FIRST YEAR
SEMESTER-I
CORE–I: MICRO ECONOMICS-I

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU231CC1	5	-	-	-	5	5	75	25	75	100

Pre-requisite:
Students should have the knowledge of basic Economics

Learning Objectives:

1. To equip the economic behaviors of individual units of the society.
2. To impart knowledge on demand and supply concepts

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	remember the basic concepts and the need for the study of Micro Economics	**K1& K2**
2.	identify the types of utility and consumer behavior	**K1& K2**
3.	explain the various market equilibrium, Demand and Supply Functions	**K2& K3**
4.	understand the meaning of production functions	**K2& K3**
5.	present the theory of firms, cost and revenue	**K2& K3**

K1-Remember;**K2**-Understand;**K3** -Apply

Unit	Contents	No. ofHours
I	**Basic Concepts** Definitions of Economics–Nature and Scope of Microeconomics–Positive and Normative Approaches-Inductive and Deductive Approaches- Consumers and Firms–Decision Making–Rationality: Self-Interest– Trade-offs –Fundamental Economic Problems-Market Mechanism and Resource Allocation.	15
II	**Utility Analysis** Utility–Ordinal and Cardinal Utility–Total and Marginal Utility – Law of Diminishing Marginal Utility-Law of Equi-Marginal Utility-Indifference Curves–Properties–Marginal Rate of Substitution-Budget Line–Price and Substitution Effects-Optimal Consumer Choice–Revealed Preference Theory–Samuelson and Hicks' Approach	18
III	**Demand and Supply Analysis** Demand–Types of Goods-Law of Demand–Determinants–Exceptions – Giffen Paradox – Veblen Effect- Elasticity of Demand:Types-Engel's Law-Supply–Law of Supply–Determinants– Elasticity of Supply and its Types- Market Equilibrium –Consumer Surplus and Producer Surplus	15
IV	**Production Analysis** Production Function– Law of Variable Proportions- Laws of Returns to Scale-Iso-quant's-Types of Production Function – Cobb -Douglas and Constant Elasticity of Substitution (CES)Production Function–Economies and Diseconomies of Scale	15

V	**Cost and Revenue Concepts** Costs – Fixed and Variable Costs - Average, Marginal, and Total Costs – Short Run and Long Run Costs – Implicit, Explicit, Sunk and Imputed Cost–Revenue–Total, Average and Marginal Revenue–Relationship Between AR, MR and Elasticity of Demand-Profit Maximization Rule.	12

Self study	**Unit–V Relationship between AR and MR**

Textbook

1. Ahuja H.L(2016) Principles of Microeconomics, S. Chand
2. Robert Pindyck and DanielL. Rubin field, (2001)Micro Economics, Macmillan

Reference Books

1. Koutsoyiannis(2003),Modern Microeconomics Palgrave Macmillan(UK)2ndEdition.
2. Gregory Mankiw (2012), Principles of Microeconomics, Cengage India.
3. Gregory Mankiw (2012), Principles of Microeconomics, Cengage India.
4. Dwivedi,D.N(2002),Microeconomics:TheoryandApplications,2nded.,Pearson
5. Ferguson C.E.(1970), Micro Economic Theory,(Home wood, U.S.A)

Web Resources

1. http://www.econlib.org/library/enc/microeconomics.html
2. https://www.tutor2u.net/economics
3. https://www.economicsnetwork.ac.uk/
4. https://www.cliffsnotes.com/study-guides/economics/introduction/microeconomics

CORE–II: STATISTICS FOR ECONOMICS–I

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU231CC2	5	-	-	-	5	5	75	25	75	100

Pre-requisite:
Students should have the knowledge of basic Statistics

Learning Objectives:
1. To know the nature and scope of statistics and its applications
2. To impart knowledge on Collection, Classification, Analyzing and Presentation of data.

Course Outcomes

On the successful completion of the course, student will be able to**:**	
1.	understand the overview of statistics and basic knowledge of statistical tools.	**K1& K2**
2.	differentiate Types of Data and its Classification	**K1& K2**
3.	explain the concept of Averages and its application	**K2& K3**
4.	know the concept of Dispersion and its application	**K2& K3**
5.	Calculate Correlation and estimate values using Regression	**K2& K3**

K1-Remember;**K2**-Understand;**K3** -Apply

Unit	Contents	No.of Hours
I	**Introduction and Collection of Data** Introduction – Nature and Scope of Statistics–Uses and Limitations of Statistics –Data Collection – Primary and Secondary Data–Tools for collecting Primary Data–Requisites of Good Questionnaire–Sources of Secondary Data.	15
II	**Classification and Presentation of Data** Classification and Tabulation of Data–Types-Frequency Distribution — Cumulative Frequency Distribution- Class Interval – Diagrams–Types-Graphical Representation–Histogram– Frequency Polygon-Ogive Curve-Lorenz Curve.	15
III	**Measures of Central Tendency** Measures of Central Tendency-Requisites of a Good Average– Arithmetic Mean, Median, and Mode–Relative Merits and Demerits.	15
IV	**Measures of Dispersion** Absolute and Relative Measures of Dispersion–Range– Quartile Deviation–Mean Deviation–Standard Deviation–Variance- Coefficient of Variation–-Skewness and Kurtosis.	15
V	**Correlation and Regression** Correlation – Types of Correlation – Methods -Karl Pearson's Co-efficient of Correlation–-Spearman's Rank Correlation– Regression Equations–Distinction between Correlation and Regression Analysis.	15

Self study	Unit–V Distinction between Correlation and Regression analysis

Textbook

1. Gupta. S.P (2005) Statistical Methods, Sultan Chand and Sons, New Delhi.2.R.S.N.PillaiandV.Bagavathi(2010),Statistics,SultanChandandSons,NewDelhi

Reference Books

1. Saxena H.C,(2016) Elementary Statistics, S Chand and Company New Delhi.
2. Elhance D.N, (2004),Fundamentals of Statistics Kitab Mahal, NewDelhi
3. ManoharanM (2010),"Statistical Methods", Palani Paramount Publications, Palani.
4. Sancheti. D.C and Kapoor V.K(2005)Statistical Theory Method and Application, Sultan Chand and Sons, New Delhi.
5. Dr.S. Sachdeva (2014)Statistics-Lakshmi Narain Agarwal.

Web Resources

1. https://www.cuemath.com/data/statistics/
2. https://stattrek.com/statistics/resources
3. https://testbook.com/learn/maths-mean-median-mode/4.https://www.statistics.com/5.https://thisisstatistics.org/students/

FIRSTYEAR–SEMESTER- I
GENERICELECTIVE-I: INTRODUCTION TO SOCIOLOGY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU231GE1	4	-	-	-	3	4	60	25	75	100

Pre-requisite:
Students should have the knowledge on Sociology

Learning Objectives:
1. To understand the nature and scope of sociology and its development
2. To know the social change, evolution and revolution

Course Outcomes

On the successful completion of the course, student will be able to**:**		
1.	understand the contributions of sociologists in the field of sociology	**K1& K2**
2.	understand the basic aspects of Sociology	**K1& K2**
3.	examine the impact to individuals, groups and society	**K2& K3**
4.	understand the dimensions of social stratification	**K2& K3**
5.	analyze and design Policy for social change	**K2& K3**

K1-Remember;**K2**-Understand;**K3** -Apply

UNIT	Contents	No. of Hours
I	**Introduction** Definition – Nature and Scope of Sociology –Origins and development of Sociology–Founding fathers and their contributions: Auguste Comte, Herbert Spencer, Karl Marx, Emile Durkheim and Max Weber–Sociology and other social sciences	12
II	**Basic Concepts of Sociology** Society, Community, institutions, Association, Social Structure, Status Role, Norms, and Values; Folkways and Mores, Associative and Dissociative processes–Cooperation- Assimilation-Accommodation-Competition and Conflict	12
III	**Individual and Society** Individual and Society-Socialization- Stages and Agencies of Socialization-Types of Groups– Primary and Secondary Groups, In-Group and Out-group, Reference Group.	12
IV	**Social Stratification** Social Stratification: Meaning, Definition and Dimensions–Social mobility and its determinants.	12
V	**Social Change** Meaning and Types: Evolution and Revolution, Progress and Development— Factors of Social Change-Culture and Civilization	12

Self study	**Unit–V** Factors of Social Change-Culture and Civilization

Textbook

1. Bottomore,T.B.(1972).Sociology:Aguidetoproblemsand
literature.Bombay.2.Jayaram,N.(1988).Introductorysociology.Madras:
MacmillanIndia.

Reference Books

1. GeorgeAllenandUnwin(India).Harlambos,M.(1998).Sociology:Themesandp
erspectives.New Delhi:OxfordUniversityPress.
2. Inkeles,Alex. (1987).Whatissociology?NewDelhi:Prentice-HallofIndia.
3. Johnson,HarryM.(1995).Sociology:
Asystematicintroduction.NewDelhi:AlliedPublishers.
4. Bhende,A.andT.R.Kanitkar(1982),PrinciplesofPopulationStudies,Him
alaya PublishingHouse,Bombay.
5. Bogue, D.J.(1969), PrinciplesofDemography, JohnWiley, NewYork

WebResources

1. https://data.worldbank.org/indicator/SP.POP.TOTL
2. https://www.iom.int/
3. https:/libguides.humdolt.edu
4. https://openstax.org/books/introduction-sociology-3e/
5. https://www.sociologygroup.com/important-books-free-notes-sociology-optional/

GENERIC ELECTIVE (Optional): FUNDAMENTALS OF MANAGEMENT

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU231GE2	4	-	-	-	3	4	60	25	75	100

Pre-requisite:
Students should have the knowledge on Management

Learning Objectives:
1. To provide students with the basic concepts of Management.
2. To analyze the Organizational Levels in an Organization

Course Outcomes

	On the successful completion of the course, student will be able to**:**	
1.	Understand the foundations and importance of Management.	**K1& K2**
2	Demonstrate and understanding of Planning	**K2& K3**
3	Analyze the organizational levels and Process of selection	**K2& K3**
4	Discuss the relevance of Organizational Culture	**K2& K3**
5	Examine the importance of quality control	**K2& K3**

K1-Remember; **K2**-Understand; **K3** -Apply

Unit	Contents	No. of Hours
I	**Introduction** Management – Definition-scope – Schools of Thought in Management-Levels of Management-Role and Functions of a Manager	12
II	**Planning** Planning: Concept, Objectives, Nature, Limitation, Process of planning, I importance, Forms, Techniques and Process of decision making.	12
III	**Organizational Levels** Types of Business Organizations–Structure-Span of Control–Department alisation -Selection, Training and Development, Performance Management, Career Planning, and Management	12
IV	**Directing** Creativity and Innovation – Motivation and Satisfaction–Organization Culture–Elements and Types of Culture–Managing Cultural Diversity.	12
V	**Controlling** Process of Controlling–Types of Control–Budget aryandnon-budgetary,Control Techniques –Managing Productivity–Cost Control–Purchase Control–Maintenance Control–Quality Control–Planning Operations.	12

Self study	Unit–V Planning Operations

Textbook

1. StephenA.Robbins&DavidA.Decenzo&MaryCoulter,(2011)"FundamentalsofManagement"7thEdition,Pearson Education
2. Tripathy PC& Reddy PN,(1999) "Principles of Management", Tata Mc Graw Hill.

Reference Books

1. Dr. C.B. Guptaand Dr. ShrutiMathur (2022)Management Principles and Applications ,Scholar TechPress
2. Neeru Vasisth and Vibhuti Vasishth(2019)Principles of Management Text &Cases, Taxman Publication
3. R.CBhatiya,"FundamentalsofManagement",S.KKataria&Sons,2013
4. L.M Prasad, "PrinciplesandPracticeofManagement,2021
5. Dr.N.MishraandDr.O.P.Gupta,"FundamentalsofManagement",SBPDPublishingHouse,2022

Web Resources

1.http://www.mim.ac.mw/books/Fundamentals%20of%20Management.pdf2.https://theintactone.com/2019/09/18/fom-u1-topic-1-fundamentals-of-management-introduction-and-concepts/
3.https://rccmindore.com/wp-content/uploads/2015/06/Fundamentals-of-Management.pdf4.https://in.sagepub.com/en-in/sas/journal-of-management/journal2017245.https://www.managementstudyhq.com/evolution-management-thought-theories.html

SKILLENHANCEMENTCOURSE SEC-I NON MAJOR ELECTIVE(NME):DEMOGRAPHY

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU231SE1	2	-	-	-	2	2	30	25	75	100

Pre-requisite:
Students should have the ability to explore in Demography system

Learning Objectives: -

1. To understand the meaning and scope of demography
2. To discuss the basic concepts of demographic measurements.

Course Outcomes

On the successful completion of the course, student will be able to**:**	
1. Describe the various theories of Population Growth	**K1& K2**
2. Understand Demographic Indicators	**K1& K2**
3. Assess the causes and impact of Migration on rural-urban population distribution	**K2& K3**
4. Analyse the major demographic trends and their determinants	**K2& K3**
5. Evaluate Population Policy of India and analyse recent trends.	**K2& K3**

K1-Remember; **K2**-Understand; **K3** -Apply

Unit	Contents	No.ofHours
I	**Introduction** Meaning Scope of Demography–Components of Population Growth–Theories of Population: Malthusian Theory, Optimum Theory and Theory of Demographic Transition.	6
II	**Birth Rate, Death Rate and Fertility** Census Data - Life Tables: Meaning and Uses – Reproductive and Child Health in India – Temporal and Spatial Variation in Sex Ratios– Crude Birth and Death Rate-Age Specific Birth and Death Rates–Standardized Birth and Death Rates–Fertility–Total Fertility Rate– Gross Reproduction Rate– Net Reproduction Rate	6
III	**Migration and Urbanization** Migration and Urbanization –Concept-Types of Migration-Effects of Migration and Urbanization on Population—Recent Trends in Migration.	6
IV	**Population Trends** Population Trends– International Aspects of Population Growth and Distribution– Population and Environment Pattern of Age and Sex Structure in Developed and Developing Countries– Age Pyramids and Projections.	6
V	**Population Policy in India** Population Policy in India and its Evaluation–Population and Strategies for Human Development of Different Social Groups – National Population Commission–Demographic Dividend–National Youth Policy.	6
Self study	**Unit–V National Youth Policy**	

Textbook

1. Jhingan,M.L,B.K.Bhatt,J.N.Desan(2003)Demography,VrindaPublications,New Delhi
2. RajendraK.Sharma(2007),DemographyandPopulationProblems,AtlanticPublishersandDistributors Pvt.Ltd.

