



## **Avinashilingam Institute for Home Science and Higher Education for Women**

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)  
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India

### **Department of Economics**

#### **B.A. Economics**

##### **Programme Outcomes**

1. Ability to communicate thoughts and ideas in standard academic languages.
2. Capacity to critically analyse texts in literary, cultural, artistic, social –historical and theoretical context.
3. Develop creativity and novelty.
4. Understand the importance of ethical values and its application in professional life and decision-making.
5. Acquire knowledge and skills to appear for competitive examinations.
6. Develop team spirit and leadership qualities.
7. Application of learning to real life situations.
8. Enhance personality development and cultural values through education.
9. Equip with necessary employability skills.
10. Proper understanding of relevant policies.

##### **Programme Specific Outcomes (PSOs)**

1. Apprehend the significance of economic theories in practice.
2. Develop skills for analysing economic data on policy issues.
3. Create foundation for facing competitive examination and pursuing lifetime learning.



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)  
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India

**B.A. Economics**  
**Scheme of instruction & Examinations**  
(for students admitted from 2023 -2024 & onwards)

Part	Subject Code	Name of paper/Component	Hours of instruction/ Week	Scheme of Examination				
				Duration of exam	CIA	CE	Total	Credit
<b>First Semester</b>								
I	23BLT001/ 23BLH001/ 23BLF001	பொதுத்தமிழ் தாள் I - இக்கால இலக்கியம் / Prose and Non Detailed Texts / French I	2	3	50	50	100	2
II	23BAEEC1	<b>Ability Enhancement Compulsory Course – I</b> English for Communication	4	3	50	50	100	4
	<b>Generic Elective</b>							
	<b>Generic Elective - I</b>		5T + 1/4+4	3	50	50	100	6
III	<b>Discipline Specific Core Courses</b>							
	23BECC01	Microeconomics I	5Th+1Tu	3	50	50	100	6
	23BECC02	Mathematics for Economics	5Th+1Tu	3	50	50	100	6
	<b>Skill Enhancement Course</b>							
IV	23BVBNC1/ 23BVBNS1/ 23BVBSP1/	<b>Value Based Elective Course I –</b> NCC /NSS /Sports	3 /2	2	60	40	100	4/1/1
IV	23BECPD1	<b>Professional Development Course</b> Current Economic Affairs in India	5	-	100	-	100	Remarks
		Games – Practical	1	-	-	-	-	
<b>Total</b>								<b>28 / 25</b>
<b>Second Semester</b>								
I	23BLT002/ 23BLH002/ 23BLF002	பொதுத்தமிழ் தாள் II - அற இலக்கியம் / Grammar, Translation and General Essay / French II	2	3	50	50	100	2
II	23BAEES1	<b>Ability Enhancement Compulsory Course – II</b> Environmental Studies	4	3	50	50	100	4
	<b>Generic Electives</b>							
	<b>Generic Elective- II</b>		5+1	3	50	50	100	6
	23BENGE2A/ 23BENGE2B/ 23BENGE2C/ 23BENGE2D	Introduction to Literature / British Literature / Modern Indian Literature / New Literatures in English						
III	<b>Discipline Specific Core Courses</b>							
	23BECC03	Microeconomics II	5Th+1Tu	3	50	50	100	6
	23BECC04	Statistical Methods	5Th+1Tu	3	50	50	100	6
	<b>Skill Enhancement Course</b>							
IV	23BVBNC2/ 23BVBNS2/ 23BVBSP2	<b>Value Based Elective Course I –</b> NCC /NSS /Sports	3 /2	2	60	40	100	4/1/1
IV	23BECPD2	<b>Professional Development Course</b> Financial Markets and Financial Institutions	5	-	100	-	100	Remarks
		Games – Practical	1	-	-	-	-	
<b>Total</b>								<b>28 / 25</b>

Part	Subject Code	Name of paper/Component	Hours of instruction/ Week	Scheme of Examination				
				Duration of exam	CIA	CE	Total	Credit
<b>Third Semester</b>								
I	23BLT003/ 23BLH003/ 23BLF003	பொதுத்தமிழ் தாள் III - சமய இலக்கியம் / Ancient and Modern Poetry / French III	2	3	50	50	100	2
II	<b>Generic Elective</b>							
	<b>Generic Elective III</b>		5+1/4+4	3	50	50	100	6
III	<b>Discipline Specific Core Courses</b>							
	23BECC05	Macroeconomics I	5Th+1Tu	3	50	50	100	6
	23BECC06	Public Finance	5Th+1Tu	3	50	50	100	6
	<b>Skill Enhancement Courses</b>							
IV	23BSBS1	<b>Skill Based Compulsory Course I Communication Skill</b>	4P	3	50	50	100	2
		<b>Skill Based Elective Course – II</b>	4P	3	50	50	100	2
	23BVBNC3/ 23BVBNS3/ 23BVBSP3	<b>Value Based Elective Course I – NCC /NSS /Sports</b>	3/2	2	60	40	100	4/1/1
		<b>Value Based Elective Course II</b>	2	-	100	-	100	2
<b>Total</b>								<b>30</b>
<b>Fourth Semester</b>								
I	23BLT004/ 23BLH004/ 23BLF004	பொதுத்தமிழ் தாள் IV - சங்க இலக்கியம் / Introduction to Functional Hindi and Journalism / French IV	2	3	50	50	100	2
II	<b>Generic Elective</b>							
	<b>Generic Elective IV</b>		5T+1Tu/4+4	3	50	50	100	6
III	<b>Discipline Specific Core Courses</b>							
	23BECC07	Macroeconomics II	5Th+1Tu	3	50	50	100	6
	23BECC08	Economics of Growth and Development	5Th+1Tu	3	50	50	100	6
IV	<b>Skill Enhancement Courses</b>							
	23BSBS1	<b>Skill Based Compulsory Course III Soft Skill</b>	4P	3	50	50	100	2
		<b>Skill Based Elective Course – IV</b>	4P	3	50	50	100	2
	23BVBNC4/ 23BVBNS4/ 23BVBSP4	<b>Value Based Elective Course I – NCC /NSS /Sports</b>	3/2	2	60	40	100	4/1/1
		<b>Value Based Elective Course III</b>	2	-	100	-	100	2
<b>Total</b>								<b>30</b>
<b>Internship / Project and Internship during summer vacation</b>								
<b>Fifth Semester</b>								
III	<b>Discipline Specific Core Courses</b>							
	23BECC09	Money, Banking and International Economics	5T+1Tu	3	50	50	100	6
	23BECC10	Econometrics I – Theory and Practical (SPSS, R and Machine Learning)	4 T+4 P	3	50	50	100	6
	<b>Discipline Specific Elective Courses</b>							
	23BECDE1	Internship / Project and Internship	2	-	100	-	100	6
	23BECDE2 - 23BECDE3	DSE – II Theory + Practical / Theory + Tutorial	5T+1Tu	3	50	50	100	6
IV	<b>Skill Enhancement Courses</b>							
	23BVBNC5/ 23BVBNS5/ 23BVBSP5	<b>Value Based Elective Course I – NCC /NSS /Sports</b>	3/2	2	60	40	100	4/1/1
	23BECPD3	<b>Professional Development Course Tamil Nadu Economy</b>	4	-	100	-	100	Remarks
<b>Total</b>								<b>28</b>

Sixth Semester								
III	<b>Discipline Specific Core Courses</b>							
	23BECC11	Econometrics II – Theory and Practical (SPSS, R and Machine Learning)	4 T+4 P	3	50	50	100	6
	23BECC12	Economic Thought	5T+1Tu	3	50	50	100	6
	<b>Discipline Specific Elective Courses</b>							
	23BECDE4 - 23BECDE5	DSE – III Theory + Practical / Theory + Tutorial	5T+1Tu	3	50	50	100	6
	23BECDE6 - 23BECDE7	DSE – IV Theory + Practical / Theory + Tutorial	4 T+4 P/ 5T+1Tu	3	50	50	100	6
	IV	<b>Skill Enhancement Courses</b>						
23BVBNC6/ 23BVBNS6/ 23BVBSP6		<b>Value Based Elective Course I –</b> NCC /NSS /Sports	3 /2	2	60	40	100	4/1/1
23BECPD4		<b>Professional Development Course</b> Economics of Entrepreneurship	4T+2Tu	-	100	-	100	Remarks
							<b>Total</b>	<b>28</b>
							<b>Overall Total</b>	<b>172</b>

➤ **Ability Enhancement Compulsory Courses**

- English for Communication
- Environmental studies

➤ **Skill Enhancement courses** are Skill Based and / or Value Based which are aimed at providing hands on training, competencies, skills etc. and may be opted by the students from the electives offered by the departments or from SWAYAM MOOCs / NPTEL.

