



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

SCHOOL OF HUMANITIES

Bachelor of Arts (Honours) Economics

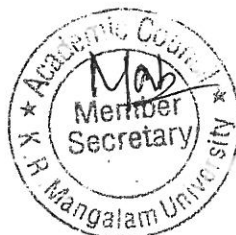
B.A. (H) Economics

Programme Code- 19

(Undergraduate Programme)

2021-24

**Approved in the 26th Meeting of Academic Council Held
on 11 August 2021**





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**Approved in the 29th Meeting of Academic Council Held
on 11 August 2022**

PREFACE

K.R. Mangalam University envisions all its programs in the best interest of their students and in this endeavor, it offers a new vision to all its courses. It imbibes an outcome-based curriculum for all its programmes to provide a focused, student-centric syllabus with an agenda to structure the teaching-learning experiences in a more outcome-based perspective. This outcome-based curriculum strengthens students' experiences and prepares the students for academia and employability, sustainability, and life-long learning.

Each programme reflects the promise to accomplish the learning outcomes by studying the courses. The graduate attributes encompass values related to well-being, emotional stability, critical thinking, social justice, and entrepreneurship skills.

The courses offered by the School of Humanities aim at imparting and generating knowledge on emerging issues and problems of contemporary society, economy, literature, history, psychology and Chinese studies. The course structure is flexible and is interdisciplinary. At the end of the course, a student would be equipped with analytical skills, theoretical knowledge, and would be prepared for practical application of those skills.

K.R. Mangalam University hopes the outcome-based curriculum will help students with critical thinking, problem solving, creativity, and collaboration skills along with professional knowledge.

Prepared by : Ms. Richa Aggarwal

Ms. Manisha Nayyar

Verified by : Dr Kanu Priya

ACKNOWLEDGEMENT

The development of an Outcome-Based Education (OBE) Model Curriculum for Undergraduate degree courses in Economics is a result of thorough deliberations by a team of subject experts. The curriculum is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. It formulates content around activities that leads to specific outcomes

I wish to acknowledge all our experts who have been involved in the process of developing this outcome-based curriculum for B.A(H) Economics.

I acknowledge the guidance and support provided by Prof. P. Prakash, Vice Chancellor, K.R. Mangalam University and Prof. Pushplata Tripathi, Pro-Vice Chancellor and Registrar, K.R. Mangalam University throughout the process of developing this curriculum.

Last, but not the least, I extend my gratitude to my team, Ms. Richa Agarwal and Ms. Manisha Nayyar for their research, effort and expertise throughout the development of the curriculum.

Dr Kanu Priya

School Coordinator

School of Humanities

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1. Introduction

The K.R. Mangalam Group has made a name for itself in the field of education. Over a period, the various educational entities of the group have converged into a fully functional corporate academy. Resources at KRMU have been continuously upgraded to optimize opportunities for the students. Our students are groomed in a truly inter-disciplinary environment wherein they develop integrative skills through interaction with students from engineering, management, journalism and media study streams.

The K.R. Mangalam University story goes back to the chain of schools that offered an alternative option to world-class education, pitching itself against the established elite schools, which had enjoyed a position of monopoly till then. Having blazed a new trail in school education, the focus of the group was aimed at higher education. With the mushrooming of institutions of Higher Education in the National Capital Region, the university considered it very important that students take informed decisions and pursue career objectives in an institution, where the concept of education has evolved as a natural process.

K.R. Mangalam University was founded in the year 2013 by Mangalam Edu Gate, a company incorporated under Section 25 of the Companies Act, 1956.

K. R. Mangalam University is unique because of its

- i. Enduring legacy of providing education to high achievers who demonstrate leadership in diverse fields.
- ii. Protective and nurturing environment for teaching, research, creativity, scholarship, social and economic justice.

Objectives

- i. To impart Undergraduate, Postgraduate and Doctoral education in identified areas of higher education.
- ii. To undertake research programmes with industrial interface.
- iii. To integrate its growth with the global needs and expectations of the major stakeholders through teaching, research, exchange & collaborative programmes with foreign, Indian Universities/Institutions and MNCs.
- iv. To act as a nodal center for transfer of technology to the industry.
- v. To provide job oriented professional education to the special student community with particular focus on Haryana.

2. School of Humanities

The School of Humanities at KRMU comprises programmes such as English, Economics, Psychology, Chinese, B.A. Programme etc. offering diverse Undergraduate, Post graduate & Doctoral Programs.

2.1 Vision

Our vision is to equip the students with critical thinking, problem solving, creativity, and collaboration skills along with professional knowledge.

2.2 Mission

To achieve its vision, SOHS intends to focus on the following mission objectives:

1. To promote cross-curricular innovation with a focus on developing a strong knowledge and skills base
2. To contribute significantly towards the larger institutional mission of instilling lifelong learning
3. To promote humanitarian goals of global peace, sensitivity, and cooperation through inclusive and dynamic curriculum
4. To promote analytical and critical research skills, scientific enquiry and creative thinking among the students
5. To provide opportunities to acquire language proficiency and socio-cultural-philosophical awareness.
6. To promote awareness on socio-economic issues at regional, national, and global levels through cooperative learning reinforced by classroom teaching, experiential learning, and research.

3. Programmes offered by the School

School offers Undergraduate B.A. and B.A (Hons) Programmes, Postgraduate, Programmes, and Doctoral Programmes.

3.1 Programme of Economics

The School of Humanities aims to instill core and foundational values of constructive education. The programs of Economics have ten primary learning outcomes which are achieved through a strong curriculum, innovative pedagogy, and hands-on learning experiences.

Graduate Attributes

- Teamwork and communication skills.
- Creative and critical thinking, and problem solving.
- Inter-cultural and ethical competency.

- Deep discipline knowledge and intellectual breadth.

Programme Educational Objectives (PEO)

PEO1: To prepare future Economists and thought leaders who will be able to solve dynamic socio-economic problems by exercising inclusivity at local and global levels.

PEO2: To develop strong competencies in undergraduate-level students in broad fields of Economics and its applications in an Interactive environment.

PEO3: To prepare students with competency in the practical application of economic theories.

PEO4: To develop strong student skills in research, data analysis, and interpretation.

PEO5: To prepare the students to successfully compete for employment in Economics, industries, research methods, data analysis, policy making and entrepreneurship etc.

PEO6: To prepare socially responsible students who are a rational and enlightened citizen so that they can take the responsibility to spread the governments' initiatives/schemes to the rural areas for the upliftment of the poor or vulnerable section of society for inclusive growth.

Program Outcomes (PO)

PO1: To develop a comprehensive understanding of the theories and practical applications of their subject.

PO2: To acquire a sense of social responsibility and service to the greater good of humanity.

PO3: To Understand the issues of environmental contexts and sustainable development.

PO4: To provide the students opportunities in terms of employment and research.

PO5: To develop the ability for advanced critical thinking and the ability to formulate logical arguments.

PO6: To develop different value systems and moral dimensions taking decisions.

PO7: To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO8: To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.

PO9: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

PO10: To be able to use digital sources to aid and augment their scholastic pursuits.

Programme Specific Outcomes (PSO)

PSO1: To pinpoint and understand the past and present economic conditions of the country.

PSO2: To Identify major issues debates or approaches appropriate to the discipline.

PSO3: To be able to critically analyze and apply Economic theories concerning other disciplines.

PSO4: To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.

PSO5: To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.

PSO6: To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses

3.2 B.A. (H) Economics

This program is designed to provide students a well-rounded education in Economics and its applications in the day-to-day world. The course provides an opportunity to focus on applied and policy issues in Economics. The program also aims at enhancing critical thinking skills and pursuing courses that emphasize quantitative and theoretical aspects of Economics.

Eligibility Criteria: - The student should have passed the 10+2 examination conducted by the Central Board of Secondary Education or equivalent examination from a recognized Board with mathematics as one of the subjects and with an overall aggregate of 50% or more.

Course Outline: - The programme includes courses like Principles of Economics/Basics of Mathematics/Environmental Studies/Communication Skills/Indian Economy/Micro Economics/ Society, Culture and Social Change/ Money and Banking/Macro Economics/Public Economics/Economics of Agriculture/ /Basics of Financial Markets/Economics of Industry/Economics of Public Finance/ International Economics/Demography.

Career Options: - After completing the programme, students can explore the job opportunities in private corporate as well as in public sectors such as Finance and Budget Analyst, Banker, Market Analyst, Economist, Investment Manager, Data Analyst, Research Analyst, consulting jobs, Customs Department/Import/Export Companies/ Civil Services/ Agricultural Economics and Econometrics etc.

4. Duration: - 3 Years (6 Semesters)

The minimum period required for the B.A (H) Economics Programme offered by the University shall extend over a period of three Academic Years.

The maximum period for the completion of B.A. (H) Economics Programme offered by the University shall be five years.

5. Class Timings

The classes will be held from Monday to Friday from 09:10 am to 04:00 pm.

6. Syllabi

The syllabi of the B.A. (H) Economics offered by the School of Education are given in the following pages. For each course, the first line contains Course Code and Credits (C) of the course. This is followed by the course objectives, course outcome and the syllabus (Unit I to IV), Textbook and reference books.

PROGRAMME AT A GLANCE

SEMESTER	I	II	III	IV	V	VI	TOTAL
COURSES	4	4	6	5	4	4	27
CREDITS	22	21	31	28	24	24	150

Scheme of Studies as per Choice-Based Credit System and Learning Outcome-Based Curriculum Framework

SOHS		YEAR 2021-24 (SCHEME OF STUDIES) B.A(Hons)Economics												
Year	Odd Semester							Even Semester						
	SN	COURSE CODE	COURSE TITLE	L	T	P	C	SN	COURSE CODE	COURSE TITLE	L	T	P	C
First	1	SHES107A	INTRODUCTORY MICROECONOMICS (CORE 1)	5	1	0	6	1	SHES110A	INTRODUCTORY MACROECONOMICS (CORE 3)	5	1	0	6
	2	SHES109A	MATHEMATICAL METHODS FOR ECONOMICS I (CORE 2)	5	1	0	6	2	SHES112A	MATHEMATICAL METHODS FOR ECONOMICS II (CORE 4)	5	1	0	6
	3	SHES111A	PRINCIPLES OF ECONOMICS (GE 1)	5	1	0	6	3	SHES114A	SOCIETY CULTURE & SOCIAL CHANGE (GE 2)	5	1	0	6

	4	UCCS155A	COMMUNICATION SKILLS (AECC 1)	4	0	0	4		4	UCES125A	ENVIRONMENTAL STUDIES (AECC2)	3	0	0	3	
	TOTAL			19	3	0	22		TOTAL			18	3	0	21	
Seco nd	1	SHES209A	MICROECONOMICS- I (CORE 5)	5	1	0	6		1	SHES212A	MICROECONOMIC S- II (CORE 8)	5	1	0	6	
	2	SHES211A	MACRO ECONOMICS – I (CORE 6)	5	1	0	6		2	SHES214A	MACRO ECONOMICS – II (CORE 9)	5	1	0	6	
	3	SHES213A	STATISTICAL METHODS FOR ECONOMICS (CORE 7)	5	1	0	6		3	SHES216A	ECONOMETRICS (CORE 10)	5	1	0	6	
	4	SHES215A / SHES217A	INDIAN PUBLIC FINANCE / MONEY AND BANKING (FROM GROUP OF GE)	5	1	0	6		4	SHES218A / SHES220A	ECONOMICS OF AGRICULTURE/ DEMOGRAPHY (FROM GROUP OF GE)	5	1	0	6	
	5	SHES219A	RESEARCH METHODOLOGY- AN INTRODUCTION (SEC 1)	4	0	0	4		5	SHMC310 A	CHASING THE RAINBOW: THE ENTREPRENEURIAL STREAK (SEC 2)	4	0	0	4	
	6	UCDM301 A	Disaster Management (AEC 3)	3			3									
	TOTAL			27	4	0	31		TOTAL			24	4	0	28	
Thir d	1	SHES311A	INDIAN ECONOMY – I (CORE 11)	5	1	0	6		1	SHES312A	INDIAN ECONOMY – II (CORE 13)	5	1	0	6	

2	SHES313A	DEVELOPMENT ECONOMICS-I (CORE 12)	5	1	0	6	2	SHES314A	DEVELOPMENT ECONOMICS-II (CORE 14)	5	1	0	6
3	SHES315A	PUBLIC ECONOMICS (DSE FROM GROUP 1)	5	1	0	6	3	SHES316A	INTERNATIONAL ECONOMICS-II (DSE FROM GROUP 2)	5	1	0	6
4	SHES317A	INTERNATIONAL ECONOMICS-I (DSE FROM GROUP 1)	5	1	0	6	4	SHES318A	BASICS OF FINANCIAL MARKETS (DSE FROM GROUP 2)	5	1	0	6
TOTAL			20	4	0	24	TOTAL			20	4	0	24
										TOTAL HOURS: LECT [L]+PRAC [P]+TUT [T] (EXCLUDING NO L, T, S, P COURSES)			150
										TOTAL CREDITS [C]			150
Group I- Discipline Specific Courses (DSE)							Group II- Discipline Specific Courses (DSE)						
SHES319A		ECONOMIC HISTORY OF INDIA: 1857– 1947					SHES318A		BASICS OF FINANCIAL MARKETS				
SHES321A		HISTORY OF ECONOMIC THOUGHT					SHES320A		ENVIRONMENTAL ECONOMICS				
SHES315A		PUBLIC ECONOMICS					SHES316A		INTERNATIONAL ECONOMICS-II				
SHES317A		INTERNATIONAL ECONOMICS-I					SHES322A		DISSERTATION				

SHES107A	Introductory Micro Economics	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	--				
Co-requisites	--				

Course Objectives

- To expose the students to the basic principles of microeconomic theory.
- Emphasis will be on thinking like an economist.
- Illustrate how microeconomic concepts can be applied to analyze real-life situations.
- To give students a thorough understanding of theories of microeconomics in application to individual decision maker

Course Outcomes

On completion of this course, the students will be able to:

CO1: Explain what economics is and its importance and fundamentals.

CO2: Explain how economist use micro economic models.

CO3: Describe and differentiate between different microeconomic theories.

CO4: Explain and graphically illustrate market equilibrium in different markets.

CO5: Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity and marginal utility.

CO6: Identify and appraise various models of how markets are organized, and the price and output decisions for maximizing profit.

Catalog Description

The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand, and characteristics of perfect and imperfect markets.

Course Content

Unit I: 10 lecture hours

Introduction: What is microeconomics? Scope and method of economics; the economic problem: scarcity and choice; the concept of opportunity cost; the question of what to produce, how to produce and how to distribute output; science of economics; institutions for allocating resources; the basic competitive model; prices, property rights and profits; incentives and information; rationing; positive versus normative analysis.

Unit II: 15 lecture hours

Supply and demand: How markets work, markets and welfare Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets

Unit III: 15 lecture hours

The Households: The consumption decision - budget constraint, consumption and income/price changes, demand for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves; consumer's optimum choice; income and substitution effects; labour supply and savings decision; choice between leisure and consumption

Unit IV: 10 lecture hours

The firm and perfect market structure: Behavior of profit maximizing firms and the production process; short-run costs and output decisions; costs and output in the long-run.

