

**ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS)**

**CHENNAI - 600 008**

**POST GRADUATE & RESEARCH**

**DEPARTMENT OF ECONOMICS**



**B.A. ECONOMICS**

**SYLLABUS**

**Choice Based Credit System**

**Outcome Based Education**

**(Offered from the Academic Year 2021- 2022)**

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## **DEPARTMENT OF ECONOMICS**

### **REVISED SYLLABUS OF JULY 2021**

Department of Economics is revising syllabi with effect from the academic year 2021- 2022 with CBCS and Part IV and Part V components as specified by the Government of Tamil Nadu. Part IV and Part V components will seek to build the capacity of the students and provide inputs for their social service and social analysis capabilities.

Every academic year is divided into two semester sessions. Each semester will have a minimum of 90 working days and each day will have 5 working hours. Teaching is organized into a modular pattern of credit courses. Credit is normally related to the number of hours a teacher teaches a particular subject. It is also related to the number of hours a student spends learning a subject or carrying out an activity.

#### **PREAMBLE**

The Department of Economics submits changes and additions suggested in the M.Phil, PG and UG curricula that are given in the ensuing pages.

1. Reorganization of Courses in the UG Programmes as specified by TANSICHE
2. Modification of course content in courses based on employability of the students and the needs of the industries.
3. Changes in the course title are based on revised contents of curricula.
4. Introduction of new innovative skill-based courses.

#### **REGULATIONS**

##### **ELIGIBILITY FOR ADMISSION:**

Candidates for admission to the first year of the **Degree of B.A. Economics** course shall be required to have passed the Higher Secondary Examinations conducted by the Government of Tamil Nadu or an Examination accepted as equivalent thereto by the Syndicate of the University of Madras.

## **ELIGIBILITY FOR THE AWARD OF DEGREE:**

A candidate shall be eligible for the award of the Degree only if she has undergone the prescribed course of study for a period of not less than three academic years and passed the examinations of all the six semesters prescribed.

## **COURSE OF STUDY:**

The main subject of study for Bachelor Degree shall consist of the following:

- PART I** : Foundation Courses exclusive for Languages
- PART II** : English
- PART III** : Core and Allied Courses.
- PART IV** : Non - Major Electives and Soft Skill Subjects.
- PART V** : Extension Activities / Sports / NCC / NSS /YRC / ROTRACT/ CSS.

## **PASSING MINIMUM:**

A candidate shall be declared to have passed in each paper/practical of the main subject of study wherever prescribed, if she secured NOT LESS THAN 40 percent of the marks prescribed for the examination.

## **CLASSIFICATION OF SUCCESSFUL CANDIDATES:**

Part I, II, III & IV

Successful candidates passing the examination and securing the marks (i) 60 percent and above and (ii) 50 percent above but below 60 percent in the aggregate shall be declared to have passed the examination in the FIRST and SECOND classes respectively. All other successful candidates shall be declared to have passed the examination in the THIRD class.

Candidates who pass all the examinations (Part I, II, III and IV) prescribed for the course in the FIRST APPEARANCE ITSELF ALONE are eligible for ranking.

## **PROGRAMME EDUCATIONAL OBJECTIVES**

On obtaining an Undergraduate Degree the students will be able to:

- PEO1:** Apply and advance the knowledge and skills acquired, to become a creative professional in their chosen field.
- PEO2:** Engage in self-directed continuous learning, aimed at global competency, which will promote professional and personal growth.
- PEO3:** Develop management skills and entrepreneurial skills, by harnessing core competencies tempered by values and ethics.
- PEO4:** Work towards achieving economic and social equity for women through application of relevant knowledge.
- PEO5:** Contribute to promoting environmental sustainability and social inclusivity.

## **PROGRAMME OUTCOMES**

### **(ARTS STREAM)**

#### **UNDERGRADUATE COURSE**

- PO1:** Apply the knowledge gained through the study of humanities to address Political, Socio – Economic and Gender Issues.
- PO2:** Critically engage with history, linguistic, culture, economy, inclusivity and environment.
- PO3:** Aid in the application of mathematical, statistical and econometric tools in solving realistic economic problems.
- PO4:** Inculcate skills to evaluate, innovate and integrate the contemporary issues and motivate further learning.
- PO5:** Enhance their ethical values, communicative and employability skills.
- PO6:** Gain quality education, global in perspective to contribute towards holistic development.

## **PROGRAMME SPECIFIC OUTCOMES**

### **B.A. ECONOMICS**

- PSO1:** To acquire knowledge on economic concepts, theories, models and strategies.
- PSO2:** To trace the evolution of various schools of thought to facilitate policy making.
- PSO3:** To acquaint with analytical tools in Mathematics, Statistics, Econometrics and Accounts.
- PSO4:** To develop competency on the communication skills to encourage for further study and employment.
- PSO5:** To recognize economic issues at regional, national and in the global scenario.
- PSO6:** To respond to the socio-economic challenges prevalent in the society.

**ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS) CHENNAI -08**  
**CURRICULUM TEMPLATE (2021-22 ONWARDS) UNDERGRADUATE**  
**PROGRAMME PROFILE**  
**DEPARTMENT OF ECONOMICS**  
**COURSE CODES AND CREDITS**

**TOTAL MINIMUM CREDITS: 140**

**TOTAL TEACHING HOURS: 180**

PART	CORE/ ALLIE D/ELEC TIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
<b>I SEMESTER</b>											
I	Language	Tamil/Hindi/French/Sans krit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 1	Microeconomics-I	EC21/1C/MII	3	2	0	5	4	40	60	100
III	Core 2	Basic Mathematics for Economics	EC21/1C/BME	3	2	0	5	4	40	60	100
III	Allied	Fundamentals of Financial Accounting	EC21/1A/FFA	3	3	0	6	5	40	60	100
IV	EVS	Environmental Studies					2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physi cal Sciences/Life Sciences					2	3	-	50	50
<b>II SEMESTER</b>											
I	Language	Tamil/Hindi/French/Sans krit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 3	Microeconomics-II	EC21/2C/MI2	3	2	0	5	4	40	60	100
III	Core 4	Calculus for Economics	EC21/2C/CAE	3	2	0	5	4	40	60	100
III	Allied	Management Accounting	EC21/2A/MAA	3	3	0	6	5	40	60	100
IV	Val. Ed	Value Education					2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physi cal Sciences/Life Sciences					2	3	-	50	50



III SEMESTER											
I	Language	Tamil/Hindi/French/Sanskrit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 5	History of Economic Thought	EC21/3C/HET	3	2	0	5	4	40	60	100
III	Core 6	Statistics for Economics	EC21/3C/STE	3	2	0	5	4	40	60	100
III	Allied	Rural Economics	EC21/3A/RUE	3	3	0	6	5	40	60	100
		Economics of Agriculture and Industry	EC21/3A/EAI	3	3	0			40	60	100
		Computer Applications in Economics	EC21/3A/CAE	3	2	1			40	60	100
IV	NME (1c)	Training for Competitive Examinations	EC21/3N/TCE	1	1	0	2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physical Sciences/Life Sciences					2	3	-	50	50
IV SEMESTER											
I	Language	Tamil/Hindi/French/Sanskrit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 7	Indian Economy	EC21/4C/INE	3	2	0	5	4	40	60	100
III	Core 8	Basic Econometrics	EC21/4C/BAE	3	2	0	5	4	40	60	100
III	Allied	Urban Economics	EC21/4A/URE	3	3	0	6	5	40	60	100
		Tamil Nadu Economy	EC21/4A/TNE	3	3	0					
		Economic Systems and Indian Polity	EC21/4A/ESI	3	3	0					
IV	NME (1c)	Personality Grooming for Employment	EC21/4N/PGE				2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physical Sciences/Life Sciences					2	3	-	50	50

V SEMESTER											
III	Core 9	Macroeconomics-I	EC21/5C/MA1	3	3	0	6	4	40	60	100
III	Core 10	Monetary Economics	EC21/5C/MOE	3	3	0	6	4	40	60	100
III	Core 11	Fiscal Economics	EC21/5C/FIE	3	3	0	6	4	40	60	100
III	Elective I	Operations Research	EC21/5E1/OPR	3	3	0	6	5	40	60	100
III	Elective II	Health Economics	EC21/5E2/HEE	3	3	0	6	5	40	60	100
		Principles of Marketing	EC21/5E2/PRM	3	3	0			40	60	100
		Gender Economics	EC21/5E2/GEE	3	3	0			40	60	100
VI SEMESTER											
III	Core 12	Macroeconomics –II	EC21/6C/MA2	3	3	0	6	4	40	60	100
III	Core 13	International Economics	EC21/6C/INE	3	3	0	6	4	40	60	100
III	Core 14	Environmental Economics	EC21/6C/ENE	3	3	0	6	4	40	60	100
III	Core 15	Managerial Economics	EC21/6C/MAN	3	3	0	6	4	40	60	100
III	Elective III	Women Entrepreneurship	EC21/6E3/WOE	3	3	0	6	5	40	60	100
		Behavioural Economics	EC21/6E3/BEE	3	3	0			40	60	100
		Project	EC21/6E3/PRO	3	2	1			40	60	100
V		Extension Activity (Sports/NCC/NSS/CSS / YRC/RRC/Retract/Yoga)		-	-	-	Min 60 hours	1	-	-	
		OPTIONAL EXTRA CREDITS									
IV	Extra Credits	Self-Study (Semester V) Ethics and Economics Pharmaco Economics	EC21/5SS/ETE EC21/5SS/PHE	-	-	-	-	2	-	100	100
		Internship (Summer Vacation after IV Semester)		-	-	-	Min 14 days	1	-	-	
		Project (Semester VI)					-	2	-	100	100
		<b>TOTAL</b>						<b>140</b>			

L = Lecture Hours  
C= Credits

T = Tutorial Hours  
CA=Continuous Assessment

P=Practical Hours  
SE=Semester Examinations

H = Hours per week  
MM=Maximum Marks

## ALLIED SUBJECTS

PART	CORE/ ALLIED/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
III	Allied	Business Economics	EC21/1A/BUE	3	3	0	6	5	40	60	100
III	Allied	International Trade	EC21/2A/INT	3	3	0	6	5	40	60	100
III	Allied	Principles of Economics	EC21/3A/PRE	3	3	0	6	5	40	60	100
III	Allied	International Economics	EC21/4A/INE	3	3	0	6	5	40	60	100
III	Allied	Indian Economy	EC21/3A/INE	3	3	0	6	5	40	60	100
III	Allied	Tamil Nadu Economy	EC21/4A/TNE	3	3	0	6	5	40	60	100

### Extra Credits (Optional for Advanced Learners)

- MOOC Courses related to Economics or Interdisciplinary – (One Course Per Year)

Duration of the Course	No. of Credits
4 weeks	1
8 Weeks	2
12 Weeks	3

- Internship (During Second year Summer Holidays –15 days = 1Credit)

- Self-StudyPaper

- |                         |              |
|-------------------------|--------------|
| a. Ethics and Economics | EC21/5SS/ETE |
| b. Pharmaco Economics   | EC21/5SS/PHE |

**EVALUATION PATTERN FOR CONTINUOUS ASSESSMENT – UG  
INTERNAL VALUATION BY COURSE TEACHERS**

**PART III-THEORY PAPERS / PROJECT**

<b>COMPONENT</b>	<b>TIME</b>	<b>MAX. MARKS</b>	<b>CA MARKS</b>
1.TEST I	2 HRS	50 MARKS (TO BE CONVERTED)	10
2.TEST II	2 HRS	50 MARKS (TO BE CONVERTED)	10
3. ASSIGNMENT/SEMINAR/FIELD VISIT			10
4. PARTICIPATORY LEARNING			10
<b>TOTAL</b>			<b>40</b>