Reference Books

1. AgarwalaS.N.(1985),India'sPopulationProblem,TataMcGraw-Hill,Bombay.
2. Bhende,A.andT.R.Kanitkar(1982),PrinciplesofPopulationStudies,HimalayaPublishingHouse,Bombay.
3. Bogue, D.J.(1969), PrinciplesofDemography, JohnWiley, NewYork
4. SarahHarper(2018),Demography:AVeryShortIntroduction,OxfordPress2018.
5. PeterR.Cox,Demography-5thEdition,CambridgeUniversityPress.

Web Resources

1. https://data.worldbank.org/indicator/SP.POP.TOTL
2. https://www.iom.int/
3. https://censusindia.gov.in
4. https://www.nationalgeographic.org/encyclopedia/demography/
5. https://www.nature.com/scitable/knowledge/library/introduction-to-population-demographics-83032908/

SKILLENHANCEMENTFOUNDATIONCOURSE: BUSINESS COMMUNICATION

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU231FC1	2	-	-	-	2	2	30	25	75	100

Pre-requisite:
Students should have the basic knowledge about Business Communication
Learning Objectives:
1. To know the meaning objectives and role of communication and media
2. To understand the need and importance of communication in management

Course Outcomes

On the successful completion of the course, student will be able to**:**		
1.	understand the basics of communication and its Process, Elements, and its importance.	**K1& K2**
2.	acquire communication skills.	**K1& K2**
3.	employ the art of report preparation and writing Business Letters	**K2& K3**
4.	use appropriate technology for business presentations and digital communication and write E-mails in a structured pattern.	**K2& K3**
5.	employ the art of report reparation	**K2& K3**

K1-Remember; **K2**-Understand; **K3** -Apply

Unit	Contents	No. of Hours
I	**Communication** Communication: Meaning and Definition-Objectives- Role of Communication – Process and Elements of communication - Communication Networks-Types and Media of Communication – Barriers to Communication- Characteristics for Successful Communication	6
II	**Communication in Management** and Communication: Need and Importance of Communication in Management–Corporate Communication- CommunicationTrainingforManagers-Communication Structure in an organization.	6
III	**Business Letters** Business Letter: Need – Functions – Kinds – Essentials of effective Business Letter - Language and Layout– Planning, Enquiries and Replies-Sales Letter-Orders, Tender and Notice-Complaints-Letter of Appointment.	6
IV	**Correspondence** Correspondence: Bank Correspondence-Insurance Correspondence–Agency Correspondence-Import-Export Correspondence	6
V	**Report Writing** Report Writing: Meaning and Importance- Purpose- Types of Business Reports characteristics of a good report Report Preparation-Report by Individual and Committees-Agenda and Minutes of Meeting.	6

Self study	Unit–V Agenda and Minutes of Meeting

Textbook

1. Korlahalli,J.S.,&Pal,R.(1979)EssentialsofBusinessCommunication.S.Chand, New Delhi.

2. Kaul A,(2015)Effective Business Communication. Second Edition Prentice Hall India Learning Private Limited.

Reference Books

1. Kumar, R.(2010).Basic Business Communication. Excel Books India.

2. Bovee, C. L.(2008).Business Communication today. Pearson Education India.

3. Lesikar,R.V.,&Pettit,J.D.(1989).Businesscommunication:Theoryandapplication.Ir win Professional Publishing.

4. MaryEllenGuffyandDanaLoewy(2012)EssentialsofBusinessCommunication Ceng age Learning

5. C.B.Gupta(2019)EssentialsofBusinessCommunicationCengageLearningIndiaPvt.Ltd

Web Resources

1. https://www.managementstudyguide.com/business_communication.htm

2. https://studiousguy.com/business-communication/

3. https://www.indeed.com/career-advice/resumes-cover-letters/business-communication-skills

4. https://www.softskillsaha.com/what-is-meaning-of-business-communication-skills.php

5. https://www.mindtools.com/page8.html

Health Economics
Course Code: FC20S1

Hours / Week	Credits	Total Hours	Marks
-	2	-	100

Objectives:

1. To understand the policies and services of health by the government.
2. To make the students aware of the production of health in the life.

Course Outcomes

Co. No	Course Outcomes	PSO addressed	CL
CO – 1	identify the approaches, role and indicators of health economics	PSO - 5	U
CO -2	discuss the production efficiency and health care	PSO - 5	U
CO – 3	explain the cost function and market for health services	PSO - 5	Ev
CO – 4	understand the economic evaluation and measuring health gains and utilities	PSO - 5	U
CO – 5	analyse the risk and insurance of health	PSO - 5	An

UNIT–I HEALTHECONOMICS–INTRODUCTION

Definition-Approaches to measurement of value of life –The role of economists in the health sector – Demand for health care, health indicators – Health status –medical care as an investment.

UNIT–II HEALTH PRODUCTION FUNCTION APPROACH

Health input and health output– Production efficiency and health care – skills and efficiency of production of health services – choices of health care.

UNIT–IIISUPPLYANDCOSTOFHEALTHCAREANDHEALTHSERVICES

Production and cost – Estimating cost functions in healthcare–Theory of managed care Demand, Supply and equilibrium. The information problem – the market for health services.

UNIT–IVECONOMICEVALUATIONINHEALTHCARE

Measuring cost in economic evaluation – costing in economic evaluation – measuring benefits in economic evaluation - measuring and valuing outputs – standardized measures of outcome and utility scores – measuring health gains and utilities.

UNIT–VHEALTHINSURANCEANDHEALTHPOLICIES

Risk and insurance–Voluntary insurance–Social insurance systems–Health policies in India with special reference to TamilNadu.

TEXTBOOK:

1. Mepake Barbara, Lilani Kumaranayake and Norm and Charles, (2002), Health Economics: An International Perspective, Taylor and Francis Group. London.
2. James. WHenderson, (2008), Health Economics and policy, Cengage Learning, United States.

REFERENCE:

1. Himanusha skar, Rout and Prasant Panda, (2007), Health Economics in India– New century Publications, New Delhi.
2. Culyar, A.J.Joseph.P.(2003), New House, Hand Book of Health Economics, North–Holland.
3. Feldstein, P. J.(2011),Health Care Economics, Thomson Delmar Learning, New York.

Hours / Week	Credits	Total Hours	Marks
-	2	-	100

Objectives:

1. To understand the functions and concepts of human development.
2. To make the students aware of the indicators of human development.

Course Outcomes

Co. No	Course Outcomes	PSO addressed	CL
CO – 1	understand the meaning and concepts of human development	**PSO - 4**	**U**
CO -2	discuss the political and cultural factors	**PSO - 4**	**U**
CO – 3	analyse the nature and human development	**PSO - 4**	**An**
CO – 4	identify the measurement of human development	**PSO - 4**	**U**
CO – 5	explain the issue of human development	**PSO - 4**	**Ev**

UNIT–I INTRODUCTION TO HUMAN DEVELOPMENT

Meaning – Definitions – Concepts
UNIT–II DETERMINANTS OF HUMAN DEVELOPMENT
Socio, Economic, Political and Cultural factors
UNIT–III INDICATORS OF HUMAN DEVELOPMENT

Indicators: Socio, Economic and Political- Nature of Human Development
UNIT–IV MEASUREMENT OF HUMAN DEVELOPMENT

Various Methods to measure Human Development (HDI)
UNIT–V ISSUES OF HUMAN DEVELOPMENT

Issues of Human Development in the Indian and Global Context
REFERENCE:

1. Mahbub UIHug(1995)"ReflectionsonHumanDevelopment"OxfordUniversityPress,London.
2. "HumanDevelopmentReport2003",United Nations Development Programme.

CORE COURSE III: MICRO ECONOMICS - II

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU232CC1	5	-	-	-	5	5	75	25	75	100

Pre-requisite

Basic Knowledge about Micro Economics

Learning Objectives

1. 1. To equip the students to gain knowledge on the market structures
2. To understand the monopoly and price discrimination in the market

Course Outcomes

On the successful completion of the course, students will be able to:		
1.	understand the equilibrium conditions in Perfect Competition.	**K1 & K2**
2.	describe the equilibrium conditions under Monopoly Market Structure.	**K1 & K2**
3.	discuss the Market Equilibrium under Monopolistic and Oligopoly Market.	**K2 & K3**
4.	know the importance of theories of Distribution.	**K2 & K3**
5.	explain the aspects of Welfare Economics and General Equilibrium.	**K2 & K3**

K1 - Remember; **K2** - Understand; **K3** - Apply

Units	Contents		No. of Hours
I	**Perfect Competition**	**Features of Perfect Competition – Equilibrium of the firm and the industry in the Short Run - Long-Run Equilibrium in Perfect Competition- Time Element Analysis.**	15
II	**Monopoly and Price Discrimination**	**Definition of Monopoly–Demand and Marginal Revenue - Equilibrium under Monopoly–Policies to Control Monopoly – Price Discrimination–First Degree, Second Degree and Third-Degree Price Discrimination – Dumping.**	15
III	**Monopolistic and Oligopoly Competition**	**Monopolistic Competition–Features– Product Differentiation–Market Equilibrium and Short Run and Long Run- Barriers to Entry – Group and Industry Equilibrium–Excess Capacity -Oligopoly – Kinked Demand Curve**	15
IV	**Distribution Theory**	**Functional and Personal Distribution – Marginal Productivity Theory of Distribution – Product Exhaustion Theorem - Concepts of VMP and MRP.**	15
V	**Welfare Economics and General Equilibrium**	**Welfare Criteria – Adam Smith – Edgeworth – Pareto - Market Failure – Externalities – Walrasian General Equilibrium**	15
Self study	**Production and Distribution**		15

Textbooks

1. **Robert Pindyck and Daniel L.Rubinfield, (2001)** *Micro Economics***, Mac Millan**
2. **Hal R. Varian (2004),** *Intermediate Micro Economics***, East-West Press: New Delhi**

Reference Books

1. **Koutsoyiannis (2003),** *Modern Microeconomics* **(2nd Edition), Palgrave Macmillan (UK).**
2. **Gregory Mankiw (2012),** *Principles of Micro Economics***, Cengage India.**
3. **Mansfield, Edwin and Yohe, Gary (2010):** *Micro Economics* **(4th Edition) Viva-Norton Indian Edition**
4. Seth, M.L. (2006). *Micro Economics*. (22nd Revised ed.). Agra: Lakshmi Narain Agarwal Educational Publishers.
5. Jhingan, M.L. (2016). *Micro Economics*, (8th Revised ed.). New Delhi: Vrinda Publications (P) Ltd.

Web Resources

1. **https://open.umn.edu/opentextbooks/subjects/economics**
2. **https://global.oup.com**
3. **https://www.economicsnetwork.ac.uk**
4. **https://edge.sagepub.com/sextonmicro8e**
5. **https://www.aeaweb.org/resources/students**

MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	2	3	2	3	3	3	3	2
CO2	3	2	3	3	3	2	2	3	3	3	2	2
CO3	3	2	3	3	3	2	2	3	3	3	2	3
CO4	3	2	3	3	2	2	2	3	3	3	2	2
CO5	3	2	3	3	3	2	2	3	3	3	3	3
TOTAL	15	10	15	15	13	11	10	15	15	15	12	12
AVERAGE	3	2	3	3	2.6	2.2	2	3	3	3	2.4	2.4

3 – Strong, 2- Medium, 1- Low

CORE – IV: STATISTICS FOR ECONOMICS-II

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU232CC2	5	-	-	-	5	5	75	25	75	100

Pre-requisite:
Basic Knowledge about Statistics

Learning Objectives:
1. To understand the various methods of index numbers and its applications
2. To know the theories of probability and its applications

Course Outcomes

	On the successful completion of the course, student will be able to:	
1.	determine the various Sampling Methods	**K2 & K3**
2.	explain the importance of Time Series Data and its measurement	**K1 & K2**
3.	recognize Knowledge on the Index Numbers	**K1 & K2**
4.	understand the concept of Probability	**K2 & K3**
5.	illustrate the steps on Hypothesis Testing	**K2 & K3**

K1 - Remember; **K2** - Understand; **K3** - Apply

Unit	Contents	No. of Hours
I	**Sampling** Sampling – Census and Sample Method – Theoretical Basis of Sampling – Methods of sampling – Random and Non –Random Sampling - Size of Sample – Merits and Limitations of Sampling – Sampling and Non- Sampling Errors.	15
II	**Time Series Analysis** Definition– Components and Measurement– Graphic Method - Methods of Semi Average, Moving Averages and Method of Least Squares – Uses of Time Series Analysis.	15
III	**Index Numbers** Index Numbers – Methods – Unweighted and Weighted Index Numbers – Aggregate and Relative Index Numbers – Chain and Fixed based Index Numbers – Wholesale Price Index – Consumer Price Index – Cost of Living Index.	15
IV	**Theory of Probability** Key Concepts of Probability – Importance – Theorems of Probability: Addition, Multiplication and Bayes' Theorem - Discrete and Continuous Random Variables – Theoretical Distributions – Binomial, Poisson and Normal – Properties- Uses and Applications.	15
V	**Testing of Hypothesis** Hypothesis Testing – Meaning, Types, Sources and Functions of Hypothesis – Test: Null and Alternative Hypothesis – Type – I and Type – II Errors.	15

Self study	Meaning and Types of Hypothesis

Textbooks

1. S.P Gupta, (2017) Statistical Methods, Sultan Chand & Sons.
2. Anderson, Sweeney and Williams (2012), Statistics for Business and Economics Cengage.