**Skill Based courses**

- **Skill Based Compulsory course I – 23BSBCS1 – Communication Skill** during 3<sup>rd</sup> semester
- **Skill Based Compulsory course III - 23BSBS1 – Soft Skill** during 4th semester

**Skill Based Elective Courses offered by Economics Department**

S.No	Skill Based Elective courses (II / IV)	Semester	Hours of Instruction	Credits
			Theory + Practical / Theory + Tutorial	
1.	23BECSE1 - Computer Applications in Economics	3	4P	2
2.	23BECSE2 - Statistical Methods	4	4P	

**Value Based Elective Course I**

Value Based Elective Course I	Subject Code	Semester	No. of Credits
NCC/ NSS/ Sports	23BVBNC1-6/ 23BVBNS1-6/ 23BVBSP1-6	1- 6	24 Credits
			6 Credits
			6 Credits

**Value Based Elective Course II and III offered by Economics Department**

Value Based Elective Course II and III	Subject Code	Semester	Hours of Instruction	Credit / Course
1. General Studies for Competitive Examinations	23BECVB1	3	2	2
2. Human Rights and Issues	23BECVB2	4	2	2

➤ **Discipline Specific Elective Courses** should be related to their own core which may be from SWAYAM MOOCs / NPTEL also

- All the courses have 6 credits with 4 hours of theory and 4 hours of practicals or 5 hours of theory and 1 hour of Tutorials.

S.No	DSE Courses	Semester	Hours of Instruction	Credits
			Theory + Practical / Theory + Tutorial	
1.	23BECDE1 - Internship / Project and Internship	5	2	6
2.	23BECDE2 - Industrial Economics	5	5 T +1 Tu	
3.	23BECDE3 - Urban Economics	5	5 T +1 Tu	
4.	23BECDE4 - Health Economics	6	5 T +1 Tu	
5.	23BECDE5 - Environmental Economics	6	5 T +1 Tu	
6.	23BECDE6 - Data Analysis with Excel and SPSS	6	4 T+ 4 P	
7.	23BECDE7 - Economics of Infrastructure	6	5 T +1 Tu	

- **Generic Elective Courses** offered for other disciplines / departments
- A Core Course offered in a Discipline / Subject may be offered as a Generic Elective for other departments.

\* **Generic Elective Courses offered by Economics Department for other Disciplines / Departments**

S.No	Generic Elective Courses	Semester	Hours of Instruction	Credits
			Theory + Practical / Theory + Tutorial	
1	23BECGE1 - Current Economic Affairs	I,III,IV,VI	5+1	6
2	23BECGE2 - Financial Markets and Financial Institutions	I,III,IV,VI	5+1	
3	23BECGE3 - Health Economics	I,III,IV,VI	5+1	
4	23BECGE4 - Statistics with SPSS	I,III,IV,VI	4+4	
5	23BECGE5 - Data Analysis with Excel and SPSS	I,III,IV,VI	4+4	
6	23BECGE6 - Economics of Infrastructure	I,III,IV,VI	5+1	
7	23BECGE7 – Indian Polity and Economy	I,III,IV,VI	5+1	
8	23BECGE8 - Economics of Entrepreneurship	I,III,IV,VI	5+1	
9	23BECGE9 - Microeconomics	I,III,IV,VI	5+1	
10	23BECGE10 - Macroeconomics	I,III,IV,VI	5+1	
11	23BECGE11 - Business Statistics and Business Mathematics	I,III,IV,VI	5+1	
12	23BECGE12 - Basic Econometrics with Computer Applications	I,III,IV,VI	4+4	

**Total credits to earn the degree**

1. Part I components – 8 Credits (Languages)
2. Part II components – 32 Credits [Ability Enhancement compulsory Courses – 8 Credits and Generic Elective Courses– 24 Credits]
3. Part III components – 96 Credits (Discipline Specific Core Courses – 72 Credits and Discipline Specific Elective Courses - 24 Credits)
4. Part- IV Skill Enhancement Courses – 36/18 Credits (Skill Based Courses – 8, Value Based Elective Course I (NCC/NSS/Sports) –24/6/6, Value Based Elective Course II & III – 4 Credits)

**5. Minimum One Course should be from SWAYAM MOOCs/ NPTEL.**

# One to 4 Courses may be from SWAYAM MOOCs/NPTEL for Credit Transfer in DSE / Generic Elective / Skill Enhancement Courses.

S. Singh  
05.02.2024

APR  
5/2/2024

M. S. Srinivasan  
05/02/24

R. Srinivasan

## Microeconomics I

Semester – I

23BECC01

Hours of Instruction / Week: 5+1

No. of Credit: 6

### Objectives

1. To acquaint the students with fundamental concepts and principles.
2. To make the students understand the behaviour of consumer.
3. To make them understand the behaviour of firm.

### Unit I: Theory of Consumer Behaviour

18hrs.

Utility- Meaning and measurement of utility, Law of diminishing marginal utility, Law of equi-marginal utility, Limitations of utility analysis

### Unit II: Demand Analysis

18hrs.

Law of demand; Individual and Market demand; Demand curve; Factors affecting demand, Movements along demand curve and shifts of demand curve; Elasticity of demand; Consumers surplus

### Unit III: Indifference curve analysis

18hrs.

Indifference curve approach, Properties of indifference curve; Marginal rate of commodity substitution; Consumer equilibrium; Price effect; Income effect; Substitution effect; Merits and demerits of indifference curve analysis – Choices under Uncertainty – Inter - temporal Choice

### Unit IV: Production

18hrs.

Factors of production; Production function; Cobb-Douglas production function, CES (**Mathematical form and basic information**)- Iso- quants; Producer's equilibrium; Law of variable proportions; Returns to scale; Law of Supply, Factors affecting supply; Elasticity of supply.

### Unit V: Cost and Revenue

18hrs.

Meaning and types of cost; Short-run and long run average and marginal cost; Meaning and types of revenue; Nature of revenue curves.

**Total Hours.90**

### Text Books:

1. N. Mankiw (2013), Principles of Microeconomics (Mankiw's Principles of Economics) South-Western College Publishing
2. Robin Krugman, Paul & Wells (2015), Microeconomics, Palgrave Macmillan
3. Hal R. Varian (2010), Intermediate Microeconomics – A Modern Approach, W.W. Norton & Company, New York.
4. Sanjay Basotia (2010), Microeconomics -Principles, Applications and Tools, DNO publications, Jaipur.
5. Robert Pindyck and Daniel Rubinfeld (2017), Microeconomics, Pearson Publication.