**PART IV- SKB/NME/SOFT SKILLS**

<b>COMPONENT</b>	<b>TIME</b>	<b>MAX.MARKS</b>	<b><i>NO INTERNALS COMPONENTS</i></b>
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**CA QUESTION PAPER PATTERN-UG**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>
<b>K 1</b>	<b>A-6x2 Marks</b>	<b>50</b>	<b>12</b>	<b>50</b>
<b>K1, K 2</b>	<b>B-3/5x6 Marks</b>	<b>200</b>	<b>18</b>	
<b>K2, K 3</b>	<b>C-1/2x20 Marks</b>	<b>1200</b>	<b>20</b>	

## RUBRICS FOR CONTINUOUS ASSESSMENT EVALUATION

<b>Assignment</b>	<b>Content/Originality/Presentation/Schematic Representation and Diagram/Bibliography</b>
<b>Seminar</b>	<b>Organisation/Subject Knowledge/Visual Aids/Confidence level/Presentation-Communication and Language</b>
<b>Field Visit</b>	<b>Participation/Preparation/Attitude/Leadership</b>
<b>Participation</b>	<b>Answering Questions/Clearing Doubts/Participating in Group Discussions/Regular Attendance</b>
Case Study	Finding the Problem/Analysis/Solution/Justification
Problem Solving	Understanding Concepts/Formula and Variable Identification/Logical Sequence/Answer
Group Discussion	Preparation/Situation Analysis/Relationship Management/Information Exchange/Delivery Skills
Flipped/Blended Learning	Preparation/Information Exchange/ Group Interaction/Clearing Doubts

- FIRST FOUR RUBRICS SHOULD BE INCLUDED.
- OTHERS ARE OPTIONAL BASED ON TEACHING-LEARNING METHODOLOGY ADOPTED FOR THE PROGRAMME OF STUDY

### NON-MAJOR ELECTIVES OFFERED BY THE DEPARTMENT

#### TO OTHER DEPARTMENTS

<b>Semester</b>	<b>Code</b>	<b>Title</b>
I	EC21/3N/ TCE	Training for Competitive Examinations
II	EC21/4N/ PGE	Personality Grooming for Employment

**END SEMESTER EVALUATION PATTERN - UG**

**THEORY PAPERS**

**PART III**

**SEMSTER I/II/III/IV/V/VI**

**DOUBLE VALUATION** by COURSE TEACHER AND EXTERNAL EXAMINER

MAXIMUM MARKS: 100 TO BE CONVERTED TO 60

PASSING MARKS: 40

**PROJECT**

**PART III**

**SEMSTER VI**

**DOUBLE VALUATION** by COURSE TEACHER AND EXTERNAL EXAMINER

MAXIMUM MARKS: 60

PASSING MARKS: 24

**NON-MAJOR ELECTIVES**

**PART IV**

SINGLE VALUATION by COURSE TEACHER

WRITTEN TEST

MAXIMUM MARKS: 50

PASSING MARKS: 20

## COURSE PROFILE-PROGRAMME OF STUDY

### SEMESTER I

PART	CORE/ ALLIED/ ELECTIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
I	Language	Tamil/Hindi/French/Sanskrit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 1	Microeconomics-I	EC21/1C/MI1	3	2	0	5	4	40	60	100
III	Core 2	Basic Mathematics for Economics	EC21/1C/BME	3	2	0	5	4	40	60	100
III	Allied	Fundamentals of Financial Accounting	EC21/1A/FFA	3	3	0	6	5	40	60	100
IV	EVS	Environmental Studies					2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physical Sciences/Life Sciences					2	3	-	50	50
		<b>TOTAL</b>					<b>30</b>	<b>24</b>			

### SEMESTER II

PART	CORE/ ALLIED/ ELECTIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
I	Language	Tamil/Hindi/French/Sanskrit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 3	Microeconomics-II	EC21/2C/MI2	3	2	0	5	4	40	60	100
III	Core 4	Calculus for Economics	EC21/2C/CAE	3	2	0	5	4	40	60	100
III	Allied	Management Accounting	EC21/2A/MAA	3	3	0	6	5	40	60	100
IV	Val. Ed	Value Education					2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physical Sciences/Life Sciences					2	3	-	50	50
		<b>TOTAL</b>					<b>30</b>	<b>24</b>			

### SEMESTER III

PART	CORE /ALLIED/ ELECTIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
I	Language	Tamil/Hindi/French/Sanskrit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 5	History of Economic Thought	EC21/3C/HET	3	2	0	5	4	40	60	100
III	Core 6	Statistics for Economics	EC21/3C/STE	3	2	0	5	4	40	60	100
III	Allied	Rural Economics	EC21/3A/RUE	3	3	0			40	60	100
		Economics of Agriculture and Industry	EC21/3A/EAI	3	3	0	6	5			
		Computer Applications in Economics	EC21/3A/CAE	3	2	1					
IV	NME (1c)	Training for Competitive Examinations	EC21/3N/TCE	1	1	0	2	2	-	50	50
IV	Soft Skill	English Department- Professional English for Arts/Commerce/Physical Sciences/Life Sciences					2	3	-	50	50
		<b>TOTAL</b>					<b>30</b>	<b>24</b>			

### SEMESTER IV

PART	CORE/ ALLIED/ ELECTIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
I	Language	Tamil/Hindi/French/Sanskrit					6	3	40	60	100
II	English	Communicative English					4	3	40	60	100
III	Core 7	Indian Economy	EC21/4C/INE	3	2	0	5	4	40	60	100
III	Core 8	Basic Econometrics	EC21/4C/BAE	3	2	0	5	4	40	60	100
III	Allied	Urban Economics	EC21/4A/URE	3	3	0	6	5	40	60	100
		Tamil Nadu Economy	EC21/4A/TNE	3	3	0					
		Economic Systems and Indian Polity	EC21/4A/ESI	3	3	0					
IV	NME (1c)	Personality Grooming for Employment	EC21/4N/PGE				2	2	-	50	50
IV	Soft Skill	English Department-					2	3	-	50	50



		Professional English for Arts/Commerce/Physical Sciences/Life Sciences										
		<b>TOTAL</b>					<b>30</b>	<b>24</b>				

### SEMESTER V

PART	CORE/ ALLIED/ ELECTIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
III	Core 9	Macroeconomics-I	EC21/5C/MA1	3	3	0	6	4	40	60	100
III	Core 10	Monetary Economics	EC21/5C/MOE	3	3	0	6	4	40	60	100
III	Core 11	Fiscal Economics	EC21/5C/FIE	3	3	0	6	4	40	60	100
III	Elective I	Operations Research	EC21/5E1/OPR	3	3	0	6	5	40	60	100
III	Elective II	Health Economics	EC21/5E2/HEE	3	3	0	6	5	40	60	100
		Principles of Marketing	EC21/5E2/PRM	3	3	0			40	60	100
		Gender Economics	EC21/5E2/GEE	3	3	0			40	60	100
		<b>TOTAL</b>					<b>30</b>	<b>22</b>			

### SEMESTER VI

PART	CORE/ ALLIED/ ELECTIVE/	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
III	Core 12	Macroeconomics –II	EC21/6C/MA2	3	3	0	6	4	40	60	100
III	Core 13	International Economics	EC21/6C/INE	3	3	0	6	4	40	60	100

III	Core 14	Environmental Economics	EC21/6C/ENE	3	3	0	6	4	40	60	100
III	Core 15	Managerial Economics	EC21/6C/MAN	3	3	0	6	4	40	60	100
III	Elective III	Women Entrepreneurship	EC21/6E3/WOE	3	3	0			40	60	100
		Behavioural Economics	EC21/6E3/BEE	3	3	0	6	5			
		Project	EC21/6E3/PRO	3	2	1					
		<b>TOTAL</b>					<b>30</b>	<b>21</b>			
		<b>Extension Activity</b>						<b>1</b>			
		<b>TOTAL</b>					<b>180</b>	<b>140</b>			

### ALLIED SUBJECTS

PART	CORE/ ALLIED/ ELECTIVE	TITLE OF THE PAPER	CODE	L	T	P	H	C	CA	SE	MM
III	Allied	Business Economics	EC21/1A/BUE	3	3	0	6	5	40	60	100
III	Allied	International Trade	EC21/2A/INT	3	3	0	6	5	40	60	100
III	Allied	Principles of Economics	EC21/3A/PRE	3	3	0	6	5	40	60	100
III	Allied	International Economics	EC21/4A/INE	3	3	0	6	5	40	60	100
III	Allied	Indian Economy	EC21/3A/INE	3	3	0	6	5	40	60	100
III	Allied	Tamil Nadu Economy	EC21/4A/TNE	3	3	0	6	5	40	60	100

## **TEACHING METHODOLOGY ADOPTED BY THE COURSE TEACHERS**

- Lecture (Chalk and Talk-OHP-LCD)
- Flipped Learning/Blended Classroom - E Content, Videos (You Tube)
- Problem Solving - Group Discussion-Role Modeling
- Quiz-Seminar
- Peer Learning
- Power Point Presentations
- Field Visits/Industrial Visits
- Self-Study Papers
- Guest Lecture
- E Learning through ecw economics Blog
- LMS
- Google Classroom
- Podcast
- Kine Master
- Ed Puzzle
- Quizzze

**SEMESTER I  
MICROECONOMICS I**

**TOTAL HOURS: 75  
CREDITS: 4**

**COURSE CODE: EC21/1C/MI1  
L-T-P: 3/2/0**

**COURSE OBJECTIVES:**

1. To impart conceptual foundation, theories and analytical tools.
2. To disseminate theoretical knowledge for understanding economic behavior of firms.
3. To get an insight into the contribution of Nobel Laureates.
4. To enrich students about the rational behavior of consumers and producers
5. To identify the working of various market structures.

**COURSE OUTLINE:**

**UNIT I : Introduction of Economics**

Definitions - Scope and Methods of Economics - Micro - Macro -Basic Economic Problems - Methods of Economics Analysis, Inductive & Deductive Logic - Tools of Economic Analysis - Functional Relationship, Schedules, Graphs and Equations - Variables - Equilibrium - Static and Dynamics - Time Lags. (15 Hours)

**UNIT II : Utility**

Utility - Cardinal and Ordinal Utility - Law of Diminishing Marginal Utility - Law of Equi Marginal Utility - Individual and Market Demand - Law of Demand - Determinants of Demand – Derivation of Market Demand -Shifts in Demand – Exceptions - Elasticity of Demand - Types - Methods of Measuring Elasticity of Demand - Supply - Elasticity of Supply - Consumer's Surplus. (15 Hours)

**UNIT III : Indifference Curve**

Indifference Curve - Properties - Budget Line - Consumer Equilibrium - Derivation of Demand Curve - Nobel Laureate John Hicks (1972) - Income, Substitution and Price Effects (Hicks) - Nobel Laureate Paul Samuelson (1970) - Revealed Preference Theory. (15 Hours)

**UNIT IV : Production and Cost**

Theory of Production and Cost - Production Function - Iso Quant, Iso Cost, Cobb - Douglas Production Function - CES Production Function - Economies and Diseconomies of Scale - Returns to Scale and Law of Variable Proportion - Cost Curves, Short Run and Long Run Cost Curves - Producer's Surplus. (15 Hours)

**UNIT V : Markets–Perfect Competition**

Market - Meaning - Classification – Market Structure - Forms - Features of Perfect Competition - Marginal Revenue and Average Revenue - Theory of Pricing - Equilibrium of the Firm and Industry – Market Adjustment Process – Time Element Analysis. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Koutsoyiannis. A, Modern Microeconomics, Macmillan Press, 2003.
2. H.L.Ahuja, Principles of Microeconomics, S. Chand & Company Ltd, New Delhi 2020.
3. K.N. Verma, Microeconomic Theory, Vishal Publishing Company, New Delhi, 2017.