Reference Books

1. Anderson, David Ray, *Statistics for Business and Economics*, South-Western Pub,2001.
2. Sancheti and Kapoor, *Statistics*, (2015) Sultan & Sons New Delhi.
3. Gupta S.C. *Statistical Methods* (2015) Sultan & sons New Delhi.
4. Monga G.S. *Mathematics and Statistics for Economics* (2001), Vikas Publishing House Pvt.Ltd New Delhi.
5. Dominick Salvatore and Derrick Reagle, (2002), *Theory and problems of Statistics and Econometrics*, Mc Graw Hill.

Web Resources

1. https://stattrek.com/statistics/resources
2. https://www.cuemath.com/data/f-test/
3. https://www.statistics.com/
4. https://thisisstatistics.org/students/
5. https://oli.cmu.edu/courses/probability-statistics-open-free/

MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	2	3	2	3	3	3	3	3
CO2	3	2	3	3	3	2	2	3	3	3	3	3
CO3	3	2	3	3	3	2	2	3	3	3	3	3
CO4	2	2	3	3	2	2	2	3	3	3	3	3
CO5	3	2	3	3	3	2	2	3	3	3	3	3
TOTAL	13	10	15	15	13	11	10	15	15	15	15	15
AVERAGE	2.6	2	3	3	2.6	2.2	2	3	3	3	3	3

3 – Strong, 2- Medium, 1- Low

FIRST YEAR - SEMESTER II
ELECTIVE –II (a): INTRODUCTION TO E-COMMERCE

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU232EC1	4	-	-	-	3	4	60	25	75	100

Pre-requisite:
Basic Interest in E- Commerce

Learning Objectives:
1. To learn the nature and concepts of E-commerce in India
2. To understand the various business models for E-Commerce and its uses

Course Outcomes

	On the successful completion of the course, student will be able to:	
1.	understand the pros & cons of E-commerce.	**K1 & K2**
2.	explain the various models of E-commerce.	**K1 & K2**
3.	understand the online business transaction and their impact on related service providers.	**K2 & K3**
4.	understand the e-marketing mix and be familiar with consumer protection.	**K2 & K3**
5.	know the mechanism of E- payment and its operations.	**K2 & K3**

K1 - Remember; **K2** - Understand; **K3** - Apply

Unit	Contents	No. of Hours
I	**Introduction** Meaning – Nature – Concepts – advantages and disadvantages – online Transaction - Types of E-Commerce - Growth of E-Commerce in India.	12
II	**Business Models for E-commerce** E-commerce Models - Business-to-Business (B2B) – Business– to- Consumer (B2C) - Consumer-to-Consumer (C2C) - Consumer-to-Business (C2B) - Direct to Customer (D2C) – Peer-to-Peer (P2P) - Brokerage Model - Aggregator Model.	12
III	**Online Business Transactions** E-Commerce Applications in Various Industries- Banking, Insurance, Payment Of Utility Bills - Online Marketing /E-Tailing (Popularity, Benefits, Problems and Features) -Online Services (Financial, Travel and Career) /Auctions, Online Portal, Online Learning - Publishing and Entertainment - Online Shopping	12
IV	**E-Promotion and Consumer Protection** E-Advertising techniques: Banners, Sponsorships, Portals, and online coupons-Role of Influencers in Social Media- Marketing-Porters Value Chain Model-E-Commerce and consumers.	12
V	**E- Payment System** Models and Methods of e–Payments (Debit Card, Credit Card, Smart Cards, e-money) - Digital Signatures (procedure, working and legal position) - Payment Gateways - Online Banking: Meaning, Concepts, Importance, Electronic Fund Transfer.	12

Self study	Risks involved in e-payments

Textbooks
1. Bajaj K.K and Debjani Nag (2017), *E-commerce*, McGraw Hill Education
2. Chhabra T.N , Suri and Sanjiv Varma (2005) *E-Commerce*, Dhanpat Rai & Co

Reference Books
1. Pandey (2013) *Ecommerce and its Applications* , S.K. Kataria & Sons
2. Kenneth C. Laudon and Carlo Guercio Traver (2020), *E-Commerce*, Pearson Education.
3. Pralok Gupta (2020) *E-commerce in India: Economic and Legal Perspectives*, SAGE Publications India Pvt Ltd
4. David Whitley (2017) *E - Commerce: Strategy, Technologies and Applications*
5. Joseph P.T ., S.J (2019) "*E-Commerce : An Indian Perspective*" PHI Learning Pvt. Ltd.

Web Resources
1. https://ecommerce-platforms.com/resources
2. https://ecommerceguide.com
3. https://www.bigcommerce.com/resources/
4. https://www.cloudways.com/blog/top-ecommerce-websites/
5. https://www.indiafilings.com/learn/how-to-start-an-ecommerce-business-in-india/

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	2	3	2	3	3	3	2	2
CO2	3	3	3	3	3	2	2	3	3	3	2	2
CO3	3	3	3	3	3	2	2	3	3	3	3	3
CO4	3	2	3	3	2	2	2	3	3	2	2	2
CO5	3	3	3	3	3	2	2	3	3	3	3	3
TOTAL	15	13	15	15	13	11	10	15	15	14	12	12
AVERAGE	3	2.6	3	3	2.6	2.2	2	3	3	2.8	2.6	2.6

3 – Strong, 2- Medium, 1- Low

FIRST YEAR - SEMESTER II
NON MAJOR ELECTIVE (NME): ECONOMICS FOR INVESTORS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU232NM1	2	-	-	-	2	2	30	25	75	100

Pre-requisite:
Basic Interest in Economics for Investors

Learning Objectives:
1. To understand concepts of saving and investments
2. To probe the various investment avenue and its practice applications

Course Outcomes

	On the successful completion of the course, student will be able to:	
1.	identify the types and importance of savings and investments.	**K1 & K2**
2.	explain the available for investment avenues	**K1 & K2**
3.	understand the operations of different types of investment markets.	**K2 & K3**
4.	list the economic fundamentals and information.	**K2 & K3**
5.	determine the objective enabling investment plans, strategy, evaluate and restructure if required.	**K2 & K3**

K1 - Remember; **K2** - Understand; **K3** – Apply

Unit	Contents	No. of Hours
I	**Introduction** Saving and Investments – Meaning – Types - Importance – Role of Savings and Investment on the development of Individuals- Distributional Role of Investment – Income and Wealth.	6
II	**Investment Avenues** Traditional Investment – Cash, Deposits, Gold, Silver, Commodities Real Estates. Modern Investment – Direct Investment – Portfolio Investment –Insurance.	6
III	**Investment Markets** Capital Market – Share Market – Primary and Secondary – Bond Markets- Money Market – Metal Market - Commodities Markets.	6
IV	**Economic fundamentals for Investors** Domestic Economic Environment: Economic Growth and Development – National Income – Per Capita Income, Unemployment – Taxes, Trade Cycle – Infrastructure.	6
V	**Investment Methods and Strategies.** Cash Flow – Capital Gain – Risk Rewarding – Asset Accumulation - Risk Distribution – Asset Management.	6

Self study	Risk Distribution

Textbooks

1. Ken McElroy, (2004) *The ABCs of Real Estate Investing*, Hachette Book Group USA
2. Esme Faerber (2013), *All about Stocks, Tata* Mc Graw Hill, New Delhi

Reference Books
1. William J. O' Neil (2009) *How to Make Money in Stocks: A Winning System in Good Times and Bad* (Fourth Edition), Mc Graw Hill Education, New Delhi.
2. John C Bogle (2017) *The Little Book of Common Sense Investing: The Only Way to Guarantee Your Fair Share of Stock Market Returns*, Wiley Publications.
3. Mary Buffett and David Clark (2002), *The New Buffettology* (Simon and Schuster)
4. Andrew Smithers (2022) *The Economics of the Stock Markets*, *The Intelligent Investor*, OUP Oxford publications.
5. Giovanni Rigters (2019) *Stock Market Investing for beginners & Dummies*, Giovanni Rigters publications.

Web Resources
1. https://www.capitalmarket.com/
2. https://www.icmagroup.org/
3. https://www.nseindia.com
4. https://www.stockbrokers.com/guides/beginner-investors
5. https://www.nasdaq.com/articles/10-best-stock-trading-websites-for-beginners

MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	2	3	2	3	3	3	3	2
CO2	3	3	3	3	3	2	2	3	3	3	2	2
CO3	3	3	3	3	3	2	2	2	2	3	3	3
CO4	2	3	3	3	2	2	2	3	3	2	2	2
CO5	3	3	3	3	3	2	2	2	2	3	3	3
TOTAL	13	15	15	15	13	11	10	13	13	14	13	12
AVERAGE	2.6	3	3	3	2.6	2.2	2	2.6	2.6	2.8	2.6	2.4

3 – Strong, 2- Medium, 1- Low

SKILL ENHANCEMENT COURSE SEC- I: COMPUTER APPLICATIONS IN ECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FU232SE1	2	-	-	-	2	2	30	25	75	100

Pre-requisite:
Basic Practical Interest in Computer Application

Learning Objectives:
1. To know the basic concepts of Computer Applications
2. To apply the MS office and its basic operations

Course Outcomes

	On the successful completion of the course, student will be able to:	
1.	understand basic components of Computer and its functions.	**K1 & K2**
2.	know the Knowledge of MS Office.	**K1 & K2**
3.	explain the data processing techniques of MS Excel.	**K2 & K3**
4.	understand basic Operation in MS Excel.	**K2 & K3**
5.	illustrate thebMS Excel in Statistics and Economics.	**K2 & K3**

K1 - Remember; **K2** - Understand; **K3** - Apply

Unit	Contents	No. of Hours
I	**Introduction to Computers** Computer and Peripherals: Meaning, Types, Features and Limitations– Basic Components – Input and Output Devices – Primary Memory and Secondary Storage – Computer Software– Types – –Operating Systems: Functions and Types.	6
II	**MS Office** Windows Explorer - MS Word: Basic Operations in Word – Editing– Formatting – Text Creation of Tables and Volumes - MS Power Point Presentation- Creating, Opening and Saving Slideshow and Animations - MS Excel: Work Sheet and Work Book- Opening and Formatting.	6
III	**Data Processing** Data Processing Techniques using MS Excel: Concept of Data – Record and File – Types of Data – Data Entry – File Handling and Operations–Opening, Appending and Cascading – – Data Storage and Retrieval	6
IV	**Introduction to MS Excel** Calculation Operators: Arithmetic Operators – Comparison Operators – Logical Operations- Excel Tool Bars- Formatting of Text, Tables and Graphs.	6
V	**Application of MS Excel in Statistics and Economics** Descriptive Statistics: Mean, Median, Mode and Standard Deviation Variance- Index Numbers and Growth Rates - Demand Function - Supply Function, Demand for and Supply of Money- Correlation – Regression.	6

Self study	**Mean, Median**

Textbooks

1. Hem Chand Jain and H.N.Tiwari (2019) *Computer Applications In Business* (5th Edition) Taxmann Publication.
2. Dhanasekaran.K (2010) *Computer Applications In Economic*s Vrinda Publications.

Reference Books

1. Greg Harvey, (2007) *Microsoft Office Excel 2007 For Dummies,* Wiley Publishing.
2. Alexis Leon and Mathews Leon; (2001), *Introduction to Computers with Ms-Office 2000.* McGraw Hill Education
3. Kavindra Kumar Singh (2014) *Computer Applications in Management Dream* Tech
4. Oscar Afonso , Paulo B. Vasconcelos, *Computational Economics: A Concise Introduction*, Routledge (st Edition),
5. Kerns (2001) *Essentials of Microsoft Window*s, Word and Excel, Prentice Hall.

Web Resources

1. https://www.excel-easy.com/basics.html
2. https://excelchamps.com/excel-basics/
3. https://edu.gcfglobal.or/en/topics/excel/
4. https://trumpexcel.com/learn-excel/
5. https://www.simplilearn.com/learn-ms-excel-free-training-course-skillup

MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	2	3	2	2	2	2	3	3
CO2	3	2	3	3	3	2	2	2	2	2	3	3
CO3	3	2	3	3	3	2	2	2	2	2	3	3
CO4	3	2	3	3	2	2	2	2	2	2	3	3
CO5	3	2	3	3	3	2	2	3	3	3	3	3
TOTAL	15	10	15	15	13	11	10	11	11	11	15	15
AVERAGE	2.6	2	3	3	2.6	2.2	2	2.2	2.2	2.2	3	3

3 – Strong, 2- Medium, 1- Low

Employability

Entrepreneurship

Dr.S.JENI SANJANA
Head of the Department
Department of Economics
Holy Cross College (Autonomous)
Nagercoil.