SUGGESTED READINGS:

- Mankiw, N. Gregory.:Principles of Economics, Cengage learning.
- Chopra, P.N.:Principles of Economics, Kalyani Publishers.
- Lipsey, R.G. & Chrystal, K.E.: Principles of Economics, Oxford University Press.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination**Examination Scheme:**

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain what economics is and its importance and fundamentals.	PO1, PO8, PSO2
CO2	Explain how economist use micro economic models	PO1, PO5
CO3	Describe and differentiate between different microeconomic theory	PO9, PO1, PSO4
CO4	Explain and graphically illustrate market equilibrium in different markets	PO10, PSO3
CO5	Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity and marginal utility.	PO4, PO5, PO9, PSO3, PSO5, PSO6
CO6	Identify and appraise various models of how markets are organized, and the price and output decisions for maximizing profit.	PO4,PO5,PO9, PSO3,PSO5,PSO6

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES107A	Introductory Microeconomics	3			2	3				3	3		3	3	2	2	2

To develop a comprehensive understanding of the theories and practical applications of their subject.

To acquire a sense of social responsibility and service to the greater good of humanity.

To Understand the issues of environmental contexts and sustainable development.

To provide the students opportunities in terms of employment and research.

To develop the ability for advanced critical thinking and the ability to formulate logical arguments.

To develop different value systems and moral dimensions taking decisions.,

To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.

Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

To be able to use digital sources to aid and augment their scholastic pursuits.

To pinpoint and understand the past, present economic conditions of the country.

To Identify major issues debates, or approaches appropriate to the discipline.

To be able to critically analyze and apply Economic theories concerning other disciplines.

To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.

To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the

To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			3	2	2		2	3		2			2	2	3	
CO2	2				2									3	3	3	
CO3	3								2							2	
CO4	3			2					2				2		2		
CO5	3			3	2				3				2		3	3	
CO6	3			3	2			2	3				2	2	3	3	
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

UCCS155A	Communication Skills	L	T	P	C
Version 1.0		3	1	0	4
Pre-requisites/Exposure	-				
Co-requisites	-				

Course Objectives

1. Identify key elements and principles of communication.
2. Demonstrate understanding of the communication process
3. Describe individual communication strengths and growth areas
4. Demonstrate ability to prepare and present a short oral presentation
5. Appreciate the role of body language and voice tone in effective communication
6. Communicate their message in an effective and engaging way for the recipient

Course Outcomes

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

CO1. Understand the basics of Grammar to improve written and oral communication skills.

CO2. Understand the correct form of English with proficiency.

CO3. Improve student's personality and enhance their self-confidence.

CO4. Improve professional communication.

CO5. Enhance academic writing skills.

Catalog Description

This learning program with its practice-based learning tasks will facilitate the learners to enhance their communication skills in a modern and globalized context, enhance their linguistic and communicative competence and hone their interpersonal skills.

Course Content

Course Syllabus:

UNIT I 6 lecture hours

Introduction to Communication: Importance of Communication Skills, Meaning, Forms & Types of Communication; Process of Communication; Principles of Effective Communication/7Cs, Barriers in Communication (Interpersonal, Intrapersonal and Organizational).

UNIT II 6 lecture hours

Academic Writing: Précis (Summary – Abstract – Synopsis – Paraphrase – Précis: Methods), Letter & Résumé (Letter Structure & Elements – Types of letter: Application & Cover - Acknowledgement – Recommendation – Appreciation – Acceptance – Apology – Complaint – Inquiry). Writing a proposal and synopsis. Structure of a research paper. Citations and plagiarism.

UNIT III 6 lecture hours

Technology-Enabled Communication: Using technology in communication tasks, E-mails, tools for constructing messages, Computer tools for gathering and collecting information; Different virtual medium of communication.

UNIT IV 6 lecture hours

Building Vocabulary: Word Formation (by adding suffixes and prefixes); Common Errors; Words Often Confused; One word substitution, Homonyms and Homophones; Antonyms & Synonyms, Phrasal Verbs, Idioms & Proverbs (25 each); Commonly used foreign words(15 in number);

UNIT V 6 lecture hours

Personality Development: Etiquettes & Manners; Attitude, Self-esteem & Self-reliance; Public Speaking; Work habits (punctuality, prioritizing work, bringing solution to problems), Body Language: Posture, Gesture, Eye Contact, Facial Expressions; Presentation Skills/ Techniques.

Suggested Reading

Kumar, Sanjay and Pushplata. *Communication Skills*. Oxford University Press, 2015.

Reference Books/Materials

1. Mitra, Barun K. *Personality Development and Soft Skills*. Oxford University Press, 2012.

2. Tickoo, M.L., A. E.Subramanian and P.R.Subramaniam.*Intermediate Grammar, Usage and Composition*. Orient Blackswan, 1976.
3. Bhaskar, W.W.S., AND Prabhu, NS., “ English Through Reading”, Publisher: MacMillan,1978
4. Business Correspondence and Report Writing” -Sharma, R.C. and Mohan K. Publisher: Tata McGraw Hill1994
5. Communications in Tourism & Hospitality- Lynn Van Der Wagen, Publisher: HospitalityPress
6. Business Communication-K.K.Sinha
7. Essentials of Business Communication By Marey Ellen Guffey, Publisher: ThompsonPress
8. How to win Friends and Influence People By Dale Carnegie, Publisher: Pocket Books
9. Basic Business Communication By Lesikar&Flatley, Publisher Tata McGraw Hills
10. Body Language By Allan Pease, Publisher SheldonPress

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand the basics of Grammar to improve written and oral communication skills.	PO1,PSO2,PSO 6
CO2	Understand the correct form of English with proficiency.	PO1, PO2,
CO3	Improve student’s personality and enhance their self-confidence.	PO1
CO4	Improve professional communication.	PO1, PSO6
CO5	Enhance academic writing skills	PO1, PO4,PSO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
UCCS155A	Communication Skills	3	2		2								3				2
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped
2= moderately mapped
3=strongly mapped

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2							3				2
CO2	3	2							2				3
CO3	3												2
CO4	3			2	2				2	2			
CO5	3	2		2	3				3	2			3

SHES109A	MATHEMATICAL METHODS FOR ECONOMICS I	L	T	P	C
Version 1.0		5	1	-	6
Pre-requisites/Exposure					
Co-requisites					

Course Objectives:

The objective of this course is to

1. Transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level
2. Provide necessary mathematical background for microeconomic theory, macroeconomic theory, and econometrics

Course Outcomes:

After completing the course students would be able to

- CO1. Understand the importance of number system and its properties.
- CO2. Apply function of one variable and its various characteristics.
- CO3. Implement optimization techniques used for maximizing profit and minimizing cost.
- CO4. Use algebraic and geometric properties of vector spaces.
- CO5. Apply mathematical techniques to economic theory in general.
- CO6. Use mathematics for research purposes.

Catalog Description

The course upgrades the mathematical skills acquired in school. This course provides mathematical foundations necessary for further study of a variety of disciplines including economics, statistics, and finance and data analytics. The analytical tools introduced in this course have applications wherever optimization techniques are used in business decision-making. These tools are necessary for anyone seeking employment as an analyst in the

corporate world. The course additionally makes the student more logical in making or refuting arguments.

Course Content

Unit I: 10 lecture hours

Preliminaries: Logic and proof techniques; sets and set operations; relations; functions and their properties; number systems

Unit II: 15 lecture hours

Functions of one real variable Graphs; elementary types of functions: quadratic, polynomial, power, exponential, logarithmic; sequences and series: convergence, algebraic properties and applications;

Continuous functions: characterisations, properties with respect to various operations and applications; Differentiable functions: characterisations, properties with respect to various operations and applications; Second and higher order derivatives: properties and applications

Unit III: 10 lecture hours

Single-variable optimization Geometric properties of functions: convex functions, their characterizations and applications; local and global optima: geometric and calculus-based characterizations, and applications

Unit IV: 15 lecture hours

Linear algebra Vector spaces: algebraic and geometric properties, scalar products, norms, orthogonality; linear transformations: properties, matrix representations and elementary operations; systems of linear equations: properties of their solution sets; determinants: characterization, properties and applications

SUGGESTED READINGS:

1. Sydsaeter, K., Hammond, P. (2002). Mathematics for economic analysis. Pearson Education.
2. Chiang, A. C. (1986) Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Yamane, Taro (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand the importance of number system and its properties	PO1,PSO2
CO2	Apply function of one variable and its various characteristics	PO1,PO4,PO5,PSO2,
CO3	Implement optimization techniques used for maximizing profit and minimizing cost	PO9,PO10, PSO2,PSO4,PSO5,PSO6
CO4	Use algebraic and geometric properties of vector spaces	PO1,PO4,PO5,
CO5	Apply mathematical techniques to economic theory in general	PO1
CO6	Use mathematics for research purposes.	PO4

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES109A	Mathematical Methods for Economics-I	3			2	2				3	3		3			2	2

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping																	
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	
CO 1	3			3	2					2	2		3	3			3
CO 2	3			3										3			2
CO 3	3			3													
CO 4	3			3						2			3				2
CO 5	3			2									2			2	
CO 6	3			3	2								3			2	
	1=lightly mapped mapped			2= moderately mapped						3=strongly							

SHES111A	Principles of Economics	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	—				
Co-requisites	--				

Course Objectives

- To learn the several parameters of development of the nation.
- To expose the students to basic microeconomic theory.
- To expose the students to basic macroeconomic theory.
- To relate the basic theories to real life concepts.

Course Outcomes

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

CO1: Explain the basics of economics.

CO2: Explain basic theories of microeconomics and macroeconomics.

CO3: Understand the relationship between theories and concepts in economics to current economic theories.

CO4: Understand the demand and supply variables at micro and macro level.

CO5: Demonstrate an understanding, usage and application of basic economic principles.

CO6: Understand positive and normative statements.

Catalog Description

The course introduces the students to the basic concepts of economics. The course is divided into microeconomics and macroeconomics. The students learn some basic principles of interactions of supply and demand, and characteristics of perfect and imperfect markets, national income and money supply.

Course Content

UNIT I 10 lecture hours

Exploring the subject matter of economics: why study economics? Scope and Method of Economics; the Economic Problem: Scarcity and Choice. Reading and working with Graphs; Opportunity sets. Positive and Normative Economics; Microeconomics and Macroeconomics.

UNIT II 20 lecture hours

Markets and welfare: determinants of individual demand/supply; demand/supply schedule and demand supply curve; markets versus individual demand/supply; shift in the demand/supply curve, demand and supply together; how prices allocate resources. Elasticity and its applications; consumer and producer surplus. Controls on Prices.

UNIT III 20 lecture hours

Basic issues studied in macroeconomics; measurement of gross domestic product; income, expenditure and the circular flow; real versus nominal GDP; price indices; national income accounting for an open economy; balance of payments: current and capital accounts. Aggregate Demand, Aggregate supply, Effective Demand. Concept of Business cycle.

UNIT IV 10 lecture hours

Monetary Institutions: The nature of money; Demand for Money and supply of money, determination of money supply and money demand; credit creation and monetary Policy.

Text Books

Mankiw, N. Gregory.:Principles of Economics, Cengage learning.

Chopra, P.N.:Principles of Economics, Kalyani Publishers.

Lipsey, R.G. & Chrystal, K.E.: Principles of Economics, Oxford University Press.

Reference Books/Materials

Mankiw, N. Gregory.:Principles of Economics, Cengage learning.

Chopra, P.N.:Principles of Economics, Kalyani Publishers.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain the basics of economics.	PO1, PO8
CO2	Explain the basic theories of microeconomics and macroeconomics,	PO1, PO8,PSO4
CO3	Understand the relationship between theories and concept in economics to current economic theories.	PO5,PSO2
CO4	Understand the demand and supply variables at micro and macro level.	PO1,PO10,PSO3
CO5	Demonstrate an understanding, usage and application of basic economic principles.	PO4,PO5
CO6	Understand positive and normative statements.	PO1

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES111A	Principles of economics	3			2	3			3		2		2	3	2		
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

Programme and Course Mapping																
CO/ PO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3			3	2			2	2			3	3			3
CO2	3			3					2			3	3			2
CO3	3			3								2	2			
CO4	3			3	2				2				3			2
CO5	3			2									2		2	
CO6				3	2				3			2	3		2	3
	1=lightly mapped		2= moderately mapped				3=strongly mapped									

SEMESTER II

SHES110A	Introductory Macroeconomics	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	—				
Co-requisites	--				

Course Objectives:

The main objective of the course is to:

- Understand the forces determining macroeconomic variables
- Understand causes of business cycles
- Analyze how changes in policy are expected to impact the economy

Course Outcomes

On completion of this course, the students will be able to:

CO1. Understand the aggregate macroeconomic variables and determinants of macroeconomic conditions.

CO2. Integrate the role of fiscal and monetary policies in regulating economy.

CO3. Apply the principle of Macroeconomics in explaining the behavior of Macroeconomic variables at national as well as global level.

CO4. Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.

CO5. Understand the theory and causes of business cycles.

CO6. Understand various school of economic thought.

Catalog Description

This is the first module in a two-module sequence that introduces students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like GDP, savings, investment, money, inflation, and the balance of payments.

Course Content

UNIT I

10 lecture hours

Macro-Economic Policies

Introduction to macroeconomics and national income accounting :Basic issues studied in macroeconomics: Measurement of gross domestic product; income, expenditure and the

circular flow; real versus nominal GDP; price indices; national income accounting for an open economy; balance of payments: current and capital accounts

UNIT II **15 lecture hours**

Money: Functions of money; quantity theory of money; determination of money supply and demand; credit creation; tools of monetary policy

UNIT III **10 lecture hours**

Inflation Inflation and its social costs; hyperinflation

UNIT IV **15 lecture hours**

The closed economy in the short run Classical and Keynesian systems; simple Keynesian model of income determination; IS-LM model; fiscal and monetary multipliers

TEXT BOOKS:

Mankiw, N. Gregory: Principles of Economics, Cengage learning.

SUGGESTED READINGS:

- Ahuja, H.L., — Macro Economics Theory and Policy, S. Chand & Company Ltd.
- Jhingan M.L., — Macro Economic Theory, Vrinda Publications (P)Ltd.
- R T Froyen (2008), Macroeconomics, Theory and policies, Prentice Hall.
- Gardner Ackley (1978), Macroeconomics, Theory and Policy, Macmillan Library
- Shapiro, E. — Macroeconomics analysis. Harcourt Brace Jovanovich.
- Mankiw N. Gregory: (2007) — Principles of Economics, Thomson, Indian Reprint.
- Dwiwedi, D.N. — Macro Economics. Tata McGraw Hill, New Delhi.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand various school of economic thought.	PO1,PSO1

CO2	Integrate the role of fiscal and monetary policies in regulating economy.	PO1, PO2,PO9
CO3	Apply the principle of Macroeconomics in explaining the behavior of Macroeconomic variables at national as well as global level.	PO2,PO9,PSO4
CO4	Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.	PO2,PO7,PO9,PSO5
CO5	Understand the theory and causes of business cycles.	PO1,PO2,PSO2
CO6	Understand the aggregate macroeconomic variables and determinants of macroeconomic conditions	PO1

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES110A	Introductory macroeconomics	3	3					2		3		3	3		2	3	
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment. to improve the general attitudes and living conditions of the masses.

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			3	2			2	2			3	3			3	
CO2	3			3				2			2		3		2	2	
CO3	3		2	3				2				2			2	2	
CO4	3		2	3				3	3	2			3			2	
CO5	3		1	3				2					2		2		
CO6	3				2							3	3		2		
	1=lightly mapped			2= moderately mapped						3=strongly mapped							

SHES 112A	MATHEMATICAL METHODS FOR ECONOMICS II					L	T	P	C
Version 1.0						5	1	-	6
Pre-requisites/Exposure	--								
Co-requisites	--								

Course Objectives

This course focuses on the mathematical methods and models that are required to understand current economics and to investigate economic models. Topics may include Multivariate optimization, linear programming, and Integration, differential equations, and difference equations and applications in economic models.