### **REFERENCE BOOKS:**

1. Robert S. Pindyck and Daniel .Rubinfeld, Microeconomics, 9<sup>th</sup> Edition , Global Edition, Pearson, 2018.
2. Paul Krugman and Robin Wells, Micro Economics, Worth Publishers, 2020.
3. Austin Frakt, Mike Piper, Microeconomics Made Simple, Simple Subjects, 2014.
4. N. Gregory Mankiw, Economics: Principles and Applications, India Edition by South Western, Cengage Learning India Private Limited, 8<sup>th</sup> Edition, 2020.
5. Walter Nicholson and Christopher Snyder, Micro Economic Theory - Basic Principles and Extensions, Cengage Learning India Pvt, Ltd, 12<sup>th</sup> Edition, 2016.

### **JOURNALS:**

1. SAGE Journals- Studies in Micro Economics
2. American Economic Journal: Micro Economics on JSTOR

### **E-LEARNING RESOURCES:**

1. <http://www.econlib.org/library/enc/microeconomics.html>
2. <https://en.wikipedia.org/wiki/Microeconomics>
3. <https://global.oup.com/academic/.../microeconomics>
4. <https://www.economicsnetwork.ac.uk>el>.
5. <http://www.researchgate.net>
6. <https://www.tutor2u.net/economics>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

<b>CO Number</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Illustrates basic analytical methods and tools to analyse theories in Micro economics
<b>CO 2</b>	Understand the principles of economics in application to individual decision makers, both consumers and firms
<b>CO 3</b>	Get an insight into the contribution of Nobel Laureates.
<b>CO 4</b>	Differentiate the behaviour of consumers and producers in theory and practice
<b>CO 5</b>	Gain practical knowledge on fundamentals of market and market structures like Perfect competition

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	3	2	3	1	1	1
<b>CO2</b>	3	3	3	3	3	2
<b>CO3</b>	3	3	3	3	3	3
<b>CO4</b>	3	3	3	2	3	3
<b>CO5</b>	3	3	2	3	3	3
<b>AVERAGE</b>	<b>3</b>	<b>2.8</b>	<b>2.8</b>	<b>2.4</b>	<b>2.6</b>	<b>2.4</b>

**KEY:** STRONGLY CORRELATED - 3    MODERATELY CORRELATED - 2  
 WEAKLY CORRELATED - 1    NO CORRELATION - 0

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K 1</b>	<b>A-10X2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	<b>Question No.- is compulsory</b>
<b>K1, K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		

**SEMESTER I**  
**BASIC MATHEMATICS FOR ECONOMICS**

**TOTAL HOURS: 75**

**COURSE CODE: EC21/1C/BME**

**CREDITS: 4**

**LTP: 3/2/0**

**COURSE OBJECTIVES:**

1. To integrate the concepts of Economics with the tools of Mathematics in order to analyse and make optimal decisions.
2. To apply the Matrices to find solutions in Economics.
3. To prove Economic relationships mathematically.
4. To apply Economic models to determine input-output relationships
5. To assess the behaviour of individuals and businesses with help of Game Theory in Decision making

**COURSE OUTLINE:**

**UNIT I : Introduction to Mathematics for Economics**

Functions: Linear, Quadratic, Cubic, Exponential and Logarithmic  
Functions - Applications in Economics: Equations: Graph, Slope and  
Intercept of a Function - Derivation of Linear Demand and Supply  
Functions - Calculation of Market Equilibrium - Single and Multiple  
Products. (15 Hours)

**UNIT II : Matrix Algebra**

Fundamentals of Matrix Algebra : Definition and Rules – Basic  
Operations in Matrices -Types of Matrices - Laws in Matrix Algebra  
- Determinants and its Properties – Singular, Non-Singular Matrix –  
Minors and Co factors – Transpose of a Matrix - Properties –  
Adjoint of a Matrix – Rank of a Matrix - Properties – Inverse  
Matrices – Properties of the Inverse. (20 Hours)

**UNIT III : Linear Equations**

System of Equations – Matrix Inverse Method – Cramer’s Rule –  
Elementary Row Operations – Augmented Matrix – Row Echelon  
Form – Gaussian Method of Solving Linear Equations. (15 Hours)

**UNIT IV : Input-Output Model:**

Leontief Static Model – Open and Closed Input-Output Model –  
Hawkins and Simon Conditions - Solution to Open Model – Leontief  
Model - Characteristic Roots. (10 Hours)

**UNIT V : Game Theory**

Basic Concepts – Two Person Zero Sum Game – Saddle Point -  
Types of Strategies -Principle of Dominance. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Edward T. Dowling, Theory and Problems of Mathematics for Economics, Schaum's Outline Series, McGraw Hill, New York, 2020.
2. Mehta and Madnani, Mathematics for Economics, Sultan Chand, 9<sup>th</sup> Edition New Delhi, 2013.

### **REFERENCE BOOKS:**

1. Joan E. Weber., Mathematical Analysis, Herper International 4<sup>th</sup> Edition, Cambridge, 1982.
2. Geoff Renshaw, Maths for Economics, 4<sup>th</sup> Edition, Oxford University Press, 2016.
3. Alpha.C.Chiang, Fundamental Methods of Mathematical Economics, 4<sup>th</sup> Edition, McGraw-Hill/Irwin, 2017.
4. R.Veerachamy, Quantitative Methods, New Age International Pvt., Ltd., 2<sup>nd</sup> Edition, 2019.
5. Mabbet, A.J., Workout Mathematics for Economists, Macmillan Master Series, 4<sup>th</sup> Edition London, 1986.

### **JOURNALS:**

1. Journal of Mathematical Economics
2. Journal of Applied Economics.

### **E-LEARNING RESOURCES:**

1. <https://academicearth.org/economics>
2. <https://www.pearsonmylabandmastering.com/northamerica/mymathlab>
3. <https://oyc.yale.edu>.
4. <http://www.math.tifr.res.in/maths/all-journals.html>
5. <https://mitpress.mit.edu/.../mathematics-economic...>



**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Understand Economic issues with Mathematical tools to find the solutions.
CO 2	Application of Matrices to find solutions in Economics.
CO 3	Calculate optimal values in the system of Equations by using the Mathematical models in Economics.
CO 4	Apply Economic models to determine input-output relationships.
CO 5	Assess the behaviour of individuals and businesses with help of Game Theory in Decision making.

**MAPPING – COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	1	3	1	1	1
CO2	2	2	3	2	2	2
CO3	3	1	3	2	1	2
CO4	3	2	3	2	2	2
CO5	3	2	3	2	3	3
<b>AVERAGE</b>	<b>2.8</b>	<b>1.6</b>	<b>3</b>	<b>1.8</b>	<b>1.8</b>	<b>2</b>

**KEY: STRONGLY CORRELATED - 3****MODERATELY CORRELATED -2****WEAKLY CORRELATED-1****NO CORRELATION-0****QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 1	A-10x2 Marks	50	20	100	Question No.- is Compulsory Section A must have 6 theory and 4 problems
K1,K 2	B-5/8x8 Marks	300	40		Section B must have 2 theory and 6 problems
K2, K 3	C-2/4x20 Marks	1200	40		Section C must have 1 theory and 3 problems

**SEMESTER I**  
**FUNDAMENTALS OF FINANCIAL ACCOUNTING**

**TOTAL HOURS: 90**  
**CREDITS: 5**

**COURSE CODE: EC21/1A/FFA**  
**LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To provide an understanding on the basic concepts in accounting.
2. To enable the students to identify the accounting errors and rectifying it.
3. To prepare financial Statements.
4. To acquire knowledge to tabulate Bank Reconciliation Statement.
5. To equip them with a basic knowledge about Tally.

**COURSE OUTLINE:**

- UNIT I : Financial Accounting**  
Definition – Objectives – Functions - Advantages and Disadvantages - Single Entry Book Keeping and Double - Entry Book Keeping. (10 Hours)
- UNIT II : Accounting - Books and Records**  
Journal – Ledger- Subsidiary Book - Cash Book - Trial Balance – Meaning - Methods of Preparation – Errors - Classification of Errors - Rectification of Errors. (20 Hours)
- UNIT III : Final Accounts**  
Final Accounts - Preparation of Trading - Profit and Loss Account - Balance Sheet (Simple Adjustments). (20 Hours)
- UNIT IV : Bank Reconciliation Statement**  
Bank Reconciliation Statement – Need - Meaning - Method of Preparation of Bank Reconciliation Statement. (20 Hours)
- UNIT V : Tally Software**  
Introduction to Accounting Package – Tally - Meaning, Features, Advantage, Defining the Cells, Format the Data, Entering Data, Functional Keys and Simple Calculation - Zoho Accounting Software – Quick Books (**Theory only for exams**). (20 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Reddy. T.S and Hari Prasad Reddy Y, Financial and Management Accounting, Margham Publications, Chennai, 2014.
2. Reddy. T.S Murthy, Financial Accounting, Margham Publications, Chennai 2012.

### **REFERENCE BOOKS:**

1. M.C.Shukla, T.S. Grawal and S.C. Gupta- Advanced Accounts - S. Chand and Company, New Delhi 2018.
2. S.N.Maheshwari and Suneel.K.Maheshwari, Financial Accounting Vikas Publishing House 2018.
3. Kalpesh Ashar, Financial Accounting, Vibrant Publishers, 2019.
4. V.K. Goyal and Ruchi Goyal, Financial Accounting, Prentice Hall India Learning Private Limited, 2012.
5. Prof Jawaharlal & Dr.Seema Srivastava ,Financial Accounting, S.Chand Publication 2015.

### **JOURNALS:**

1. International Journal of Accounting
2. Journal of Accountancy.
3. Journal of Accounting and Economics

### **E-LEARNING RESOURCES:**

1. <https://icmai.in>.
2. <https://www.accountingcoach.com>
3. <https://www.cipfa.org>
4. <https://www.business.com>
5. <https://www.accountingcoach.com>

**COURSE OUTCOMES:****On Completion of the course the students will be able to**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO1</b>	Understand the Basic Concepts of Accounting and prepare Book keeping.
<b>CO2</b>	Make Journal and Ledger and Categorize the various subsidiary books of accounts and identify & rectify errors
<b>CO3</b>	Prepare income and expenditure statement and balance sheet.
<b>CO4</b>	Tabulate Bank Reconciliation Statement.
<b>CO5</b>	Apply software packages in accounting.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME:**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	<b>PSO6</b>
<b>CO1</b>	1	0	3	3	0	1
<b>CO2</b>	1	0	3	3	1	2
<b>CO3</b>	1	0	3	3	3	2
<b>CO4</b>	1	0	3	3	3	2
<b>CO5</b>	1	0	3	3	3	2
<b>AVERAGE</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2.0</b>	<b>1.8</b>

**KEY:** STRONGLY CORRELATED - 3      MODERATELY CORRELATED - 2  
 WEAKLY CORRELATED - 1      NO CORRELATION – 0

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K 1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory Section A must have 7 theory and 3 problems
<b>K1, K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		Section B must have 2 theory and 6 problems
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		Section C must have 4 problems.