**Reference Books:**

1. Gravelle,H. and Rees,R (2012), **Microeconomics**, Dorling Kindersley, New Delhi.
2. John.B. Taylor and RittiaGughani (2008), **Principles of Microeconomics**, Biztantra, Publications, New Delhi.
3. Koutsoyiannis, A. (2007), **Modern Microeconomics**. Macmillan press Ltd, London.
4. Gregory Mankiw P (2009), **Principles of Microeconomics**, Worth Publishers, New York

**Course Outcomes:**

**CO1:** Have knowledge on the basic concepts in microeconomics.

**CO2:** Understand the behaviour of consumers and producers in market conditions.

**CO3:** Able to examine the practical relevance of economic theories.

**CO4:** Have ability to analyse current events from an economic perspective.

**CO5:** Develop knowledge that provides a foundation for pursuing lifelong learning.

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	H	M	M	L	M	-	M	-	M	L	H	L	M
CO2	H	M	M	H	H	M	H	M	H	H	H	H	M
CO3	H	M	M	H	H	H	H	M	H	H	H	H	H
CO4	H	H	H	H	H	M	M	M	M	M	H	H	H
CO5	M	M	M	M	M	M	M	H	M	M	M	M	M

## Mathematics for Economics

Semester – I  
23BECC02

Hours of Instruction / Week: 5+1  
No. of Credit: 6

### Objectives

1. To give an insight on basic mathematical techniques
2. To acquire knowledge about the linkage between mathematical techniques and economics.
3. To understand the application of mathematical techniques in economic analysis.

### Unit I: Set theory

18 hrs

Set Theory-Meaning of set, Types of sets- Subsets; Set operations- Union of two sets, Intersection of two sets; Laws of set operations; Applications of set operations

### Unit II: Matrix Algebra

18 hrs

Matrices-Types of matrices; Addition, subtraction, multiplication of matrices; Trace of a matrix; Determinants-Properties; Minor and cofactor elements; Rank of a matrix; Inverse of a matrix; Solution of simultaneous equations –Matrix method, Cramer's rule.

### Unit III: Differentiation

18 hrs

Differentiation- Rules - Power rule, addition, subtraction rule, product rule, quotient rule, chain rule ; Higher order derivatives; Economic applications of differentiation-Marginal revenue, marginal cost, Elasticity of demand; Maxima and minima of a function- Finding maximum profit, Minimum cost; the relationship between Average Cost and Marginal Cost.

### Unit IV: Partial Derivatives

18 hrs

Partial derivatives - Techniques; Higher order partial derivatives; Economic applications - Marginal utility, Marginal cost

### Unit V: Integration, Difference and Differential Equations

18 hrs

Integration – Techniques, Simple methods, Additions and Subtractions; Definite integral; Applications in economics– Total cost, total revenue, Consumers surplus, Producers surplus - Difference and Differential Equations

**Total Hours: 90**

### Text Books:

1. **Carl P Simon Lawrence Blume (2018)**, Mathematics for Economists, Malcolm Pemberton & Nicholas Rau Publisher
2. **Michael Klein (2013)**, Mathematical Methods for Economics, Pearson New International Edition (Pearson Education Limited)
3. **Agarwal .S (2010)**, Mathematical Economics, Sultan Chand, New Delhi.

### Reference Books:

1. **Geoff Renshaw (2016)**, Maths for Economics, Oxford University Press
2. **Arson Mel kumian (2011)**,Mathematical Economics, Sultan Chand, New Delhi
3. **Alpha.C.Chiang (2005)**, Fundamental methods of Mathematical Economics, McGraw-Hill company New Delhi



**Course Outcomes:**

1. **CO1:** Be familiar with the basic concepts in set theory and matrix algebra
2. **CO2:** Be conversant with the technique of matrix algebra.
3. **CO3:** Know basic rules of differentiation and integration
4. **CO4:** Comprehend the role of matrix in Economics
5. **CO5:** Understand the use of derivatives and integration in Economics

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	M	M	-	H	M	L	H	-	H	M	H	H	H
CO2	M	L	M	M	H	L	H	L	H	M	H	H	H
CO3	H	M	-	M	H	M	H	-	M	M	H	H	H
CO4	M	M	L	M	M	L	M	-	M	M	H	H	H
CO5	M	M	-	M	M	-	M	-	M	L	H	H	H

**Professional Development Course  
Current Economic Affairs in India**

**Semester - I**

**23BECPD1**

**Hours of Instruction / Week: 5**

**No. of Credits: Remarks**

**Objectives:**

1. To understand current economic issues
2. To familiarize the students on agricultural and industrial development.
3. To expose the students to the operations of Monetary and Fiscal Policies

**Unit I: Introduction to Indian Economy**

**15 hrs.**

Basic characteristics and features of Indian economy; Old and new concepts of measuring national income and its implications

**Unit II: Agriculture**

**15 hrs.**

Role of Agriculture in Indian Economy-Cropping pattern-Agricultural Production and productivity-Land reforms- New Agricultural Strategy- Agricultural finance- Agricultural marketing- Agricultural policy

**Unit III: Industry and Service**

**15 hrs.**

Pattern of Industrialization in India- Small scale industries- Large scale industries-New Industrial Policy- Globalisation and Industrial Development-Role of Service Sector in Indian Economy

**Unit IV: Monetary and Fiscal Policy**

**15 hrs.**

Objectives and instruments of Monetary policy-objectives and instrument of Fiscal policy- Monetary and fiscal policy in India- Fiscal system; Centre and State Financial relation; Current Tax Reforms in India

**Unit V: Economic Reforms**

**15 hrs.**

New Economic Reforms; Multinational Corporations; Structural Adjustment Programme (SAP)

**Total hours: 75**

**Course Outcomes:**

- CO1:** Know the basic features of Indian economy.  
**CO2:** Comprehend the significance of agriculture and industry in economic development.  
**CO3:** Evaluate the recent monetary and fiscal policy.  
**CO4:** Review the recent tax reforms in India.  
**CO5:** Assess the impact of economic reforms on Indian economy.

**Text Books:**

1. Dutt, Ruddar and K.P.M. Sundharam (2017), *Indian Economy*, S. Chand & Company Ltd., New Delhi
2. Gaurav, D. and M. Ashwini (2016) *Indian Economy*, S. Chand & Co. Ltd., New Delhi
3. Kapila, Uma (ed) (2007), *Indian Economy – Performance and Policies*, Academic Foundation, New Delhi

**Reference Book:**

1. Subba Reddy (2010), *Agricultural Economics*, Oxford and IBH Publishing Company Pvt Ltd, New Delhi.
2. Dhingra, I.C. (2013). *The Indian Economy: Environment and Policy*, Sultan Chand & Sons, New Delhi.
3. Puri, V, K. & Mishra, S, K. (2015) *Indian Economy*, Himalaya publishing house, New Delhi.

Semester – II  
23BECC03

**Microeconomics II**

Hours of Instruction / Week: 5+1  
No. of Credits: 6

**Objectives**

1. To enable the students to understand concepts related to price determination in different market structure.
2. To acquaint them with the determination of factor rewards.
3. To comprehend the implications of market and factor pricing models.

**Unit I: Market**

**18hrs.**

Classification of markets; size of market; Very short run, short run, long run

**Unit II: Perfect Competition**

**18hrs.**

Features of perfect competition; Equilibrium of the firm; Equilibrium of an industry-Role of time element in price determination

**Unit III: Imperfect Competition**

**18hrs.**

Monopoly- short run and long run equilibrium- Discriminating monopoly; Monopolistic competition- Selling cost, product differentiation; Oligopoly; kinked demand curve; Duopoly - Cournot's model.

