hrs.
Inflation –Meaning –Features –Causes – Impact - Types – Control monetary policy – Inflationary Gap – Deflation – Meaning -Causes – Control – Stagflation – Trade Cycle – Phases of Trade Cycle– Control.

UNIT V : 18 hrs.
History of Banking System - Commercial Banking – structure and functions - Role of Commercial Banks in Economic Development - Development Banking – features- structure of development banks in India - Central Banking - Functions of Central Bank –- Recent Trends in Banking – Green Banking-Products of Green Banking.

TEXT BOOK

1. Jhingan M.L	MonetaryEconomics	Vrinda Publications Pvt. Ltd. , New Delhi	2010
2. Seth ML	Monetary Economics	Lakshmi Narayan, N.D.	2012

REFERENCE

1.R.R.Paul	Money Banking and International Trade	Kalyani Publisher	2018
2.Kavery.K U.K Sudha Nyaik and others	Monetary Economics	S.Chand and Company Ltd	2012
3.Dr.DD.Chaturvedi, VaibhavPuri	Money & Banking	Kitab Mahal Publisher	2018

Pedagogy: Lecture (Chalk & talk), group discussion, PPT, debate, role play.

Course Designers:

1.Dr.Mrs.C.Athena, Asst. Prof. Dept of Economics

2.Mrs.N.V.Kavitha, Asst Prof. Dept of Economics

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
ES22C07	MATHEMATICAL METHODS	C	58	2		4

PREAMBLE

To impart the students to understand the Mathematical tools to be applied in economic models.

COURSE OUTCOMES

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

CLO NUMBER	CO Statement	Knowledge level
CLO1	Define limit function, slope, differentiation, Marginal revenue, Average revenue, Marginal cost, matrix, Rank of Matrix, Inverse of a matrix, Determinants, Integration , consumer surplus, producer's surplus, total revenue, total cost, constraint optimization, crammer's rule	K1
CLO2	Distinguish between function and equation, relationship between Maxima and Minima, Average and Marginal Revenue and Cost, first order and second order Partial and Total Differentiation, producer's surplus, consumer surplus,	K2
CLO3	Determine the rules of Differentiation Addition, multiplication rule, Division rule, chain rule, Inverse rule – Elasticity of demand. Operation of Matrices – addition, subtraction, Inverse of a matrix rules of integration.	K3
CLO4	Analyze & examine the role of Mathematics in Economic theory, consumer's and producer's surplus, Derivation of utility maximization, conditions for Maxima and Minima – Higher order derivatives, determinants, crammer's rule, Input – Output analysis for a two sector economy, Economic Application of total cost and total revenue	K4

Mapping with Programme Outcomes

CLOS	PLO1	PLO 2	PLO3	PLO 4	PLO5
CLO1	S	S	S	S	S
CLO2	S	S	S	M	S
CLO3	S	S	S	S	S
CLO4	S	S	S	S	S

S – Strong; M- Medium; L –Low

SYLLABUS

CORE PAPER VII - MATHEMATICAL METHODS – ES22C07

UNIT :12 hrs
Nature and Scope of Mathematical Economics – Role of Mathematics in Economic Theory – Functions – Meaning – Types – Slope - Limit – **Differentiation – Meaning - Rules of Differentiation –** Addition - Subtraction – Multiplication – Division – Chain Rule – Implicit Function Rule.

UNIT II:11 hrs
Higher Order Derivatives – Introduction – Utility Function – Maxima and Minima of a Function – Conditions for one variable and two variables - **Revenue Maximization – Cost Minimization – Profit Maximization –** Market Equilibrium – Demand Analysis.

UNIT III: 11 hrs
Partial Differentiation – Meaning – **Direct Partial and Cross Partial Differentiation - First Order – Second Order partial derivatives -** Total Differentiation – Differentiation with Two Variable Model – Constrained Optimization – Maxima and Minima condition –Saddle Point – CD Production Function – Meaning – **Euler's Theorem (Simple Problems)**.

UNIT IV:12 hrs
Matrix – Meaning – Order of matrix – Types - Addition – Subtraction – Multiplication – Trace and Transpose of a matrix – Inverse - Determinants – Solution of Simultaneous Equations using **Cramer's Rule** – Input – Output Analysis – Meaning – Basic Concepts – Assumptions – Uses – Simple Problems (Two Sector Economy).