**SEMESTER -II  
MICROECONOMICS -II**

**TOTAL HOURS: 75  
CREDITS: 4**

**COURSE CODE: EC21/2C/MI2  
LTP: 3/2/0**

**COURSE OBJECTIVES:**

1. To enable students to understand different market structures
2. To understand oligopoly market structure and models.
3. To enrich the students about the theories of distribution
4. To explore advanced microeconomic concepts with applications
5. To understand the basic concepts of welfare economics

**COURSE OUTLINE:**

**UNIT VI : Monopoly and Monopolistic Competition**

Monopoly - Determination of Price, Output & Profits - Price Discrimination - Dumping - Control of Monopoly - Bilateral Monopoly - Monopsony - Monopolistic Competition - Short Run & Long Run - Equilibrium - Excess Capacity - Selling Cost. (10 Hours)

**UNIT VII : Oligopoly**

Oligopoly - Non Collusive Models - Duopoly Cournot Model - The Chamberlin Model - The Kinked Demand Curve Model - Collusive Oligopoly - Cartels - Price Leadership. (15 Hours)

**UNIT VIII : Theory of Factor Pricing**

Theory of Factor Pricing - Marginal Productivity Theory - Determination of Factor Pricing Under Perfect & Imperfect Competition in Factor and Product Market - Labour Market - Wage Determination - Trade Unions - Role of Collective Bargaining. (15 Hours)

**UNIT IX : Theory of Rent, Interest & Profit**

Ricardian Theory of Rent - Quasi Scarcity & Differential Rent - Theories of Interest - Liquidity Preference Theory - Loanable Funds Theory - Theories of Profit - Innovation – Dynamic - Uncertainty & Risk Bearing Theory. (20 Hours)

**UNIT X : Welfare Economics**

General Equilibrium & Welfare Economics - Interdependence in the Economy - Classical Neo - Classical Welfare Criteria - Pareto's Criteria - Kaldor Hicks Compensation Criteria - Bergson Samuelson's Social Welfare Functions. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Koutsoyiannis .A “Modern Micro Economics”, Macmillan Press, 2014.
2. H.L.Ahuja, Principles of Micro Economics, S. Chand & Company Ltd, New Delhi 2019.
3. K.N. Verma, Micro Economic Theory, Vishal Publishing Company, New Delhi, 2017.

### **REFERENCE BOOKS:**

1. Joseph E.Stiglitz and Carl E. Walsh, Economics, Norton Company, Inc, New York, International Student Edition, 4<sup>th</sup>Edition, 2006.
2. Robert S. Pindyck and Daniel L.Rubinfeld Micro Economics, 9<sup>th</sup> Edition , Global Edition, Pearson, 2017.
3. Karl E.Case and Ray C. Fair, Principles of Economics, Pearson Education, Twelfth Edition, 2017.
4. Austin Frakt, Mike Piper, “Microeconomics Made Simple”, Simple Subjects, 2014
5. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South Western, Cengage Learning India Private Limited, 8<sup>th</sup> Edition, 2018.
6. Walter Nicholson and Christopher Snyder, Micro Economic Theory- Basic Principles and Extensions, Cengage Learning India Pvt,Ltd, 12<sup>th</sup> Edition, 2017.

### **JOURNALS:**

1. SAGE Journals- Studies in Micro Economics
2. American Economic Journal: Micro Economics on JSTOR

### **E-LEARNING RESOURCES:**

1. <https://www.econpapers.repec.org>
2. <https://www.economicsnetwork.ac.uk>el>.
3. <http://www.cengage.com>
4. <http://www.researchgate.net>
5. <https://www.tutor2u.net/economics>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

<b>CO Number</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Examine the market structure for various kinds of goods
<b>CO 2</b>	Understand oligopoly market structure and trace the development of oligopoly models.
<b>CO 3</b>	Gain practical knowledge about marginal productivity theory.
<b>CO 4</b>	Apply the marginal productivity theory of factor pricing for all factors.
<b>CO 5</b>	Apply general equilibrium conditions for social choice and welfare of the society

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	3	3	2	2	2	1
<b>CO2</b>	3	2	2	2	2	2
<b>CO3</b>	3	2	2	2	2	2
<b>CO4</b>	3	2	2	2	2	2
<b>CO5</b>	3	3	2	3	3	3
<b>AVERAGE</b>	<b>3</b>	<b>2.4</b>	<b>2</b>	<b>2.2</b>	<b>2.2</b>	<b>2</b>

**KEY:** STRONGLY CORRELATED-3      MODERATELY CORRELATED-2  
 WEAKLY CORRELATED-1      NO CORRELATION-0

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K 1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory
<b>K1,K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		

**SEMESTER II  
CALCULUS FOR ECONOMICS**

**TOTAL HOURS: 75  
CREDITS: 4**

**COURSE CODE: EC21/2C/CAE  
LTP: 3/2/0**

**COURSE OBJECTIVES:**

1. To enable understanding of Economic relationships with help of Calculus.
2. To equip students to apply calculus to Economic theories.
3. It helps to determine the value of derivatives and its economic applications
4. To understand the determination of multivariable functions in Economics
5. To gain knowledge of the basic theorems of integration and assess the Consumer and Producer surplus

**COURSE OUTLINE:**

- UNIT I : Differentiation**  
Limits and Continuity – Differentiability of a Function – Slope of a Curve – Increasing and Decreasing Functions – Rules - Exponential and Logarithmic Functions - Implicit Differentiation – Economic Applications: Marginal and Elasticity Concepts - Relationship between AR, MR, and Price Elasticity of Demand – Relationship Between Average and Marginal Cost. (15Hours)
- UNIT II : Optimization (Single Variable)**  
Second Order Derivatives - Maximization and Minimization of a Function – Economic Applications – Output and Revenue Maximization - Cost Minimization - Profit Maximization under Perfect Competition, Monopoly, Discriminating Monopoly. (15 Hours)
- UNIT III : Partial Differentiation**  
Partial Derivatives: Rules of Partial Derivatives – Second Order Partial Derivatives - Young’s Theorem -Total Derivatives - Economic Applications: Marginal Productivity, Production Function: Homogeneous and Non – Homogeneous Production Function – Cobb-Douglas Production Function – CES Production Function - Returns to Scale - Euler’s Theorem. (15 Hours)
- UNIT IV : Optimization (Two Variables)**  
Optimization with Two Variables: Output, Revenue and Profit Maximization under Perfect Competition – Monopoly – Discriminating Monopoly – Constrained Optimization – Lagrangian Method -Utility and Profit Maximization and Cost Minimization. (15 Hours)
- UNIT V : Integration and its Economic Applications**  
Integral Calculus: Rules – Integration by Substitution – Integration by Parts - Definite Integrals –Properties of Definite Integrals – Economic Applications: Derivation of Total Functions – Consumer’s Surplus and Producer’s Surplus. (15 Hours)



## **RECOMMENDED TEXTBOOKS:**

1. Carl P Simon & Lawrence E. Blume, Mathematics for Economists, Published by W. W. Norton & Company, 2010.
2. Edward T Dowling, Schaum's, Outline of Introduction to Mathematical Economics, 3<sup>rd</sup> Edition McGraw Hill Publication, 2011.

## **REFERENCE BOOKS:**

1. Chiang A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York, 2017.
2. Jean E. Weber, Mathematical Analysis, Business and Economics Applications, Harper International Edition, Cambridge March 1, 1982.
3. Laurence D. Hoffmann, Gerald L. Bradley, Calculus for Business Economics and the Social and Life Science, McGraw Hill, New York 10<sup>th</sup> Edition, 2016.
4. Mabbet, A.J., Workout Mathematics for Economists, Macmillan Master Series, 4<sup>th</sup> Edition London, 1986.
5. Geoff Renshaw, Math's for Economics, 4<sup>th</sup> Edition, Oxford University Press, 2021.
6. Allen R G D, Mathematical Analysis for Economists, Macmillan India Ltd, 2014.

## **JOURNALS**

1. Journal of Mathematical Economics
2. Journal of Applied Economics

## **E- LEARNING RESOURCES:**

1. <https://academicearth.org/economics>
2. <http://people.albion.edu/christiansen/micwcalc/screen1.pdf>
3. <https://rescuoc.edu/>
4. <https://ocw.mit.edu>
5. <https://www.edx.org/course/subject/economics-finance>
6. <https://www.coursera.org/learn/mathematics-for-economists>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Apply Differentiation in Economics
CO 2	Determine the value of derivatives and its economic applications
CO 3	Compare and contrast the role of total derivatives and partial derivatives in Economics.
CO 4	Determination of multivariable functions in Economics
CO 5	Gain knowledge of the basic theorems of integration and assess the Consumer and Producer surplus.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	1	3	1	3	2
CO2	3	1	3	1	1	1
CO3	3	1	3	1	2	1
CO4	3	1	3	1	2	2
CO5	3	1	3	2	2	2
<b>AVERAGE</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1.2</b>	<b>2</b>	<b>1.6</b>

**KEY :**            STRONGLY CORRELATED - 3                    MODERATELY CORRELATED - 2  
                          WEAKLY CORRELATED - 1                        NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 1	A-10x2 Marks	50	20	100	Question No.- is Compulsory Section A must have 6 theory and 4 problems
K1, K 2	B-5/8x8 Marks	300	40		Section B must have 2 theory and 6 problems
K2, K 3	C-2/4x20 Marks	1200	40		Section C must have 1 theory and 3 problems

**SEMESTER II  
MANAGEMENT ACCOUNTING**

**TEACHING HOURS: 90**

**Credits: 5**

**COURSE CODE: EC21/2A/MAA**

**LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To understand the basic concepts of management accounting
2. To analyse and interpret financial reports
3. To equip them to prepare ratio analysis and cash flow analysis
4. To understand the concept of fund, cash from operations and Cash flow Statement
5. To enable the students to prepare various types of Budgets

**COURSE OUTLINE:**

- UNIT I : Management Accounting**  
Management Accounting – Meaning, Characteristics – Nature and Scope of Management Accounting Distinction between Management and Financial Accounting – Advantages and Disadvantages of Management Accounting.  
(10 Hours)
- UNIT II : Financial Statements**  
Financial Statements – Meaning, Nature, Importance and Limitations of Financial Statements – Analysis and Interpretation of Financial Statements, Tools of Analysis - Comparative Statement Analysis, Common Size Statements and Trend Analysis.  
(20 Hours)
- UNIT III : Ratio Analysis**  
Accounting Ratios – Meaning – Objectives – Advantages - Limitations – Calculations of Profitability Turnover and Financial Ratios (Simple Problems)  
(20 Hours)
- UNIT IV : Cash Flow Analysis**  
Concept of Fund - Schedule of Changes in Working Capital – Funds from Operations – Cash from Operations - Preparation of Cash Flow Statement - Importance of Cash flow Statement (Simple Problems). (25 Hours)
- UNIT V : Budget**  
Budgetary Control – Objectives - Advantages – Limitations - Preparation of Production Budget - Purchase Budget - Cash Budget. (15 Hours)

**RECOMMENDED TEXT BOOKS:**

1. Maheswari S.N., Principles of Management Accounting, Sultan Chand and Sons, New Delhi, 2021.
2. Reddy.T. S. & Hariprasad Reddy.Y\_ Financial and Management Accounting, Margham Publication, Chennai 2013.