Core Course I: Advanced Micro Economics

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231CC1	6	1	-	-	5	7	105	25	75	100

Pre–requisite:

Students should know the various Microeconomic variables and theories

Learning Objectives:

1. To makethestudentstounderstandconsumerbehaviorwiththetheoriesofDemandand Production

2. To elaborate various market structure and the theories of distribution

Course Outcomes

	On the successful completion of the course, student will be able to:	
1	remember the concepts of consumer behavior	**K1**
2	understand the theories of under uncertainty.	**K2**
3	apply how price and output is determined in different Market situations and analyse the market structures	**K3&K5**
4	analyse the alternative theories of firms.	**K4**
5	evaluate the role of trade unions and explain the theory Of distribution.	**K5**

K1-Remember; **K2** –Understand; **K3** –Apply; **K4**– Analyze; **K5**-Evaluate; **K6**-Create

Units	Contents	No. ofHours
I	**Consumer Choice** Cardinal and ordinal utility - Indifference curve approach – Slutsky's Decomposition of price effect into substitution effect and income effect – Consumer surplus - Marshall's and Hickson measures – Compensatory Demand Curve- Revealed Preference Theorem- and derivation of Marginal Utility schedule for money income.	20
II	**Economics of Information** Informational asymmetry –-Choice under Uncertainty - N-M Index – Inter-temporal choice -Market for lemons- Adverse selection – Insurance market and adverse selection – Solution to principal agent problem- Hidden action (Moral Hazard) - Signaling and Screening.	20

III	**Market Structure Models**	20
	a. Perfect competition – Price and output determination – Optimum firm-	
	b. Monopoly – Short run and long run equilibrium - Price discrimination monopoly control, and regulation – Contestable Market-	
	c. Monopolistic competition–Chamberlin Model- selling costs - Excess capacity –	
	d. Oligopoly – Duopoly price game-dominant strategy-Nash Equilibrium Non-Collusive Models - Cournot- Bertrand – Chamberlin – Edgeworth – Sweezy – Stackelberg- Oligopoly - Collusive Models - Cartels and mergers -Price leadership - Base point price system Monopsony – Price and output determination – Workable competition.	
IV	**Alternative Theories of Firm** Full Cost Pricing Rule- Limits pricing theory- Bains Theory- Sylos-Labini Model-Modigliani's Models- Input-output model -Linear programming applications in decision making- Peak Load Pricing – Administered Pricing- Purchasing Power Parity Price.	20
V	**Distribution Theories** Neo-classical approach – Marginal productivity theory; Product exhaustion theorem; - Modern theory of distribution – Factor Pricing in imperfect product and factor markets Determination of Wages –Labour supply and wage determination–Role of trade unions and collective bargaining- Theories of Interest- Theories of Profit.	25
Self Study	**(Unit–IConsumerSurplus) (Unit– IIMonopoly)**	

Text Books

1. AhujaH.L.,2017,AdvancedEconomicTheory,(21stEdition),S.ChandandCompanyLimited,NewDelhi,No.of Pages as PP-1347.
2. Koutsyiannis A. (1978),3rdModernMicroEconomics, (Macmillan- London).No.ofPagesasPP-453

Reference Books

1. AhujaH.L.,2017, Advanced Economic Theory, (21stEdition),S.Chandand Company Limited, NewDelhi, No. of Pages as PP-1347.
2. Hal R. Varian (2004), Intermediate Micro Economics 8th Edition (East-West Press: NewDelhi).No.ofPages as PP-739
3. Ruffin Roy. J (1992), 2 ndIntermediate Micro Economics Harper & Collins Publishers. No. ofPages as PP-588
4. Koutsyiannis A. (1978),3rdModernMicroEconomics, (Macmillan- London).No.ofPagesasPP-453

Web Resources

1. http://open.oregonstate.education/intermediatemicroeconomics/chapter/module-1
2. http://saylordotorg.github.io/text_introduction-to-economic analysis/s16-monopoly.html
3. http://saylordotorg.github.io/text_introduction-to-economicanalysis/s17-games-and-strategic-behaviour.html

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	3	2	3	3	3	3	3
CO2	3	2	3	3	2	2	3	3	3	3	3
CO3	2	3	3	3	2	3	3	3	3	3	3
CO4	2	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	2	2	3	3	3	3	3
Total	13	13	15	15	12	12	15	15	15	15	15
Average	2.6	2.6	3	3	2.4	2.4	3	3	3	3	3

3-Strong;2-Medium;1 -Low

Core Course II: Indian Economic Development and Policy

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231CC1	6	1	-	-	5	7	105	25	75	100

Pre–requisite:
Acquire the Knowledge of availability of resources and Challenges of Indian Economy

Learning Objectives:
1. To provide a macroeconomic understanding of the Indian Economy
2. The students become aware of various challenges of the Indian Economy

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the structural change in the Indian Economy	**K1**
2	remember the Performance of agricultural and industrial sector	**K1&K2**
3	ability to learn the trends in the economy	**K2&K3**
4	identify the Impact of Poverty	**K3&K4**
5	analyze the social issues like unemployment, gender disparities	**K5**

K1-Remember; **K2** –Understand; **K3** –Apply; **K4**– Analyze; **K5-**Evaluate; **K6-**Create

Units	Contents	No. Of Hours
I	**Introduction** Growth and Structural Change Indian economy at Independence- The policy framework: statist policy, transition to market-oriented policy, role of erstwhile Planning Commission and NITI Aayog- Two phases of growth (1950-1980 and 1980 onwards), factors underlying turnaround- Structural change in Indian economy.	**20**
II	**Agricultural and Industrial Sector** Agricultural and Industrial Sectors - Agricultural Sector Performance of agricultural sector, factors determining agricultural growth - Factors underlying food inflation- Agricultural price policy and food security Industrial Growth Industrial growth before and after reforms - Dualism in Indian manufacturing- Issues in performance of public sector enterprises and privatization.	**20**
III	**Fiscal Developments** Fiscal Developments, Finance and External Sector Expenditure trends-GST: rationale and impact- Evolution of the financial sector in post-liberalization period- External sector performance: emergence of India as major exporter in services, performance of manufacturing sector.	**20**

IV	**Poverty and Inequality** Poverty and Inequality - Measuring poverty in India: Selection of poverty lines- Poverty in pre and post liberalization periods- Impact of growth on poverty- PDS vs cash transfers, feasibility of universal basic income in India - Inequality in India in pre and post liberalization periods.	**20**
V	**Social Sector** Social Issues Gender gap in India and trends in female labour force participation rates, factors determining female labour force participation Employment: changing nature of employment in India, "jobless growth"- Labour in informal sector- India's graphic transition.	25
Self Stud y	Unit– IV –Poverty and Inequality	

Text Books
1. SundaramKPM.,(2002),IndianEconomy,42revisededition.,S.ChandPublications
2. Misra,S,&Puri,V.,(2020.),IndianEconomy,RevisedEdition.,S.ChandPublications

Reference Books
1. KaushikBasu(Ed.)(2012),OxfordCompaniontoIndianEconomy,3rdEdition,OUP,New Delhi.
2. UmaKapila(Ed.)(2018),IndianEconomysinceIndependence, AcademicFoundation, NewDelhi,29thEdition.
3. AshimaGoyal(Ed.)TheOxfordHandbookoftheIndianEconomy inthe21stCentury:Understandingthe InherentDynamism,OxfordUniversityPress.

Web Resources
1. https://www.adb.org/countries/india/economy
2. https://www.oecd.org/economy/india-economic-snapshot/
3. https://www.indiabudget.gov.in/economicsurvey/

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	3	3	3	1	2	3	3	3	3	3
CO2	3	3	3	2	3	2	3	2	3	3	2	3
3	3	3	3	2	3	2	3	3	2	2	3	3
CO4	1	2	3	3	3	3	3	3	3	3	3	3
CO5	2	2	3	3	3	3	3	2	3	3	3	3
Total	10	12	12	13	12	11	14	13	14	14	14	15
Average	2	2.4	3	2.6	3	2.2	2.8	2.6	2.8	2.8	2.8	3

3-Strong;2-Medium;1 -Low

Core Course III: Statistics for Economists

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231CC3	4	2	-	-	4	6	90	25	75	100

Pre–requisite:

Improve the analytical skills

Learning Objectives:

1. To provide a strong foundation in statistical concepts and develop skills in data handling and research
2. The course facilitates in inferring the intensity of relationship between multiple variables and building appropriate statistical models.
3. The models thus formulated can be tested for their significance and can be used for forecasting

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the basic Probability rules and understand Theoretical distributions.	**K1**
2	understand knowledge on the various sampling methods and testing of Hypotheses	**K1&K2**
3	apply t test and chi-square for analysis	**K2&K3**
4	analyses the importance of one- and two-way ANOVA	**K3&K4**
5	evaluate the various Decision-making tools available	**K5**

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate; **K6-**Create

Unit	Contents	No. of Hours
I	**Probability** Probability - Addition and Multiplication Theorems - Conditional Probability - Discrete and Continuous - Random Variables - Mathematical Expectations – Bayes Theorem - Theoretical Distributions - Binomial, Poisson and Normal.	**15**
II	**Sampling and Hypothesis Testing** Sampling Theory - Types of Sampling - Sampling Distributions - Parameter and Statistic - Testing of Hypothesis - Level of Significance - Type I and Type II Errors - Standard Error - Properties of Estimator.	**15**
III	**Test of Significance Large and Small Sample** Difference between Large and Small Samples - Test of Significance for Large Samples - Test for Two Means and Standard Deviations - Proportion and Confidence Interval - Small Sample Test – t-test - Paired t- test - Chi-square Test- Test of Goodness of Fit.	**20**
IV	**Analysis of Variance** F test: Assumptions in F test - Analysis of Variance: Assumptions – One-Way and Two-Way Classifications.	**20**

V	**Statistical Decision Theory** Definitions – Concepts – Maximin - Minimax - Bayes Criterion - Expected Monetary Value - Decision Tree Analysis: Symbols - Steps - Advantages and Limitations.	**20**
Self Study	Unit–II Sampling Theory, Types of Sampling	

Text Books

1. Gupta S.P.,Statistical Methods,SultanChandandSons,NewDelhi,2017.
2. Anderson, Sweeney and Williams,"StatisticsforBusinessandEconomics",Cengage,2014.

Reference Books

1. Agarwal(2002),"Statistics Methods – Concepts Application and
Computation", Sterling Publishers Private Ltd.,New Delhi.
2. Vittal P.R., Mathematical Statistics, Margam Publications
3. Pillai R.S.N. and Bhagavathi(2010),Statistics, Sultan & amp; ChandSons, New Delhi.

Web Resources

1. https://www.statista.com.
2. https://techjury.net
3. https://dss.princeton.edu/online_help/analysis/interpreting_regression.htm

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	2	1	1	3	3	2	2	2
CO2	3	2	2	2	2	3	1	2	2	3	2	2
CO3	3	2	3	3	2	3	1	2	2	2	2	2
CO4	3	2	2	2	3	3	1	2	2	2	3	3
CO5	3	2	2	2	3	3	1	3	3	3	2	2
Total	14	10	14	11	12	13	5	12	12	12	11	11
Average	2.8	2	2.8	2.2	2.4	2.6	1	2.4	2.4	2.4	2.2	2.2

3-Strong;2-Medium;1 -Low

Elective Course I: Modern Economic Thought

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231DE5	4	1	-	-	3	5	75	25	75	100

Pre–requisite:

Students should understand the modern contribution towards economics

Learning Objectives:

1. To trace the ideas of Modern Economists
2. To understand the contribution of the Economists

Course Outcomes

	On the successful completion of the course, student will be able to :	
1	understand modern economic concept of role of Entrepreneur Innovation	K1
2	ability to understand about Capital Formation, Disguised Unemployment Imperfect Competition	K1&K2
3	understand the ideas of Permanent Income Hypothesis	K3
4	analyse the ideas of Modern Indian Economists- Regional Economics, Ecological Theory of Population	K4
5	evaluate the economic ideas like role of Technological Progress-Poverty-Deficit Financing and Public Expenditure	K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate; **K6-**Create

Unit	Contents	No. ofHours
I	**Classical Economic Thought** Economic ideas of Irving Fisher –The Quantity theory of Money- Theory of Interest. Joseph Alois Schumpeter - Method of Study –Deductive Method – Inductive Method-Theory of Economic Development-Role of Entrepreneur – Innovation-Business Cycles – Capitalism and Socialism. J.K. Galbraith – The objective of Economic Progress- Concept of Countervailing Power.	15
II	**Neo Classical Economic Thought** RagnarNurske – Foreign Resources – Capital Formation – Disguised Unemployment ,Mrs- Joan Robinson –Imperfect Competition – F.Y .Edgeworth –Mathematical Economic Analysis –Three Dimensional Utility	15
III	**Keynesian Economic Thought** Lord Lionel Robbins – Definition of Economics-Causes of Depression -Milton Friedman – Quantity Theory of Money –Permanent Income Hypothesis ,Friedman and Savage Hypothesis , Paul A.Samuelson –Impact of Keynesian Economics –Revealed Preference Theory –Business Cycles –Social Welfare Function-Samuelson's Utility Possibility Approach	15

IV	**Post Keynesian Economic Thoughts**	15
	Ideas of Modern Indian Economists-R.K.Mukerjee- Institutional theory of Economics-Regional Economics - Ecological Theory of Population -Planning in India, J.K.Mehta – Static and Dynamic Economics -Economics of Welfare - Economics of Growth and Development-Economics of Fast	
V	**Indian Economists**	15
	C.N.Vakil -Planning- Wage -Goods Model-Role of Technological Progress-Poverty -Deficit Financing and Public Expenditure, V.K.R.V.Rao -Economic Activities -Institutional Development-Deficit Financing-Fiscal Policy-Human Factor in Economic Growth-Amartya Kumar Sen – Poverty and Famine ,Poverty and Inequality-Concept of Capability-Entitlement -Choice of Techniques.	
Self Study	Unit-II, Disguised Unemployment	