UNIT V: 12hrs
Integration – Meaning - Rules of Integration – Addition – Subtraction - Definite Integral; Economic application - Total cost - Total Revenue, **Consumers Surplus, Producers Surplus– Simple Problems.**

TEXT BOOK	Metha&Madnani	Mathematical Methods	Sultan Chand and Sons, New Delhi	2007
	2Agarwal .S	M athematical Methods	Sultan Chand and sons New Delhi	2010
REFERENCE	1.Allen R.G.D	Introduction to Mathematical Analysis for Economics	Prentice Hall of India, New Delhi	2002
	2.Bose.D	Mathematical Methods	Vrinda Publications, New Delhi	2004
	3Chandhury .S.K	Mathematical Methods	Sumit enterprises New Delhi	2009

25 percent of the Question Paper should contain Theory Questions

Course Designers:
Dr.Mrs. K. Renuka, Associate Professor, Department of Economics
Dr.Mrs. C. Athena, Assistant Professor, Department of Economics

COURSE NUMBER	COURSENAME	Category	L	T	P	Credit
ES22C06	**HISTORY OF ECONOMIC THOUGHT**	C	58	2	-	4

PREAMBLE

To enable the students to understand the evolution of economic ideas from time to time and contribution of eminent thinkers to economic thought.

COURSE OUTCOMES

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

CLO Number	CO Statement	Knowledge Level
CLO1.	Recall the concepts of Mercantilism, Physiocracy, Laissez Faire, Division of Labour, invisible hand, class struggle, Dialectical materialism, Quasi-Rent, leisure class, Bread Labour, social optimum, Brain Drain.	K1
CLO2.	Understand the essential ideas of mercantilist, characteristics of Physiocrats, ideas of Adam smith, Marxian ideas, Principles of Austrian School, thoughts of Ranade.	K2
CLO3.	Explain the approaches of History of Economic thought, factors gave rise to Physiocracy, Mercantilism, cannons of taxation, Features of Trusteeship doctrine, Distinguish between Mercantilism and Physiocracy, Marxism and Classicism, institutional school and Historical school.	K3
CLO4.	Analyse the economic ideas of classical school, Marginal School, Marx theory of surplus value, relevance and limitations of Keynes theory, contribution of Welfare economics, relevance of Gandhiji's Economic ideas to modern India, Economic ideas of AmartyaSen, diamond - dybvig theory of bankrun.	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1.	S	S	S	S	M
CLO2.	S	S	S	M	M
CLO3.	S	S	M	M	M
CLO4.	S	S	S	S	M

S-Strong; M-Medium; L-Low

SYLLABUS

CORE PAPER – HISTORY OF ECONOMIC THOUGHT

UNIT I: 12 hrs

Ancient Economic Thought -Nature, significance and approaches of the History of Economic Thought – Greek – **Mercantilism** - Factors that gave rise to Mercantilism - Neo-mercantilism Physiocrats - Factors that gave rise to Physiocracy.

UNIT II: 11 hrs

Classical school - Economic Concepts of Adam Smith – **David Ricardo**, T.R.Malthus, J.S.Mill- Essential ideas of Historical School.

UNIT III: 11 hrs

Main ideas of Marginal School - Principles of the Austrian School –Carl Menger - Frederich Von Wieser-Bohn Bawerk -**Karl Marx** – Theory of surplus value.

UNIT IV: 13 hrs

Modern Economic Thought – Essential ideas of Institutionalism – ThorsteinBinde Veblen -J.R. Hicks-**J.M.Keynes** -Welfare Economics – A.C. Pigou – **Paretian welfare Economics** -Diamond Dybvig.

UNIT V: 11 hrs

Indian Economic Thought – Arthashastra -Economic ideas of Thiruvalluvar-D.Naoroji –Ranade – **M.K.Gandhi**– **Ambedkar** -V.K.R.V.Rao - Amartya Sen.