**REFERENCE BOOKS:**

1. Jain and Narang, Cost and Management Accounting, Kalyani Publishers, New Delhi, 2012.
2. Murthy A & Gurusamy S, Management Accounting, McGraw Hill Education; 2009.
3. Dr.S.P.Gupta & K.L Gupta, Management Accounting, Sahitya Bhawan Publications; 2019.
4. M.Y.Khan P.K.Jain, Management Accounting, McGraw Hill Education, 2017.
5. Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers, 2017.

**JOURNALS:**

1. Accounting and Business Research
2. Accounting Education
3. Advances in Management Accounting

**E-LEARNING RESOURCES:**

1. [http:// www.accounting education.com](http://www.accountingeducation.com)
2. <http://www.accountingcoach.com>
3. <http://www.accountingstudyguide.com>
4. <http:// www.futureaccountant.com>
5. <http:// www.thestudentcpa.com>

**COURSE OUTCOMES:**

On Completion of the course the students will be able to

CO NUMBER	CO STATEMENT
CO1	Understand the basic concepts of Management Accounting
CO2	Analyse and Interpret the Financial Statements and Reports
CO3	Calculate Ratios
CO4	Prepare Funds from operations and Cash flow Statement
CO5	Prepare various types of Budgets

**MAPPING- COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME:**

CO/PSO	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	1	0	3	3	0	1
CO2	1	0	3	3	3	2
CO3	1	0	3	3	2	2
CO4	1	0	3	3	3	2
CO5	1	0	3	3	3	2
<b>AVERAGE</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2.2</b>	<b>1.8</b>

**KEY:STRONGLY CORRELATED - 3**  
**WEAKLY CORRELATED -1**

**MODERATELY CORRELATED -2**  
**NO CORRELATION -0**

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 1	A-10x2 Marks	50	20	<b>100</b>	Question No.- is compulsory Section A must have 7 theory and 3 problems
K1, K 2	B-5/8x8 Marks	300	40		Section B must have 2 theory and 6 problems
K2, K 3	C-2/4x20 Marks	1200	40		Section C must have 4 problems

**SEMESTER III**  
**HISTORY OF ECONOMIC THOUGHT**

**TOTAL HOURS: 75**

**COURSECODE: EC21/3C/HET**

**CREDITS: 4**

**LTP: 3/2/0**

**COURSE OBJECTIVES**

1. To understand the evolution of Economic Ideas under various schools of thought.
2. To expose students to the Economic Ideas of Nobel Laureates and gain knowledge on ideas of renowned Indian Economists.
3. To compare the thoughts of neo classical institutional economies and modern economics
4. To emphasize the students to explore the post Keynesian ideas.
5. To know about the ideas of Indian economic thinkers.

**COURSE OUTLINE:**

- UNIT I : Early Period**  
Economic Thought of Plato and Aristotle - Doctrines of Just Cost and Just Price - Mercantilism: Main Characteristics; Thomas Mun – Physiocracy - Natural Order, Net Product - Tableau Economique - Taxation -Turgot.  
(15Hours)
- UNIT II : Classicism and Socialism-**  
Adam Smith - Division of Labour and Specialisation, Theory of Value, Capital Accumulation, Distribution, Views on Trade, Economic Progress; David Ricardo -Theory of Rent, Distribution, Ideas on Economic Development and International Trade; Thomas R. Malthus - Theory of Population, Theory of Gluts - Marx and Scientific Socialism - Communist Manifesto - (Marxian) - Surplus Value – Law of Capitalist Accumulation – Class Conflict – Capitalist Exploitation. (20 Hours)
- UNIT III : Neo- Classical Economics and Institutional School**  
Alfred Marshall - Stationary State – Utility – Consumers Surplus - Elasticity of Demand - Quasi Rent - Laws of Returns - Walras - General Equilibrium; Pigou: Welfare Economics. Institutional Economics - Thorstein Veblen - Business Enterprises - Theory of Leisure Class - Veblen Effect – J.R. Commons - Historical School – Tenets – Wilhelm Roscher - Marginal School Tenets - William Stanley Jevons. (15 Hours)
- UNIT IV : Keynesian Concepts and Ideas**  
Effective Demand -Theory of Employment - Consumption - Savings and Investment - MEC - Liquidity Preference Theory- Multiplier - Inflation - Great Depression - J.A. Schumpeter - J.M. Clark - Lionel Robbins - Joan Robinson. - Nobel Laureates since 2015 (40 Hours)
- UNIT V : Indian Economic Thought**  
Kautilya -Thiruvalluvar - Dr.B.R.Ambedkar -E.V.R. Periyar - K. Kamaraj - Dadabai Naoroji – M.G. Ranade - R.C.Dutt – Gadgil – Gandhian Thought - Jawaharlal Nehru - P.C.Mahalanobis - Indira Gandhi - Comparison of Tamil Nadu Economic Models with Kerala and Maharashtra. (15 Hours)

**RECOMMENDED TEXTBOOKS:**

1. S.K.Srivastava, History of Economic Thought, S.Chand Publication, 2002.
2. Heinz D Kurz ,”Economics Thought: A Brief History”, Columbia University Press; 2017.

**REFERENCE BOOKS:**

1. M.L Jhingan ,M.Girija , L.Sasikala, History of Economic Thought 3<sup>rd</sup> Edition, Virnda Publication 2014.
2. R.R.Paul , History of Economic Thought, Kalyani Publishers, 2019.
3. E.K. Hunt and Mark Lautzenheiser, History of Economic Thought, 3<sup>rd</sup> Edition, Routledge Publication 2011.
4. Steven G. Medema and Warren J. Samuels, The History of Economic Thought- A Reader, 2<sup>nd</sup> Edition, Routledge Publication, 2013.
5. Isaac Ilyich, A History of Economic Thought , Rubin Pluto Publication, 2013.

**JOURNALS:**

1. The European Journal of the History of Economic Thought
2. History of Economic Ideas: HEI

**E-LEARNING RESOURCES:**

1. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
2. <https://ocw.mit.edu>
3. <https://www.inomics.com>insight>tap>
4. <https://www.tonybates.ca>
5. <https://www.economicsnetwork.ac.uk>
6. <https://www.conted.ox.ac.uk>

## COURSE OUTCOMES:

**On Completion of the course the students will be able to**

CO NUMBER	CO STATEMENT
CO 1	Discuss the evolution of early economic ideas
CO 2	Explain the Economic ideas of classical economists
CO 3	Compare the thoughts of neo classical institutional economists and modern economists
CO 4	Explain modern economic theories
CO 5	Outline the ideas of renowned Indian Economists

### MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	1	2	3	2
CO2	3	3	1	3	2	2
CO3	3	3	1	2	2	2
CO4	3	2	1	2	2	2
CO5	2	2	1	2	3	2
AVERAGE	2.8	2.8	1.0	2.2	2.4	2.0

**KEY :**            STRONGLY CORRELATED - 3            MODERATELY CORRELATED - 2  
                         WEAKLY CORRELATED - 1            NO CORRELATION - 0

### QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 1	A-10x2 Marks	50	20	100	Question
K1, K 2	B-5/8x8 Marks	300	40		No.- is
K2, K 3	C-2/4x20 Marks	1200	40		compulsory



**SEMESTER III**  
**STATISTICS FOR ECONOMICS**

**TOTAL HOURS: 75**  
**CREDITS: 4**

**COURSE CODE: EC21/3C/STE**  
**LTP: 3/2/0**

**COURSE OBJECTIVES:**

1. To provide an understanding on statistical concepts
2. To acquire complete knowledge on descriptive statistics
3. To enable the students the application of statistical tools in Economics.
4. To prepare students for further courses involving quantitative components.
5. To acquire knowledge on the application of test of Hypotheses in Research in Economics.

**COURSE OUTLINE:**

- UNIT I : Descriptive Statistics**  
Descriptive Statistics, Measures of Central Tendency - Mean, Median and Mode - Measures of Dispersion – Range, Quartile Deviation, Mean Deviation and Standard Deviation. (15 Hours)
- UNIT II : Correlation and Regression**  
Correlation –Types of Correlation, Simple Correlation, Methods - Karl Pearson’s Coefficient of Correlation – Rank Correlation – Regression – Simple Regression -Regression Lines and Equation. (15 Hours)
- UNIT III : Index Numbers**  
Index Numbers - Methods – Unweighted and Weighted Index Number - Test of Adequacy of Index Number - Formulae Consumer Price Index - Wholesale Price Index. (15 Hours)
- UNIT IV : Probability and Theoretical Distributions**  
Probability - Addition and Multiplication Theorems- Conditional Probability -Theoretical Distributions - Binomial, Poisson and Normal. (15 Hours)
- UNIT V : Testing of Hypothesis**  
Hypothesis Testing – Concepts – Level of Significance – Errors in Testing – t- test– Paired t-test – Chi-Square Test, F-test – Analysis of Variance – One way and Two way ANOVA. (15 Hours)

### **RECOMMENDED TEXT BOOKS:**

1. S.P.Gupta, Statistical Methods, Sultan Chand and Sons, New Delhi, 2017.
2. R.S.N.Pillai and V. Bagavathi, Statistics, Sultan Chand and Sons, New Delhi, 2019.

### **REFERENCE BOOKS:**

1. Dr.T.K.V.Iyengar, Dr.B.Krishna Gandhi S.Ranganantham, Dr.M.V.S.S.N Prasad, Probability and Statistics, S.Chand and Co, 2020.
2. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand and Sons, 2020.
3. S.C. Gupta, Fundamentals of Statistics, Himalaya Publishing House Pvt. Ltd, 2018.
4. Sancheti D.C and Kapoor, Statistical Theory-Method and Application, Sultan Chand and Sons, New Delhi 2017.
5. Dr.S.Sachdeva, Statistics , Lakshmi Narain Agarwal Publisher, 2014.

### **JOURNALS :**

1. The Journal of the American Statistics Association
2. Sankhya the Indian Journal of Statistics
3. Journal of Probability and Statistical Sciences

### **E-LEARNING RESOURCES:**

1. <https://elearning industry.com>
2. <https://www.statista.com>.
3. <https://techjury.net>
4. <https://www.elearningworld.org>
5. <https://www.sas.com>

## COURSE OUTCOME

On Completion of the course the students will be able to:

CO NUMBER	CO STATEMENT
CO1	Calculate and interpret the various descriptive measures of Centrality and Dispersion,
CO2	Analyse the Relationship between variables and its causes through Correlation and Linear Regression model.
CO3	Measure CPI and WPI of a country over the time period.
CO4	Summarize the basic probability rules and provide an understanding on theoretical distributions.
CO5	Acquire knowledge on the application of test of Hypotheses in Research in Economics (Social Science)

MAPPING- COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME:

CO/PSO	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	2	1	3	3	2	2
CO2	2	1	3	3	2	2
CO3	3	2	3	3	3	3
CO4	2	1	3	3	3	3
CO5	3	2	3	3	3	3
AVERAGE	2.4	1.4	3	3	2.6	2.6

**KEY:** STRONGLY CORRELATED-3 MODERATELY CORRELATED-2  
WEAKLY CORRELATED -1 NO CORRELATION -0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K 1	A-10x2 Marks	50	20	100	Question No.- is Compulsory Section A must have 7 theory and 3 problems
K1, K 2	B-5/8x8 Marks	300	40		Section B must have 2 theory and 6 problems
K2, K 3	C-2/4x20 Marks	1200	40		Section C must have 1 theory and 3 problems

**SEMESTER III  
RURAL ECONOMICS**

**TOTAL HOURS: 90  
CREDITS: 5**

**COURSE CODE: EC21/3A/RUE  
L-T-P:3/3/0**

**COURSE OBJECTIVES:**

1. To know about the features of Rural Economy of India.
2. To acquaint the students to the problems of Rural Economy and find solutions.
3. To have an insight about the various Government aided rural upliftment programmes.
4. To understand planning, and infrastructural support, Government Schemes for housing, employment and livelihood.
5. To understand the status of rural agriculture and industrial sector.