Textbooks:
1. Dr.U.C.Kulshrestha(1994),History of Economic Thought ,Lakshmi Narain Agarwal
2. Dr.S. Sankaran(2006),A History of Economic Thought, Margham Publications

Reference Books:
1. Eric Roll (1956)A History of Economic Thought, Prentice Hall ,Inc,U.S.A,
2. Dr.Pankaj Srivastava(2018)Economic Thinkers, DND Publications, Jaipur
3. M.L.Jhingan,M.GirijaandL.Sasikala(2011),HistoryofEconomicThought,VrindhaPublications

WebResources:
1. https://ebrary.net/112930/history/a_brief_history_of_economic_thought
2. https://www.exploring-economics.org
3. https://www.econlib.org

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	3	2	3	3	2	3	3	3
CO2	3	3	2	3	2	3	3	2	3	3	3	2
CO3	3	2	3	3	3	2	2	3	3	3	3	3
CO4	2	2	3	3	3	3	3	2	3	2	3	3
CO5	3	2	3	3	2	3	2	2	2	3	3	3
Total	14	11	14	15	13	13	13	12	13	14	15	14
Average	2.8	2.2	2.8	3	2.6	2.6	2.6	2.4	2.6	2.8	3	2.8

3-Strong;2-Medium;1 -Low

Elective Course II: Rural Economics

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231DE4	4	1	-	-	3	5	75	25	75	100

Pre–requisite:
StudentsshouldgettheknowledgeaboutruraleconomicdevelopmentinIndia

Learning Objectives:
1. To understand rural economic development in India
2. To know about the Rural Empowerment Programs initiated by Government of India

Course Outcomes

On the successful completion of the course, student will be able to :		
1	understand the nature and scope of rural economics.	K1&K2
2	Define and demonstrate the theories of rural development and rural resources.	K2
3	Recall, outline and determine rural demography and Occupation structure.	K2&K3
4	Examine and evaluate rural poverty and unemployment.	K3&K4
5	Summarize, develop and explain the rural empowerment programs.	K5

K1-Remember;**K2 –**Understand;**K3 –**Apply;**K4–** Analyze;**K5-**Evaluate;**K6-**Create

Unit	Contents	No.of Hours
I	**Introduction to Rural Economics** Nature and Scope of Rural Economics - Inter-disciplinary approach of Rural Economics –Components - Structure and Characteristics -Pre and Post-independence - Rural Development: Meaning, Nature and Scope - Factors Affecting Rural Growth	15
II	**Rural Resources and Rural development theories** Rural Resources: Nature, Types and Magnitude - Rural Resources Management and Development - Application of Technology in Rural Development – Problems and prospects - W.W. Rostow's - Lewis-Fei-Ranis and Gandhian Approach to Rural Development	15
III	**Rural Demography and Occupational Structure** Demography: Population Size, Sex and Age Composition - Density of Population- Population Problems and Challenges – Family Welfare Measures in Rural India - Occupational Structure: Nature of Rural Occupations - Occupational Distribution in Rural India – The Concept of Work Participation Rates.	15

IV	**Rural Poverty and Unemployment** Rural Poverty: Meaning, Estimates, Causes and Consequences – Unemployment: Meaning, Types and Magnitude of Rural Unemployment - Causes and Consequences - National Programmes for Rural Development - Community Development Programmes and Employment Guarantee Schemes.		15
V	**Rural Empowerment Programmes** Bharat Nirman, Provisions of Urban Amenities in Rural Area (PU RA), Mahatma Gandhi National Rural Employment Guarantee Act - Agencies for Rural Development: Government, Semi-Government Organizations, Co-Operative Institutions, Non-Government Organizations and Voluntary Agencies for Rural Development.		15
Self Study	Unit–IV Rural Unemployment		

Text Books
1. Vasant Desai: Rural Development in India, Himalaya Publishing House, Mumbai,2012.
2. Duttand Sundaram- Indian Economy, S.Chand Publications, NewDelhi, 2013-07-02.

Reference Books
1. Singh,K.,&Shishodia,A.(2016).Ruraldevelopment:Principles,policies,andmanagement.SAGE Publishing India.
2. Hoff,K.,Braverman,A.,&Stiglitz,J.E.(1993).Theeconomicsofruralorganization.Oxford:Oxford University Press.
3. Hill,B.,&Ray,D.(1987).Economicsforagriculture:food,farmingandtheruraleconomy.Basingstoke,UK:Macmillan Education.

WebResources
1. https://www.kobo.com/us/en/ebooks/public-finance
2. https://www.amazon.in/PUBLIC-FINANCE-AMBAR-GHOSH-ebook/dp/B07W5F2P1Q
3https://www.niti.gov.in/sites/default/files/2021-08/11_Rural_Economy_Discussion_Paper_0.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	2	3	2	3	3	3	2	3	3
CO2	2	3	3	3	2	3	3	3	2	3	3	3
CO3	1	2	2	2	3	3	1	3	3	2	3	3
CO4	3	3	2	3	3	2	3	3	3	3	2	3
CO5	1	2	3	3	2	3	3	3	3	3	2	3
Total	8	13	13	13	13	13	13	15	14	13	13	15
Average	1.6	2.6	2.6	2.6	2.6	2.6	2.6	3	2.8	2.6	2.6	3

3-Strong;2-Medium;1 -Low

Elective Course II: Regional Economics

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231DE6	4	1	-	-	3	5	75	25	75	100

Pre–requisite:

Develop the knowledge of Regional economic growth**.**

Learning Objectives:

1. To equip the analytical skills required to analyse the regional economic issues
2. To understand Regional economic growth in India

Course Outcomes

On the successful completion of the course, student will be able to :		
1	understand the nature and scope of regional economics	K1&K2
2	apply the Models of regional, inter-regional and multi-Regional models	K3&K4
3	evaluate the various theories of regional economic growth	K2, &K4
4	describes the Measurement of interregional economic Grow that State level	K4&K4
5	apply Regional Aspects of Stabilization and Growth Policy	K4&K5

K1-Remember;**K2 –**Understand;**K3 –**Apply;**K4–** Analyze;**K5-**Evaluate;**K6-**Create

Unit	Contents	No. ofHours
I	**Introduction to Regional Economics** Nature and scope of regional economics – Regional economics and regional science – Regional and Urban Economics: Need for a separate study of regional economics – Concept and types of regions: Administrative, Planning, Agro-climatic, Economic and Functional regions.	15
II	**Approaches to regional growth** Approaches to regional growth: Models of regional, inter-regional and multi-regional models; Export base models – Location Theory - Gravity models – Shift-share analysis	15
III	**Theories of regional economic growth** Neoclassical models – Dualistic models: Social dualism – Labour surplus model of Arthur Lewis- Migration and development: Harris-Todaro – Core-Periphery models: Myrdal's Cumulative Casuation Hypothesis – Regional Input-output models - New Economic Geography models: Paul Krugman's model of industrial location and development	15

IV	**Regional economic growth in India** Administrative regions in India: State, District, Taluk and Village; Urban and Rural regions - Concept, definition and measure of State Income (GSDP) – Rural and urban GDP – Differences in estimation of national income (GDP) and State Income (GSDP) - Measurement of interregional economic growth at State level	15
V	**Regional Aspects of Stabilization and Growth Policy** Post-war Regional Cyclical Behavior and Policy Measures for Stabilization, Theories to Explain Regional Differences in Growth, Fiscal Programmes, Tax and Transfer Programmes, Fiscal Responses of Power Level Governments, Regional Orientation to Policy Programmes and Central Responsibility.	15
Self-Study	Unit–I Types of Regions	

Textbooks
1. Capello Roberta. (2016). Regional Economics, Routledge (New York),2nd Edition,PP-378.
2. Temple, M. (1994).*Regionaleconomics*. St.Martin'sPress.

References
1. Martin Armstrong, Jim Taylor (2000), RegionalEconomicsandPolicy,3rd Edition, Wiley- Blackwell Publication, PP-448.
2. Harry Richardson(1973):Regional Growth Theory, Macmillan.
3. Harry W.Richardson. (1970). Elements of Regional Economics. Penguin Books(New York).
4. Harry WRichardson (1969):Regional Economics: Location theory, Urbanstructureandregional change, Weidenfeld &Nicolson(London)
5.

Web resources
1. http://www.rri.wvu.edu/WebBook/Giarratani/contents.htm
2. https://researchrepository.wvu.edu›cgi›viewcontent
3. https://ddceutkal.ac.in›Syllabus›MA_Economics

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	3	3	3	3	2	3	3	3
CO2	2	2	3	3	3	3	3	3	3	2	3	3
CO3	2	2	3	3	3	2	2	3	3	2	3	3
CO4	2	3	3	2	3	2	2	2	2	2	2	3
CO5	2	3	3	3	2	3	2	2	3	3	3	3
Total	11	13	15	13	14	13	11	13	13	12	14	15
Average	2.2	2.6	3	2.6	2.8	2.6	2.2	2.6	2.6	2.4	2.8	3

3-Strong;2-Medium;1 -Low

Elective Course II: Welfare Economics

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP231GE7	4	1	-	-	3	5	75	25	75	100

Pre–requisite:
Know the fundamentals of Welfare Economics

Learning Objectives:
1. Toenablestudentstounderstandthefundamentalsaswellasdevelopmentinth efield of Welfare Economics
2. ToshowtheimportanceofwelfareEconomicscomparedtothatofwealthEconomics

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the Contribution to Welfare Economics	K1
2	understand the different approaches to Welfare Economics	K2
3	analyze the development of Pareto Optimality Conditions	K3&K4
4	describe the compensation Criteria of Economics	K4
5	evaluate theories of Social Choice.	K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate; **K6-**Create

Unit	Contents	No. of Hours
I	**Introduction to Welfare Economics** Welfare Economics: Meaning- Concepts: Individual and Social Welfare- Value Judgments- Preferences and Utility - Utility function: Properties - Interpersonal comparisons of utility: degrees of interpersonal comparability. –Social Welfare Function: –Bentham's Utilitarianism- Pigouvian Welfare Economics.	15
II	**Approaches to Welfare** Cardinal and Ordinal Approaches- Hicks's Four Measures of Consumers' Surplus- Partial and General Equilibrium- Edgeworth Box Diagram- General Equilibrium of Production and Exchange.	15
III	**Pareto Optimality Conditions** Pareto-Optimality Criterion -Definition-Marginal Conditions of Pareto Optimum – Perfect Competition and Pareto Optimality- Exceptions –Externalities – Public Goods and Market Failure – Theory of Second Best.	15
IV	**New Welfare Economics** New Welfare Economics – Kaldor- Hicks Compensation Criterion – Utility Possibility Curve -Shortcomings – Scitovsky Paradox – Scitovsky's Double Criterion of Welfare– Little's Criterion.	15
V	**Theories of Social Choice** Utility Possibility Curve and Frontier Grand Utility Possibility Curve- Iso Welfare Curves- Arrow's Impossibility Theorem – Amartya Sen and Capability Theorem – Rawls Theory of Social	15

	Justice	
Self-study	Unit–III Pareto-Optimality Criterion	

Text Books

1. Rana & VermaK.N(2012) Microeconomic Theory, Vishal Publishing House
2. Per– OlovJohannson(2009) Anintroductionto Modern Welfare
Economics, Cambride University Press

Reference Books

1. Arrow,KennethJ(1963)Social Choice and Individual
Values, Cowles
FoundationMonograph12,2nded.YaleUniversity
2. Bossert, Walter and Kotaro Suzumura (2010) Consistency, Choice and
Rationality, Harvard University Press: CambridgeMA
3. Broadway,R.W.and N.Bruce(1984),Welfare Economics, Basil Blackwell, Oxford

Web Resources

1. https://conceptually.org/concepts/pareto-principle
2. https://web.stanford.edu/~jdlevin/Econ202/GeneralEquilibrium.pdf
3. https://policonomics.com/lp-welfare-economics1-general-equilib

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	1	3	3	3	3	2	2	3	2
CO2	3	3	3	1	2	3	3	2	3	2	3	3
CO3	2	3	1	3	3	2	3	2	3	3	3	3
CO4	3	2	3	3	2	3	2	3	3	2	3	3
CO5	3	3	2	3	3	3	2	2	3	3	3	3
Total	14	13	12	11	13	14	13	12	14	12	15	14
Average	2.8	2.6	2.4	2.2	2.6	2.8	2.6	2.4	2.8	2.4	3	2.8

3-Strong;2-Medium;1 –Low

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SELF LEARNING COURSE
DEMOGRAPHY
Sub. Code: PF20S1

</div>

No. of Credit	Marks
4	100

OBJECTIVES

- To know about India's demographic conditions and population policy.

UNIT - I INTRODUCTION

Nature and scope of population studies - Development of population studies in India – Inter relationship between population studies and other disciplines – Sources of population data: Census, Vital Statistics or Registration of vital events, sample surveys, Dual Report system, population registers, international publications.

UNIT - II MIGRATION AND URBANIZATION

Concepts and types -temporary, Internal and international; Factors affecting migration ;methods of measuring Internal Migration; theories of migration; Urbanisation – growth and distribution of rural-urban population.

UNIT - III DEMOGRAPHIC DATA BASE IN INDIA

Study of Census in India – Methodology and characteristics of census – National Family Health Survey – Population growth rate – Sex ratio – Age structure of population – Life expectancy – Fertility rate – factors affecting fertility –basic measures of fertility.

UNIT-IV POPULATION AND DEVELOPMENT WITH   REFERENCE   TO INDIA

Population, health, nutrition; population   and   human   development   issues; Labour force-Definition of terms and concepts-method of measuring labour force.