Course Outcomes

CO1: To understand the mathematical concepts and methods used by professional economists.

CO2: To analyses economic models by using formal mathematical methods.

CO3: To Construct LP models for various type of problems and Solve LP models by using graphical method.

CO4: To understand the economic applications by using Differential equation and difference equation

CO5: Demonstrate knowledge and understanding of the underlying mathematical principles.

CO6: Use mathematics for research and innovation.

Catalog Description

The course is divided into four Units: This course aims to introduce mathematical methods required to analyse economic problems. It introduces various mathematical concepts along with its applications in economics. Topics include Functions of several real variables, Multivariate optimization, Linear programming, and Integration, differential equations, and difference equations.

Course Content

Unit I: 12 lecture hours

Functions of several real variables Geometric representations: graphs and level curves; differentiable functions: characterizations, properties with respect to various operations and applications; second order derivatives: properties and applications; the implicit function theorem, and application to comparative statics problems; homogeneous and homothetic functions: characterizations and applications

Unit II: 20 lecture hours

Multivariate optimization Convex sets; geometric properties of functions: convex functions, their characterizations, properties and applications; further geometric properties of functions. Quasi convex functions, their characterizations, properties and applications; unconstrained optimization: geometric characterizations, characterizations using calculus and applications; constrained optimization with equality constraints: geometric characterizations, Lagrange characterization using calculus and applications; properties of value function: envelope theorem and applications

Unit III: 15 lecture hours

Linear programming Introduction, graphical solution, matrix formulation, duality, economic interpretation

Unit IV: 10 lecture hours

Integration, differential equations, and difference equations Definite integrals, indefinite integrals and economic applications; first order difference equations, equilibrium and its stability; first order differential equations, phase diagrams and stability

SUGGESTED READINGS:

- Sydsaeter, K., Hammond, P. (2002). *Mathematics for economic analysis*. Pearson Educational.
- Chiang, A. C. (1986) *Fundamental Methods of Mathematical Economics*, McGrawHill, New York.
- Yamane, Taro (1975) *Mathematics for Economists*, Prentice Hall of India, NewDelhi.
- Monga, G. S. (1972) *Mathematics and Statistics for Economists*, Vikas Publishing House, New Delhi.
- Allen, R.G.D. (1974) *Mathematical Analysis for Economists*, Macmillan Press and ELBS. London.
- Yamane, Taro (1975) *Mathematics for Economists*, Prentice Hall of India, New Delhi.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	To understanding of the mathematical concepts and methods used by professional economists.	PO1,PO4,PO5,PO6,PO8, PSO2,PSO5,PSO6
CO2	To analyses economic models by using formal mathematical methods.	PO4,PO5,PO6,PO8, PSO2,PSO3,PSO5
CO3	To Construct LP models for various type of problems and Solve LP models by using graphical method.	PO1,PO4,PO9,PO10 PSO2,PSO3,PSO5,
CO4	To understand the economic applications by using Differential equation and difference equation	PO1,PO4,PO5,PO9,PO10, PSO2,PSO3,PSO5
CO5	Demonstrate knowledge and understanding of the underlying mathematical principles.	PO1, PO4,PO5
CO6	Use mathematics for research and innovation.	PO4,PO5,PSO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES112A	MATHEMATICAL METHODS FOR ECONOMICS II	2			3	3	3		2	3	2	3	2	3		3	2
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	

Programme and Course Mapping																
CO	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6
CO 1	3			3	2				2	2		3	3			3
CO 2	3			3									3			2
CO 3	3			3												
CO 4	3			3						2			3			2
CO 5	3			2									2		2	
CO 6	3			3	2								3		2	
	1=lightly mapped			2= moderately mapped						3=strongly mapped						

SHES114A	SOCIETY CULTURE & SOCIAL CHANGE					L	T	P	C
Version 1.0						5	1	0	6
Pre-requisites/Exposure	--								
Co-requisites	--								

Course Objectives:

The main objective of the course is to:

- The course will develop knowledge and understanding about social and cultural concepts
- This course will allow students to understand the development and basic functioning of the societies and different cultures.
- The course will make students understand the development of the structure and stratification in society
- The students will learn interaction of social, economic and political forces.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Demonstrate skills and other qualities associated with responsible citizenship at local, national, regional and global levels

CO2: Understand the development and functioning of the societies and different cultures

CO3: Demonstrate knowledge and understanding about social and cultural concepts

CO4: Understand the process of social change and interaction of societies and cultures.

CO5: Explain the effects of social political and economic forces on societies and cultures.

CO6: Explain social and economic integration.

Catalog Description

India is a changing society in a rapidly changing world. The nature and pace of change is both welcomed and resisted by different social groups. The benefits and disadvantages of social change are not evenly distributed because society is characterized by significant social differences and inequalities of class, gender, ethnicity and power. Changes and inequality affect all the institutions in which we live - education, health-care, the family, work, religion and government. This course introduces understanding of social change and inequality. It questions the specific social, cultural and historical conditions that shape social institutions and values to identify how things might be otherwise and how we might contribute to changing things for the better. After completion of this course students shall have sociological understanding of social change and inequality and develop knowledge and understanding about social and cultural concepts and their application in personal, social and cultural identity and interactions within societies and cultures.

Course Content

UNIT I 10 lecture hours

Society: Tribal, Rural , Urban Industrial and Post Industrial : Its Nature, Definition & Types.

UNIT II 20 lecture hours

Culture: Its Nature, Definition & Types: Material and Non-Material Culture; Socialization: Its Importance, Processes and Stages; Social Control: Its Types and Means.

UNIT III 20 lecture hours

Process of Social Change: Industrialization, Secularization, Modernization & Globalization: Its Nature & Impact on Society.

UNIT IV 10 lecture hours

Concepts & Basis of Social Stratification: Caste, Class, Power & Gender

SUGGESTED READINGS:

- Ahuja, Ram (1997): **Society in India: Concept, Theories and Recent Trends**, Jaipur: Rawat Publication.
- Beteille, Andre (1992): **Backward Classes in Contemporary India**, New Delhi: OUP.
- Dube, S.C.(1991): **Indian Society**, New Delhi : National Book Trust.
- Ghurye, G.S. (1968): **Social Tension**, Bombay: Popular Prakashan.

- Karve, Iravati (1961): **Hindu Society: An Interpretation**, Pune: Daccan College.
- Mandelbaum, D.G. (1970): **Society in India**, Bombay: Popular Prakashan.
- Sharma K.L.(ed.) (1994): **Caste and Class**, Jaipur, Rawat Publication.
- Srinivas, M.N.(1980): **India's : Social Structure**, New Delhi : Hindustan Publication.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Demonstrate skills and other qualities associated with responsible citizenship at local, national, regional and global levels	PO2,PO6,PO7,PSO 1
CO2	Understand the development and functioning of the societies and different cultures	PO2,PO6,PSO1
CO3	Demonstrate knowledge and understanding about social and cultural concepts	PO1,PO2,PO6
CO4	Understand the process of social change and interaction of societies and cultures.	PO1,PO2,PO5,PO6
CO5	Explain the effects of social political and economic forces on societies and cultures.	PO2,PO6,PO7,PSO 3
CO6	Explain social and economic integration.	PO1,PO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES114A	Society Culture and Social Change	3	3			2	3	2				2	2	2			
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

Programme and Course Mapping																	
CO	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	
CO 1	3	3	3	3	2		3		2			3	2	3			
CO 2	2	3	3	3	2		3		2			3	2	3		3	
CO 3	3			3								2		2			
CO 4	2	3	3	3	2		3		2			3	2	3		3	
CO 5	2	3					3	3				2	3		2		
CO 6	2	3					3	3				2	3		2		
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

UCES125A	Environmental Studies	L	T	P	C
Version 1.0		3		0	3
Pre-requisites/Exposure	Basics of Environment				
Co-requisites	--				

Course Objectives

1. To aware the students about the environment.
2. To learn the students concepts and methods from ecological and physical sciences and their application in environmental problem solving.
3. To think across and beyond existing disciplinary boundaries, mindful of the diverse forms of knowledge and experience that arise from human interactions with the world around them.
4. communicate clearly and competently matters of environmental concern and understanding to a variety of audiences in appropriate forms.

Course Outcomes

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

CO1. To comprehend and become responsive regarding environmental issues.

- CO2. Acquire the techniques to protect our mother earth, as without a clean, healthy, aesthetically beautiful, safe and secure environment no specie can survive and sustain.
- CO3. Enable the students to discuss their concern at national and international level with respect to formulate protection acts and sustainable developments policies.
- CO4. To know that the rapid industrialization, crazy consumerism and over-exploitation of natural resources have resulted in degradation of earth at all levels.
- CO5. Become consciousness about healthy and safe environment.

Catalog Description

This course imparts the basic concepts of environment which enable them to solve basic problems related to their surroundings. This course helps them to get an idea adverse effect of industrialization, population and degradation of natural resources on the environment. The course introduces the concepts of renewable and non-renewable resources.

Course Content

UNIT I **8 Lectures**

Environment and Natural Resources:

Multidisciplinary nature of environmental sciences; Scope and importance; Need for public awareness. Land resources; land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

UNIT II **16 Lectures**

Ecosystems and Biodiversity:

Ecosystem: Definition and Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:

- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots ; India as a mega-biodiversity nation; Endangered and endemic species of India; Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity; Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

UNIT III **15 Lectures**

Environmental Pollution and Environmental Policies: Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution Nuclear hazards and human health risks; Solid waste management: Control measures of urban and industrial waste; Pollution case studies.

Sustainability and sustainable development; Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture; Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

UNIT IV **11 Lectures**

Human Communities and the Environment and Field work: Human population growth: Impacts on environment, human health and welfare; Resettlement and rehabilitation of project affected persons; case studies; Disaster management: floods, earthquake, cyclones and landslides; Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan; Environmental ethics: Role of Indian and other religions and cultures in environmental

conservation; Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi). Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc. Visit to a local polluted site-Urban/Rural/Industrial/Agricultural. Study of common plants, insects, birds and basic principles of identification. Study of simple ecosystems-pond, river, Delhi Ridge, etc.

Text Books

1. Kaushik and Kaushik, Environmental Studies, New Age International Publishers (P) Ltd. New Delhi.

Reference Books/Materials

1. A.K. De, Environmental Chemistry, New Age International Publishers (P) Ltd. New Delhi.
2. S.E. Manahan, Environmental Chemistry, CRC Press.
3. S.S Dara and D.D. Mishra, Environmental Chemistry and Pollution Control, S.Chand & Company Ltd, New Delhi.
4. R. Gadi, S. Rattan, S. Mohapatra, Environmental Studies Kataria Publishers, New Delhi.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program

		Outcomes
CO1	The learners will be able to comprehend and become responsive regarding environmental issues.	PO2
CO2	Students will acquire the techniques to protect our mother earth, as without a clean, healthy, aesthetically beautiful, safe and secure environment no specie can survive and sustain.	PO2
CO3	It enables the students to discuss their concern at national and international level with respect to formulate protection acts and sustainable developments policies.	PO2,PSO5
CO4	Students come to know that the rapid industrialization, crazy consumerism and over-exploitation of natural resources have resulted in degradation of earth at all levels.	PO6,PSO2,PSO5
CO5	Students become consciousness about healthy and safe environment.	PO6

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
UCES125A	Environmental studies		3					2		3			3			3	
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1= Weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
C01		3	3				3					2	2			
C02		3	3				3					2	2			
C03		3	3			3	3					2	2			
C04	3	3	3									2	2			
C05	3	3			3	3					2	2				
	1=lightly mapped			2= moderately mapped				3=strongly mapped								

SEMESTER III

SHES219A	Research Methodology- Introduction	An	L	T	P	C
Version 1.0			4	0	0	4
Pre-requisites/Exposure						
Co-requisites	--					

Course Objectives:

The main objective of the course is to:

- To make students understand the meaning and purpose of a research work.
- To enable students to practice scientific approach
- To develop the attitude and skill of writing a research paper

Course Outcomes:

On completion of this course, the students will be able to:

CO1: Identify the basic components of a research framework i.e., problem definition, research design, data collection, ethical issues in research, report writing, and presentation.

CO2: Define foundational methods and techniques of academic research in Economics.

CO3: Analyze how to formulate research problem and frame it for the purpose of research.

CO4: Sensitize them to the issue of plagiarism and academic fraud.

Catalog Description

This course is designed to train the students in the foundational methods and techniques of academic research. The students will learn and understand basic components of a research framework i.e., problem definition, research design, data collection, ethical issues in research, report writing, and presentation. The learners will be able to understand how to formulate research problem and frame it for the purpose of research. This course will sensitize them to the issue of plagiarism and academic fraud. They will have a critical understanding of the research analysis: what it is, what it does, how it is used, when it is used and for what purpose, what methods it employs, how good they are and a host of other issues. This will help them to develop insight about the overall process of designing a research study from its inception to its report. This learning program aims to provide a full coverage of the area of research, attempting to integrate all popular methodologies and methods, in both theory and practice.

Course Content

UNIT I 10 lecture hours

Introduction:- Definition of the term 'Research'; Research analysis; Characteristics; Objectives, Research & Scientific Method; Criteria of a good research

UNIT II 10 lecture hours

Types of Research: Descriptive vs. Analytical Research; Applied vs. Fundamental Research; Quantitative vs. Qualitative Research; Conceptual vs. Empirical Research; Current trends in Research

UNIT III 10 lecture hours

Research analysis: Research problem; Research questions; Research methods & Research methodology; Formulation of hypothesis; Data collection

UNIT IV 10 lecture hours

Writing a Research Paper: Structure of a Research paper; Literature Review; Citation methods; Research Ethics

REFERENCE BOOKS :

1. Kothari C.K. (2004), 2/e, Research Methodology, - Methods and Techniques (New Age International, New Delhi)
2. Kumar K. L.' (1997), Educational Technology, New Age International (P) Ltd., New Delhi.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Identify the basic components of a research framework i.e., problem definition, research design, data collection, ethical issues in research, report writing, and presentation.	PO1,PO4,PO5
CO2	Define foundational methods and techniques of academic research in Economics.	PO1, PO9,PO10
CO3	Analyze how to formulate research problem and frame it for the purpose of research.	PO4,PO2,PO9,PO10
CO4	Sensitize them to the issue of plagiarism and academic fraud.	PO2,PO7,PO9,PO10

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES219A	Research Methodology- An Introduction	3	3		4	3		2		3	3	3	3	3	2	3	3

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			3	3					2			2			3	
CO2	3			3	3					2			2			3	
CO3	3			3	3			2		3			2			3	
CO4		2		3		3			3			2	3			3	
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES211A	MACRO ECONOMICS- I	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Principles of Economics				
Co-requisites	--				

Course Objective:

The main objective of the course is to:

- Understand the forces determining macroeconomic variables such as inflation, unemployment, interest rates, and the exchange rate
- To use basic economic principles to be able to predict how changes in policy are expected to impact the economy.

Course Outcomes

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

CO1: Explain the origin of macroeconomics and preliminary concepts associated with the discipline

CO2: Understand aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments

CO3: Examine various alternative theories of output and employment determination in a closed economy in the short run as well as long run,

CO4: Apply the analytical tools formal modeling of a macro-economy.