**Unit IV: Theory of distribution**

**18hrs.**

Determination of factor rewards-Marginal productivity theory of distribution; Product Exhaustion theorem- Rent-Ricardo's theory of rent, Quasi Rent; Theories of Wages

**Unit V: Interest and Profits**

**18hrs.**

Interest-Classical theory, Liquidity Preference theory; Theories of Profit; Schumpeter's innovation theory, Dynamic theory of profit

**Total Hours: 90**

**Text Books:**

1. **Sanjay Basotia (2010)** Microeconomics Principles, Applications and Tools, DNB publications, Jaipur.
2. **Dominick Salvatore (2009)**, Microeconomics Theory and Applications, Oxford University Press, New York
3. **Koutsoyiannis, A. (2007)**, **Modern Microeconomics**, Macmillan press Ltd, London

**Reference Books:**

1. **Jeffrey Perloff (2016)** Microeconomics: Theory and Applications with Calculus, The Pearson Series in Economics
2. **Gravelle, H and R.Rees (2012)**, **Microeconomics**, Dorling Kindersley, Pvt Ltd, Licensees of Pearsons Education in South Asia
3. **John, B. Taylor and Rilke Gughani (2008)**, **Principles of Microeconomics**, Biztantra Publishers, New Delhi

**Course Outcomes:**

**CO1:** Know the concepts of market and time element.

**CO2:** Understand the working of different market structure.

**CO3:** Identify the fundamental concept in factor pricing.

**CO4:** Comprehend the theories of factor pricing

**CO5:** Assess the relevance of market and factor pricing models in the current scenario.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	M	M	L	H	M	M	H	M	H	M	H	H	H
CO2	M	M	M	H	M	H	H	M	H	H	H	H	H
CO3	H	M	-	H	M	H	M	M	M	M	H	H	H
CO4	M	H	-	M	M	M	M	M	M	H	H	H	H
CO5	H	H	L	H	M	M	M	L	M	H	H	H	H

## Statistical Methods

Semester – II

Hours of Instruction / Week: 5+1

23BECC04

No. of Credit: 6

### Objectives

1. To introduce students to basic statistical tools and techniques.
2. To familiarise them to the application of these techniques in analysing economic data.
3. To develop skills for carrying out empirical research.

**Unit I: Nature and Scope of statistics, Classification and Tabulation of data** **18 hrs.**

Definition, Uses and Limitations of Statistics; Collection of Data- Primary and Secondary Data, Methods of collecting Primary Data-Sampling and sampling methods- Frequency Distribution; Diagrammatic and Graphic representation of data; Types of Bar diagram- Pie diagram, Histogram, Frequency curve, Frequency Polygon, Cumulative Frequency Curves

**Unit II: Measures of Central Tendency and Dispersion** **18hrs.**

Measures of Central Tendency-Mean, Median, Mode, Geometric mean, Harmonic Mean, Measures of Dispersion- Inter -Quartile Range, Mean Deviation, Standard Deviation, Co-efficient of variation, Lorenz Curve; Measures of Skewness - Karl Pearson's co- efficient of Skewness, Bowley's co- efficient of Skewness.

**Unit III: Hypothesis and testing of Hypothesis** **18hrs.**

Hypothesis, Meaning, Testing of hypothesis - t test, one sample t test, independent sample t test, two related sample t test, Chi square test, Analysis of Variance.

**Unit IV: Correlation** **18hrs.**

Correlation- Meaning, Types; Methods of correlation - Scatter Diagram, Karl Pearson's Co-efficient of correlation, Rank correlation.

**Unit V: Regression** **18hrs.**

Regression- Regression lines, Least Squares Method, Standard Error of Estimate.

**Total Hours: 90**

### Text Books:

1. **James T. McClave, P. George Benson and Terry L. Sincich (2020)**, Statistics for Business and Economics: Pearson New International Edition
2. **Gupta S.P (2006)**, "Statistical Methods", Sultan Chand & Sons., New Delhi.
3. **Agarwal, D.R. (2002)**, "Statistics for Economists", Vrinda Publications, New Delhi.

### Books for Reference:

1. **James T. McClave and Terry Sincich (2005)** Statistics for Business and Economics: Pearson New International Edition, United States Edition
2. **Medhi, J.(2006)** Statistical Methods – An Introductory Text, New Age International Pvt. Ltd., New Delhi.
3. **Pillai, R.S.W. and Bagawathi (2004)**, Statistics Theory and Practice, Sultan Publishers

**Course Outcomes:**

**CO1:** Enhance knowledge on the concept of statistics and the ways of mobilizing data.

**CO2:** Gain knowledge on the various methods of presenting data.

**CO3:** Acquire skills in calculating basic statistical parameters independently

**CO4:** Assess the ways of measuring the inter- relationship among variables

**CO5:** Interpret the calculated statistical indicators based on the acquired knowledge.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO 1	M	H	-	H	H	M	H	M	H	H	H	H	H
CO 2	H	H	H	H	H	H	H	M	H	H	H	H	H
CO 3	H	H	H	H	H	H	M	M	H	H	H	H	H
CO 4	M	H	H	H	H	H	H	H	M	M	H	H	H
CO 5	H	H	M	H	H	H	M	H	M	M	H	H	H

**Professional Development Course**  
**Financial Markets and Financial Institutions**

Semester - II  
23BECPD2

Hours of Instruction/week: 5  
No. of Credits: Remarks

**Objectives:**

1. To provide knowledge about the functions and significance of financial markets.
2. To expose students to the working of money and capital markets in India.
3. To provide insight about the various financial institutions operating in India.

**Unit I: Financial Markets- An Introduction**

**15 hrs.**

Meaning- Types of Financial Markets- composition of Financial Markets – Efficiency of Financial Market - Functions of Financial Markets and Institutions- Working of Financial Markets and Economic Development

**Unit II: Money Market**

**15 hrs.**

Meaning and Features – Institutions of Money market – Instruments of Money market – Working of Money Market – Functions of Money Market - characteristics of undeveloped and Developed Money Market.

**Unit III: Capital Market**

**15 hrs.**

Meaning – Types of Capital market – Role of Capital Market – Capital Market Instruments – Participants in Capital Market – SEBI and Regulations of Capital Market – Reforms in Capital Market

**Unit IV: Stock Exchanges**

**15 hrs.**

Introduction – Classification of Stock Markets and securities – Primary Market – Secondary Equity market – Types of Investors in Stock Market – Major Policy Developments in Equity Market in India – Measures to Develop Equity Market – Drawbacks of Indian Stock Market.

**Unit V: Non-Banking Financial Institutions**

**15hrs.**

Meaning – Classification and types – Evolution of Non-bank Financial companies (NBFCs) – Difference between NBFCs and Banks – Role of NBFCs – Regulatory Framework of NBFCs – Current Scenario of NBFCs – Resources of NBFCs – Performances of Selected NBFCs: Chit Funds, Investment Companies, Loan Companies and Micro Finance Institutions.

**Total Hours: 75**

**Books for Study**

1. **L M Bhole (2010) Financial Institutions and Markets: Structure, Growth and Innovation**, Tata McGraw- Hill Publishing company Limited
2. **S.Gurusamy (2009), Financial Markets and Institutions**, McGraw Hill, New Delhi.

**Books for Reference**

1. **Bhole, L.M., (2014), Financial Markets and Institutions**, Tata McGraw Hill Publishing Company
2. **Frederic S. Mishkin and Stanley G.Eakins (2011), Financial Markets and Institutions**, Pearson, New Delhi.
3. **Khan, M.Y., (1995), Indian Financial System-Theory and Practice**, New Delhi: Vikas Publishing House.

**Course Outcomes:**

- CO1:** Acquire basic knowledge of the features of the Indian financial system.
- CO2:** Apprehend the structure and functioning of Indian money and Capital markets.
- CO3:** Comprehend the interlink between money market and capital market
- CO4:** Be familiar with the operation of stock exchange market in India.
- CO5:** Critically review the functioning of non-banking financial intermediaries.



## Macroeconomics I

Semester – III

23BECC05

Objectives

Hours of Instruction/week: 5+1

No. of Credit: 6

1. To teach the fundamentals of macroeconomics for proper understanding of other courses.
2. To enable the students to understand the structure and working of the economy
3. To familiarize the students with the basics of macroeconomics and its policy implications.