UNIT-V POPULATION POLICY IN INDIA

Evolution   of   population   policy   in   India-methods   of   conception   control Fertility influencing policies - direct and indirect Anti - Natalist policies - Family planning programme - National population policy.

Reference Books

1. Principles of Population studies　　　　　–　Asha Bhende & Tara Kanikar
2. Indian Population Problems　　　　　　-　S.N. Agarwal
3. An Introduction to social Demography　　–　M.K. Premi
4. Studies in Demography　　　　　　　　-　S.C. Srivastava
5. Indian Population in Transition　　　　　–　 C.B. SAxena
6. Studies in Demography　　　　　　　　–　Aish Bose, P.B. Desai & S.P. Jain

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SELF LEARNING COURSE
Semester IV
ECONOMICS OF TOURISM MANAGEMENT
Sub. Code: PF20S2

</div>

No. of Credit	Marks
3	100

OBJECTIVES
- To provide the students an in-depth view of the fundamentals of tourism.
- To provide an environment and to create an aptitude towards Tourism Research

Unit – I Introduction
Introduction – Objectives – Origin – Elements of Tourism – Basic components of Tourism – Types and Classification of Tourism

.**Unit – II Accommodation**
Emergence of the Hotel – Types of Hotels – Supplementary Accommodation.

Unit – III Travel Agencies in Tourism
Organisation of Travel agencies – Travel agencies in India

Unit – IV Organization of Tourism
Need for organization – Factors influencing organization – The National tourist organization – Tourist organization in India.

Unit – V Indian Tourism Industry
Indian Tourism Industry – Economic gains and social gains – Environmental impact of Tourism.

Reference Books
1. Shashi Prabha Sharma, (2010). Tourism and environment. (2nd Edition). New Delhi, Kanish Publishers, Distributors.
2. Sharma, J.K. (2011). Tourism and Development. (1st Edition). New Delhi, Kanish Publishers, Distributors.
3. Bhatia, (2013). Tourism Development Principles and Practices. (2nd Edition). New Delhi, Sterling Publishers Private Ltd.
4. Julio Armberri Richard Bulter, (2013). Aspects Tourism Development. (1st Edition). New Delhi, Viva (p) Ltd.
5. Kamra, K. (2013). Economics of Tourism Pricing, Impacts forecasting. (1st Edition). New Delhi, Kanishka publishers.

CORECOURSE IV: MONETARY ECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232CC1	4	2	-	-	5	6	90	25	75	100

Pre–requisite:

The students should know the monetary theories and models.

Learning Objectives:

1. The course is devoted to the main issues in modern monetary economics.

2. The factors behind money demand and supply are studied through these to comprehensive monetary models.

Course Outcomes

On the successful completion of the course, student will be able to :	
1	understand the theories of money.	K1
2	distinguish the various determinate of money supply and multiplier.	K1&K2
3	evaluate the capital market.	K2&K3
4	analyze the importance of banking sector.	K4
5	evaluate and make use of monetary policy.	K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate

Unit	Contents	No. of Hours
I	**Classical Theories of Money** Demand for Money Quantity theories of money – Fisher and Cambridge- Keynesian monetary theory- James Tobin's portfolio analysis of money demand- Don Patinkin`s Integration– Real Balance Effect- Milton Friedman's reformulated quantity theory.	18
II	**Supply of Money** Supply of Money Types and determinants of money supply – money multiplier- Theories of interest rate – classical – Keynes – Hicks – Hansen.	18
III	**Money and Capital Market** Money and Capital Market Significance and functions of Money market and capital market- Role of financial intermediaries – Effects of financial intermediation- non-banking financial institutions.	18
IV	**Banking and its functions** Banking Functions of Commercial banks - Credit creation – process and limitations Role of Commercial banks after nationalization – after reforms- Role of RBI – Regulation of money supply and credit- Narasimham Committee Reports– 1991.	18
V	**Monetary Policies** Monetary Policy Objectives and Instruments of Monetary policy– Limitations of monetary policy- Monetarism and Keynesianism – Comparison - Supply side policies.	18
Self Study	Role of RBI	

Text Books

1. Bain,Keithand Howells,Peter:MonetaryEconomics:PolicyanditstheoreticalBasis, PalgraveMacmillian,2ndEdition,2009.
2. Mishkin.S.Frederic-TheEconomicsofMoney,BankingandFinancialMarkets,Pearson Publication,11thEdition,2015

Reference Books

1. Jhingan,M.L, 2005.*MonetaryEconomics*[KonarkPublication,NewDelhi],PP-578.
2. Sundaram, K.P.M, 2003. *Money, Banking and International Trade* [Vikas, New Delhi], PP-621.
3. Vaish,M.C, 2004.Money,*BankingandInternationalTrade[NewAgeInternational*,New Delhi,PP–954.
4. Jagdish Handa, 2009. *Monetary Economics*, USA and Canada by Routledge Publication. PP-521.
5. William A. Barnett & Kenneth J. Singleton, 2010. *New approaches to monetary Economics*, Cambridge University Press, PP – 241.

Web Resources

1. https://www.amazon.in/Handbook-Monetary-Economics-Benjamin-Friedman-ebook/dp/B00EXOTZ96
2. https://link.springer.com/book/10.1057/9780230280854
3. https://www.rbi.org.in/scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy
4. http://tumkuruniversity.ac.in/oc_ug/arts/Monetary%20Economics.pdf
5. http://bibliotheque.pssfp.net/livres/monetary_economics.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO /PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	2	2	1	1	3	2	3	3	3
CO2	3	1	3	3	3	1	1	3	3	2	2	3
CO3	3	3	2	3	3	1	3	2	2	3	3	3
CO4	3	3	3	2	3	2	3	1	3	3	2	3
CO5	3	3	2	3	3	2	3	1	3	2	3	2
Total	13	11	11	13	14	7	11	10	13	13	13	14
Average	2.6	2.2	2.2	2.6	2.8	1.4	2.2	2	2.6	2.6	2.6	2.8

3-Strong;2-Medium;1 -Low

CORECOURSE–V: LABOURECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232CC2	4	2	-	-	5	6	90	25	75	100

Pre–requisite:

Students should know the Labour Policy and Labour Market System

Learning Objectives:

1. To enable and acquire the knowledge the relating to the significance of labour market
2. To understand the manpower in Economic Development

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the recent trends of labour and their productivity	K1
2	understand the determination of employment and wages	K1&K2
3	analyze the impact on labour market	K3&K4
4	outline the Industrial relation	K4
5	evaluate the current trends of social security measures	K5

K1-Remember;**K2 –**Understand;**K3 –**Apply;**K4–** Analyze;**K5-**Evaluate

Unit	Contents	No. of Hours
I	**Labour Market and Policies** Labour Market- Nature and Characteristics, Demand for Labour in relation to size and pattern of investment, Choice of technologies and labour policies Supply of Labour, Growth of Labour Force, Labour Market Policies, Mobility and Productivity	18
II	**Employment and Wage Determination** Employment and Development relationship- poverty and unemployment, Unemployment- Types, concepts and measurement, Employment Policy Wage Determination- Classical, Neo-classical and Bargaining theories; Concepts of minimum wage and efficiency wage; Non-wage component	18
III	**Trade Union Movement** Since Independence and Present Scenario of the Trade Union Movement– AITUC – INTUC – HMS – UTUC – Association of Indian Trade Unions with International Trade Unions –Problems of Trade Unions – Essentials for success of a Trade Union - Recent policies relating to Trade union act	18
IV	**Industrial Relation** Need for Industrial Relation Machinery-Preventive and Curative methods-Collective Bargaining, Arbitration and Adjudications- Role of State in Industrial Relations.	18

V	**Social Security and Reforms** Social Security- Concepts and evolution, Social assistance and insurance, Review and Appraisal of State Policies, Special Problems-Child labour, discrimination, bonded labour-Labour market Reforms- Exit Policy, safety requirements, National Commission on Labour, Globalization and labour markets, mobility of labour.	18
Self Study	Need for Industrial Relation Machinery	

Text Books

1. Pant C, 2007. Indian Labour Problems, (Allahabad, Chaitanya Publishing House).
2. S. D. Singh, 2012. Labour Economics, (Ajanta Prakasham New Delhi).

Reference Books

1. Tyagi P.B, 2011. *Labour Economic sand Social welfare*, (Jaiprakash Nath & Co.Meerut), PP–700.
2. BaholiwalT.N, 2003.*Economics of Labour and Industrial Relations* ,(Sahity Bhawan, Agra),PP-358.
2. R.J. Reddy, 2004. *Economics of Labour*, (AsiaPublishingHouse, Bombay),PP-600.
   4. Suman Kalyan Chakraborty, 2018. *Labour Economics*, Himalya Publishing House.
   5. A.K. Sharma, 2006. *Labour Economics*, Anmol Publisher.

Web Resources

1. https://fac.ksu.edu.sa›sites›default›files›Moder.

2. http://students.aiu.edu› resources 'online Book› q.

3. http://assets.vmou.ac.in›PGDLL06

4. https://economics.mit.edu/sites/default/files/inline-files/Lectures%20in%20Labor%20Economics.pdf

5. https://oer.funai.edu.ng/wp-content/uploads/2016/11/FUNAI-LABOUR-ECONOMICS-I-ECO-213-LECTURE-NOTES.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	2	3	3	3	1	2	1	2	3
CO2	1	1	3	3	2	3	3	1	2	2	3	3
CO3	1	1	3	3	3	3	3	1	3	3	3	3
CO4	3	2	3	2	3	3	3	1	3	2	3	3
CO5	3	3	3	2	3	3	3	1	2	3	3	3
Total	11	9	14	12	14	15	15	5	12	11	14	15
Average	2.2	1.8	2.8	2.4	2.8	3	3	1	2.4	2.2	2.8	3

3-Strong;2-Medium;1 -Low

CORE COURSE–VI: MATHEMATICAL ECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232CC3	4	2	-	-	4	6	90	25	75	100

Pre–requisite:

Apply the Mathematical Methods in Economic Theories

Learning Objectives:

1. The paper aims to introduce students to the basic building blocks of mathematical

2. analysis used in modern economic theory.
3. To equip the students with mathematical tools and to optimize both static and dynamic economic environment

Course Outcomes

On the successful completion of the course, student will be able to :		
1	understand the mathematical structure of standard economic Theoretical framework	K1
2	adopt mathematical tools to solve optimization problems appear in economic theory	K1&K2
3	equip the students with tools to read the technical writing appear in standard economic journals	K2&K3
4	analyze the dynamics of macroeconomic policies in an economy	K2&K4
5	evaluate mathematically the dynamics of the growth process in an economy	K5

K1-Remember; **K2** –Understand; **K3** –Apply; **K4**– Analyze; **K5-**Evaluate

Unit	Contents	No. of Hours
I	**Introduction to Linear Algebra** Sets-Basic concepts-Ordered sets-Relations-Order relations-Metric Spaces-open and closed sets– Convergence - Linear Algebra , Vectors, matrices, inverse, simultaneous linear equations, Cramer's rule for solving system of linear equations.	18
II	**Differential Calculus** Introduction to Functions, Limits and Continuity, Derivatives – Concept of maxima& minima, elasticity and point of inflection. Profit & revenue maximization under perfect competition, under monopoly.	18
III	**Optimization Techniques with Constraints** Functions of several variables, Partial and total, economic	18

	applically, implicit function theorem, higher order derivatives and Properties of linear homogenous functions, Euler's theorem, Cobb – Douglas Production Function.	
IV	**Linear and Non-Linear Programming** Optimization with Inequality Constraints- Linear Programming– Formulation-Primal and Dual- Graphical and Simplex method-Duality Theorem-Non-Linear Programming.	18
V	**Economic Dynamics** Differential Equations-Basic Ideas-Types-Solution of Differential Equations (Homogenous and Exact)-Linear Differential Equations with Constant Coefficients (First and Second Order).	18
Self-study	Euler's theorem	

Text Books

1. GeoffRenshaw,2016. MathsforEconomics,4EOxfordUniversityPress.
2. Malcolm Pemberton & Nicholas Rau, 2016. Mathematics for Economists, Manchester University Press.

Reference Books

1. Carter,M, 2001.*FoundationsofMathematicalEconomics*,MITPress,PP-589.
2. Chiang,A.C.andWainwright,K, 2005.*FundamentalMethodsofMathematicalEconomics*, McGraw-HillEducation,PP-854.
3. DowlingE. T.,*Mathematicsforeconomists*,SchaumSeries(latestedition), PP-952.
4. B.C. Mehta & G.M.K. Madnani, *Mathematics for Economists*, Sultan Chand & Sons, 2020.
5. Edward T. Dowling, *Theory & Problems of Introduction to Mathematical Economics*, 3rd Edition, 2001.

Web Resources

1. https://www.udemy.com/course/mathematics-for-economists-functions-and-derivatives/

2. https://www.classcentral.com/course/swayam-mathematical-economics-14187

3. https://www.coursera.org/learn/introduction-to-calculus

4. https://www3.nd.edu/~powers/ame.60611/notes.pdf

5. https://www3.nd.edu/~powers/ame.60611/notes.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	3	3	3	1	3	3	3	3	3	3
CO2	1	1	3	3	2	1	3	2	2	3	3	3
CO3	3	2	2	3	2	1	3	3	3	3	2	2
CO4	3	1	3	3	2	2	3	3	3	3	3	3
CO5	3	3	2	3	3	1	3	2	2	3	3	2
Total	11	9	14	15	12	6	15	13	13	15	14	13
Average	2.2	1.8	2.4	3	2.4	1.2	3	2.6	2.6	3	2.8	2.6

3-Strong;2-Medium;1 –Low

ELECTIVECOURSEIII: A)GENDERECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232EC1	3	1	-	-	3	4	60	25	75	100

Pre–requisite:

The Learners should know the empowerment of women and gender inequality.