CO5: Apply the principle of Macroeconomics in explaining the behaviour of Macroeconomic variables at national as well as global level.

CO6: Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.

Catalog Description

Macroeconomics is an analysis of a country's economic structure and performance and the government's policies in affecting its economic conditions. This course discusses the origin of macro economics and preliminary concepts associated with the discipline. It studies the macro saticcs and macro dynamics in pursuit of classical , Keynesian and new classical

schools. The course involves understanding of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments. Macroeconomics is an analysis of a country's economic structure and performance and the government's policies in affecting its economic conditions. It tests various theories to see how the overall economy functions, and how the theory is used to forecast the effects of a particular policy and event that was carried out.

Course Content

UNIT-I – 10 lectures

The origin and development of Macro Economics Goals and Instruments of Macroeconomics. Supply and Demand in Macroeconomics, macro equilibrium; Macro-Statics & Macro-dynamics. Brief history and Schools of Macroeconomics – Keynesian, Classical, New Keynesian and New Classical.

UNIT-II -15 Lectures

National Income Components - Circular flow of income in two, three and four sector economy. The Classical System: Say's Law of Market, Classical theory of Employment saving and Investment theory wage and price flexibility criticisms of classical theory.

UNIT-III – 15 Lectures

Consumption Function: The Absolute Income Hypothesis, the Relative Income Hypothesis, the Permanent Income Hypothesis and other factors influencing consumption. Investment Multiplier, Accelerator, Accelerator Multiplier interaction, Savings-Investment Equilibrium.

UNIT-IV- 15 -20 Lectures

The Keynesian Model: The components of aggregate demand The derivation of aggregate demand and supply curves – the Keynesian aggregate demand with vertical aggregate supply curve – sources of wage rigidity and unemployment – the flexible price with fixed money wage model – labor supply and money wage – the shift in aggregate supply Keynes vs. Classics.

SUGGESTED READINGS:

- Ahuja,H.L.,— Macro Economics Theory and Policy, S. Chand & Company Ltd.
- Jhingam M.L., —Macro Economic Theory, Vrinda Publications (P)Ltd

- R T Froyen (2008), Macroeconomics, Theory and policies, Prentice Hall.
- Gardner Ackley (1978), Macroeconomics, Theory and Policy, Macmillan Library
- Shapiro, E. —Macroeconomics analysis.Harcourt Brace Jovanovich.
- Mankiw N. Gregory: (2007) —Principles of Economics, Thomson, Indian Reprint.
- Dwiwedi, D.N. —Macro Economics. Tata McGraw Hill, New Delhi.
- Lipsey R.G. and K.A. Christal (1999) —Principles of Economics 9th Ed., Oxford University

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain the origin of macro economics and preliminary concepts associated with the discipline	PO1
CO2	Understand aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments	PO1,PO5,PO9,PSO2
CO3	Examine various alternative theories of output and employment determination in a closed economy in the short run as well as long run,	PO1,PO5,PSO3,PSO4
CO4	Apply the analytical tools formal modeling of a macro-economy.	PO8,PO10,PSO5
CO5	Apply the principle of Macroeconomics in explaining the behaviour of Macroeconomic variables at national as well as global level.	PO5,PSO3
CO6	Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.	PO8,PSO3

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES211A	Macro economics-I	3				3			2	3	3		3	3	3	2	2

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6	
CO 1	3			3	3			3	2			3	3		2		
CO 2	3			3	3			3	2			3	3		2		
CO 3	3			3	3			3	2			3	3		2	2	
CO 4	3			3	3			2	3			3	2			3	
CO 5	3			3	3			3	2			3	3		2		
CO 6	3			3	2			3	3			3	3	2			
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES213A	Statistical Methods for Economics	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure					
Co-requisites	--				

Course Objective:

In the current scenario the managers are having large amount of information and data pool available with them. But to make adequate decisions relying upon these data sets is creating hurdles in their overall development as Business Managers. With regards to this the “Statistical Methods for Economics” course outline will help them in making quality decisions and thereby minimizing their risk factors. The course is designed to enable students to think and act rationally by using statistical applications and reasoning in their business world.

Course Outcomes (CO)

At the end of the course

CO1: Students will gain a solid understanding of fundamental statistical concepts such as probability, hypothesis testing, sampling, and estimation.

CO2: Students will learn how to collect, organize, and analyze economic data using appropriate statistical techniques. They will also be able to interpret the results and draw meaningful conclusions.

CO3: To facilitate an understanding of the main branches of basic statistical inference, and to develop the ability to use statistical techniques to analyze data and assess the accuracy of the resulting estimates and conclusions.

CO4: To provide essential knowledge on the concept of random sample from a distribution, sampling distribution of a statistic, standard error, Statistical Tests.

CO5: Students will become proficient in applying a range of statistical methods commonly used in economics, including regression analysis, time series analysis, and panel data analysis.

CO6: Students will develop the ability to critically evaluate economic research studies that employ statistical methods.

UNIT I

Overview of Statistics: Definition, important and limitations; Functions and scope of statistics; Types of data; Data collection techniques; Presentation of data- tabulation, charting and diagrammatic

UNIT II

Measures of Central Tendency and Variation: Central tendency- mean, median, mode, partition values; Variation – range, quartile deviation, average deviation, standard deviation, Lorenz curve; Skewness, moments and kurtosis

UNIT III

Correlation and Regression analysis: Significance of study of correlation; Correlation and causation; Types of correlations; Measurement of correlation (Karl Pearson's methods, Spearman's rank correlation); Difference between correlation and regression; Bivariate regression model & regression equations of Y on X; Index Numbers; Times series analysis.

UNIT IV

Sampling & Tests of Hypothesis: Sampling and Sampling Distributions; Procedure of hypothesis testing; Type I and Type II errors; One tailed and two tailed tests; Testing of hypothesis w.r.t. small and large samples, about population means, difference between means, attributes, population proportion and difference between two proportions; t-test, z-test and Chi-square test;

SUGGESTED READINGS:

- Business statistics By S.N. Arora S. Chand Publication
- Business Statistics for Contemporary Decision Making, by Ken Black, John Wiley & Sons (Asia) Pte. Ltd., Singapore.
- Statistics for Management- by Richard Levin & David S. Rubin, Pearson Education.
- Statistics for management – by Gerald Keller, Cengage Learning.
- Complete Business Statistics Amir D Aczel & Jayavel Sounderpandyan.
- Introductory Statistics by Weiss. Seventh edition, Pearson education.

- Business Statistics – by J. K Sharma, Pearson education.
- Statistics for Management - by T N Srivastava and Shailaja Rego, The McGraw-Hill companies.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Students will gain a solid understanding of fundamental statistical concepts such as probability, hypothesis testing, sampling, and estimation	PO1,PO5
CO2	Students will learn how to collect, organize, and analyze economic data using appropriate statistical techniques. They will also be able to interpret the results and draw meaningful conclusions.	PO1, PO8,PO10,PSO4
CO3	To facilitate an understanding of the main branches of basic statistical inference, and to develop the ability to use statistical techniques to analyze data and assess the accuracy of the resulting estimates and conclusions.	PO2,PO5,PO10
CO4	To provide essential knowledge on the concept of random sample from a distribution, sampling distribution of a statistic, standard error, Statistical Tests.	PO7,PO9
CO5	Students will become proficient in applying a range of statistical methods commonly used in economics, including regression analysis, time series analysis, and panel data analysis.	PO1,PO8,PO10,PSO5
CO6	Students will develop the ability to critically evaluate economic research studies that employ statistical methods.	PO4,PO5,PSO3

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES213A	Statistical Methods for Economics	3			3	3			2	3	3		3	3	3	3	3
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

Programme and Course Mapping																
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3			3	3			2	3	2			3			3
CO2	3			3	3			2	3	2			3			3
CO3	3			3	3			2	3	2			3			3
CO4	3			3	3			2	3	2			3			3
CO5	3			3	3			2	3	2			3			3
CO6	3			3	3			3	3	3			3	2		3
	1=Weakly mapped			2= moderately mapped				3=strongly mapped								

SHES217A	Money and Banking	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Introductory Microeconomics				
Co-requisites	--				

Course Objective:

The objective of this course is to:

- To learn and understand basic Economic concepts related to Money & Banking and Various approaches of Money.
- To use Economic theory to analyze topics related to money and banking
- To understand the functioning of Central bank and Commercial banks
- To understand various macro economic variables in context of financial sectors of economy.

Course Outcomes

Students who satisfactorily complete this course will have a thorough understanding of the role of money and banks in the broader economy and of the unique role of banks in the financial system. Students will also learn the relevance of the Federal Reserve and related central banking topics, including the causes of, policy responses, and lessons learned associated with recent financial crises. Finally, students will master the fundamentals of monetary theory and its relevance to policy making. Upon successful completion of the course, the student should be able to display an understanding of news relating to monetary policies reported in national and international publications and will also become familiarized with the structure and function of Commercial Bank

CO1: To have a thorough understanding of the role of money in economy and the unique role of banks in the financial system.

CO2: Explain the fundamentals of monetary theory and analyse its relevance to policy making.

CO3: Examine the relevance of the Federal Reserve

CO4: Understand structure and function of Commercial Bank

CO5: Examine policy responses, and lessons learned associated with recent financial crises

CO6: Display understanding of relevance of various news relating to monetary policies reported in national and international publications in overall social economic and political context.

Catalog Description

Money and banking is an introductory course on Indian money and banking. It begins with a discussion on the functions of money, types of money and interest rates and further discusses the money supply process in India with definitions of Indian monetary aggregates, money multipliers and sources of high powered money in India. The course extensively describes Indian money market instruments and follows with a description of an overview of the Indian banking system, with particular reference to the commercial and co-operative banks and the various functions of the Reserve Bank of India including its traditional and non-traditional monetary policy instruments

Course Content

UNIT-I 10 Lectures

Money: Meaning & Functions, Classification, Supply of Money- Approaches to Supply of Money. High Powered Money and Money Multiplier, Measurement of Supply of Money in India, Demand for Money- Conventional, Neo-Classical and Keynes' Approaches,

UNIT-II 15 Lectures

Value of Money- Cash Transaction Approach, Cash Balance Approach; Keynes' View on Value of Money, Theories of M. Friedman, Patinkin, Baumol and Tobin.

UNIT-III 15 lectures

Inflation-Definition & Types, Causes and Effects of Inflation; Demand-pull and Cost-push Inflation, Inflationary Gap and Double Inflationary Gap (Bent Hanson; Inflation and Unemployment-The Phillips Curve-Short run & Long run, Measures to Control Inflation.

UNIT -IV 10 lecture

Commercial Banking- Meaning and Functions, Process of Credit Creation, Recent Reforms in Banking Sector in India. Central Banking- Functions; Methods of Credit Control, Role and Functions of the Reserve Bank of India; Objectives & Limitations of Monetary Policy with Reference to India.

SUGGESTED READINGS:

- Suraj B.Gupta: Monetary Economics: Institutions, Theory & Policy, S.Chand & Company Ltd.
- T.N Haneja: Money Banking and Public Finance, Ane Books Pvt. Ltd, New Delhi.
- Jhingan M.L.:Macro Economic Theory, Vrinda Publications (P)Lt
- Ahuja,H.L.: Macro Economics Theory and Policy, S. Chand & Company Ltd.
- T.T. Sethi: Money Banking and International Trade, S.Chand & Company Ltd.
- E.Narayanan Nadar: Money and Banking, PH1 Learning Pvt Ltd. New Delhi.
- Jadhav Narendra: Monetary Policy, Financial Stability and Central Banking, Macmillan.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	To have a thorough understanding of the role of money in economy and the unique role of banks in the financial system.	PO5
CO2	Explain the fundamentals of monetary theory and analyze its relevance to policy making.	PO1
CO3	Examine the relevance of the Federal Reserve	PO2
CO4	Understand structure and function of Commercial Bank	PO1,PSO3
CO5	Examine policy responses, and lessons learned associated with recent financial crises	PO7,PSO2,PSO3
CO6	Display understanding of relevance of various news relating to monetary policies reported in national and international publications in overall social economic and political context	PO8,PO9

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES217A	Money Banking and	3	3					2	2	3			3	3			
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			2	3			3	3		2	2	2	3	2		
CO2	3			2	3		2	3	3		2	2	2	3	2	3	
CO3	3			2	3		2	3						3	3		
CO4	3				3		2	3						3	3		
CO5	3	2		2			3	3			3			3	3		
CO6	3	2		2			3	3			3			3	3	3	
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES209A	Micro Economics-1	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Introductory Microeconomics				
Co-requisites	--				

Course Objectives

- To expose the students to the principles of microeconomic theory.
- Illustrate how microeconomic concepts can be applied to analyze real-life situations.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Explain different forms of market imperfections and market failures observed in real life situations.

CO2: Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity and marginal utility.

CO3: Apply the theories of micro economics in application to individual decision maker.

CO4: Explain and illustrate perspective of individual decision making as consumers and producers.

CO5: Identify and appraise various models of how markets are organized, and the price and output decisions for maximizing profit.

CO6: Know how markets that fail to use resources efficiently create unintended effects

Catalog Description

The course trains the students of Economics about the basic elements of consumer theory and production theory and the functioning of perfectly competitive market. This course aims to give students a solid grasp of microeconomic analysis to understand efficiency of markets and the Environment.

Course Content

Unit I: 15 lecture hours

Consumer Behavior and Demand Analysis: Cardinal Utility Approach: Diminishing Marginal Utility, Law of Equi-Marginal Utility. Derivation of demand curves. Ordinal Utility Approach: Indifference Curves, Marginal Rate of Substitution, Budget Line and Consumer Equilibrium. Properties of Indifference Curve. Price, Income and Substitution Effects.

Unit II: 15 lecture hours

Concept of Cost and Revenue: Concept of Cost, Cost Function, Derivation of cost functions from production functions; derived demand for factors. Short Run Cost, Long Run Cost. Marginal revenue, Average revenue and total revenue.

Theory of Production: Meaning and Concept of Production, Factors of Production and production function. Fixed and Variable Factors. Law of Variable Proportion (Short Run Production Analysis), Law of Returns to a Scale (Long Run Production Analysis); Isoquants-Least cost combination of inputs; Expansion Path, Concepts of product line-Isocline and ridge line, Cobb-Douglas and CES Production Functions.

Unit III: 15 lecture hours

Theory of Product Pricing: Perfect Competition: Price-output Determination in the Short and Long Run; Equilibrium of the Firm under Perfect Competition. Monopoly-short run and long run equilibrium, price discrimination, Concept and Conditions; Typology – First, Second and Third Degree Price Discrimination.

Unit IV: 15 lecture hours

Monopolistic competition-general and Chamberlin approaches to equilibrium, equilibrium of the firm and the group with price variation, product differentiation and selling costs, excess capacity under monopolistic and imperfect competition, criticism of monopolistic competition.

