



**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)**

**2020-23**

**Approved in the 23<sup>rd</sup> Meeting of Academic Council Held  
on 23 June 2020**



  
Registrar  
K.R. Mangalam University  
Sohna Road, Gurugram, (Haryana)



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## **PREFACE**

KRMU 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 a choice-based credit system as well as outcome-based curriculums for all its programs to provide a focused, student-centric syllabus with an agenda to structure teaching-learning experiences in a more outcome-based fashion.

The choice-based credit system not only offers opportunities and avenues to learn core subjects but also exploring additional avenues of learning beyond the core subjects for holistic development of an individual. The CBCS will undoubtedly facilitate benchmark our courses with the best international academic practices.

The outcome-based curriculum strengthens students' experiences and prepares the students for academia and employability, sustainability, and life-long learning. The Learning Outcomes-based Curriculum Framework (LOCF) works towards a more holistic experience for the students, while focusing not just on knowledge delivery in higher education but also on the application of knowledge through field and lab work and emphasizes on application of knowledge to real life experiences.

Each program 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 also skills for entrepreneurship.

The redesigned curriculum elaborates in-depth background knowledge required in the practice of Economics. We help students grow through rigorous learning and research and intensive programs.

Prepared by- Ms. Richa Aggarwal & Ms. Komal Yadav, Assistant Professor, Economics

Verified by- Dr. Kannu Priya, School Coordinator, SOHS

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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 of time, 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, education, journalism, management, media and other study streams.

The K.R. Mangalam story goes back to the chain of schools that offered an alternative option of 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 five departments (English, Economics, Psychology, Chinese and Historical Studies) 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 identify 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 with 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**

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

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

<b>SOHS</b>		<b>YEAR 2020-23 (SCHEME OF STUDIES) B.A(Hons)Economics</b>												
<b>Year</b>	<b>Odd Semester</b>							<b>Even Semester</b>						
	<b>SN</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>SN</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>First</b>	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	SHEL145A	COMMUNICATION SKILLS (AECC 1)	4	0	0	4		4	SHCH125A	ENVIRONMENTAL STUDIES (AECC2)	3	0	0	3	
	<b>TOTAL</b>			<b>19</b>	<b>3</b>	<b>0</b>	<b>22</b>		<b>TOTAL</b>			<b>18</b>	<b>3</b>	<b>0</b>	<b>21</b>	
<b>Seco nd</b>	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	SHDM301 A	Disaster Management (AEC 3)	3			3									
	<b>TOTAL</b>			<b>27</b>	<b>4</b>	<b>0</b>	<b>31</b>		<b>TOTAL</b>			<b>24</b>	<b>4</b>	<b>0</b>	<b>28</b>	
<b>Thir d</b>	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
<b>TOTAL</b>			<b>20</b>	<b>4</b>	<b>0</b>	<b>24</b>	<b>TOTAL</b>			<b>20</b>	<b>4</b>	<b>0</b>	<b>24</b>
										<b>TOTAL HOURS: LECT [L]+PRAC [P]+TUT [T] (EXCLUDING NO L, T, S, P COURSES)</b>			<b>150</b>
										<b>TOTAL CREDITS [C]</b>			<b>150</b>
<b>Group I- Discipline Specific Courses (DSE)</b>							<b>Group II- Discipline Specific Courses (DSE)</b>						
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				

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

## 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

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

## 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 Hill 1994
5. Communications in Tourism & Hospitality- Lynn Van Der Wagen, Publisher: Hospitality Press
6. Business Communication-K.K.Sinha
7. Essentials of Business Communication By Marey Ellen Guffey, Publisher: Thompson Press
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 Sheldon 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	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
SHEL145A	Communication Skills	3	2		2								3				2

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

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

### **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

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

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

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

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

## 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:**

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



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

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

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.	

## SEMESTER II

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

### **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

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

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.

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

## 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*, Macmilla 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
<b>CO1</b>	To understanding of the mathematical concepts and methods used by professional economists.	PO1,PO4,PO5,PO6,PO8, PSO2,PSO5,PSO6
<b>CO2</b>	To analyses economic models by using formal mathematical methods.	PO4,PO5,PO6,PO8, PSO2,PSO3,PSO5
<b>CO3</b>	To Construct LP models for various type of problems and Solve LP models by using graphical method.	PO1,PO4,PO9,PO10 PSO2,PSO3,PSO5,
<b>CO4</b>	To understand the economic applications by using Differential equation and difference equation	PO1,PO4,PO5,PO9,PO10, PSO2,PSO3,PSO5
<b>CO5</b>	Demonstrate knowledge and understanding of the underlying mathematical principles.	PO1, PO4,PO5
<b>CO6</b>	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.	