### Unit I Introduction

18hrs

Nature and scope of macroeconomics, Difference between micro and macroeconomics, Methods of macroeconomics; Basic concepts;

### Unit II National Income

18hrs

National income – Definitions, Concepts of national income, Approaches to GNP, Methods of measuring national income; Difficulties in measuring national income, Importance of national income analysis- Circular Flow of income- Green accounting- Social income accounting- Green GDP.

### Unit III Classical Theory of Employment

18hrs

Classical theory of employment- Assumptions, Say's law of markets; Flexibility of wages; interest rates and price level; Keynes objections.

### Unit IV Keynes General Theory of Employment

18hrs

Keynes general theory of employment -Aggregate demand function, Aggregate supply function, Determination of effective demand, Importance of effective demand, Criticisms of Keynesian Theory

### Unit V Consumption Function

18 hrs

Meaning, Properties of consumption function, Significance; Keynes Psychological Law of Consumption-Implications, Factors determining consumption, Measures to raise the propensity to consume.

**Total Hours: 90**

### Text Books:

1. Gregory Mankiw N (2009), Macroeconomics, Worth Publishers, New York.
2. Richard T Froyen (2001), Macroeconomic Theory and Policy, Pearson Education, Singapore.
3. Shapiro Edwin (1996), Macroeconomic Analyses, Golgotia Publication Pvt.Ltd, New Delhi.

### Reference Books:

1. Branson.H.William (1998), Macroeconomic Theory and Policy, United book stall, New Delhi.
2. Heijdra and U.P Fredrick (2001), Foundation of Modern Macroeconomics, Oxford University press, New Delhi.
3. Robert, J.Gordon (2011), Macroeconomics, PHI Learning, Pvt. Ltd., New Delhi.

**Course Outcomes:**

**CO1:** Know the functioning and linkages of different sectors and their contribution to national income

**CO2:** Understand the theories in Macro Economics from Classical and Keynesian perspective

**CO3:** Evaluate the relevance of classical and Keynesian theories to Indian conditions

**CO4:** Comprehend the various determinants of macroeconomic variables

**CO5:** Apply the various principles of macroeconomics for setting goals and policies

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	H	M	H	H	M	H	-	-	H	M	H	M	H
CO2	H	H	H	H	H	H	-	-	H	L	H	H	M
CO3	H	H	H	H	H	H	M	H	M	M	H	H	H
CO4	H	H	H	H	H	H	-	H	H	M	H	H	H
CO5	H	H	H	H	H	H	L	L	H	L	H	H	M

Semester – III  
23BECC06

**Public Finance**

Hours of Instruction / Week: 5+1  
No. of Credit: 6

**Objectives:**

1. To provide an understanding of the basic issues relating to public revenue and expenditure.
2. To explain the debt management, budget preparation and federal finance in India.
3. To comprehend the significance of fiscal policy in achieving stabilisation.

**Unit I Nature and Scope of Public Finance**

**18hrs**

Meaning – Functions of public finance, Private and Public Finance, Principle of Maximum Social Advantage; Public Goods; Private Goods; Merit goods

**Unit II Public Revenue**

**18hrs**

Meaning – Classification - Tax and Non Tax, Canons of Taxation-Theories of taxations- Direct and Indirect Taxes, Progressive, Proportional, Regressive, Specific, Advalorem; GST –Effects of taxation.

**Unit III Public Expenditure**

**18hrs**

Meaning, Types of public expenditure, Canons of Public Expenditure; Wagner's Law; Wiseman Peacock Hypotheses; Reasons for Growth of Public Expenditure in India, Effects of public expenditure

**Unit IV Public Debt**

**18hrs**

Meaning, Classification; Classical view, Keynesian view, Post Keynesian view, Technique of public borrowing, Burden of Public Debt –Repayment of Public Debt; Debt Management, Principles of debt management

**Unit V Budget**

**18hrs**

Budget –Preparation and presentation of budget in India, Highlights of the current year's budget; Federal Finance –Trends in Public Finance for Central and State Governments – Deficit Financing - Principles; Finance commission – Role of fiscal policy in India

**Total Hours: 90**

**Text Books:**

1. D.M. Mithani (2006), **Public Finance Theory & Practice**, Himalaya Publishing House, Mumbai
2. M.C Vaish and H. S. Agarwal (2008), **Public Finance**, Allied Publishers Pvt limited, New Delhi.
3. Richard A.Musgrave and Peggy.B.Musgrave (2008), **Public Finance in Theory and Practice**, Tata McGraw. Hill Publishing Company Ltd, New Delhi.

**Reference Books:**

1. Bhatia, H.L.(2010), **"Public Finance"**, Vikas Publishing House Pvt.Ltd, New Delhi.
2. Maria John Kennedy (2012), **Public Finance**, Sultan Chand & Co, New Delhi.
3. Philip E. Taylor (1968), **Economics of Public Finance**, Oxford Publishing House, Calcutta

**Course Outcomes:**

**CO1:** Understand the meaning and importance of public finance

**CO2:** Recognize the sources of public revenue and its allocation.

**CO3:** Comprehend the theories of public expenditure and its impact on various sectors.

**CO4:** Evaluate the pros and cons of public debt

**CO5:** Review the budget and highlight its impact on the economy.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	H	L	M	-	M	-	L	-	M	-	-	L	H
CO2	M	M	H	L	H	-	M	-	H	-	M	M	H
CO3	H	H	H	M	H	M	M	-	H	-	H	H	H
CO4	H	H	H	H	M	M	H	M	H	-	H	H	H
CO5	H	H	H	H	H	M	H	-	H	-	M	H	H

Semester – IV  
23BECC07

## Macroeconomics II

Hours of Instruction / Week: 5+1  
No. of Credit: 6

### Objectives

1. To familiarize the students to the developments in macroeconomic theory.
2. To enable them to understand the implications of macroeconomics theory.
3. To develop their ability to identify the research issues in macroeconomics.

### Unit I Theories of Consumption Function

18hrs

The Absolute income hypothesis, The Relative income hypothesis, The Permanent income hypothesis, The Life cycle hypothesis

### Unit II Multiplier & Accelerator

18hrs

Multiplier-Investment multiplier, working of the multiplier, Assumptions, Leakages, criticism of multiplier, Importance of multiplier, Accelerator, Interaction of multiplier and accelerator; Business cycles

### Unit III Investment Function

18hrs

Meaning of Capital and Investment; Types of investment; Determinants of the level of investment, Relation between the marginal efficiency of capital and marginal efficiency of investment

### Unit IV Theories of Investment

18hrs

The Accelerator theory of investment, The Profits theory of investment, Tobin's Q theory of investment

### Unit V General Equilibrium Analysis

18hrs

Equilibrium in goods and money sector; IS and LM Curves- Derivation, Determination of equilibrium; Hicksian cross-relative effectiveness of monetary and fiscal policies, Macroeconomic goals and policies

**Total Hours: 90**

### Text Books:

1. Rana K.C and Verma K.N (2012), Macroeconomic Analysis, Vishal Publishing Co, Jalandhar, New Delhi.
2. Gregory Mankiw N (2009), Macroeconomics, Worth Publishers, New York.
3. Vaish, M.C. (2011). Macroeconomic Theory. Allied Publishers Private Limited, New Delhi.

### Reference Books:

1. Branson, H. William (1998), Macroeconomic Theory and Policy, United book stall, New Delhi
2. Richard T. Froyen (2001), Macroeconomic Theories and Policies, Macmillan Publishing Company, New York.
3. Robert Gordon, J. (2011), Macroeconomics, PHI learning Pvt. Ltd., New Delhi.