**COURSE OUTLINE**

**UNIT I : Rural Economy**

Nature - Scope and Factors Determining Rural Economy - Characteristics – Contributions of Rural Economy - Social Aspects of India's Rural Areas - Barter System - Non-Monetized Sector – Economic Characteristics - Land and Asset Distribution – Agricultural Income – Vagaries of Monsoon.

(15 Hours)

**UNIT II : Employment**

Rural Unemployment - Types and Magnitude, Agricultural Labour – Marginal Productivity – Agricultural Wage – Minimum Wages Act, Rural Employment Programme MGNREGA – Rural Poverty – Nature, Causes and Consequences – Poverty Alleviation Programmes - NRLM (National Rural Livelihoods Mission)

(15 Hours)

**UNIT III : Agriculture**

Agricultural Marketing – Minimum Support Price Linked to Production Cost - Agriculture Marketing Development – e-NAM System (Online Agriculture Market Place) Crop Insurance – Agrarian Distress- Rural Finance - Causes and Magnitude of Rural Indebtedness - Sources of Rural Credit: Unorganized: Money Lenders, Indigenous Bankers, Organized: Co-operatives, Commercial Banks, Regional Rural Banks – NABARD.

(20 Hours)

**UNIT IV : Rural Development Programmes**

Rural -Urban Divide - Rural Development Programmes - Rural Roads – Pradhan Mantri Gram Sadak Yojana – Rural Housing Programme - Pradhan Mantri Awaas Yojana - Pradhan Mantri Ujjwala Yojana - National Rural Livelihood Mission.

(20 Hours)

**UNIT V : Rural Industry**

Rural Industrialization - Agro-Based Industries – Cottage Industries, Rural Artisans – Co-operative Societies- Rural Marketing – Co-operative Marketing – Recent Government Policy for Rural Development – Impact of COVID in Rural India.

(20 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. N.K.Sharma, Rural Economics, RBSA Publisher, 2019.
2. Thomas Nixon Carves, Principles of Rural Economics, Ginni & Co Publisher, 2018

### **REFERENCE BOOKS:**

1. Sanju Verma, Truth and Dare: The Modi Dynamic, Blue Rose Publishers, March 2019.
2. Katar Singh, Rural Development: Principles, Policies and Management, Sage Texts, 2016.
3. P.Raghu Kumar & S.Subba Reddy, Agriculture Finance and Management, Oxford and IBH Publishing Co, 2018.
4. J.Mathew Fanin, John Pender et al, Rural Wealth Creation, Taylor & Francis Group Publishers, 2017.
5. Gyanindra Das & Rajan Kumar Sahoo, Agriculture and Rural Economy, Regal Publication, 2017.
6. Paul.W.W.Backley, Bruce. A. Weber et al, Frontiers in Resource and Rural Economics – Human – Nature, Rural – Urban – Interdependence, An RFF Press Book, 2017.
7. Davide Viaggi, Ashok Kumar Mishra et al, Public Policy in Agriculture: Impact of Labour Supply & Household Income, Oxon Publication, 2017.

### **JOURNALS:**

1. Journal of Rural Studies
2. Journal of Rural Economics

### **E-LEARNING RESOURCES:**

1. <http://agricoop.nic.in/ministry-major-schemes>
2. <https://www.india.gov.in/website-ministry-agriculture-farmers-welfare>
3. <http://www.fao.org/statistics/en/>
4. [https://www.niti.gov.in/writereaddata/files/document\\_publication/Rural](https://www.niti.gov.in/writereaddata/files/document_publication/Rural)
5. <https://archive.india.gov.in/citizen/graminbharat/graminbharat.php>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Recall the Rural Economy and its features, social characteristics and trade.
CO 2	Interpret the employment, effects of joblessness, output capacity, economic shortfalls, and its effects.
CO 3	Have an understanding of issues confronting rural economy related to debts, sales, profit, protection cover, loans and sources.
CO 4	Review planning, and infrastructural support, Government schemes for housing, employment and livelihood in India
CO 5	Obtain knowledge on collective industrial development models and Government framework for Rural Development.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	1	2	2	3
CO2	3	3	3	2	3	3
CO3	3	3	2	2	2	3
CO4	2	2	3	2	2	2
CO5	3	2	2	2	2	3
<b>AVERAGE</b>	<b>2.8</b>	<b>2.4</b>	<b>2.2</b>	<b>2</b>	<b>2.2</b>	<b>2.8</b>

**KEY:** STRONGLY CORRELATED - 3      MODERATELY CORRELATED - 2  
WEAKLY CORRELATED - 1      NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

## SEMESTER III

### ECONOMICS OF AGRICULTURE AND INDUSTRY

**TOTAL HOURS: 90**  
**CREDITS : 5**

**COURSE CODE: EC21/3A/EAI**  
**LTP:3/3/0**

#### **COURSE OBJECTIVES:**

1. To study the overview of Agriculture in Indian Economic Scenario.
2. To Gain knowledge on issues related to farmers in agricultural sector.
3. To assess the policies of Industrial sector
4. To Examine tools and factors influencing labor productivity.
5. To acquire the knowledge to review the trends in agricultural and Industrial policies and its impact in our economy

#### **COURSE OUTLINE:**

- UNIT I** : **Introduction**  
Scope of Agricultural Economics – Role of Agriculture in Economic Development - Farming Systems: Types - Agricultural Production – Trends in Agricultural Growth – Inter- Regional Variations in Growth of Output and Productivity – An Overview of Green Revolution. (15 Hours)
- UNIT II** : **Agriculture**  
Post Agricultural Reform – Agro Based Industries - Sustainable Agriculture - Organic Farming – Information Technology – Issues of Farmers – PURA - Poverty – Farmers’ Suicide – Rural Labor Market - Gender Issues in Agricultural Services – Impact of Loan Waivers – PDS and Food Security. (20 Hours)
- UNIT III** : **Industry**  
Industrial Structure and Economic Growth – Industrial Efficiency – Determinants and Measurements –Industrialization: Inhibiting Factors – Patterns of Industrialization – Public and Private: Large, Medium and Small Industries. (15 Hours)
- UNIT IV** : **Industrial Productivity**  
Determinants of Industrial Location – Need for Balanced Regional Development in India – Importance and Measurement of Productivity – Tools of Productivity – Factors Influencing Industrial Productivity – National Productivity Council – Theory of Technological Innovation – Diffusion of New Technology. (20 Hours)
- UNIT V** : **Agriculture and Industrial Policies**  
New Economic Policy – Agriculture – Industry – Globalization of Indian Agriculture – International Trade in Agricultural Commodities – Role of MNCs – Privatization and Globalization –Agreement on Agriculture (AoA) - WTO and its Impact – Globalization in Indian Industry – Privatization and Issues relating to Disinvestment Policy – MSMEs - Make in India - Start up India – Aatma Nirbhar Bharath. (20 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. R.K.Lekhi & Joginder Singh, “Agricultural Economics”, Kalyani Publishers, 2017.
2. Dr.B.P.Tyagi, Agricultural Economics & Rural Development, Jai Prakashnath & Co., 2017.
3. R.R. Barthwal, “Industrial Economics”, New Age International Publishers, New Delhi 2016.
4. Dennis W.Carlton and Jeffrey M.Perloff, Modern Industrial Organisation, Cambridge University Press, 2015.

### **REFERENCE BOOKS:**

1. John.B.Penson, Jr.Oral Capps, Jr.C.ParrRosson III, Richard.T.Woodward, “Introduction to Agricultural Economics”, Pearson Publications, 2017
2. S.Subha Reddy, P.Raghu Ram, T.V.NeelakanthSastry, I. Bhavani Devi, Agricultural Economics, Oxford University Press, 2015.
3. R.R.Barthwal, “Industrial Economics- An Introductory Textbook”, New Age International Publishers, 2017
4. Sahitya Bhawan, “Industrial Economics”, SPPD Publications, 2016
5. Government of India (Annual) Report of the National Commission on Agriculture, New Delhi.
6. Government of India, Economic Survey (Annual), New Delhi.

### **JOURNALS**

1. Journal of Agricultural Economics, Volume 101, Issue 4, 2019.
2. International Journal of Agricultural Economics, Volume 4, Issue 5, 2019.
3. International Journal of Industrial Organization
4. The Journal of Industrial Economics

### **E-LEARNING RESOURCES:**

1. <https://www.elearning.fao.org/agricultureconomics>.
2. <https://www.classcentral.com/agricultureconomics>
3. <https://www.parisschoolofeconomics.eu/en/industrial-organization>
4. [https:// www.studyingeconomics.ac.uk/industrial-economics](https://www.studyingeconomics.ac.uk/industrial-economics)



**COURSE OUTCOMES:**

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

CO NUMBER	CO STATEMENT
CO1	Assess the importance of Agriculture and its trends on Agricultural growth in India.
CO2	Gain in-depth knowledge about issues related to farmers along with gender issues in agricultural sector.
CO3	Explain the concepts of industrial economics and determinants of measurement in industrial efficiency.
CO4	Examine tools and factors influencing industrial and labor productivity.
CO5	Review the trends in agricultural policies. Evaluate new Industrial policies and its impact in our economy.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	2	2	1	2	2
CO2	1	2	2	2	3	3
CO3	3	2	2	1	2	1
CO4	2	2	2	2	3	3
CO5	2	1	1	1	2	2
<b>AVERAGE</b>	<b>2</b>	<b>1.8</b>	<b>1.8</b>	<b>1.4</b>	<b>2.4</b>	<b>2.2</b>

**KEY: STRONGLY CORRELATED - 3**  
**WEAKLY CORRELATED - 1**

**MODERATELY CORRELATED - 2**  
**NO CORRELATION - 0**

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER III**  
**COMPUTER APPLICATIONS IN ECONOMICS**

**TOTAL HOURS: 90**

**COURSE CODE: EC21/3A/CAE**

**CREDITS: 5**

**LTP :3/2/1**

**COURSE OBJECTIVES:**

1. To enable the students to the basic concepts on computer applications.
2. To gain knowledge on application of Digital tools in Economic analysis.
3. To understand economic concepts using MS Excel
4. To acquire knowledge to creating formulae using mathematical and statistical functions in Business analysis
5. To learn Economic Applications using SPSS

**COURSE OUTLINE:**

- UNIT I : Introduction to Computers**  
Computer and Peripherals - Meaning – Types - Features and Limitations – Basic Components –Input and Output Devices – Primary Memory and Secondary Storage – Computer Software – Types – Malicious Software – Operating Systems – Functions and Types. (20Hours)
- UNIT II : MS Office**  
Windows Explorer - MS Word: Basic Operations in Word – Editing – Formatting – Text Creation of Tables and Volumes - MS Excel: Work Sheet and Work Book - Opening and Formatting - MS PowerPoint: Presentation - Creating, Opening and Saving the Slideshow Animations (15 Hours)
- UNIT III : Data Processing**  
Data Processing Techniques using MS Excel: Concept of Data – Record and File – Types of Data – Data Entry – File Handling and Operations – Opening, Appending and Cascading – Closing and Attribute Controls – Data Storage and Retrieval. (15Hours)
- UNIT IV : Applications of MS Excel**  
MS Excel – Preparation and Formatting of Text, Tables and Graphs – Estimation of Descriptive Statistics: Mean – Median – Mode - Standard Deviation – Variance - Index Numbers and Growth Rates - Demand Function - Supply Function, Production Function, Consumption Function -Demand for and Supply of Money. (20 Hours)
- UNIT V : Data Analysis**  
Data Analysis using SPSS - Basics – Data Entry – Computing - Statistical Package Handling and Command Description for SPSS – Preparation of Graphs – Reports - Descriptive Statistics: Mean – Median – Mode - Standard Deviation - Variance - Correlation and Regression Models - Time Series Analysis. (20 Hours)

**RECOMMENDED TEXTBOOKS:**

1. K.Dhanasekaran, Computer Application In Economics, Vrinda Publications; 1<sup>st</sup> Edition, 2010.
2. Oscar Afonso , Paulo B. Vasconcelos, Computational Economics: A Concise Introduction, Routledge; 1<sup>st</sup> Edition, 2015.