SUGGESTED READINGS:

- Mankiw, N. Gregory.:Principles of Economics, Cengage learning.
- Dwivedi, D.N.; Managerial Economics, Vikas Publishing House.
- Chopra, P.N.:Principles of Economics, Kalyani Publishers.
- Lipsey, R.G. & Chrystal, K.E.: Principles of Economics, Oxford University Press.
- Mehta, P. L.; Managerial Economics, Sultan Chand & Sons.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain different forms of market imperfections and market failures observed in real life situations.	PO1,PO6,PSO2,PSO5
CO2	Describe and apply the methods for analyzing consumer behavior through demand and supply.	PO5,PO9,PSO3
CO3	Apply the theories of micro economics in application to individual decision maker.	PO3,PO5,PO8
CO4	Explain and illustrate perspective of individual decision making as consumers and producers.	PO4,PO5,PO9,PSO4
CO5	Identify and appraise various models of how markets are organized, and the price and output decisions for maximizing profit.	PO5,PSO6
CO6	Know how markets that fail to use resources efficiently create unintended effects	PO8

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES209A	Micro economics-I	3	3		2	3	3		3	3			3	3	2	2	2

To develop a comprehensive understanding of the theories and practical applications of their subject.

To acquire a sense of social responsibility and service to the greater good of humanity.

To Understand the issues of environmental contexts and sustainable development.

To provide the students opportunities in terms of employment and research.

To develop the ability for advanced critical thinking and the ability to formulate logical arguments.

To develop different value systems and moral dimensions taking decisions.,.

To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life

To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.

Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

To be able to use digital sources to aid and augment their scholastic pursuits.

To pinpoint and understand the past, present economic conditions of the country.

To Identify major issues debates, or approaches appropriate to the discipline.

To be able to critically analyze and apply Economic theories concerning other disciplines.

To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.

To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.

To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped

2= moderately mapped

3=strongly mapped

UCDM301A	Disaster Management	L	T	P	C
Version 1.0		3	0	0	3
Pre-requisites/Exposure	Basics of Disasters and control techniques				
Co-requisites	--				

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			3	2			3	3			3	3	2	2		
CO2	3			3	2			3	3			3	3	2	2	3	
CO3	3			3	2	2		3	3			3	3	2	2		
CO4	3			3	2	2		3	3			3	3	2	2		
CO5	3			3	3	2		3	3			3	3	2	2		
CO6	3			3	3	2		3	3			3	3	2	2		
	1=lightly mapped			2= moderately mapped				3=strongly mapped									

Course Objectives

1. To create awareness about various types of disasters.
2. To educate the students about basic disaster management strategies and problem solving.
3. To examine disaster profile of our country and illustrates the role of governmental and non- governmental organizations in its effective management.
4. To acquaints students with the existing legal frame work for disaster management and understanding the appropriate rules and regulations.

Course Outcomes

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

- CO1. To enable the students to know the difference between natural and man- made disaster

CO2. Acquire the knowledge related to disaster preparedness

CO3. To aware the student about recovery after disaster

CO4. To know the structure and functioning of disaster management framework of our country

Catalog Description

This course imparts the basic concepts of environment which enable them to solve basic problems related to their surroundings. This course helps them to get an idea adverse effect of industrialization, population and degradation of natural resources on the environment. The course introduces the concepts of renewable and non-renewable resources.

Course Content

UNIT I

Introduction to Disasters:

Concept and definitions- Disaster, Hazard, vulnerability, resilience, risks.

Different Types of Disaster: Causes, effects and practical examples for all disasters. Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc. Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures (Building and Bridge), War & Terrorism etc.

UNIT- II

Disaster Preparedness

Concept and Nature, Disaster Preparedness Plan, Prediction, Early Warnings and Safety Measures of Disaster, Role of Information, Education, Communication, and Training, Role of Government, International and NGO Bodies, Role of IT in Disaster Preparedness, Role of Engineers on Disaster Management, Relief and Recovery, Medical Health Response to Different Disasters

UNIT III

Rehabilitation, Reconstruction and Recovery

Reconstruction and Rehabilitation as a Means of Development, Damage Assessment, Post Disaster effects and Remedial Measures, Creation of Long-term Job Opportunities and Livelihood Options, Disaster Resistant House Construction, Sanitation and Hygiene, Education and Awareness, Dealing with Victims' Psychology, Long-term Counter Disaster Planning, Role of Educational Institute.

UNIT IV

Disaster Management in India

Disaster Management Act, 2005: Disaster management framework in India before and after Disaster Management Act, 2005, National Level Nodal Agencies, National Disaster Management Authority

Liability for Mass Disaster : Statutory liability, Contractual liability, Tortious liability, Criminal liability, Measure of damages

Epidemics Diseases Act, 1897: Main provisions, loopholes.

Text Books

1. Content building programme (CBP) book on Disaster Management, Forum AS.

Reference Books/Materials

1. Government of India, Department of Environment, Management of Hazardous Substances Control
2. Act and Structure and Functions of Authority Created Thereunder.
3. Indian Chemical Manufacturers' Association & Loss Prevention Society of India, Proceedings of the National Seminar on Safety in Road Transportation of Hazardous Materials: (1986).
4. Author Title Publication Dr. Mrinalini Pandey Disaster Management Wiley India Pvt. Ltd.
5. Tushar Bhattacharya Disaster Science and Management McGraw Hill Education (India) Pvt. Ltd.

6. Jagbir Singh Disaster Management: Future Challenges and Opportunities K W Publishers Pvt. Ltd.
7. J. P. Singhal Disaster Management Laxmi Publications.
8. Shailesh Shukla, Shamna Hussain Biodiversity, Environment and Disaster Management Unique Publications
9. C. K. Rajan, Navale Pandharinath Earth and Atmospheric Disaster Management: Nature and Manmade B S Publication
10. Indian law Institute (Upendra Baxi and Thomas Paul (ed.), Mass Disasters and Multinational Liability: The Bhopal Case (1986)
11. Indian Law Institute, Upendra Baxi (ed.), Environment Protection Act: An Agenda for Implementation (1987)
12. Asian Regional Exchange for Prof. Baxi., Nothing to Lose But our Lives: Empowerment to Oppose
13. Industrial Hazards in a Transnational world (1989)
14. Gurudip Singh, Environmental Law: International and National Perspectives (1995), Lawman (India) Pvt. Ltd.
15. Leela Krishnan, P, The Environmental Law in India, Chapters VIII, IX and X (1999), Butterworths, New Delhi.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Presentation/ Assignment/ etc.	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs					
	<table border="1"> <thead> <tr> <th>Course Outcomes (COs)</th> <th>Mapped Program Outcomes</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Course Outcomes (COs)	Mapped Program Outcomes		
Course Outcomes (COs)	Mapped Program Outcomes				

CO1	To enable the students to know the difference between natural and man- made disaster	PO7
CO2	Acquire the knowledge related to disaster preparedness	PSO2
CO3	To make the student aware about recovery after disaster	PSO2, PO2
CO4	To know the structure and functioning of disaster management framework of our country	PO1

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
UCDM301A	Disaster Management	3			2	3			3		2		2	3	2		
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions..	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3						2					
CO2	3			2		2				2		
CO3				2	2	2	2					
CO4	3	2			2							3
1=lightly mapped 2=moderately mapped 3=strongly mapped												

SEMESTER IV

SHES214A	MACRO ECONOMICS II	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	MACRO ECONOMICS I				
Co-requisites	--				

Course Objectives:

The main objective of the course is to:

- Understand the forces determining macroeconomic variables
- Understand causes of business cycles
- Analyze how changes in policy are expected to impact the economy

Course Outcomes

On completion of this course, the students will be able to:

CO1: Understand of aggregate macroeconomic variables and determinants of macroeconomic conditions.

CO2: Integrate the role of fiscal and monetary policies in regulating economy.

CO3: Apply the principle of Macroeconomics in explaining the behavior of Macroeconomic variables at national as well as global level.

CO4: Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.

CO5: Understand the theory and causes of business cycles.

CO6: Understand equilibrium in closed and open economy.

Catalog Description

This course is a sequel to Macroeconomics I. It is required to understand the integration of major economic phenomena at the national and international levels. It would cover the concepts like measuring the economic performance of the economy, determinants of economic performance, fiscal policy, monetary policy, trade policy, etc. The students will learn about business cycles and reasons behind market fluctuations.

Course Content

UNIT I

10 lecture hours

Macro-Economic Policies

Monetary and Fiscal Policy- Targets and instruments; The Great Depression; Lags in the effects of policies; Expectations and Reactions; Uncertainty and Economic Policy; Economic Policy - Rules vs. Discretion.

UNIT II

20 lecture hours

Theory of Inflation: Concept – Types – Categories, Excess demand Inflation Keynesian Income Expenditure approach, Inflationary gap –Cost push Inflation – Wage Push and profit push inflation, Phillips curve Controversy, Tobins modified Phillips Curve, Policies to control inflation. Rational expectation hypothesis,

UNIT III

15 lecture hours

IS-LM Model: The goods market and derivation of IS curve – real influences and Shift in IS schedule – the money market and derivation of LM curve – the shift in LM curve – determination of equilibrium income and interest rates, the liquidity trap – the implications of increase in money supply, the relative efficacy of fiscal and monetary policy.

UNIT IV

15 lecture hours

a) The Mundell-Fleming model: Determining equilibrium output in a small open economy – the monetary and fiscal policy under flexible and fixed exchange rates regimes – the Mundell Flemming model with changing price level. Rigidity of wages and prices

b) Theory of Business Cycles: Business Cycle Theories of Schumpeter, Kaldor, Samuelson and Hicks; Control of business cycles – relative efficacy of monetary and fiscal policies.

SUGGESTED READINGS:

- Ahuja,H.L.,— Macro Economics Theory and Policy, S. Chand & Company Ltd.
- Jhingan M.L., —Macro Economic Theory,Vrinda Publications (P)Ltd.
- R T Froyen (2008), Macroeconomics, Theory and policies, Prentice Hall.
- Gardner Ackley (1978), Macroeconomics, Theory and Policy, Macmillan Library
- Shapiro, E. —Macroeconomics analysis. Harcourt Brace Jovanovich.

- Mankiw N. Gregory: (2007) —Principles of Economics, Thomson, Indian Reprint.
- Dwiwedi, D.N. —Macro Economics. Tata McGraw Hill, New Delhi.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand of aggregate macroeconomic variables and determinants of macroeconomic conditions.	PO1
CO2	Integrate the role of fiscal and monetary policies in regulating economy.	PO1, PO2,PO9,PSO2
CO3	Apply the principle of Macroeconomics in explaining the behavior of Macroeconomic variables at national as well as global level.	PO2,PO9,PSO5
CO4	Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.	PO2,PO7,PO9,PSO4
CO5	Exposure to the theory and causes of business cycles.	PO1,PO2
CO6	Understand equilibrium in closed and open economy	PO1,PO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES214A	MACRO ECONOMICS- II	3	3					2		3			3		2	3	

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			3	2			3	3			3	3	2	2		
CO2	3			3	2			3	3			3	3	2	2	3	
CO3	3			3	2	2		3	3			3	3	2	2		
CO4	3			3	2	2		3	3			3	3	2	2		
CO5	3			3	3	2		3	3			3	3	2	2		
CO6	3			3	3	2		3	3			3	3	2	2		
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES216A	Econometrics	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Statistical Methods For Economics				
Co-requisites	--				

Course Objectives:

The main objective of the course are to:

- Introduce students to the basic econometric techniques.
- Help the student to develop a way of thinking in quantitative terms
- To provide the students with some useful tools for his/her future research.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Understand OLS estimators.

CO2: Apply OLS to specific models.

CO3: Estimate and test regression models for censored data.

CO4: Explain multicollinearity, heteroscedasticity, and serial correlation.

CO5: Estimate and interpret linear regression models and be able to distinguish between economic and statistical importance.

CO6: Use econometric methods for forecasting.

Catalog Description

Econometrics is a set of research tools used to estimate and test economic relationships. The methods taught in this introductory course can also be employed in the business disciplines of accounting, finance, marketing and management and in many social science disciplines. The aim of this course is to provide you with the skills helpful in filling the gap between being “a student of economics” and being “a practicing economist.

Course Content

UNIT-I 15 Lecture Hours

Introduction: Definition, Scope, and Methodology of econometrics; Nature and sources of data for econometric analysis; Specification of an econometric model.

Simple Regression Models: Estimators (OLS) and their properties; Statistical inference; Tests of significance and tests of restrictions.

UNIT-II 15 Lecture Hours

Econometric Problems: Nature, consequences, detection and remedial measures of the problems of multicollinearity, heteroscedasticity and autocorrelation.

UNIT-III 15 Lecture Hours

Test Procedures and Model Selection: Tests of specification and mis-specification, measurement errors, encompassing models, and criteria for model selection.

UNIT-IV 15 Lecture Hours

Dynamic Models: Lags in econometrics, Distributed and autoregressive lags, Koyck model, Simultaneous Equation Models: Introduction, Identification problem, Simultaneous equation bias and ILS and 2SLS methods of estimation.

Suggested Readings:

1. Christopher Dougherty, Introductory Econometrics 3rd Edition Oxford University Press (2007)
2. Gujarati, Damodar : Basic Econometrics , 3rd edition Mc.Graw Hill, New Delhi (1995)
3. Ramanathan, Ramu : Introductory Econometrics With Applications. Thomson South Western (2002)
4. Pindyck, Robert S. and Daniel L. Rubinfeld. —Econometric Models and Economic Forecasts. McGrawHill, 3rd Edition, Singapore (1997).
5. Wonnacott, R.J. and Wannacott, T.H: Econometrics , John Wiley. France (latest edition)

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand OLS and identify what is common and what not with respect to least squares estimation.	PO1,PO5
CO2	Apply OLS to specific models policies in regulating economy.	PO1, PO8,PO10,PSO4
CO3	Estimate and test regression models for censored data.	PO2,PO5,PO10
CO4	Explain multicollinearity, heteroscedasticity, and serial correlation	PO7,PO9
CO5	Estimate and interpret linear regression models and be able to distinguish between economic and statistical importance.	PO1,PO8,PO10,PSO5
CO6	Use econometric methods for forecasting.	PO4,PO5,PSO3

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES216A	Econometrics	3	2					2	3	3	3			2	2	3	

To develop a comprehensive understanding of the theories and practical applications of their subject.

To acquire a sense of social responsibility and service to the greater good of humanity.

To Understand the issues of environmental contexts and sustainable development.

To provide the students opportunities in terms of employment and research.

To develop the ability for advanced critical thinking and the ability to formulate logical arguments.

To develop different value systems and moral dimensions taking decisions.,

To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through developments and happenings.

To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.

Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

To be able to use digital sources to aid and augment their scholastic pursuits.

To pinpoint and understand the past, present economic conditions of the country.

To Identify major issues debates, or approaches appropriate to the discipline.

To be able to critically analyze and apply Economic theories concerning other disciplines.

To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.

To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.

To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			3	3			2	3	2			3			3	
CO2	3			3	3			2	3	2			3			3	
CO3	3			3	3			2	3	2			3			3	
CO4	3			3	3			2	3	2			3			3	
CO5	3			3	3			2	3	2			3			3	
CO6	3			3	3			3	3	3			3	2		3	
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES212A	Micro Economics-II	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Micro Economics -I				
Co-requisites					

Course Objectives

1. Understand Business Costs and Pricing. Another common objective in microeconomics is understanding the correlation between business costs, pricing and profit.
2. To introduce the students to different forms of market imperfections and market failures, input demand, factor incomes and international trade
3. Illustrate how microeconomic concepts can be applied to analyze real-life situations.
4. To give students a thorough understanding of theories of welfare economics and application to individual decision maker

Course Outcomes

On completion of this course, the students will be able to:

CO1: Understand theory of distribution of income and factor payments.

CO2: Explain concepts and theories of welfare economics.

CO3: Analyse market equilibrium conditions and economic efficiency.