Learning Objectives:

1. To evaluate sources of socio-economic and demographic information for analyzing the impact of the gender factor on demographic processes and economic development
2. It enables to foresee the contributions of women as active economic agents and strategies to empower women and reduce gender inequalities.

Course Outcomes

On the successful completion of the course, student will be able to :		
1	understand the Gendered jobs and Social Inequality	K1&K2
2	describes the Gender issues at the work place	K1&K2
3	apply the Gender issues in Health, Environment, Family Welfare Measures	K2&K3
4	analys is the role of women in economic development	K4
5	assess the Initiatives towards recognition of women as Agents of development from sixth five-year plan.	K5

K1-Remember;**K2** –Understand;**K3** –Apply;**K4**– Analyze;**K5-**Evaluate

Unit	Contents	No. ofHours
I	**Introduction** Definition- Objectives of Gender Studies - Importance of gender Studies -Women and work: unpaid, underpaid and casual work - Women in primary, secondary and tertiary sectors - Classification of work in Indian census and NSSO – Main workers, marginal workers, non-workers - Invisibility of women's work, problems in measurement.	12
II	**Gender Inequality in Labor Market** Segmented Labor Market and Occupational Segregation - Globalisation and its impact on gender - Issues of wage discrimination and exploitation in unogranised sector - Women's participation in organised sector - Gender Discrimination - Gender issues at the work place	12
III	**Social Empowerment** Women in Higher Education - Gender issues in Health, Environment, Family welfare Measures - Indecent representation of Women in media - Women in Difficult circumstances.	12

IV	**Economic Empowerment** Introduction - organized sector, unorganized sector - Role of Women in Economic Development – Female Poverty and Poverty alleviation programmes - Status of Women farmers and land rights - Women Entrepreneurs - Impact of Globalization on working women.	12
V	**Social issues and Women in Indian Planning** Issues in the Unorganized sector of Employment - Women's work: Status and problems - problems of Dalit women - Initiatives towards recognition of women as agents of development from sixth five year plan.	12
Self-study	Gender Issues in Health, Environment, Family Welfare Measures	

Textbooks

1. Eswaran, M, 2014.*Whygendermattersineconomics*. Princeton University Press.
2. Becchio, G, 2019.*A History of Feminist and Gender Economics*. Routledge

Reference Books

1. Humphries, J. 2003.*Genderandeconomics*. Edward Elgar Publishing- 586.
2. Dijkstra,G.,&Plantenga,J.2013.*Genderandeconomics:aEuropeanperspective*.Routledge,PP–725.
3. Negra,D.,&Tasker,Y.2014.*Introduction.Genderandrecessionaryculture.InGenderingthe Recession,* Duke University Press, PP–523.
4. Joycy P. Jacobres, 2007. 3rd Edition, *The Economics Gender*, Wiled – Balck well Publication.
5. Pazhani Samy R, 2023. *Gender Economics*, Kindle Edition, Kindle Unlimitted Publication.

Web Resources

1. https://www.academia.edu›9_Ch_1_Gender_Economics

2. https://ftp.iza.org›

3. https://www.oecd.org›derec›world bank group

4. https://docs.iza.org/dp13877.pdf

5. https://www.undp.org/sites/g/files/zskgke326/files/migration/asia_pacific_rbap/RBAP-Gender-2012-GEPMI-Module-1.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	3	3	3	3	3	3	3	2	3	3
CO2	1	3	3	3	3	3	2	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	2	3	3
CO4	1	3	3	2	3	3	3	3	3	3	3	3	3
CO5	1	3	3	2	3	3	3	3	3	3	2	3	3
Total	7	15	15	13	15	15	14	15	15	14	12	15	15
Average	1.4	3	3	2.6	3	3	2.8	3	3	2.8	2.4	3	3

3-Strong;2-Medium;1 -Low

ELECTIVE COURSEIII: B) URBANECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232EC2	3	1	-	-	3	4	60	25	75	100

Pre–requisite:

The students should know the issues and remedies of urban poverty

Learning Objectives:

1. To equip with theory and measurement of urban economic growth and development, spatial structure of cities and urbanization.
2. The course outlines the issues of urban poverty and its impact on urbanization

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the scope of urban economics and urban economic growth	K1
2	understand the process of urbanization and classification Urban areas	K1&K2
3	analyze the various theories of urban growth	K3
4	evaluate the growth of formal growth and informal growth Economic activities	K4
5	appraise the urban problems	K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate

Unit	Contents	No. ofHours
I	**Introduction** Definition and Scope of Urban Economics - Sources of Urban Growth –International migration, Trends in growth of urban population in the world - Urbanization and agglomeration economies – industrialization and services sector growth –Urbanization and urban economic growth – Urbanization and globalization.	12
II	**Economics of Urbanization** The Process of urbanization: Nature - Characteristics of an economy passing through different stages of urbanization - Classification of urban areas by demographic, geographical and economic criteria-Process of sub-urbanization	12
III	**Theories of Urban Growth and spatial structure** Christaller's Central Place Theory - The Human Ecological Approach to Urban Growth - Migration and urban economic growth: Harris-Todaro Model – Concepts of City Structure - Urban Residential Land Use Models: Muth, Siegel.	12

IV	**Urbanization and Labour Market** Urbanisation and Labour Market - Pull and Push Factors for Urbanisation in India - High Wages and Improved Infrastructure - Employment Opportunities and Educational facilities.	12
V	**Urban Problems and Urban Planning** Over Population and congestion - Urban housing problem - Urban environment: Air, Water and Noise Pollution - Urban poverty and inequality - Urban Infrastructure: transport Water Supply, Sanitation and Solid waste management - Need for Urban Planning: Objectives - Jawaharlal Nehru National Urban Renewal Mission - Smart Cities	12
Self Stu dy	The Process of urbanization	

Text Books

1. Shukla,V, 2006.UrbanizationandEconomicGrowth,HimalayaPublishersPvt.Ltd(New Delhi).
2. Robert LBishand Hugh ONourse, 2011.Urban Economics and Policy Analysis, McGraw Hill Kogakusha Ltd(Tokyo).

Reference Books

1. O'Sullivan, 2012. *Urban Economics*, McGraw-Hill Higher Education (Boston).
2. EdwinS.Mills, 2001.*Handbookon Regional and Urban Economics*, Volume2:Urban Economics. North-Holland(Amsterdam).
3. Duranton,G.,&Strange,W.C, 2006.*Handbookofregionalandurbaneconomics:applied urban economics*(Vol.3).Elsevier.
4. Jan K. Brueckner, 2011. *Urban Economics*, MIT Publication, England.
5. Edwin S. Mills, J.F. Thisse, Peter Nijkamp, V. Henderson (2004), *Handbook of Regional and Urban Economics*, Volume 4, Elsevier Science Publication.

Web Resources

1. https://link.springer.com›bfm:978-1-349-15661-0›1.pdf

2. https://www.academia.edu›Urban_economics_Arthur_O..

3. https://www.ysk-books.com› show› book 'regional-a..

4. https://jorgeperezperez.com/files/urbana_intro_c1.pdf

5. https://urbaneconomics.org/workshops/lectures2020/slides/UEA_Lectures_Glaeser.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	3	2	2	2	3	2	3	3
CO2	3	3	3	3	3	3	3	2	3	2	3	3
CO3	2	3	2	2	3	3	3	2	3	2	3	3
CO4	2	2	2	2	2	2	2	2	3	2	3	3
CO5	2	3	2	2	3	2	2	2	3	2	3	3
Total	12	14	12	11	14	12	12	10	15	10	15	15
Average	2.4	2.8	2.2	2.2	2.8	2.4	2.4	2	3	2	3	3

3-Strong;2-Medium;1 – Low

ELECTIVE COURSE III : C)SOCIAL ENTREPRENEURSHIP IN HEALTH AND HYGIENE

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232EC3	3	1	-	-	3	4	60	25	75	100

Pre–requisite:

The students should know the various theories and skills of entrepreneurship

Learning Objectives:
1. To understand the social entrepreneurship, motivation and its health and hygienic.
2. To analyses Entrepreneurial motivation and to evaluate about the organizations. Course Outcomes

On the successful completion of the course, student will be able to :	
1	understand the social entrepreneurship and innovation	K1 &K2
2	apply the entrepreneurial motivation and its theories	K3 & K5
3	understand attain knowledge about social entrepreneurship in health and hygiene	K2 & K4
4	analyze an overview of various internship programmed offer by different organizations	K1& K2
5	evaluate the students' skills required for social entrepreneurship.	K4 & K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate

Unit	Contents	No. ofHours
I	**Social Entrepreneurship** Entrepreneurship: Meaning, Concept, Definition, Theories - Entrepreneurship - Social Entrepreneurship and Innovation - Objectives - Importance and Significance - Characteristics and qualities of Entrepreneurs. - Skills for Entrepreneurship - Issues and challenges. - Business Ethics	12
II	**Entrepreneurial motivation** Motivating Factors - Motivation Theories: Maslow's Need Hierarchy Theory, McClelland's Acquired Need Theory - Entrepreneurship Development Programme	12
III	**Entrepreneurship in health and hygienic** Planning, Organizing, Actuating and Control - Resources required (Money, Manpower, Machine, Material) - Training and Development - Networking with other organization -Innovative Ideas to deal with the context	12
IV	**Organizations for Internship and Observation Visits** Internship- Meaning - Significance of Internship - International Organizations (UNICEF) - Government Organizations (SBM) - NGOs (ESI) - Model villages.	12

V	**Activities as their Practicum** Seminars/group presentation on social entrepreneurship - Field visit and report writing -Critical Analysis of policies -Case studies	12
SelfStudy	Social Entrepreneurship and Innovation	

Text books:
1. Hisrich, 2011. Entrepreneurship. Tata McGraw-Hill Education.
2. Oates, David, 2009. A Guide to Entrepreneurship. Jaico Publishing House, Mumbai,Edn.

References:
1. Desai, Vasant, 2002. *Project Management and Entrepreneurship*. Mumbai: Himalaya Publishing House.
2. Mohanty, S. K, 2005. *Fundamentals of entrepreneurship*. PHI Learning Pvt. Ltd..Kiesner, F. (Ed.), 2009. Creating entrepreneurs: making miracles happen. World scientific.
3. Sharma. S, 2021. *Entrepreneurship development*. PHI Learning Pvt. Ltd.
4. Suri, R.K., & Seema, 2007. *Entrepreneurial Development*. (4th ed.). Allahabad: Kilab Mahal.
5. Gupta, G.D. & Srinivasan S.N.P, 2010. *Entrepreneurial Development*. (1st ed.). New Delhi: Sultan Chand & Sons.

Web References:
1. https://www.who.int/
2. https://www.unicef.org/
3. https://www.weforum.org/
4. https://oms.bdu.ac.in/ec/admin/contents/86_16CCBB15_2020052901532338.pdf
5. pacollege.ac.in/assets/uploads/1642155717_EDP_pdf_pdf.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	3	3	3	2	2	3	2	3	2
CO2	3	3	3	3	3	3	3	2	3	2	3	3
CO3	2	2	3	2	3	3	3	2	3	2	3	3
CO4	2	2	3	2	3	2	2	2	2	2	3	2
CO5	2	2	3	2	3	3	2	2	3	2	3	2
Total	12	11	15	12	15	14	12	10	14	10	15	12
Average	2.4	2.2	3	2.2	3	2.8	2.4	2	2.8	2	3	2.4

3-Strong;2-Medium;1 – Low

ELECTIVECOURSEIV: A) RESOURCEECONOMICS

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232EC4	3	1	-	-	3	4	60	25	75	100

Pre–requisite:

Students should know the availability of resources

Learning Objectives:

1. To trace the resources in the country
2. To understand the quality of the available natural resources

Course Outcomes

	On the successful completion of the course, student will be able to :	
1	remember and resources in India and the issues related to it	K1
2	understand the availability of Forest resources and understand the Methods to conserve the resources	K2&K3
3	analyze the water resources in the country and related Environmental issues	K4
4	evaluate the mineral resources in the country	K5
5	evaluate the conservation of Natural Resources	K5

K1-Remember;**K2 –**Understand;**K3 –**Apply;**K4–** Analyze;**K5-**Evaluate

Unit	Contents	No. of Hours
I	**Introduction** Land Resources in India - Types of soil- Land resource Classification -Forest ,Barren land, Pastures and grazing land, cultural Waste Land, Fallow Land, Agricultural Land - Land degradation and soil Erosion- Preventive Measures.	12
II	**Unit II: Role of Resources in Economic Development** Forest Resources-Role of Forests in Economic Development-Forest cover in India- Deforestation-Effects of Deforestation-Urban Forestry - Objectives of Urban Forestry- Social Forestry-Constraints in Social Forestry - Collective Participatory Forest Management – Recent National Forest Policy Act	12
III	**Water Resources in India** Water Resources in India -Surface Water –Ground Water –Water Demand and Utilisation- Water Resource Planning- Multi –objective Approach-Benefit Cost Ratio-Capital outlay-Environmental Impact Assessment (EIA)- Sustainable Water Management-Recent National Water Policy	12
IV	**Mineral Resources** Mineral Resources- Metallic Minerals-Non Metallic Minerals –Mineral Fuels-Environmental Costs of Extracting Mineral Resources-Environmental Impacts of Mineral Resource Extraction and Use.	12

	Conservation and Management of Natural Resources	12
V	Conservation and Management of Natural Resources - Meaning and objectives of Conservation. Conservation of Renewable Resources: Soil conservation- Water Conservation-Forests Conservation-Fish Conservation-Biodiversity Conservation. Conservation of Non Renewable Resources: Energy Conservation-Mineral Conservation	
Self Study	Land Resources Classification	

Text Books

1. M.L.Jhingan, ChandarK.Sharma, 2007.Environmental Economics Theory, Management

   and Policy,Vrindha Publications, New Delhi

2. G.Paneerselvam, 2008.EconomicsofNaturalResourcesinIndia, Abhijeet Publications, NewDelhi

Reference Books

1. Jon.M.Conrod, 2010.*ResourceEconomics*,CambridgeUniversityPress, U.K
2. JohnC.Bergstrom &Alan Randall, 2010.*ResourceEconomics–An Economic Approach to Natural Resource and Environmental Policy*, Edward ElgarPub,Ltd
3. JudithRees, 2019.*NaturalResourcesAllocationEconomicsandPolicy*, Routledge,UK
4. Jon M. Conrad, 2003. *Resource Economics*, Cambridge University Press.
5. John C. Bergstrom & Alan Randall, 2016. *Resource Economics*, The Ohio State University.