**REFERENCE BOOKS:**

1. Alexis Leon and Mathews Leon: Introduction to Computers with Ms-Office 2000,1Edition, 2001.
2. Greg Harvey, PhD Microsoft Office Excel 2007 For Dummies, Wiley Publishing, Inc., 2007.
3. Kerns: Essentials of Microsoft Windows, Word and Excel, 1992.
4. Hoffer, Jeffrey A, Marry B. Prescott, and Fred R. McFadden Modern Database Management; Pearson Education, New Delhi, 8<sup>th</sup> Edition, 2006.
5. Asthana and Braj Bhushan : Statistics for Social Sciences (with SPSS Applications), 2007.

**JOURNALS:**

1. International Journal of Economics and Business
2. International Journal of Computer Mathematics - Taylor and Francis

**E-LEARNING RESOURCES:**

1. <http://pdfs.semanticscholar.org>
2. <http://www.researchgate.net>
3. <http://www.core.ac.uk>>pdf
4. <http://www.x-cell.com>
5. <https://dergipark.org.tr/en/download/article-file/331298>

**COURSE OUTCOMES:****On Completion of the course the students will be able to**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Outline the basic concepts of computer peripherals, primary and secondary memory and functions of operating system.
<b>CO 2</b>	Application of economic concepts using MS Word, MS Excel and PPT.
<b>CO 3</b>	State the importance of Data analysis using Excel, creating formulae using mathematical and statistical functions in Business analysis.
<b>CO 4</b>	Using MS Excel in Economics.
<b>CO 5</b>	Economic Applications using SPSS

**MAPPING – COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	2	2	2	2	2	2
<b>CO2</b>	2	2	2	2	2	2
<b>CO3</b>	3	2	3	2	3	2
<b>CO4</b>	3	2	3	2	3	2
<b>CO5</b>	3	2	3	3	3	3
<b>AVERAGE</b>	2.6	2	2.6	2.2	2.6	2.2

**KEY: STRONGLY CORRELATED - 3**  
**WEAKLY CORRELATED-1**

**MODERATELY CORRELATED - 2**  
**NO CORRELATION – 0**

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory
<b>K1, K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		

**SEMESTER III**  
**TRAINING FOR COMPETITIVE EXAMINATIONS**

**TOTAL HOURS: 30**  
**CREDITS: 2**

**COURSE CODE: EC21/3N/TCE**  
**LTP:1/1/0**

**COURSE OBJECTIVES:**

1. To enable the students to gain knowledge in Current Affairs.
2. To train in Quantitative Aptitudes and Reasoning to face Competitive Examinations.

**COURSE OUTLINE:**

- UNIT I** : General Knowledge - Current Affairs (Regional, National, International) – History (Ancient Medieval & Modern) - Geography (International and India) – Economy of India - GDP - Population - Poverty - Employment - Education - Health - Environmental Issues and Disaster Management - Women Literacy - Gross Enrollment Ratio (GER) - Women Employment and Labour Participation - Central and State Government Programmes - Inflation (**Objective Type**).  
(10 Hours)
- UNIT II** : Quantitative Aptitude - Basic Problems - Number Series - Ages - Percentages - Ratio - Profit & Loss - Time and Distance - Interest -Trains - Clocks (**Objective Type**).  
(10 Hours)
- UNIT III** : Verbal Reasoning - Non - Verbal Reasoning - Analytical Reasoning - Data Interpretation (**Objective Type**).  
(10 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. R.S.Aggarwal,A Modern Approach to Verbal and Non Verbal Reasoning. S. Chand and Company Ltd, 2017.
2. Edgar Thorpe & Showick Thorpe, The Pearson General Knowledge Manual,16<sup>th</sup> Edition, Pearson Education, 2018
3. Manohar Pandey, General Knowledge, Arihant Publications, 2021.

### **REFERENCE BOOKS:**

1. Dr.R.S.Aggarwal, Quantitative Aptitude for Competitive Examinations ,S.Chand Publication, 2018.
2. Abhijit Guha , Quantitative Aptitude for Competitive Examinations, Tata McGraw Hill Publication, 2018.
3. Shashi Tharoor, Tushar. Gandhi, Avik Sarkar Paranjoy Guha Thakurta, Manorama Yearbook, 2019.
4. Jagran Team, Jagran Yearbook 2019, Publisher: Jagran.
5. Disha Experts, 10000+ Objective MCQs, Kindle Publishers, 2019.
6. Nishit K Sinha Reasoning book for Competitive Examinations, Pearson Publication 2019.

### **E- LEARNING RESOURCES**

1. <http://www.onlinemania.com/>
2. <http://www.winmeen.com>tnpsc>
3. <http://www.careerlauncher.com>banking>>
4. <http://www.careerpower.inonline-bank-coaching.html>
5. <http://www.vidyaguru.in/bankcoaching>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

<b>CO Number</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Assimilate general knowledge on current affairs and other subjects.
<b>CO 2</b>	To solve problems of Quantitative Aptitude.
<b>CO 3</b>	Have an insights of Verbal and Analytical Reasoning

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K 1, K2,K3</b>	<b>A-50x1 Marks MCQ</b>	<b>-</b>	<b>50</b>	<b>50</b>	Question No.- is compulsory

**SEMESTER IV  
INDIAN ECONOMY**

**TOTAL HOURS: 75  
CREDITS: 4**

**COURSE CODE: EC21/4C/INE  
LTP: 3/2/0**

**COURSE OBJECTIVES**

1. To understand the basic characteristics of Indian Economy.
2. To study the objectives of New Agriculture Policy and subsidies.
3. To understand industrial structure and composition of industries
4. To understand the role of sectoral contribution.
5. To identify various poverty alleviation programmes

**UNIT I : Economic Development and Planning**

Economic Development - Determinants - Indicators - PQLI - HDI - GDI - Human Capital Development - Demographic Dividend - Planning in India - Liberalization - Privatization - Globalization (LPG) Model of Development - NITI Aayog - Functions - FDI - Regional Inequality in India - Causes - Policies for Balanced Regional Development. (15 Hours)

**UNIT II : Agricultural Reforms**

Agriculture - Importance - Land Reforms - Cropping Pattern - Types - New Agricultural Policy (NAP): Farm Bills 2020. New Agricultural Policy and Subsidies - Agricultural Marketing - New Agricultural Marketing Reforms - e - NAM- Objectives and Importance - Food Security - Need - Current Status - Issues - Revamped Public Distribution System - Agricultural Finance. (15 Hours)

**UNIT III : Industrial Reforms**

Industry - Structure and Composition of Industries - Industrial Policy Reforms - MSME - Recent Policy Initiatives: Make in India - Start up India - Implementation of GST and its Impact on Industrial Sector. (15 Hours)

**UNIT IV : Service Sector**

Service Sector in India - Role - Sectoral Contribution - Performance - Challenges Information Technology and Information Technology Enabled Services (ITES) - Tele Communications - Tourism - Knowledge Economy (15 Hours)

**UNIT V : Poverty and Unemployment**

Poverty in India - Magnitude and Determinants - Poverty Line - Trends - Patterns of Rural and Urban Poverty - Poverty Alleviation Programmes - Unemployment - Nature - Estimates - Trends - Causes - Employment Generation Programmes in India. (15 Hours)



### **RECOMMENDED TEXTBOOKS:**

1. Gaurav Datt and Ashwani Mahajan, Indian Economy, Sultan Chand and Sons, New Delhi, 2016.
2. I.C.Dhingra, Indian Economy, Sultan Chand and Sons, New Delhi, 2018.

### **REFERENCE BOOKS:,**

1. Uma Kapila- “Indian Economy- Performance & Policies”, 7<sup>th</sup> Edition, 2017.
2. Dutt and Sundharam, Indian Economy, Sultan Chand and Sons, New Delhi, 2016.
3. S.Sankaran, Indian Economy, Margham Publication, Chennai, 2014.
4. A.N.Agarwal, Indian Economy, New Age International Publishers, 2019.
5. Misra and Puri; Indian Economy, Himalaya Publication House, New Delhi, 2017.
6. Himanshu, Employment Trends in India: A Re-examination, Economic and Political Weekly, 2018.
7. Rama Baru et al, Inequities in Access to Health Services in India: Caste, Class and Region, Economic and Political Weekly, 2010.

### **JOURNALS**

1. Indian Economic Journal- Sage Publications
2. International Journal of Trend in Scientific Research and Development

### **E -LEARNING RESOURCES:**

1. [www.ibef.org](http://www.ibef.org)>economy
2. [www.worldbank.org](http://www.worldbank.org)
3. [www.indiastat.com](http://www.indiastat.com)>stats
4. [www.cbhidghs.gov.in](http://www.cbhidghs.gov.in)
5. <https://www.studocu.com/en/document/guru-gobind-singh-indraprastha-university/bachelors-of-business-administration/lecture-notes/indian-economy-notes/3405776/view>

**COURSE OUTCOMES:****On Completion of the course the students will be able to,**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Understand the basic characteristics of Indian economy.
<b>CO 2</b>	Discuss the objectives of New Agriculture Policy and subsidies.
<b>CO 3</b>	Understand industrial structure and composition of industries
<b>CO 4</b>	Understand the role of sectoral contribution
<b>CO 5</b>	Identify various poverty alleviation programmes

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	3	1	2	0	2	3
<b>CO2</b>	3	2	2	2	2	3
<b>CO3</b>	2	2	3	0	2	2
<b>CO4</b>	3	2	2	1	2	2
<b>CO5</b>	2	2	2	1	3	3
<b>AVERAGE</b>	<b>2.6</b>	<b>1.8</b>	<b>2.2</b>	<b>1.6</b>	<b>2.2</b>	<b>2.6</b>

**KEY: STRONGLY CORRELATED - 3****MODERATELY CORRELATED - 2****WEAKLY CORRELATED - 1****NO CORRELATION - 0****QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory
<b>K1, K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		

**SEMESTER – IV**  
**BASIC ECONOMETRICS**

**TOTAL HOURS: 75**  
**CREDITS: 4**

**COURSE CODE: EC21/4C/BAE**  
**LTP: 3/2/0**

**COURSE OBJECTIVES:**

1. To enable the students to understand the basic concepts of Econometrics.
2. To understand the application of economic theories in real time situation with empirical data analysis
3. To apply the properties of Least Squares and the Gauss Markov Theorem in the Precision of two variable Regression Model.
4. To analyse the consequences of Multicollinearity, Heteroscedasticity and Autocorrelation in the Multiple Regression Model.
5. To examine the importance of Dummy variable in ANOVA and ANCOVA models and the use of Logit Model.