CO4: Explain different forms of market imperfections and market failures observed in real life situations.

CO5: Describe the welfare economics approach to understanding decision making.

CO6: Define and explain long-run costs, economies of scale, diseconomies of scale, and constant returns to scale.

Catalog Description

This course aims to give students a solid grasp of microeconomic analysis to understand efficiency of markets and the environment where the standard market mechanism fails to generate the desirable outcomes. The issues of market imperfection and market failures are important building blocks of this course.

Course Content

Unit I: 10 lecture hours

Distribution: Determination of rent, wages, interest and profit; Neo-classical approach-Marginal productivity theory; Elasticity of technical substitution, technical progress and factor shares. Theory of distribution in imperfect product and factor markets, Product exhaustion theorem.

Unit II: 10 lecture hours

General Equilibrium and Economic Efficiency: Exchange, production and welfare. Reasons for Market Failure. Markets with asymmetric information: adverse selection, moral hazards, agency problems (concepts only).

Unit III: 20 lecture hours

(a) Classical Welfare Economics : The principle of Compensating variation, Hicksian types of consumer's surplus, Slutsky's approach to measurement of consumer's surplus, Compensation criteria, Hicks and Kaldor, Scitovsky's criterion.

(b) New Welfare Economics: Social Optimum, Community indifference map, Samuelson's utility possibility curve, Bergson's Concept of Welfare and its Measurement, Social Welfare Function.

Unit IV: 10 lecture hours

Problems of non-market interdependence, externalities in production and consumption, External economics and diseconomies, Problems of Public Goods and negative spillovers, The Problem of Market Failure, uncertainty and non-existent and incomplete markets.

SUGGESTED READINGS:

- Ahuja, H.L., Advanced Micro Economics, S. Chand & Company Ltd.
- Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
- Kreps, David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
- Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand theory of distribution of income and factor payments.	PO1,PO6
CO2	Explain concepts and theories of welfare economics.	PO2,PO5,PSO2
CO3	Analyse market equilibrium conditions and economic efficiency.	PO4,PO5,PO6,PSO4,PSO5
CO4	Explain different forms of market imperfections and market failures observed in real life situations.	PO6,PO7,PO8,PSO3
CO5	Describe the welfare economics approach to understanding decision making.	PO5
CO6	Define and explain long-run costs, economies of scale, diseconomies of scale, and constant returns to scale.	PO1,PSO6

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES212A	Micro economics-II	3	2		2	3	3	3	3				3	3	2	3	2
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3			3	2			3	3			3	3	2	2	
CO2	3			3	2			3	3			3	3	2	2	3
CO3	3			3	2	2		3	3			3	3	2	2	
CO4	3			3	2	2		3	3			3	3	2	2	
CO5	3			3	3	2		3	3			3	3	2	2	
CO6	3			3	3	2		3	3			3	3	2	2	
	1=lightly mapped			2= moderately mapped				3=strongly mapped								

SHMC310A	Chasing The Rainbow: The Entrepreneurial Streak	L	T	P	C
Version 1.0		4	0	0	4
Pre-requisites/Exposure					
Co-requisites	--				

Course Objectives

The purpose of the course is that the students acquire necessary knowledge and skills required for organizing and carrying out entrepreneurial activities, to develop the ability of analysing and understanding business situations in which entrepreneurs act and to master the knowledge necessary to plan entrepreneurial activities. The objective of the course is, further on, that the students develop the ability of analysing various aspects of entrepreneurship – especially of taking over the risk, and the specificities as well as the pattern of entrepreneurship development and, finally, to contribute to their entrepreneurial and managerial potentials.

Course Outcomes

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

CO1: Develop idea generation, creative and innovative skills

CO2: Aware of different opportunities and successful growth stories

CO3: Learn how to start an enterprise and design business plans those are suitable for funding by considering all dimensions of business.

CO4: Understand entrepreneurial process by way of studying different case studies and find exceptions to the process model of entrepreneurship.

Catalog DescriptionA fundamental outcome of entrepreneurship is the creation of new value, usually through the creation of new products and services which may lead to the creation of a new business entity. The objective of this course is to demonstrate and understand that exploiting a new opportunity is a process that can be planned, resourced, and managed. To start a successful business, an entrepreneur must exercise motivation as well as enterprising and managerial skills. He or she requires access to resources to grow the business; not just investment but social resources as well. Overall success is not just related to the nature of market opportunities but to the entrepreneurial and managerial motivations and skills of the entrepreneur

Course Content

Course Syllabus:

UNIT-I

10 lecture hours

Entrepreneurship – Concept, knowledge and skills requirement, characteristics of successful Entrepreneurs, role of entrepreneurship in economic development, entrepreneurship process, factors impacting emergence of entrepreneurship, managerial vs. entrepreneurial approach and emergence of entrepreneurship

UNIT-II

8 lecture hours

Creating Entrepreneurial Venture – Environmental scanning, competitor and industry analysis; feasibility study – market feasibility, technical/operational feasibility, financial feasibility; drawing business plan; preparing project report; presenting business plan to investors

UNIT-III

12 lecture hours

Sources of Finance – Debt or equity financing, commercial banks, venture capital; financial Institutions supporting entrepreneurs; legal issues – intellectual property rights patents, trademarks, copy rights, trade secrets, licensing, franchising .

UNIT-IV

10 lecture hours

Role of Central and State Governments in promoting entrepreneurship – Start-up India, Standup India, PM YuvaYojna, NITI Aayog, Various incentives, subsidies, fiscal and tax concessions; agencies in entrepreneurship development – District Industries Centres (DICs), Small Industries Service Institute (SISI), Entrepreneurship Development Institutes of India (EDII); Women Entrepreneurs – role, problems, prospects .

References:

1. Tendon, C: Environment and Entrepreneur; Clough Publications, Allahabad.
2. Siner A David: Entrepreneurial Megabooks; John Wiley and Sons, New York.
3. Srivastava S. B: A Practical Guide to Industrial Entrepreneurs; Sultan Chand and Sons, New Delhi.
4. Prasanna Chandra: Protect Preparation, Appraisal, Implementation; Tata McGraw Hill. New Delhi.
5. Paudey I.M: Venture Capital - The Indian Experience; Prentice Hall of India. New Delhi
6. Holt: Entrepreneurship-New Venture Creation; Prentice Hall of India. New Delhi

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Develop idea generation, creative and innovative skills	PO2,PO4,PO6,PO8,PO9, PSO2,PSO6
CO2	Aware of different opportunities and successful growth stories	PO2,PO4,PO8, PSO1,PSO6
CO3	Learn how to start an enterprise and design business plans those are suitable for funding by considering all dimensions of business	PO1,PO6,PO9,PSO2,PSO6
CO4	Understand entrepreneurial process by way of studying different case studies and find exceptions to the process model of entrepreneurship.	PO1,PO4,PO5,PO9,PSO6

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHMC310A	Chasing The Rainbow: The Entrepreneurial Streak	2	2		3		2		3	3		2	2				3

To develop a comprehensive understanding of the theories and practical applications of their subject.

To acquire a sense of social responsibility and service to the greater good of humanity.

To Understand the issues of environmental contexts and sustainable development.

To provide the students opportunities in terms of employment and research.

To develop the ability for advanced critical thinking and the ability to formulate logical arguments.

To develop different value systems and moral dimensions taking decisions.,

To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through developments and happenings.

To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.

Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

To be able to use digital sources to aid and augment their scholastic pursuits.

To pinpoint and understand the past, present economic conditions of the country.

To Identify major issues debates, or approaches appropriate to the discipline.

To be able to critically analyze and apply Economic theories concerning other disciplines.

To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.

To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.

To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2		3	2		2	3	3		1	2			2	3
CO2	3	2		2	2		2	3	3		1	2		2	2	3
CO3	3	3		3	2		2	2	3					2	2	3
CO4	3	3		3	2		2	2	3					2	2	3
	1=lightly mapped					2= moderately mapped					3=strongly mapped					

SHES220A	DEMOGRAPHY	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	--				
Co-requisites	--				

Course Objectives:

The main objective of the course is to:

- Understand concepts of population studies and important population theories
- Understand demographic measurements
- Understand international aspects of population dynamics and migration
- Recognize population statistics and sources

Course Outcomes

On completion of this course, the students will be able to:

CO1: Explain important population theories and relationships between population and other social and economic variables

CO2: Explain measurement techniques in demography studies.

CO3: Illustrate understanding of population dynamics and interpret the difference of growth and development of world population.

CO4: Identify and Analyze population statistics and sources in India

CO5: Describe economic importance of population studies and how local and international demographic variables affect the economic growth of the country.

CO6: Analyse population policies at national level.

Catalog Description

Demography is the statistical and mathematical study of the size, composition, and spatial distribution of human populations and how these features change over time. Demographic

analysis can be applied to whole societies or to groups defined by criteria such as education, nationality, religion and ethnicity. Institutionally, demography is usually considered a field of sociology, while the broader field of social demography population studies has a vital relationship with economics. The number and quality of population which exists on the earth depends greatly on the economic opportunities and economic organization. Population growth, size and distribution cannot be discussed separately without comprehensive economic-demographic models

Course Content

UNIT I

15 lecture hours

Theory of optimum population; Stages of demographic transition. Population and Economic Development: Inter-relationship between population and economic development; population growth and unemployment; population and human capital formation.

UNIT 2:

15 lecture hours

Demographic Measurements: Mortality measures; infant mortality; measurement of fertility, gross and net reproduction rates. Population Projection: Life-table; logistic curve; components methods; Naptiality and its measurement.

UNIT 3:

15 lecture hours

International aspects of Population: Unequal distribution of population and world resources. Migration: Temporary and Permanent; Ageing societies: Benefits and Costs; India's Demographic Dividend

UNIT 4:

15 lecture hours

Demographic Profile in India: Sources of population data in India. Growth rate of population; birth and death rates; life expectancy; density; rural-urban ratio; sex ratio literacy; ; poverty profile. Population explosion and India's population policy. Family welfare programmes in India.

SUGGESTED READINGS:

1. M. Spiegelmen: Introduction to Demography
2. Ashok Mitra: India's Population: Problem of quality and Control
3. Chenery H. and T.N. Srinivasan: Hand Book of Development Economics
4. G. W. Barclay: Techniques of Population Analysis
5. P. M. Hamfer et al.: The Study of Population
6. J. J. Spenglar, et al.: Demographic Analysis
7. Bose: India's Basic Demographic Statistics.
8. S. N. Agarwal: India's Population Problems
9. M. Seth: Women and Development.

**Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination
Examination Scheme:**

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain important population theories and relationships between population and other social and economic variables	PO1,PO8,
CO2	Explain measurement techniques in demography studies.	PO4,PO5,PSO5
CO3	Illustrate understanding of population dynamics and interpret the difference of growth and development of world population.	PO3,PO7,PO8,PO6,PSO2, PSO3
CO4	Identify and Analyze population statistics and sources in India	PO4,PO10,PO8,PSO1
CO5	Describe economic importance of population studies and how local and international demographic variables affect the economic growth of the country.	PO7,PO3,PO9,PSO1, PSO6
CO6	Analyse population policies at national level.	PO4,PO5

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES220A	DEMOGRAPHY	3		2	3	3	2	3	3	2	2	3	3	2		2	2

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3		2	3		3	3			3	3	3			2
CO2	3			3	3					3			2			3
CO3	3	3		2	3		3	3			3	3	3	3		2
CO4	3			3	3					3			2			3
CO5	3	2		3					3			2	3			3
CO6	3	3		3			2	2	3			2	3			3

1=lightly mapped

2= moderately mapped

3=strongly mapped

SHES315A	PUBLIC ECONOMICS	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Principles of Economics				
Co-requisites	--				

Course Objectives

- To learn the theory and concepts of public finance
- Discuss the use of taxes and public expenditures for promoting socially efficient resource allocation and a desirable income distribution.
- To understand the role of taxes in supporting public provision of goods and services.
- To analyze the tax policy and understand the market effects of tax.

Course Outcomes

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

CO1: Explain the concept of public finance and government budget

CO2: Discuss the use of taxes and public expenditures for promoting socially efficient resource allocation and equitable income distribution

CO3: Understand the effects of taxes in markets and economy

CO4: Analyze the tax policy and the issues which underline budgetary policies in general and Indian experience

CO5: Explain the tax policy reforms.

CO6: Explain the socio-economic implications of budgetary policies.

Catalog Description

The module aims to introduce students to the main theoretical and empirical concepts in public economics, equip students with a thorough analytical grasp of implications of government intervention for allocation, distribution and stabilization, and familiarize students with the main issues in government revenues and expenditure. At the end of the module the students should be able to demonstrate their understanding of the public economics. In some models, the student will be required to deal with simple algebra problems that will help them to better understand these concepts, use diagrammatic analysis to demonstrate and compare the economic welfare effects of various environmental policy options, demonstrate their understanding of the usefulness and problems related to taxation and government expenditure, and demonstrate their critical understanding of public policies

Course Content

UNIT-I – 10 Lectures

Introduction to Public Finance: Nature, Scope and Importance. Positive vs. Normative Public Finance. Theory of Maximum Social advantage. Concept of Market failure, Role of Government in the Economic Activity; Allocation, Distribution and Stabilisations, Public, Private and Merit Goods, Optimal provision of public goods.

UNIT-II- 20 Lectures

Government Budgets: Government budget and its structure; Receipts and expenditure Economic and functional classification of the budget; concepts of current and capital account. Balanced, surplus, and deficit budgets; balanced budget multiplier; budget as an instrument of economic policy. Types of Deficits; Budget deficit vs. fiscal deficit; revenue Deficit, primary deficit; deficit budgeting. Concept of PPB, zero based budgeting, government policy and its impact.

UNIT-III – 10 Lectures

Public Expenditure: Public Expenditure: Objectives, Allocation, Distribution and Stabilization; canons of Public Expenditure, causes of growth of public expenditure. Wagner's Law of increasing state activities; Peacock-Wiseman Hypothesis. Effects of public expenditure on production, growth, distribution and stabilization.

UNIT-IV – 20 Lectures

Public Revenue: Sources of Public Revenue; Taxes: Classification of Taxes, Principles of taxation; Canons of Taxation. Ability to Pay and Benefit Approach, Incidence and Shifting of Tax Burden. Major Taxes in India, The Concept of Goods and Service Tax (GST). Effects of taxation on production, growth, distribution and allocation of resources. Trade-off between equity and efficiency, Laffer curve analysis.

SUGGESTED READINGS:

- Lekhi, R. K., Singh, Joginder: Public Finance, Kalayani Publishers.
- Hajela, T.N. 'Public finance. (4th Ed.) Ane Books Pvt Ltd, 2010.

- Musgrave, R & Musgrave, P B: Public Finance in Theory and Practice. McGraw – Hill International Eds.
- Peacock, and Straw, G K (1970): The Economic Theory of Fiscal Policy
- Chelliah, R C (1996): Sustainable Growth, Essays on Financial and Fiscal Sector Reforms, Oxford University Press.
- RaghbendraJha (1999): Modern Public Economics, Rotledge
- Govt. of India, Ministry of Finance: Sarkaria Commission Report on Centre State Financial Relations.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain the concept of public finance and government budget	PO1
CO2	Discuss the use of taxes and public expenditures for promoting socially efficient resource allocation and equitable income distribution.	PO5,PO7,PO9,PSO2
CO3	Understand the effects of taxes in markets and economy	PO5,PO8,PSO1
CO4	Analyze the tax policy and the issues which underline budgetary policies in general and Indian experience	PO5,PO9,PO10,PSO5
CO5	Explain the tax policy reforms.	PO5,PO9,PSO2
CO6	Explain the socio-economic implications of budgetary policies.	PO7,PSO5

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES315A	Public Economics	2				3		3	3	2	2	3	3			2	

To develop a comprehensive understanding of the theories and practical applications of their subject.