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

### 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)

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

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.

<b>SHES125A</b>	<b>Environmental Studies</b>	L	T	P	C
<b>Version 1.0</b>		3		0	3
<b>Pre-requisites/Exposure</b>	Basics of Environment				
<b>Co-requisites</b>	--				

## 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
SHES125A	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

### SEMESTER III

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

#### **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)

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

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

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

### **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 statics 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.
- 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.
- 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:**

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

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

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

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

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

### **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)**

<b>Mapping between COs and POs</b>		
	<b>Course Outcomes (COs)</b>	<b>Mapped Program Outcomes</b>
<b>CO1</b>	Students will gain a solid understanding of fundamental statistical concepts such as probability, hypothesis testing, sampling, and estimation	<b>PO1,PO5</b>
<b>CO2</b>	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.	<b>PO1, PO8,PO10,PSO4</b>
<b>CO3</b>	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.	<b>PO2,PO5,PO10</b>
<b>CO4</b>	To provide essential knowledge on the concept of random sample from a distribution, sampling distribution of a statistic, standard error, Statistical Tests.	<b>PO7,PO9</b>
<b>CO5</b>	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.	<b>PO1,PO8,PO10,PSO5</b>
<b>CO6</b>	Students will develop the ability to critically evaluate economic research studies that employ statistical methods.	<b>PO4,PO5,PSO3</b>

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.

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

### **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

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

## 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)

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

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHES211A	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

<b>SHDM301A</b>	<b>Disaster Management</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Version 1.0</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b>Pre-requisites/Exposure</b>	Basics of Disasters and control techniques				
<b>Co-requisites</b>	--				

<b>Programme and Course Mapping</b>																	
<b>CO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	<b>PSO6</b>	
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**

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#### **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:**

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

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

<b>Mapping between COs and POs</b>	
	<b>Course Outcomes (COs)</b>
	<b>Mapped Program Outcomes</b>

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

Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
SHDM301A	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

## SEMESTER IV

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

### **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.
- Dwivedi, 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)

<b>Mapping between COs and POs</b>		
	<b>Course Outcomes (COs)</b>	<b>Mapped Program Outcomes</b>
<b>CO1</b>	Understand of aggregate macroeconomic variables and determinants of macroeconomic conditions.	<b>PO1</b>
<b>CO2</b>	Integrate the role of fiscal and monetary policies in regulating economy.	<b>PO1, PO2,PO9,PSO2</b>
<b>CO3</b>	Apply the principle of Macroeconomics in explaining the behavior of Macroeconomic variables at national as well as global level.	<b>PO2,PO9,PSO5</b>
<b>CO4</b>	Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues.	<b>PO2,PO7,PO9,PSO 4</b>
<b>CO5</b>	Exposure to the theory and causes of business cycles.	<b>PO1,PO2</b>
<b>CO6</b>	Understand equilibrium in closed and open economy	<b>PO1,PO2</b>



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

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

## 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.l. 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
<b>CO1</b>	Understand OLS and identify what is common and what not with respect to least squares estimation.	<b>PO1,PO5</b>

<b>CO2</b>	Apply OLS to specific models policies in regulating economy.	<b>PO1, PO8,PO10,PSO4</b>
<b>CO3</b>	Estimate and test regression models for censored data.	<b>PO2,PO5,PO10</b>
<b>CO4</b>	Explain multicollinearity, heteroscedasticity, and serial correlation	<b>PO7,PO9</b>
<b>CO5</b>	Estimate and interpret linear regression models and be able to distinguish between economic and statistical importance.	<b>PO1,PO8,PO10,PSO 5</b>
<b>CO6</b>	Use econometric methods for forecasting.	<b>PO4,PO5,PSO3</b>

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						

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

## 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)**

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



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

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

## 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 Description** A 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: EntrepreneurialMegabuks; 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:**