**Course Outcomes:**

**CO1:** Develop knowledge about the concepts in consumption and investment

**CO2:** Identify the various approaches in explaining theories of consumption

**CO3:** Understand the theories of investment behaviour

**CO4:** Assess and evaluate the macroeconomic goals and policies

**CO5:** Evaluate the effectiveness of monetary and fiscal policy in explaining general equilibrium

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	H	-	L	H	H	-	-	-	H	-	M	H	H
CO2	H	H	-	H	H	-	-	-	L	-	M	M	H
CO3	H	H	-	H	H	M	-		L	-	H	H	H
CO4	H	H	H	H	H	-	-	L	L	-	M	H	H
CO5	H	H	H	H	H	H	M	L	M	M	H	H	H

## Economics of Growth and Development

**Semester IV**  
**23BECC08**

**Hours of Instruction /Week: 5+1**  
**No. of Credit: 6**

### **Objectives**

1. To provide knowledge about the basic determinants of development.
2. To make the students to understand the theories of growth
3. To acquaint the students with strategies of development.

### **Unit I Economic growth and development**

**18hrs**

Concepts of growth and development -Factors affecting economic growth; economic and non-economic factors, vicious circle of poverty-Measuring development- Per capita income, Human development index-Sustainable development

### **Unit II Theories of development**

**18hrs**

Classical theory, Marxian theory, Schumpeter theory, Keynesian theory, Rostow's stages of growth, Lewis theory, Fei-Ranis' theory, Harris -Todaro model

### **Unit III Strategies of economic growth**

**18hrs**

The doctrine of balanced growth, unbalanced growth, Big push theory, Critical minimum effort, dualistic theories.

### **Unit IV Growth models**

**18hrs**

Harrod- Domar, Kaldor, Joan Robinson, Meade and their applications to developing countries

### **Unit V Planning and development**

**18hrs**

Objectives – Types – Approaches – Strategies – Evaluation of Five Year Plans – Niti Aayog

**Total Hours: 90**

### **Text Books:**

1. Hendrik Van Den derg (2001), **Economic Growth and Development**, McGraw Hill, New Delhi.
2. KaenatiLingaiah (2001), **Economic Growth and Development Models**, S. Chand & co., New Delhi.
3. Mishra,S.K. &V.K.Puri (2002), **Economics of Development and Planning**, Himalaya Publishers, Mumbai.
4. Alain de Janvry, Elisabeth Sadoulet (2021), **Development Economics: Theory and Practice**, Routledge, New York

### **Reference Books:**

1. Dutt and Mahajan (2013), **Indian Economy**, S.Chand and Company Ltd, New Delhi
2. Sibabrata Das, Alex Mourmouras and Peter.C.Rangazas (2015), **Economic Growth and Development A Dynamic Dual Economy Approach**, Springer, London
3. Todaro M and Smith (2006), **Economic Development**, Pearson Education, Singapore.

**Course Outcomes:**

**CO 1** Have knowledge about concepts and definition of growth and development.

**CO 2** Acquire basic knowledge on the issues and ongoing debates on development.

**CO 3** Comprehend the policy implications of models and theories for the economy

**CO 4** Assess the various strategies of growth and development.

**CO 5** Apply the various principles of growth and development to Indian situation.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	PSO 3
CO1	H	H	M	-	L	M	H	-	H	-	H	H	M
CO2	H	H	H	M	H	-	M	-	M	-	H	M	H
CO3	H	H	H	M	H	H	M	M	M	-	H	H	H
CO4	H	H	H	H	H	M	M	M	H	-	H	H	H
CO5	H	H	H	M	M	M	M	M	H	M	H	H	M



## Money, Banking and International Economics

Semester – V  
23BECC09

Hours of Instruction / Week: 5+1  
No of Credit: 6

### Objectives:

1. To enhance knowledge about theories of money
2. To provide an in depth knowledge on theories of international trade.
3. To familiarise the students about balance of payments and International Institutions.

### Unit I: Functions and Theories of Money

18hrs.

Evolution of money; Forms of Money-Functions of money – Component of money (Concepts defined in Indian Contest). The quantity theory of money- Keynesian theory of money- Friedman's theory of money- post Keynesian approach.

### Unit II: Central and Commercial Banks

18hrs.

Functions of Central and Commercial Banks -credit creation- Quantitative and qualitative methods of credit control. Monetary Policy - Role of Monetary Policy in Developing Economy, Demonetisation- Road maps towards cashless Economy.

### Unit III: Theories of trade

18hrs.

Inter- regional and international trade; Theories of Trade. Gains from Trade: Meaning, measurements and distribution. Terms of trade: Concepts, importance in the theory of trade; Doctrine of Reciprocal demand. Types of tariffs and quotas- Concept of optimum tariff, impact of tariff; Free trade and policy of tariffs in relation to economic growth.

### Unit IV: Balance of Payments

18hrs

Concepts and components of balance of trade and balance of payments; disequilibrium in balance of payments; Recent changes in the pattern and direction of foreign trade; export promotion measures, Export and import policies of India .

### Unit V: International Institutions

18hrs

Objectives, functions and achievements of World Bank (IBRD), International Monetary Fund (IMF), Asian Development Bank (ADB), WTO, BRICS – Free Trade Agreement

**Total hours: 90**

### Text Books:

1. M. Y. Khan, (2011), *Indian Financial System*, Tata McGraw Hill, 7th edition, New Delhi.
2. JagdishHanda (2008), *Monetary Economics*, Routledge, New Delhi.
3. T. N. Hajela (2009), *Money and Banking Theory*, Ane Book Pvt. Ltd, New Delhi.

### Reference Books:

1. AnandPrakash (2016), *Economics of Money and Banking*, Random Publications, New Delhi.
2. Gupta, S.B. (1994), *Monetary Economics*, Chand and Company, New-Delhi
3. Mithani, O.M (1990), *Macro Economic Analysis and Policy*, Oxford Press New Delhi

**Course Outcomes:**

**CO 1** Acquire an understanding on the functions of money and theories of money.

**CO 2** Comprehend the role of commercial and Central banks in the financial system.

**CO 3** Critically review the significance of monetary policy in a developing economy.

**CO 4** Be familiar with the theories and analyse current issues and policies of international trade.

**CO 5** Review the role played by international institutions in facilitating trade.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO1	H	M	H	-	-	-	H	-	M	-	-	M	M	H
CO2	H	H	H	M	M	M	M	-	M	-	H	H	M	H
CO3	H	H	H	M	H	M	M	-	H	-	H	H	H	H
CO4	H	H	H	H	H	M	M	M	H	-	H	H	H	H
CO5	H	H	H	H	H	M	M	M	H	M	H	H	H	H

## Econometrics I – Theory and Practical (SPSS, R and Machine Learning)

Semester – V  
23BECC10

Hours of Instruction / Week: 4+4  
No. of Credit: 6

### Objectives:

1. To familiarize the students with the knowledge of Econometric techniques.
2. To provide insight into the estimation of Econometric models.
3. To acquaint the students on how to validate economic theories.

### Theory

#### Unit I: Basic concepts and Linear Regression Equation

30 hrs

Nature and scope of Econometrics: Mathematical Economics and Econometrics; Statistics and Econometrics; Theoretical Econometrics and Applied Econometrics; Methodology of Econometric research - Simple and multiple linear regression equations- Principle of Ordinary Least Squares technique; Assumptions ;Standard error; Coefficient of determination; Adjusted coefficient of determination; testing the significance; Interpreting the results; Properties of estimators- Gauss Markov theorem(without proof) (Only theory and problems are excluded)

#### Unit II: Regression Analysis and Analysis of Variance

30 hrs

Comparison of ANOVA and Regression Analysis; Uses of Analysis of Variance in Regression; Testing the equality between regression coefficients of different samples-Testing the sensitiveness of regression coefficients –Testing the restriction imposed on regression parameters

#### Unit III: Non Linear Regression Equations and Dummy Variables

30 hrs

Procedure for estimating nonlinear regression model - Cobb Douglas production function ; Dummy variables- Definition , Reasons , Measurement –To measure the change in the slope of a function, to measure the change in the intercept of a function, to measure changes in seasonality; Dummy variable trap (Only theory and problems are excluded)

### Practical (Using SPSS/ E-views/R Software)

#### Unit IV: Estimation of regression equation and Chow test

15hrs

Estimation – Simple, multiple linear regressions; Chow test; Interpretation of results.