To acquire a sense of social responsibility and service to the greater good of humanity.

To Understand the issues of environmental contexts and sustainable development.

To provide the students opportunities in terms of employment and research.

To develop the ability for advanced critical thinking and the ability to formulate logical arguments.

To develop different value systems and moral dimensions taking decisions.,

To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and developments in the life of the nation.

To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.

Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

To be able to use digital sources to aid and augment their scholastic pursuits.

To pinpoint and understand the past, present economic conditions of the country.

To Identify major issues debates, or approaches appropriate to the discipline.

To be able to critically analyze and apply Economic theories concerning other disciplines.

To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.

To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.

To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3			2			3	3					3	3	2	2
CO2	3	2	2	2			3	3	2		2	3	3		2	
CO3	3	2		3			3	2	2		2	3	3			
CO4	3	2	2	2			3	3	2		2	3	3		2	2
CO5	3	2	2	2			3	3	2		2	3	3	2	2	2
CO6	2	2					3		2		2	3	3		2	2
	1=lightly mapped				2= moderately mapped						3=strongly mapped					

SHES311A	Indian Economy-I					L	T	P	C
Version 1.0						5	1	0	6
Pre-requisites/Exposure	--								
Co-requisites	--								

Course Objectives

- To learn the process involved in the development of Indian Economy.
- To understand the role of agriculture in economic growth and development
- To be aware of the economy as a whole

Course Outcomes (CO)

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

CO1: Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.

CO2: Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.

CO3: Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.

CO4: Understand agriculture as the foundation of economic growth and development, analyse the progress and changing nature of agricultural sector and its contribution to the economy as a whole.

CO5: To understand the past and present economic conditions of the country.

CO6: To Identify major issues debates, or approaches concerning economy.

Catalog Description

At the end of the course, a student should be able to understand the development paradigm adopted in India since independence and evaluate its impact on economic as well as social indicators of progress and wellbeing.

UNIT I 15 Hours

Introduction to Indian Economy – Basic characteristics and features of Indian economy. Changes in structure of Indian Economy (Primary Sector, Secondary Sector & Tertiary Sector). Economic Planning in India: Features, Objectives and Assessment of Indian Planning. (Plan wise details to be excluded).

UNIT II 15 Hours

Demographic features of India's population:. Inter-state disparities in the pattern of development. Structural Change in the distribution of Income and Workforce in India. National Income: Growth and composition; Contribution of different sector & growth pattern.

UNIT III 15 Hours

Poverty in India- concepts, incidence & extent of poverty in India, Inequality and Social Justice; Human Development Index, Gender Development Indices. Poverty and unemployment in India. Programmes for eradication of poverty and unemployment with special reference to the post – reform era.

UNIT IV 15 Hours

Agriculture: Features of Indian Agriculture; Land relations and land reforms; technological aspects, rural credit; pricing of agricultural produce; Impact of Green Revolution on Indian Agriculture. Recent Trends in Agricultural Development -- Causes of Deceleration and Future Challenges. New Agricultural strategy.

SUGGESTED READINGS:

- Brahmananda, P.R. and Panchmukhi : The Development Process of Indian Economy, V.R. (eds.) 1987 Himalaya Publishing House, Bombay.
- Lucas ,E.B., and Papanek, G.F.: The Indian Economy- Recent Developments and (eds.) 1988 Future Prospects, Oxford University Press, New Delhi.
- Jalan, Bimal 1992 : The Indian Economy – Problem and Prospects, Viking, New Delhi.
- Byres, T J (Ed.) (1998): The Indian Economy: Major Debate Since Independence, Oxford University Press, New Delhi.
- Economic Survey: Government of India. Various Issues.

- Economic and Political Weekly: Various Issues.
- Koutsoyiannis, A.; Modern Micro Economics, Macmillan Press Ltd.
- Salvator, Dominick, Managerial Economics, McGraw-Hill Book Company
- Chaturvedi, D.D. and S. L. Gupta; Business Economics, Brijwasi Publishers.
- Gould & Lajear Micro Economics.
- Richard A. Bilas Micro Economic Theory
- Paul, A. Samuelson Economics
- R. H. Lelftwich The Price system and Resource Allocation.
- Joseph E. Stiglitz Economics, W.W. Norton & Company, New York, London.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.	PO3, PSO1
CO2	Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development	PO4, PO8, PO9, PSO5
CO3	Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government	PO8, PO9, PSO1, PSO2
CO4	Understand agriculture as the foundation of economic growth and development, analyse the progress and changing nature of agricultural sector and its contribution to the economy as a whole.	PO1, PO8
CO5	To understand the past and present economic conditions of the country.	PSO1
CO6	To Identify major issues debates, or approaches concerning economy	PSO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES311A	Indian Economy-I	2		2	3				3	3		3	3			3	
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3	3	2		3		3	3			3	3	3	2	2		
CO2	3	3	2		3	3	3	3	2		3	3	3	2	2		
CO3	3	3	2		3	3	3	3	2		3	3	3	2	2		
CO4	3	3	2	1	3	3	3	3	2		3	3	3	2	2	1	
CO5	3	3	2		3		3	3			3	3	3	3	3		
CO6	3	3	2	2	3		3	3			3	3	3	2	2		
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES313A	Development Economics-I	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	Basics of Economics				
Co-requisites	--				

Course Objectives

- To learn the several parameters of development of the nation.
- Familiarize with some central themes and issue of Economic Development.
- To understand the concept of Inequality and development, Major Growth Models etc,

Course Outcomes (CO)

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

CO1: Explain development economic growth theories.

CO2: Apply economic prescriptions to development, concerns like education, health, sanitation and infrastructural development.

CO3: Explain inequalities between rich and poor countries, how the differences have evolved over time and how other measurements of quality of life correlates with per capita income.

CO4: Understand the models of economic growth.

CO5: Identify obstacles to economic development.

CO6: Understand the importance of economic decision making towards the objective of inclusive growth.

Catalog Description

This course introduces students to the basics of development economics, with in depth discussions of the concepts of development, growth, poverty, inequality, as well as the underlying political institutions.

UNIT I **15 hours**

Growth and Development: Conceptual issues; Determinants of Economic Growth; Basic Requirements for Economic Growth. Traditional Measures of Economic Development - National income and per capita income, UNDP indices for measurement of Development. Stationary State and Steady State Growth.

UNIT II

Theories of Economic Development **15 hours**

Theories of Economic Growth: Classical growth theory (Smith, Ricardo, Malthus and, Mill); Marxian model; Schumpeter's Theory.

UNIT III

Labour Supply and Economic Growth **15 hours**

Lewis' Theory of Unlimited Supply of Labour, Ranis-Fie Model; Leibenstein's Critical Minimum Effort Thesis; Nelson's Low Level Equilibrium Trap; Rosenstein Rodan's Theory of Big-Push.

UNIT IV

Approaches to Economic Development **15 hours**

Vicious circle of poverty, Myrdal's-Backwash Effects and circular causation, balanced growth, unbalanced growth, Harris-Todaro Model of Migration and Arrow's Learning by Doing. Rostow's stages of Economic Growth, Marx stages of Economic Growth.

TEXT BOOKS:

1. Jhingan M.L., —The Economics of Development and Planning, Vrinda Publications (P)Ltd
2. Mishra, S. K. & Economics of Development and Planning. Puri, V. K.
3. Higgins (1968), Economic Development, WW Norton & Co.

REFERENCE BOOKS:

1. Thirlwall, A. P.,—Growth and Development, Seventh edition, Palgrave Macmillan, New York.
2. Ray, Debraj (2004), —Development Economicsl, Seventh impression, Oxford University Press, New Delhi.
3. Todaro, Michael P. and Stephen C Smith., —Economic Developmentl, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.

4. Meier, Gerald M. and James E. Rauch., “*Leading Issues in Economic Development*”, Oxford University Press, New York.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination
Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain development economic growth theories.	PO1,PSO5
CO2	Apply economic prescriptions to development, concerns like education, health, sanitation and infrastructural development.	PO2,PO5,PO7,PSO3
CO3	Explain inequalities between rich and poor countries, how the differences have evolved over time and how other measurements of quality of life correlates with per capita income.	PO7,PO8,PO9,PSO1,PSO2
CO4	Understand the models of economic growth.	PO1,PO5,PO8,PO9
CO5	Identify obstacles to economic development.	PO2,PO8
CO6	Understand the importance of economic decision making towards the objective of inclusive growth.	PO2,PO7

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHE313A	Development Economics-I	3	3			3		3	3	3		2	3	2		2	

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3	2	2	3	3			3	2		3	3	3	2	2		
CO2	3	2	2	3	3		2	3	2		3	3	3	2	2	2	
CO3	3	2	2	3	3		2	3	2		3	3	3	2	2	2	
CO4	3	2	2	3	3			3	2		3	3	3	2	2		
CO5	3	2		3	3		3	3	2		3			3	3	2	
CO6	3	3	3		3		3	2			3			3	2		
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES317A	International Economics-I	L	T	P	C
Version 2.0		5	1	0	6
Pre-requisites/Exposure	--				
Co-requisites	--				

Course Objectives

- To understand the theory of International Economics and its application to the real world.
- To understand current major issues and debates in global economy
- Understand the processes of international economic relation as part of global economy market
- To give students a thorough understanding of theories of International economics & its applications

Course Outcomes

On completion of this course, the students will be able to:

CO1: Learn about the development of various trade theories

CO2: Analyze contemporary issues in trade theory and policy.

CO3: Explain differences and similarities between regional, national, and international environment including political, economic and cultural elements.

CO4: Explain the major trade theories and models and how to apply those models

CO5: Describe the international monetary policy and international flow of money between countries like FDI

CO6: Develop analytical and critical thinking skills and use them to judge the appropriateness of international trade policy options.

Catalog Description

The module aims to introduce students to the main theoretical and empirical concepts in international trade, equip students with a thorough analytical grasp of trade theory, ranging from Ricardian comparative advantage to modern theories of intra-industry trade, and familiarise students with the main issues in trade policy and with the basic features of the international trading regime.

Course Content

Unit I: 10lecture hours

International Trade: Interregional and International trade, International trade and growth, Production Possibility Curve, Community Indifference Curves, Offer Curves.

Unit II: 15 lecture hours

Absolute and Comparative Advantage, Theory of comparative Cost Advantage, Theory in terms of Opportunity Costs, The Hechscher-Ohlin Theory, The Leontief's paradox, The Rybczynski Theorem, Trade and Imperfect Competition.

Unit III: 15 lecture hours

Reciprocal Demand, Terms of Trade, Gains from Trade, Factors affecting terms of trade. Terms of Trade and Economic Development, Singer and Prebisch thinking on terms of trade and underdeveloped economies.

Unit IV: 20 lecture hours

Free trade versus protection. Theory of tariff: effects of tariff in terms of partial equilibrium and general equilibrium approaches. Concepts of effective tariff and optimum tariff. Quotas: effects of quotas, dumping, State trading. Nontariff barriers; Nominal, effective and optimum rates of tariffs their measurement. A general theory of customs union. Tariff versus quotas.

SUGGESTED READINGS:

- M. L. Jhingan: International Economics
- M. C. Vaish and : International Economics. Sudama Singh
- Mannur, H.G (2000). International Economics.
- Salvatore, D. (1997), International Economics, PHI, New York.
- Sodorston, Bo. (1991), International Economics, The Macmillan Press Ltd. London.
- Pilbeam, Keith (1998): International Finance, Palgrave.
- Mithani, M. D () International Economics.
- Bhagwati. J (1981), International Trade, Cambridge University Press, London.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination
Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Learn about the development of various trade theories	PO1
CO2	Analyze contemporary issues in trade theory and policy	PO8
CO3	Explain differences and similarities between regional, national, and international environment including political, economic and cultural elements.	PO8
CO4	Explain the major trade theories and models and how to apply those models	PO1,PO5,PO4,PSO1
CO5	Describe the international monetary policy and international flow of money between countries like FDI	PO5,PO4,PO9,PSO5
CO6	Develop analytical and critical thinking skills and use them to judge the appropriateness of international trade policy options	PO5,PO9,PSO3,PSO6

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES317A	International Economics-I	2			2	3			3	3		3		3		2	3
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			2	3		3	3	2		2	3	3	2	2		
CO2	3			2	3		3	3	2		2	3	3	2	2	2	
CO3	3		2	2	3		3	3	2		2	3	3	2	2	2	
CO4	3			2	3		3	3	2		2	3	3	2	2	2	
CO5	3			2	3		3	3	2		2	3	3	2	2	2	
CO6	3			2	3	3	3	3	2			3	3	2	2	2	
	1=lightly mapped			2= moderately mapped						3=strongly mapped							

SEMESTER VI

SHES312A	Indian Economy-II	L	T	P	C
Version 3.0		5	1	0	6
Pre-requisites/Exposure	Indian Economy-I				
Co-requisites	--				

Course Objectives

1. To develop a perspective on the different problems and approaches to economic planning and development in India.
2. To understand the issues related to growth of Indian economy, its planning and economic reforms.
3. To acquaint the students with foreign trade of India
4. To acquaint the students with important areas of concern like poverty, income inequality, unemployment, etc.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Examine the causes and remedies of various problems faced by the Indian economy like poverty, inequality, unemployment, inflation and black money.

CO2: Interpret the various measures of economic reforms.

CO3: Understand and Examine the process of economic planning in India.

CO4: To develop a perspective on the different problems and approaches to economic planning and development in India

CO5: To explain contemporary issues pertaining to the economy.

CO6: To identify the bottlenecks in the balanced regional and national development.

Catalog Description

The course is to acquaint students of the Indian Economy, present and future of Indian Economics, and how the Indian Economy is influencing the business environment in India context.

Course Content

Unit I: 15 lecture hours

Economic Problems: Poverty, Inequality, Parallel Economy, Unemployment, Concentration of Economic Power, Balanced Regional Development, Low Capital Formation and Industrial Sickness. Trends in National Income in India.

Unit II: 10 lecture hours

Industrial policy: Growth and pattern of industrialization; small-scale sector; Productivity in industrial sector, Public Sector enterprises and their performance; Problem of sick units in India; Privatization and disinvestment debate.

Unit III: 10 lecture hours

Labor and employment: Progress of Industrial relations in India, Employment Policy, unemployment scenario, Work Force Participation and Changes in Occupational Structure in India. Labor market reforms.

Unit IV: 15 lecture hours

- (a) Foreign Trade: Salient features of India's foreign trade; Trends in foreign trade in the recent past, Balance of payment, Balance of Trade, Trade Policy, Trade Reforms, Foreign Exchange Management Act (FEMA), Export Promotion.
- (b) WTO, GATT, TRIMS, TRIPS, Foreign Direct Investment, Foreign Institutional Investment. LPG Policies.