TEXT BOOK	1.S.K.Srinivasan	History of Economic Thought	S Chand & Co. Ltd., New Delhi	2009
	2. V..Loganathan	Economic Thought	S.Chand Co. Ltd., New Delhi	2015
REFERENCE	1.S.Sankaran	Economic Thought	Margham Publication, Chennai	2015
	2.H.L. .Bhatia	A History of Economic Thought	VikasPublishing House pvt ltd, Chennai	2009.
	3.T.N.Hajela	History of Economic Thought	Ane Books pvt.Ltd, NewDelhi.	2008

Pedagogy: Lecture (Chalk & talk), group discussion, concept simulation,

debate, seminar

Course Designers:
1. Dr. K. Renuka, Associate Professor, Department of Economics
2. Dr.S.PadmaAnnakamu, Assistant Professor, Department of Economics

COURSE NUMBER	COURSENAME	Category	L	T	P	Credit
ES22A06	DEMOGRAPHY	A	88	02	-	5

<u>**PREAMBLE**</u>

To create awareness about the demographic features of India,
causes for population explosion, problems and measures.

<u>**COURSE OUTCOME**</u>

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

CLO NUMBER	CO Statement	Knowledge level
CLO1	Define Population, Census, Vital Events, Theories of Population, Fertility, Mortality, Migration, Infant mortality, Family Planning, National Population Policy, Demographic Research, Demographic Forecasting	K1
CLO2	Distinguish between Demography and population, sources of Demography Data, Malthusian theory and Optimum theory, population policy and family planning	K2
CLO3	Determine the importance of demography, limitation, causes for rapid population growth, factors affecting death rate, causes of infant mortality, , factors determining Fertility	K3
CLO4	Analyze and Examine the Fertility Rate, Mortality Rate, effects of migration on the Economy, causes and consequences of high population growth, governmental measures, National Population Policy and Demographic issues	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	S
CLO2	S	S	M	S	S
CLO3	S	S	S	M	S
CLO4	S	S	S	S	S

S-Strong; M- Medium; L –Low

DEMOGRAPHY

UNIT I: 16 hrs

Introduction to Demography: – Definition - Scope and importance of Demography - Relation of demographic data with over social science - **Sources of demographic data** - **Features and process of census**– Uses – Process – Registration Method – Sample Surveys – **Working of NSSO – Uses of Vital Statistics**

UNIT II: 18 hrs

Theories of population: - **Malthusian Theory - Optimum Theory**– Biological theories - Thomas doubleDay's Diet theory - Jouse De castro's protein consumption theory - Michael Thomas Sadler's Biological theory - **Herbert spencer's biological theory** - Sociological and Economical theories – Dumont's theory of Social Capillarity - Karl Marx's theory of surplus population - Leibenstein's Motivational theory of population - **The theory of demographic transition.**

UNIT III: 20 hrs

Determinants of Population Growth: Meaning of Fertility and Mortality – **Measurement and Determinants**– Economic, Social and biological factors -**Causes of Infant Mortality**- Migration-Meaning – Types – Factors - Theories of Migration – Everett Lee's Theory – Duncan Theory – Lewis Model - Effects of Migration – **Brain Drain – Causes and Remedies**.

UNIT IV: 16 hrs

Population in India: Size – Growth Rate – **Sex Ratio – Density - Trends in India's Population -**Causes for rapid Population Growth- Effects of high Population Growth – **National Population Policy - Objectives – Targets**- Family planning in India – Need – Achievement of family planning programme in India – Suggestions to improve.

UNIT V: 18 hrs

Demographic Research: **Areas of Demographic Research**-Types of Demographic Research- Problems of Demography –Population Projections – Methods – Mathematical Method - Growth component and Economic Method – Time Series – Components – **Methods of measuring Trend – Graphical Method – Semi Average – Moving Average – Method of Least Square**– Limitations of Population Projections.

TEXT BOOK	Asha. A Bhende&Tara Kanikar	Principles of Population Studies	Himalya Publishing House, New Delhi .	2005
	M. L. Jhingan, B. K. Bhatt, J.N. Desai	Demography	Vrinda Publications (P) Ltd, Delhi	2016
Reference Books	Srivatsava.S	Demography	Sultanchand son s private Ltd.NewDelhi	2001
	B.N. Ghosh	Population Economics	Meenalashi publication	2000

Pedagogy: Lecture (Chalk & talk), group discussion, debate, Blended Learning

Course Designers:

1. Dr.C.Athena, Assistant Professor, Department of Economics
2. Dr.G.D.JasmineDeporal, Assistant Professor, Department of Economics