#### Unit V: Dummy variables

15 hrs

Estimation –Simple and multiple linear equations with dummy variables using SPSS

**Total hours: 120 hrs**

### Text Books:

1. Damodar N Gujarati (2006), *Essentials of Econometrics*, 3<sup>rd</sup> edition, New York.
2. Madalla G.S (2007), *Introduction to Econometrics*, Wiley, New Delhi.
3. Chris Brooks (2007), *Introductory Econometrics for Finance*, Cambridge University Press.
4. Nandini Jagannarayan and Jayachitra (2023), "An Introduction to Econometrics", Himalaya Publishing House

### Reference Books:

1. Damodar N Gujarati (2003), *Basic Econometrics*, McGraw – Hill Higher Education, New Delhi
2. Herschel Knapp (2017), *Introductory Statistics Using SPSS*, Sage Publication, New Delhi
3. Koutsoyiannis (1979), *Theory of Econometrics*, The Macmillan Ltd, London
4. Wooldridge(2015), *Introductory Econometrics : A Modern Approach*, Nelsom Education Press

**Course Outcomes:**

**CO 1** Know the basic concepts in Econometrics

**CO 2** Understand the methodology of Econometric Research

**CO 3** Comprehend the use of regression analysis for analysing economic data.

**CO 4** Familiarise the use of computer software to estimate models and interpret the results.

**CO 5** Apply econometric techniques to validate economic theories

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO1	H	-	H	-	-	M	L	-	M	-	H	M	M	M
CO2	H	M	H	-	-	M	M	-	M	-	H	L	M	M
CO3	H	M	H	M	H	H	M	L	H	-	H	H	H	H
CO4	H	H	H	H	H	H	H	H	H	-	H	H	H	H
CO5	H	H	H	H	H	H	H	H	H	-	H	H	H	H

**Professional Development Course  
Tamil Nadu Economy**

**Semester – V  
23BECPD3**

**Hours of Instruction / Week: 4  
No. of Credits: Remarks**

**Objectives:**

1. To make the students aware of the basic facts of Tamil Nadu economy.
2. To familiarize the students about the problems and issues of the State.
3. To prepare the students to get into state services, by providing a veritable source of information on Tamil Nadu.

**Unit I: Natural and Human Resources of Tamil Nadu**

**10 hrs**

Land and Forest, Minerals, Energy, Water resources in Tamil Nadu, Environmental Protective measures in Tamil Nadu -Size - growth and density of population; Health status, Education and Occupation pattern in Tamil Nadu; Human resources and Economic development.

**Unit II: Agriculture**

**15 hrs**

Land use pattern in Tamil Nadu; Nine fold classification of land; Cropping pattern, major agricultural crops, Agricultural Price Policy, Public Distribution System, Major and Minor Irrigation schemes; Agricultural marketing – Market committees, problems and remedial measures; Agricultural finance –Current Trends in Production, Cropping Pattern, Types of Irrigation

**Unit III : Industry**

**15hrs**

Industrial sector in Tamil Nadu Plans ; Large Scale industries; Small scale industries; Khadi and Village industries; District Industries Centre; Industrial Estates; Industrial sickness; Industrial financial institutions; Major Industries in Tamil Nadu -Industrial Policy of Tamil Nadu.

**Unit IV : Service and Infrastructure**

**10hrs**

Sub Sectors of Services in Tamil Nadu- Infrastructure in Tamil Nadu- Road Ports in Tamil Nadu- Railway – IT and ITES.

**Unit V: State Finance in Tamil Nadu**

**10hrs**

Meaning and Importance – Sources of State Revenue – State Expenditure – State Budget – Deficit and Public Debt – Finance of Local Bodies.

**Total Hours: 60**

**Text Books:**

1. **Jegadish Gandhi.P and Anbalagan.P (2016), Economy of Tamil Nadu Today: New Realities and Challenges**, Regal Publications, New Delhi.
2. **Leonard SJ. A.G (2006), Tamil Nadu Economy**, Macmillan India Ltd, Chennai.
3. **Perumalsamy,S. (2000),Tamil Nadu Economy**”, Sultan & Chand, New Delhi.

**Reference Books:**

1. **Dhingra, I.C (1995), Indian Economy with special reference to Tamil Nadu**, Sultan Chand and Co., New Delhi
2. **Raja Lakshmi (2000), Tamil Nadu Economy**, Sultan & Chand, New Delhi.
3. **Veeramani, A.R. (2005), TN Agricultural Economy**, Divyasre Publication, Chennai.

**Course Outcomes:****CO 1** Know the basic features and issues pertaining to Tamil Nadu**CO 2** Evaluate the major issues and development process in agriculture in Tamil Nadu.**CO 3** Appraise the various policy measures relating to Industrial development in Tamil Nadu**CO 4** Examine the developments in service sector in Tamil Nadu.**CO 5** Evaluate critically the growth process in Tamil Nadu.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO1	H	-	H	-	M	-	M	-	H	-	H	M	M	M
CO2	H	M	H	M	H	M	H	-	M	-	H	M	M	M
CO3	H	H	H	M	H	M	M	L	H	-	H	H	H	H
CO4	H	H	H	H	H	M	H	H	H	-	H	H	H	H
CO5	H	H	H	H	H	M	H	H	H	-	H	H	H	H

## Econometrics II – Theory and Practical (SPSS, R and Machine Learning)

Semester – VI  
23BECC11

Hours of Instruction / Week: 4+4  
No. of Credit: 6

### Objectives:

1. To acquaint the students with the knowledge of Econometric problems for data estimation.
2. To provide an insight into estimation of non-linear and lagged models.
3. To familiarize the students with use of software packages for identifying econometric problems.

### Theory

#### Unit I: Specification Bias

20hrs

Specification Bias; Definition; Types of Specification Bias; Consequences of Specification Bias

#### Unit II: Econometric Problems

30hrs

Heteroscedasticity- Definition, reasons, consequences, detection (Spearman's Rank correlation test, Glejser test), solution; Auto correlation- Definition, reasons, consequences, detection (Durbin Watson test), solution; Multicollinearity- Definition, reasons, consequences, detection (Farrar- Glauber test), solution (Only theory)

#### Unit III: Lagged and Functional forms of Models

30hrs

Lagged models- reasons for lags, Koyck distributed lag model, Nerlove's Partial adjustment model, Cagan's Adaptive expectation model; Functional forms of a model-double log, semi log, linear, reciprocal; polynomial models (Only theory)

### Practical (Using SPSS/ E-views/R Software)

#### Unit IV: Econometric Problems

20hrs

Checking for Heteroscedasticity using Spearman's Rank correlation test, auto- correlation using Durbin Watson test, and test for Multicollinearity

#### Unit V: Lagged variables and functional forms of the model

20hrs

Estimation of lagged models -Functional forms of a model-double log, semi log, linear, reciprocal, polynomial model

**Total hours: 120**

### Text Books:

1. Ajai S.Gaur, Sanjaya S Gaur (2006), **Statistical Methods for Practice and Research – A Guide to data analysis using SPSS**, Response Book, A division of Sage Publications India Pvt Ltd, New Delhi
2. William H Green (2006), **Econometric Analyses**, Pearson Education, New Delhi.
3. Gupta.S.L, Hitesh Gupta (2011), **SPSS 17 for Researchers**, International Book House Pvt Ltd, New Delhi
4. Stock H. James and Watson W. Mark (2017), **Introduction to Econometrics**, Person Education India Publisher, Delhi.