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

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

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

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

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

## 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)

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



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

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

## 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. (4<sup>th</sup> 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)

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

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	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

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

## 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
<b>CO1</b>	Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.	<b>PO3,PSO1</b>
<b>CO2</b>	Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development	<b>PO4,PO8,PO9,PSO5</b>
<b>CO3</b>	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	<b>PO8,PO9,PSO1,PSO 2</b>
<b>CO4</b>	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.	<b>PO1,PO8</b>
<b>CO5</b>	To understand the past and present economic conditions of the country.	<b>PSO1</b>
<b>CO6</b>	To Identify major issues debates, or approaches concerning economy	<b>PSO2</b>



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

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

## 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 15 hours

**Theories of Economic Development**  
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 Economics, Seventh impression, Oxford University Press, New Delhi.
3. Todaro, Michael P. and Stephen C Smith., —Economic Development, 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)

<b>Mapping between COs and POs</b>		
	<b>Course Outcomes (COs)</b>	<b>Mapped Program Outcomes</b>
<b>CO1</b>	Explain development economic growth theories.	<b>PO1,PSO5</b>
<b>CO2</b>	Apply economic prescriptions to development, concerns like education, health, sanitation and infrastructural development.	<b>PO2,PO5,PO7,PSO3</b>
<b>CO3</b>	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.	<b>PO7,PO8,PO9,PSO1,PSO2</b>
<b>CO4</b>	Understand the models of economic growth.	<b>PO1,PO5,PO8,PO9</b>
<b>CO5</b>	Identify obstacles to economic development.	<b>PO2,PO8</b>
<b>CO6</b>	Understand the importance of economic decision making towards the objective of inclusive growth.	<b>PO2,PO7</b>

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

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

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

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



## SEMESTER VI

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

### **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

<b>CO1</b>	Examine the causes and remedies of various problems faced by the Indian economy like poverty, inequality, unemployment, inflation and black money.	<b>PO2,PSO1,PSO2</b>
<b>CO2</b>	Interpret the various measures of economic reforms.	<b>PO1,PO2,PO5,PSO 3</b>
<b>CO3</b>	Understand and Examine the process of economic planning in India.	<b>PO2,PO5,PO7</b>
<b>CO4</b>	To develop a perspective on the different problems and approaches to economic planning and development in India	<b>PO6,PO8,PO9,PSO 5</b>
<b>CO5</b>	To explain contemporary issues pertaining to the economy.	<b>PO1,PO7</b>
<b>CO6</b>	To identify the bottlenecks in the balanced regional and national development.	<b>PO7,PO8,PSO2</b>

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

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

## 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 Development, 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)

<b>Mapping between COs and POs</b>		
	<b>Course Outcomes (COs)</b>	<b>Mapped Program Outcomes</b>
<b>CO1</b>	To provide a critical reading of the current literature on the empirical economics of development.	<b>PO1,PO5,PSO3</b>
<b>CO2</b>	Examine the aspects that have been at the core of development policy over time and how they relate to dominant development ideas today..	<b>PO3,PO8,PSO2</b>
<b>CO3</b>	Understand and Examine the process of economic planning in India.	<b>PO2,PO6,PSO5</b>
<b>CO4</b>	Describe different choice of techniques and different growth models and their relevance.	<b>PO9,PSO6</b>
<b>CO5</b>	To explain contemporary issues pertaining to the industrialization in the developing economies.	<b>PO1,PO2,PSO2</b>
<b>CO6</b>	To identify the bottlenecks in the balanced economic development.	<b>PO2,PSO2</b>

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



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

### 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)

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

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

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

## 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
<b>CO1</b>	Understand the general concepts of financial markets.	<b>PO1,PO4,PO8</b>
<b>CO2</b>	Analyse difference between primary and secondary markets and learn about markets for different products.	<b>PO1,PO4,PO5</b>
<b>CO3</b>	Understand Indicators and their influence on the markets.	<b>PO1,PO4,PO5, PO9, PO10</b>
<b>CO4</b>	Demonstrate the ability to make own investment decisions in the stock market.	<b>PO4,PO8,PO9,PO10</b>
<b>CO5</b>	Understand functioning of stock exchange.	<b>PO9,PSO6</b>
<b>CO6</b>	Identify market risks and financial stocks.	<b>PO9,PSO6</b>

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