Web Resources

1. https://www.india.gov.in/topics/environment-forest/natural-resources
2. https://ibm.gov.in/writereaddata/files/09182018162439Mineral%20Scenario%20pdf.pdf
3. https://dsecoaching.com/Content/Manage/PDF/4025[Jon_M._Conrad]_Resource_Economics(BookFi.org)_(2).pdf
4. https://www.studysmarter.co.uk/explanations/microeconomics/economic-principles/economic-resources/
5. https://www.uio.no/studier/emner/sv/oekonomi/ECON4925/h16/pensumliste/txtbook_3.ed_att00106.pdf

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	2	3	3	3	2	2	3	3
CO2	2	3	2	3	3	2	3	2	2	2	2	2
CO3	3	2	2	3	3	3	3	3	3	3	3	3
CO4	3	3	2	3	2	3	3	2	3	3	3	3
CO5	3	3	2	3	2	2	2	2	3	2	3	3
Total	13	13	11	14	12	13	14	12	13	12	14	14
Average	2.6	2.6	2.2	2.8	2.4	2.6	2.8	2.4	2.6	2.4	2.8	2.8

3-Strong;2-Medium;1 – Low

ELECTIVECOURSEIV: B) ECONOMICSOFCLIMATECHANGE

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232EC5	3	1	-	-	3	4	60	25	75	100

Pre–requisite:

Students should understand the climatic change from the economic perspective

Learning Objectives:

1. The objective of this course is to analyses climate change from an economic perspective.
2. The problem is characterized as one of regulating a global stock externality in an intertemporal setting and in the presence of uncertainty and irreversibility

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the science of climate change.	K1
2	understand and identify the climate change policy.	K1&K2
3	observe the integrated assessment of climate changes.	K3
4	analyze the climate change impact assessment.	K4
5	assess the climate change negotiations and equity.	K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate

Unit	Contents	No. of Hours
I	**Introduction** Science of climate change; global and regional climate predictions; uncertainty in science; physical impacts of climate change – agriculture, sea level rise, health, extreme events; policy debate.	12
II	**Climate Change Policy - Mitigation** Efficiency, public goods, externalities; environmental policy instruments – emissions trading, carbon tax, emission trading versus tax; stock pollutants and discounting; decisions under risk and uncertainty;	12
III	**Integrated Assessment** Costs and benefits of greenhouse gas mitigation; integrated assessment models; simulation exercises based on DICE model and its variants; sensitivity and uncertainty analysis; Stern review.	12
IV	**Climate Change Policy - Adaptation** Climate change impact assessment – applications for agriculture, sea level rise and health; vulnerability assessment; economics of adaptation; measurement of adaptation cost; issues in financing adaptation.	12
V	**Climate Change Negotiations and Equity** Criteria for distribution of emission reduction burden; distribution criteria for adaptation fund; inter and intra-generational equity issues; discounting in climate change context	12
Self-study	Climate change impact assessment	

Text Books

1. Perman,R.,Ma.Y.,Common,M.,Maddison,D.,Mcgilvray,J.,NaturalResourceand

EnvironmentalEconomics,PearsonEducationLimited,2011.(4thEdition).
2. Intergovernmental Panel on Climate Change–Fifth Assessment Report, 2011.Stern, N.,The economics of climate change – The Stern Review, Cambridge University Press, 2006.

Reference Books

1. F. Ackerman, E. Stanton: *Climate Economics: State-of-the-art*. Routledge, 2013.
2. W. Nordhaus: *Questioned Balance*. Yale University Press, 2008.
3. D.Acemoglu,P.Aghion, Leonardo Bursztyn, DHemous, 2012.*"Theenvironment and directedtechnicalchange,"* AmericanEconomic Review,102(1):131-166.
4. Nicholas Stern, 2007. *The Economics of Climate Change*, Cambridge University Press.
5. Niggol Seo, 2021. *Climate Change and Economics*, Palgrave Macmillian Publisher.

Web Resources

1. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=_8&ved=2ahUKEwjc
2. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjc-
3. http://mudancasclimaticas.cptec.inpe.br/~rmclima/pdfs/destaques/sternreview_report_complete.pdf
4. https://ocw.mit.edu/courses/15-023j-global-climate-change-economics-science-and-policy-spring-2008/pages/lecture-
5. https://news.climate.columbia.edu/2019/06/20/climate-change-economy-impacts/

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	3	3	3	2	3	2	3	2
CO2	3	3	3	3	3	2	3	1	3	3	2	2
CO3	3	3	3	3	3	3	3	3	3	1	3	3
CO4	3	3	3	3	3	2	2	2	3	2	1	2
CO5	3	3	3	3	3	3	3	3	3	3	3	3
Total	15	14	14	15	15	13	14	11	15	11	12	12
Average	3	2.8	2.8	3	3	2.6	2.8	2.2	3	2.2	2.4	2.4

3-Strong;2-Medium;1 – Low

ELECTIVECOURSEIV: C) POPULATION STUDIES

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232EC6	3	1	-	-	3	4	60	25	75	100

Pre–requisite:

Students should understand the demographical concepts and population theories.

Learning Objectives:

1. To apply demographic concepts and population theories to explain past and present population characteristics.
2. To evaluate the use of demographic concepts and population theories.

Course Outcomes

On the successful completion of the course, student will be able to :		
1	understand the basic concepts of population studies.	K1 & K2
2	remember the population growth and distribution.	K2 & K3
3	analyze the various population structure.	K3 & K4
4	examine the various population dynamics.	K4 & K5
5	evaluate the various population policy.	K1 & K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate

Unit	Contents	No. of Hours
I	**Introduction Population Studies** Nature and scope, Concepts and Definitions, Population Studies and Demography, Development of population Studies in World and India, Inter relationship between population studies and other disciplines. Sources of Population Data: Population Census-History of Census Taking in India, Vital Statistics Registration Systems.	12
II	**Population Growth and Distribution Population Growth** India's Population Growth-Trends and differentials in state and union territories, Factors Responsible for Rapid Population increase in India, Current Population situation and Future Prospects.	12
III	**Population Structure and Characteristics Sex and Age Structure** Sex and Age Structure of various countries, Population PYRAMID, Factors affecting Age and Sex Structure of population, Aging Population.	12
IV	**Population Dynamics Fertility** Terms and Concepts, Factors affecting Fertility: Physiological factors, Social and Cultural factors, Proximate determinants of Fertility, Sources Fertility data, Basic measures of Fertility. Mortality: Importance of the study, Global HIV/AIDS Epidemic. Migration: of the study, Concepts and Definitions, Internal and International migration, Sources of Migration data.	12
V	**Population Policy Concepts** Types of population Policies, Family Planning Programme under various Five Year Plan Periods, Approaches to Family Planning	12

	Programme, Reproductive and Child Health Approach, National Population Policy 2000.	
SelfStudy	Reproductive and Child Health Approach	

Text Books:
1. Shrivastava O.S, 2007. Demography and Population Studies, Quality Publishing Company (ajay)
2. Jain R.K, 2014. Textbook of Population Studies, Astha Publishers and Distributors

References:
1. BhendeAsha, A and Tara Kanitkar, 2012. *Principles of Population studies*, Mumbai Himalaya Publishing House.
2. Bogue, Donald J 2006. *Principles of Demography*, New York: John Wiley and Sons.
3. BaskarD.Misra, 2002. *An introduction to the Study of Population*, Madras: South Asian Publishers Pvt.Ltd.
4. Asha A. Bhende & Tara Kanitkar, 2019. *Principles of Population studies*, Himalaya Publishing House.
5. Jhingan M.L., B.K. Bhartt & J.N. Desai, 2016. *Demography*, Virinda Publications.

Web Resources:
1. https://censusindia.gov.in/census.website/
2. https://www.taylorfrancis.com/series/international-population-studies/ashser1353
3. https://data.worldbank.org/indicator/SP.POP.GROW
4. https://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture_notes/health_science_students
5. https://openstax.org/books/introduction-sociology-3e/pages/20-1-demography-and-population

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	3	3	3	2	2	2	3	3
CO2	3	3	2	3	3	3	3	2	3	3	2	2
CO3	3	3	3	3	3	3	2	3	3	1	3	3
CO4	3	3	3	3	3	2	2	2	3	2	2	3
CO5	3	3	3	3	3	3	3	3	1	3	3	3
Total	15	15	13	14	15	14	13	12	12	11	13	14
Average	3	3	2.6	2.8	3	2.8	2.6	2.4	2.4	2.2	2.6	2.8

3-Strong;2-Medium;1 – Low

SKILL ENHANCEMENT COURSE: SOCIALETHICSANDRESPONSIBILITIES – WOMEN EMPOWERMENT, DISABILITY, SOCIAL INCLUSION

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
FP232SE1	**2**	**2**	**-**	**-**	**2**	**4**	**60**	**25**	**75**	**100**

Pre–requisite:

Students should empower with social ethics.

Learning Objectives:

1. To understand the importance of Ethical Values
2. To equip the students with social responsibilities

Course Outcomes

On the successful completion of the course, student will be able to :		
1	remember the importance of Ethics and outlining the various Types of Ethical Issues in an organization	K1&K2
2	understand the ethical issues in the workplace	K2&K3
3	evaluate the need for Corporate Social Responsibility	K3&K4
4	design Policies for Social inclusion	K4&K5
5	analyze the various schemes for disabled	K5

K1-Remember; **K2 –**Understand; **K3 –**Apply; **K4–** Analyze; **K5-**Evaluate

Unit	Contents	No. ofHours
I	**Introduction** Social Ethics – Definition - -Ethical Model: Golden Rule Model and Kantian Model-Ethical Decision-making, Corporate Governance-Types of Ethical Issues - Theft - Bribery and Corruption - Exploitation of Employees – Discipline - Whistle Blowing.	12
II	**Workplace and Professional Ethics** Ethical Issues in Workplace- Types - Accountability - Employee Favoritism -Bad Leadership Behavior- Gender Ethics- Sexual Harassment and Discrimination.	12
III	**Social Responsibility of Business** Social Responsibility of Business – Shareholders-Employees - Customers-Community and Government - Corporate Social Responsibility Initiatives .	12

IV	**Social Inclusion** Meaning of Social Inclusion and Exclusion – Dimensions of Social Inclusion- Gender Inclusion and Equality	12
V	**Opportunities for Disabled** Mainstreaming Disability- Provision of Employment Opportunities for disabled – Indian Government Schemes – Ministry of Social Justices and Empowerment	12
Self Study	Ethical issues in workplace	

Text Books

1. Jenny Teichman, 2001. Social Ethics Student's Guide Wiley Blackwell
2. JohnS. Feinberg and PaulD .Feinburg, 2010.Ethics fora Brave NewWorld, Crossway.

Reference Books

1. Denis Collins and Patricia Kanashiro, 2017.   *Business Ethics :Best Practices for Designing and Managing Ethical Organizations SAGE Publications* ,Inc; Third edition
2. WilliamH. Shaw, 2016. *Business Ethics :A text book with Cases Cengage Learning,* William Publication.
3. GovindarajanM.,SenthilkumarM.S.Natarajan,2013. *Professional Ethics and Human Values* ,PHI publication.
4. Daniel E. Wueste, 1994. *Professional Ethics and social Responsibility*, Rowman & Littlefield publication.
5. S.S. Khanka, 2014. *Business Ethics and Corporate Social Responsibility*, S. Chand Publisher.

Web Resources

1. https://pachamama.org/social-justice/social-responsibility-and-ethics
2. http://www.fimt-ggsipu.org/study/bbabi310.pdf
3. https://www.socialworkers.org/About/Ethics/Ethics-Education-and-Resources
4. https://www.ksi-indonesia.org/assets/uploads/original/2022/03/ksi-1646708612.pdf
5. https://www.physio-pedia.com/Introduction_to_Gender_Equality_and_Social_Inclusion_(GESI)

MAPPINGWITHPROGRAMMEOUTCOMESANDPROGRAMMESPECIFICOUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	3	3	3	3	3	3	3	2	3
CO2	2	3	3	3	2	3	3	2	3	3	2	3
CO3	3	3	2	3	3	3	3	1	2	3	2	3
CO4	2	3	3	3	2	3	3	2	3	3	3	3
CO5	2	2	2	2	2	2	2	3	3	3	3	3
Total	12	14	12	14	12	14	14	11	14	15	12	15
Average	2.4	2.8	2.4	2.8	2.4	2.8	2.8	2.2	2.8	3	2.4	3

3-Strong;2-Medium;1– Low

Employability

Entrepreneurship

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