### Reference Books:

1. Damodar N Gujarati (2006), **Essentials of Econometrics**, McGraw Hill Higher Education, New York
2. Nicola Brace. Richard Kemp and Rosemary Snelgar (2003), **SPSS for Psychologists**, Palgrave Macmillan, New York
3. Rachad Antonius (2015), **Interpreting Quantitative Data with IBM SPSS Statistics**, Sage Publication, New Delhi

**Course Outcomes:**

**CO 1** Have knowledge on model specification errors.

**CO 2** Detect problems like Multicollinearity, Heteroscedasticity and autocorrelation

**CO 3** Acquire skills in estimating non-linear functional forms.

**CO 4** Comprehend the role and use of distributed lag models in economics.

**CO 5** Ability to identify the econometric problems in model estimation with computer software.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO1	H	M	M	M	M	H	M	H	M	-	H	L	L	M
CO2	H	-	-	-	-	H	M	H	M	-	H	M	H	M
CO3	H	H	H	M	H	H	M	H	M	-	H	M	H	M
CO4	H	H	H	H	H	H	H	M	M	-	H	M	H	M
CO5	H	H	H	H	H	H	H	H	M	-	H	M	H	M



## Economic Thought

Semester –VI  
23BECC12

Hours of Instruction / Week: 5+1  
No. of Credit: 6

### Objectives:

- 1.To familiarize the students with the economic ideas of various schools of thought.
- 2.To appraise the students on the contributions made by Indian economic thinkers.
- 3.To review the relevance of ideas of the thinkers in the current economic scenario.

**Unit I: Nature and Importance of Economic Thought** **18hrs.**

Economic Thought - Nature, Importance, Significance; Approaches; Ancient economic thought- Greek Thought – Summary of Greek School, Mercantilism, Physiocracy

**Unit II: Development of Classical Economics** **18hrs.**

Essentials of Classical Economics- Essentials of New classical school – essential of Marxian Economics

**Unit III: Modern School of Economic Thought** **18hrs.**

Marginalist school, Keynes – Post Keynesian – Expectation approach – Behavioural Approach – New International Economic Order.

**Unit IV: Ancient Indian Economic Thought** **18hrs.**

Kautilyas' Arthashastra, Thiruvalluvar, DadabhaiNaoroji's Drain theory, Ranade

**Unit V: Modern Indian Economic Thought** **18hrs.**

Gandhian economic thought, V.K.R.V.Rao, K.T.Shah, AmartyaSen

**Total Hours: 90**

### Text Books:

1. Hajela T.N (2013), **History of Economic Thought**, ANE Books, New Delhi.
2. Jain, K.Gautam (2014), **Economic Thought, Today and Tomorrow**, DND Publications, Jaipur.
3. Eric Roll (2011), **History of Economic Thought**, Prentice Hall, London.

### Reference Books:

1. Girija M, Manimegalai A and Sasikala (2003), **History of Economic Thought**, Vrinda Publications Pvt Ltd, New Delhi
2. Hunt.E.K and Mark Lantzenheiser (2014), **History of Economic Thought-A critical perspective**, PHI Learning Pvt.Ltd, New Delhi.
3. Singh,S.P. (2014), **Economic Thought**, APH Publishing Corporation, New Delhi.

**Course Outcomes:**

**CO 1** Know the evolution of Economic Thought.

**CO 2** Identify various approaches in Economic Thought.

**CO 3** Apprehend the evolution of economic ideas in ancient India.

**CO 4** Ascertain the contribution of Indian economists to economic literature.

**CO 5** To investigate the applications of various schools of thought in the current economic scenario

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO1	H	H	H	-	-	-	M	-	M	-	H	M	L	M
CO2	H	H	H	M	H	-	M	-	M	-	M	H	M	M
CO3	H	H	H	M	H	-	M	M	H	-	H	M	M	H
CO4	H	H	H	M	H	M	H	M	H	-	H	M	M	H
CO5	H	H	H	M	H	M	H	M	H	-	H	M	M	H

**Professional Development Course  
Economics of Entrepreneurship**

Semester – VI

Hours of Instruction / Week: 4+2

23BECPD4

No. of Credits: Remarks

**Objectives:**

1. To help students discover the value of entrepreneurship in modern society.
2. Acquaint the students with the challenges faced by the Entrepreneur.
3. Provide a platform to undertake research or implement economic analysis of entrepreneurial endeavours.

**Unit I: Concept of Entrepreneur**

18hrs.

Evolution of the concept of Entrepreneur – Need for an Entrepreneur – Functions of Entrepreneur – Types of Entrepreneur – characteristics of a successful Entrepreneur –Distinction between an Entrepreneur and a Manager – Intrapreneur – Social Entrepreneur –Women Entrepreneurship.

**Unit II: Entrepreneur Growth and Motivation**

18hrs.

Role of Entrepreneur in Economic Development – Growth factors affecting Entrepreneurship – Government action – meaning of Entrepreneurial motivation – Theories of Entrepreneurial motivation – Entrepreneurial motivating factors – Entrepreneurial motivational behaviour.

**Unit III: Entrepreneurship Development Programmes (EDPs)**

18hrs.

Meaning of EDP – Need for EDPs – Objectives of EDPs – Phases of EDPs – EDPs in India –Evaluation of EDPs – Problems of EDPs – Specified programme for Entrepreneurial Development.

**Unit IV: Micro, Small and Medium Enterprises (MSME)**

18hrs.

Small Enterprises: Meaning and Definition – Features and Characteristics of MSME– Rationale behind MSME – Objectives of MSME – Role of MSME in the economy -development package for promotion of MSME – problems of MSME. .

**Unit V: Institutional support to Entrepreneur**

18hrs.

Environment clearance for MSME– Need for Institutional support – NSIC – SIDCO – SSIB – DIC – Industrial Estates – Specialized Institutions.

**Total Hours: 90**

**Text Books:**

1. Jayashree Suresh (2011), **Entrepreneurial Development**, Chennai, Margham Publishers.
2. Khanka.S.S (2012), **Entrepreneurial Development**, New Delhi, Chand & co.
3. Miguel-Angel Galindo and Domingo Ribeiro (2011), **Women's Entrepreneurship and Economics – New Perspectives, Practices and Policies**, Springer New York Dordrecht Heidelberg, London.

**Reference Books:**

1. Douglas Holtz-Eakin and Harvey S.Rosen (2003), **Public Policy and the Economics of Entrepreneurship**, The MIT Press Cambridge, Massachusetts London.
2. Hisrich, Robert D., Michael Peters and Dean Shepherd (2010), **Entrepreneurship**, Tata McGraw Hill, New Delhi.
3. Poornima M.Charantimath (2013), **Entrepreneurship Development and Small Business Enterprises**, Pearson's, New Delhi.

**Course Outcomes:**

- CO 1** Have knowledge about attraction for and challenges of an Entrepreneur.
- CO 2** Understand Entrepreneurship scenario in the economy.
- CO 3** Comprehend the problems and issues of MSME in our country.
- CO 4** Evaluate the role of Government machinery, Institution's and support system.
- CO 5** Have exposure to the rudiments of preparing a business plan.

CO / PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO1	H	-	M	-	-	-	M	H	M	H	H	L	L	M
CO2	H	M	H	M	H	-	M	H	M	H	H	M	M	M
CO3	H	H	H	M	H	-	M	H	M	H	H	M	M	H
CO4	H	H	H	H	H	M	H	M	M	H	H	M	H	H
CO5	H	H	H	H	H	M	H	H	M	H	H	M	H	H