SUGGESTED READINGS:

- Misra, S. K. and Puri, V. K, Indian Economy, Himalaya Publication.
- Datt, and Sundhram, R, Indian Economy, 61st edition, S. Chand & Company Ltd
- Dhingra, I C, Indian Economy, Sultan Chand & Sons.
- Agrawal, A.N., Indian economy, Vikas publications Ltd.
- Jaiganta, Sarkar, Indian Economy: Policies and Practices, 1st edition, Pearson Education.
- Prakash, B. A., The Indian Economy since 1991 – Economic Reforms & Performances, 1st edition, Pearson Education.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Examine the causes and remedies of various problems faced by the Indian economy like poverty, inequality, unemployment, inflation and black money.	PO2,PSO1,PSO2
CO2	Interpret the various measures of economic reforms.	PO1,PO2,PO5,PSO3
CO3	Understand and Examine the process of economic planning in India.	PO2,PO5,PO7
CO4	To develop a perspective on the different problems and approaches to economic planning and development in India	PO6,PO8,PO9,PSO5
CO5	To explain contemporary issues pertaining to the economy.	PO1,PO7
CO6	To identify the bottlenecks in the balanced regional and national development.	PO7,PO8,PSO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES312A	Indian Economy-II	3	2			2	3	3	3	2		3	2	2		3	
		To develop a comprehensive understanding of the theories and practical applications of their subject.	To acquire a sense of social responsibility and service to the greater good of humanity.	To Understand the issues of environmental contexts and sustainable development.	To provide the students opportunities in terms of employment and research.	To develop the ability for advanced critical thinking and the ability to formulate logical arguments.	To develop different value systems and moral dimensions taking decisions.,	To Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering	To understand the scope of the discipline and be motivated to pursue contemporary developments and happenings.	Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.	To be able to use digital sources to aid and augment their scholastic pursuits.	To pinpoint and understand the past, present economic conditions of the country.	To Identify major issues debates, or approaches appropriate to the discipline.	To be able to critically analyze and apply Economic theories concerning other disciplines.	To develop the ability, explain economics to lay audiences, showing that they can translate economic concepts and principles into terms that can be understood by general audience.	To analyze and evaluate positions on economic issues, showing that they can break an economic issue down into the various economic principles and concepts that form the basis of the position and identifying the competing sides on the issue.	To initiate the programmes for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

1=weakly mapped

2= moderately mapped

3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3	3	2		3		3	3			3	3	3	2	2		
CO2	3	3	2		3	3	3	3	2		3	3	3	2	2		
CO3	3	3	2		3	3	3	3	2		3	3	3	2	2		
CO4	3	3	2	1	3	3	3	3	2		3	3	3	2	2	1	
CO5	3	3	2		3		3	3			3	3	3	3	3		
CO6	3	3	2	2	3		3	3			3	3	3	2	2		
	1=lightly mapped			2= moderately mapped						3=strongly mapped							

SHES314A	Development Economics-II	L	T	P	C
Version 2.0		5	1	0	6
Pre-requisites/Exposure	Development Economics -I				
Co-requisites	--				

Course Objectives

1. To develop a perspective on the different problems and approaches to economic planning and development in India.
2. To familiarize students with cutting edge research topics in the economic development of India.
3. To familiarize students with issue of Governance and corruption
4. To ensure that the students know more about the meaning of equity and wellbeing.

Course Outcomes

On completion of this course, the students will be able to:

- CO1:** Understand the current literature on the empirical economics of development.
CO2: Examine the aspects that have been at the core of development policy over time and how they relate to dominant development ideas today.
CO3: Understand and Examine the process of economic planning in India.
CO4: Describe choice of techniques and different growth models and their relevance.
CO5: To explain contemporary issues pertaining to the industrialization in the developing economies.
CO6: To identify the bottlenecks in the balanced economic development.

Catalog Description

This course is basically on Economics Development, which is an extension to a more broader discuss of what is really happening in the economy and the players of the economy. The topics covered include Governance and Corruption, Civil Society and Development, Globalization and Poverty, Equity and well-being.

Course Content

Unit I: 20 lecture hours

(a) **Choice of Techniques and appropriate Technology:** Capital intensive versus Labor intensive techniques, Elementary Idea of Cost-Benefit Analysis, Technical Progress-Hicksian view, the capital controversy.

(b) **Capital formation:** Meaning and sources; capital output ratio; Human capital: concept and utilization. Foreign aid and Economic Development, Transfer of technology.

Unit II: 15 lecture hours

Models of Economic Growth: Growth models – The Harrod-Domar analysis and Mahalonobis growth model (4-sector). Neo-classical growth models – Solow and Meade, Mrs. Joan Robinson's growth model, Kaldor model of economic growth– Technological progress – embodied and disembodied technical progress; Hicks and Harrod neutral technical progress.

Unit III: 10 lecture hours

Inequality and Development: Meaning, Measurement Lorenz Curve, Kuznets Inverted U Shape curve, Inequality and Development:-Inter connection Population Growth and Economic Development.

Unit IV: 15 lecture hours

External Sector in Growth & Development

Trade Policies: Import-substitution and Export-led growth – domestic demand-led growth – Dual gap analysis – Balance of payments – Foreign Direct Investment – International Development Institutions. Domestic and international measures for economic development: capital formation, human capital, population, foreign trade, foreign investment.

SUGGESTED READINGS:

- Jhingan M.L., —The Economics of Development and Planning, Vrinda Publications (P)Ltd
- Mishra, S. K. & Economics of Development and Planning. Puri, V. K.
- Higgins (1968), Economic Development, WW Norton & Co.
- Thirlwall, A. P.,—Growth and Development, Seventh edition, Palgrave Macmillan, New York.
- Ray, Debraj (2004), —Development Economics, Seventh impression, Oxford University Press, New Delhi.

- Todaro, Michael P. and Stephen C Smith., —Economic Developmentl, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.
- Meier, Gerald M. and James E. Rauch., “Leading Issues in Economic Development”, Oxford University Press, New York.
- Kuznets, S (1966) Modern Economic growth, Rate Structure and Spread, Vakils, Feffer and Simons Private Ltd, Bombay.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination
Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	To provide a critical reading of the current literature on the empirical economics of development.	PO1,PO5,PSO 3
CO2	Examine the aspects that have been at the core of development policy over time and how they relate to dominant development ideas today..	PO3,PO8,PSO 2
CO3	Understand and Examine the process of economic planning in India.	PO2,PO6,PSO 5
CO4	Describe different choice of techniques and different growth models and their relevance.	PO9,PSO6
CO5	To explain contemporary issues pertaining to the industrialization in the developing economies.	PO1,PO2,PSO 2
CO6	To identify the bottlenecks in the balanced economic development.	PO2,PSO2

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES314A	Development Economics -II	3	2	3		3			3	3			2	2		3	2

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	
CO1	3	2	2	3	3			3	2		3	3	3	2	2		
CO2	3	2	2	3	3		2	3	2		3	3	3	2	2	2	
CO3	3	2	2	3	3		2	3	2		3	3	3	2	2	2	
CO4	3	2	2	3	3			3	2		3	3	3	2	2		
CO5	3	2		3	3		3	3	2		3			3	3	2	
CO6	3	3	3		3		3	2			3			3	2		
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES316A	International Economics-II	L	T	P	C
Version 2.0		5	1	0	6
Pre-requisites/Exposure	International Economics-I				
Co-requisites	--				

Course Objectives

1. To understand the theory of International Economics and its application to the real world.
2. To understand current major issues and debates in global economy
3. Understand the processes of international economic relation as part of global economy market
4. To give students a thorough understanding of theories of International economics & its applications

Course Outcomes

On completion of this course, the students will be able to:

CO1: Explain the various reasons why countries engage in international trade, including direction and volume of trade between nations.

CO2: Explain the major trade models and how to apply those models

CO3: Understand equilibrium in forex market.

CO4: Develop analytical and critical thinking skills and use them to judge the appropriateness of international trade policy options.

CO5: Understand terms of trade and gain from trade.

CO6: Gain knowledge about the BOP conditions of a nation and role of government intervention.

Catalog Description

The students should be able to demonstrate their understanding of the economic concepts of trade theory. In some models, the student will be required to deal with simple algebraic problems that will help them to better understand these concepts, use diagrammatic analysis to demonstrate and compare the economic welfare effects of free trade and protection, demonstrate their understanding of the usefulness and problems related to topics in international trade, and demonstrate their critical understanding of trade policies.

Course Content

Unit I: 10 lecture hours

Determination of rate of exchange under conditions of inconvertible paper currencies- Purchasing power parity and balance of payment theories. Foreign Trade Multiplier with and without foreign repercussions; Determination of national income in an open economy, Fixed versus Flexible exchange rates; fluctuations in exchange rates-causes and consequences. The Determination of Floating Exchange Rate.

Unit II: 20 lecture hours

Traditional, Absorption and monetary approaches for adjustment in the balance of payments, A critical review of the monetary approach; International Reserves, Optimum Currency Areas Theory (Mundell & Magnifico) and impact in the developed and developing countries.

Unit III: 15 lecture hours

Determinants of Terms of trade, static and dynamic gains from trade: Samuelson on gains from trade; Immiserising growth, Deterioration in terms of trade -Technical progress and trade Hicksian graphical analysis neutral, capital saving and labor-saving technologies and its impact on terms of trade. Trade as an engine economic growth.

Unit IV: 15 lecture hours

Growth and Trade:

The nature of the growth process; The effects of growth on small countries; The Effects of Growth on Large Countries; Technical Progress and International Trade; Import substitution v/s Export Push; Trade Liberalization: order, sequencing and speed; Liberalization experience of developing countries.

SUGGESTED READINGS:

- M. L. Jhingan: International Economics
- M. C. Vaish and : International Economics. Sudama Singh
- Mannur, H.G (2000). International Economics.
- Salvatore, D. (1997), International Economics, PHI, New York.
- Sodorston, Bo. (1991), International Economics, The Macmillan Press Ltd. London.
- Pilbeam, Keith (1998): International Finance, Palgrave.
- Mithani, M. D () International Economics.

- Bhagwati. J (1981), International Trade, Cambridge University Press, London.

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination
Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Explain the various reasons why countries engage in international trade, including direction and volume of trade between nations.	PO1,PO4,PO8
CO2	Explain the major trade models and how to apply those models	PO1,PO4,PSO2
CO3	Understand equilibrium in forex market.	PO5,PO9,PSO1,PSO3
CO4	Develop analytical and critical thinking skills and use them to judge the appropriateness of international trade policy options	PO5,PO6,PSO6
CO5	Understand terms of trade and gain from trade.	PO1
CO6	Gain knowledge about the BOP conditions of a nation and role of government intervention	PO8

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES316A	International Economics-II	2			2	3	2		3	3		3	2	3			3

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping																	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3			2	3		3	3	2		2	3	3	2	2		
CO2	3			2	3		3	3	2		2	3	3	2	2	2	
CO3	3		2	2	3		3	3	2		2	3	3	2	2	2	
CO4	3			2	3		3	3	2		2	3	3	2	2	2	
CO5	3			2	3		3	3	2		2	3	3	2	2	2	
CO6	3			2	3	3	3	3	2			3	3	2	2	2	
	1=lightly mapped					2= moderately mapped					3=strongly mapped						

SHES318A	Basics of Financial Markets	L	T	P	C
Version 1.0		5	1	0	6
Pre-requisites/Exposure	--				
Co-requisites	--				

Course Objectives

The objective of this course is to:

- Provide a self-contained study of the principles of financial economics & financial system.
- Provide understanding of the role of money & capital market & disposable surplus towards productive capacity for the growth of economy
- Understand the various financial organizations.
- It includes a critical discussion of the efficient markets theory, and an overview of quantitative methods in finance.

Course Outcomes

On completion of this course, the students will be able to:

CO1: Understand the general concepts of financial markets.

CO2: Analyze difference between primary and secondary markets and learn about markets for different products.

CO3: Understand Indicators and their influence on the markets.

CO4: Demonstrate the ability to make own investment decisions in the stock market.

CO5: Understand functioning of stock exchange.

CO6: Identify market risks and financial stocks.

Catalog Description

This course gives an introduction to financial markets and provides a comprehensive and accessible framework for understanding the valuation of a business and what drives its share price. In addition provide a practical introduction to prepare students for today's changing landscape of financial markets and institutions. This course aims to help students build the ability and knowledge to make their own decisions with their investment decisions in the stock market. The course shall create an understanding of the general concepts of financial markets and economy. The student will see the difference between primary and secondary markets and learn about markets for different products. They will also look at various economic Indicators and their influence on the markets. After completing this course, students will have a much stronger background of financial markets and ready to go to the next stage in the Specialization. This course will help those students also who have very little or no finance background to learn the basics of investments. Students will get a basic introduction to stocks as well as learn practical applications of how to invest. By the end of the course, students will not only know how to start investing on their own with a solid foundation. After completion of this course students shall have understanding of financial market and the valuation of a business and its share prices and have the ability and knowledge to make their own decisions with their investment decisions in the stock market.

Course Content

Unit II: 10 lecture hours

Financial System: Concept and functions of Financial System; Role of Financial Market and Institutions. Financial system and economic development, Equilibrium in Financial Markets, Assessment and management of risk and return in financial institutions. Interest Rate Analysis and yield curve.

Unit II: 10 lecture hours

Banking System: Meaning and Functions of Banking; Types of Banks; Commercial Banks, Banking law and regulation, Functions of RBI Credit and Monetary Planning. Capital Adequacy and NPAs.

Unit III: 10 lecture hours

Money Market: Introduction, Meaning Definitions, Characteristics and Functions of Money market; Call Money Market; Treasury bill market; Commercial Papers Market; Certificate of Deposit Market; Gilt edged Securities Market; Repo Market. Recent Developments in Indian Money Market.

Unit IV: 10 lecture hours

Capital Market: Introduction, Meaning, Objectives, Importance and Functions of Capital Market; Financial instruments and market functionaries in primary capital Market. Characteristics and Functions of Stock Exchange; Procedure for dealing at Stock Exchanges; Trading system- Clearing and settlement mechanisms; Concepts and Types of Derivatives; Futures and Options.

TEXT BOOKS

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Khan, M. Y. : Indian Financial System
3. Goldsmith, R. W. : Financial Structure and Development

REFERENCE BOOKS

1. Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York.
2. Smith, P.F. (1978), Money and Financial Intermediation: The Theory and Structure of
3. Financial System, Prentice Hall, Englewood-Cliffs, New Jersey.
4. Prasad. K. N. : Development of India's Financial System

Modes of Evaluation: Quiz/Assignment/ Attendance extempore/ Written Examination

Examination Scheme:

Components	Quiz I	Quiz II	Mid Term Exam	Attendance	End Term Exam
Weightage (%)	10	10	20	10	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Understand the general concepts of financial markets.	PO1,PO4,PO8
CO2	Analyse difference between primary and secondary markets and learn about markets for different products.	PO1,PO4,PO5

CO3	Understand Indicators and their influence on the markets.	PO1,PO4,PO5, PO9, PO10
CO4	Demonstrate the ability to make own investment decisions in the stock market.	PO4,PO8,PO9,PO1 0
CO5	Understand functioning of stock exchange.	PO9,PSO6
CO6	Identify market risks and financial stocks.	PO9,PSO6

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES318A	Basics of Financial Markets	3			3	2			3	3	3		3	2	2	3	2

1=weakly mapped
2= moderately mapped
3=strongly mapped

Programme and Course Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
C01	3			2		3			3				2	3	3	
C02	3			3	3				2					3	3	3
C03	3			3	3				3						3	3
C04	3			3	3	3			3	2					3	3
C05	3			3	3				2		2	2	2	3	3	3
C06	3			3	3	3			3	2					3	3
	1=lightly mapped			2= moderately mapped						3=strongly mapped						