**COURSE OUTLINE:**

- UNIT I** : **Introduction to Econometrics**  
Meaning – Definition - Scope and Methodology - Basic Concepts – Stochastic Disturbance Term - Two-Variable Regression Model, Assumptions of CLRM – Gauss - Markov Theorem. (15 Hours)
- UNIT II** : **Multiple Regression**  
Multiple Regression - Concepts of Partial Coefficients - Estimation, Interpretation and Testing of the Coefficients, Relation between Simple and Multiple Regression Coefficients, Coefficient of Determination  $R^2$  - Adjusted  $R^2$  (15 Hours)
- UNIT III** : **Relaxing the Assumptions of Classical Model**  
Multicollinearity - Detection of Multicollinearity - Remedial Measures - Heteroscedasticity – Detection of Heteroscedasticity - Remedial Measures – Autocorrelation – Detecting Auto correlation - Remedial Measures. (15Hours)
- UNIT IV** : **Dummy Variables**  
Dummy Variables – ANOVA and ANCOVA Models – Dummy Variable Trap - Chow Test. - Logit Model – Concept and Estimation. (15 Hours)
- UNIT V** : **Forms of Regression Models**  
Functional forms of Regression Models - The Log – Linear Model – Semi - Log Models : LOG-LIN and LIN -LOG Models - Application of Regression Models in Empirical Analysis. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Damodar N. Gujarathi, Basic Econometrics, McGrawHill,2009.
2. Koutsoyiannis. A, Theory of Econometrics, Palgrave, Delhi, Palgrave Macmillan 2004.

### **REFERENCE BOOKS:**

1. Ramu Ramanathan, Introductory Econometrics with Applications, Thomson Learning Inc, Singapore, 5<sup>th</sup>Edition 2002 .
2. M.Wooldridge, Introductory Econometrics: A Modern Approach, Jeffery 5<sup>th</sup> Edition 2015.
3. Peter Kennedy, A Guide to Econometrics, MIT Press 8<sup>th</sup>Edition, 2020.
4. Damodar N. Gujarathi, Econometrics by Example, Palgrave Publications, 2011.
5. Damodar N. Gujarathi, Essentials of Econometrics, McGraw Hill, 5<sup>th</sup> Edition, 2017.
6. Dominick Salvatore and Derrick Reagle, Statistics and Econometrics, Tata McGraw Hill (Schaum's Series) 2014.

### **JOURNALS:**

1. Journal of Econometrics
2. Journal of Econometric Methods
3. Journal of Applied Econometrics

### **E-LEARNING RESOURCES:**

1. [www.udemy.com/the-basic-econometrics-videocourse](http://www.udemy.com/the-basic-econometrics-videocourse)
2. [www.udel.edu/](http://www.udel.edu/)
3. [http://www.sas.com>resources](http://www.sas.com/resources)
4. <http://www.mathworks.com>
5. [www.statisticssolutions.com/multicollinearity](http://www.statisticssolutions.com/multicollinearity)
6. [www.statisticshowto.datasciencecentral.com](http://www.statisticshowto.datasciencecentral.com)

**COURSE OUTCOMES:**

**On Completion of the course the students will be able to**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Apply the properties of Least Squares and the Gauss Markov Theorem in the Precision of two variable Regression Model.
<b>CO 2</b>	Estimate the Beta Coefficients in Multiple Regression Model and coefficient of determination $R^2$ .
<b>CO 3</b>	Analyse the consequences of Multicollinearity, Heteroscedasticity and Autocorrelation in the Multiple Regression Model.
<b>CO 4</b>	Examine the importance of Dummy Variable in ANOVA and ANCOVA models and the use of Logit Model.
<b>CO 5</b>	Categorize the functional forms of Regression model and the application of Regression Analysis in empirical research.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	2	2	3	3	1	2
<b>CO2</b>	3	2	3	2	2	2
<b>CO3</b>	3	3	3	3	3	3
<b>CO4</b>	3	2	3	2	2	2
<b>CO5</b>	3	2	3	2	2	2
<b>AVERAGE</b>	2.8	2.2	3	2.4	2	2.2

**KEY:** STRONGLY CORRELATED-3  
WEAKLY CORRELATED-1

MODERATELY CORRELATED-2  
NO CORRELATION-0

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory
<b>K1,K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		

**SEMESTER IV**  
**URBAN ECONOMICS**

**TOTAL HOURS: 90**

**COURSE CODE: EC21/4A/ URE**

**CREDITS: 5**

**LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To understand the concepts and features of Urban Economics
2. To help the students to analyse the impact of urbanisation.
3. To understand the students to categorize the trends observed in urban development.
4. To acquire knowledge about the urban labour markets and informal sector.
5. To enable the students to assess the infrastructure necessities and issues in urban Local bodies.

**COURSE OUTLINE:**

- UNIT I : Introduction of Urban Economics**  
Emergence of Urban Economics - Regional Development - Spatial Structure and Growth - Comparison between Developed and Developing Countries – Decentralisation - Regional Inequalities - Difficulties in Measurement of Urban Growth – Urban Poverty – Problems – Measures and Policies - Urban Crimes.  
(15Hours)
- UNIT II : Land Use Pattern**  
Theory of Land Use Pattern – Role of State - National Housing Policy – Slums - Locations and Problems – Slum Development Policy – Land Ceiling – Rent Control – Land Encroachment – Land Grabbing.  
(15Hours)
- UNIT III : Functions and Structure**  
Urbanisation – Structure – Size – Distribution – Growth – Functions - Urban Morphology - Classical Models -Location of Residential and Industrial Activities - Industrial Productivity and Agglomeration - Tertiary Sector- Metropolitan/Mega Cities - Trends World Wide – Indian Situation.  
(20Hours)
- UNIT IV : Labour Markets**  
Urban Labour Markets - Developed and Developing Economies – Informal Sector – Segmentation and Hierarchy – Dualism – Todaro Model - Migration Theory and Empirical Trends in India - Impact of Globalization.  
(20 Hours)
- UNIT V : Issues of Urbanisation**  
Urban Local bodies – Types and Governance – Resource Problems in Urbanisation – Water Management –Transportation – Environment Pollution – Waste Management – Solid – Biomedical – National Urbanisation Policy.  
(20 Hours)

**RECOMMENDED TEXTBOOKS:**

1. I.J., Kanbur, R., & Mohanty, P.K. Urbanisation in India, SAGE Publications, New Delhi. 2014.
2. Jha, R., Chandiramani J, Perspectives in Urban Development: Issues in Infrastructure, Planning and Governance, Capital Publishing Company, New Delhi, 2012.

**REFERENCE BOOKS:**

- 1 Arthur O' Sullivan, Urban Economics, Tata McGraw Hill, 2012.
- 2 Hartwick, John M, Urban Economics, Routledge, 2015
- 3 Henry G. Overman. Max Nathan and Paul.C, "Urban Economics and Urban Policy", Edward Elgar Publishing Limited 2014.
- 4 Isher Judge Ahluwalia, Ravi Kanbur & P.K. Mohanty, Urbanisation in India: Challenges, Opportunities & The Way Forward, Sage Publishing, 2014.
5. Albarazanchi Najim. Urbanization Effect , VDM Verlag. 2010

**JOURNALS:**

1. Journal of Urban Economics, Elsevier, ISSN:0094-1190
2. Indian Journal of Economics & Research, Arthashastra, ISSN: 2278 –1811

**E-LEARNING RESOURCES:**

1. <https://ocw.mit.edu/courses/urba>
2. <http://www.rakeshmohan.com/Urban%20Economy.html>
3. <http://web.worldbank.org/archive/website01291/WEB/OCO-22.HTM>
4. [www.urbaneconomics.com.au/](http://www.urbaneconomics.com.au/)
5. [www.urbaneconomics.org/](http://www.urbaneconomics.org/)

**COURSE OUTCOMES:****On Completion of the course the students will be able to**

CO NUMBER	CO STATEMENT
CO 1	Gain knowledge on city centric economic activities, development and growth parameters.
CO 2	Estimate housing sector demands, the role of Government, distress shelters and restoration of livelihoods.
CO 3	Have knowledge on urban area dynamics, kinds of area classification and commerce based community spaces in current global scenario.
CO 4	Categorize the trends observed in urban development.
CO 5	Assess the infrastructure necessities and impact of urbanization on environment.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	2	3	2	2
CO2	3	3	2	2	2	3
CO3	2	3	2	2	3	2
CO4	2	2	2	2	2	1
CO5	2	2	2	3	3	2
<b>AVERAGE</b>	2.4	2.4	2	2.4	2.4	2

**KEY: STRONGLY CORRELATED-3****MODERATELY CORRELATED-2****WEAKLY CORRELATED-1****NO CORRELATION-0****QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		



**SEMESTER IV  
TAMIL NADU ECONOMY**

**TOTAL HOURS: 90**

**COURSE CODE: EC21/4A/TNE**

**CREDITS: 5**

**LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To highlight salient features of Tamil Nadu economy.
2. To Familiarize students about agricultural pricing policies of Tamil Nadu Economy.
3. To help analyse the role of government in industrial development
4. To identify various welfare schemes of the government
5. To categorize the infrastructures of Tamil nadu economy

**COURSE OUTLINE:**

**UNIT I : Profile of the State**

Tamil Nadu Economy – Growth and Development - Salient Features - Land Area - Livestock - Forest Resources- Water – Minerals – Fisheries - Economic and Social Indicators - HDI – GDI - Poverty Index - Literacy Rate - Life Expectancy - Occupational Pattern - Work Participation Rate (20 Hours)

**UNIT II : Agriculture**

Agriculture- Growth and Trends - Agricultural Production - Productivity - Cropping Pattern - Sources of Irrigation - Agricultural Marketing – Defects - State Policy in Agricultural Pricing - Export Promotion Measures of Agricultural Products - Agricultural Finance and Rural Indebtedness. (15 Hours)

**UNIT III : Industry**

Industrial Growth and Trends - Major Industries – Automobile - Leather - Cotton - Ancillary Units - Cottage Industry - Handloom Industry - MSMEs – Start Ups - Key Determinants -Industrial Clusters – Electrical Vehicles Industry (Ola) - Industrial Finance - Industrial Financial Institutions - Industrial Estates - DIC, EPZ,SPZ, SEZ. (15 Hours)

**UNIT IV : State Finance and Alleviation Programmes**

State Finance - Sources of Finance - Pattern of Expenditure - Recent Budget Trends - Poverty Alleviation Programmes – Unemployment Programmes - Social Welfare Schemes - Women and Child - Health Care Schemes - Mid Day Meals Scheme. (20 Hours)

**UNIT V : General Performance**

Performance of the State – Education - Transport – Communication and IT-e - Commerce -Tourism - Medical Tourism - Environment-Impact of Covid 19 on Tamil Nadu Economy - Role of Tamil Nadu Economic Advisory Council (2021) (20 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Leonard .S.J ,” Tamil Nadu Economy”, Laxmi Publications, 2006.
2. S. Manickam, “Perspectives on Economic Development of Tamil Nadu”, Novena Offset Printing Company, 1<sup>st</sup> Edition, 2014.
3. Rajalakshmi V, Tamil Nadu Economy, (BPI) PVT, Ltd, 2002.

### **REFERENCE BOOKS:**

1. Madras Institute of Development Studies, “Tamil Nadu Economics Performance and Issues, Oxford and IBH Publishing Company Pvt Ltd, New Delhi, 2003.
2. Veeramani A.R., Tamil Nadu Agricultural Economy, Divyasre Publication, 2015
3. Introduction to TN Vision 2023 I macs, 2012.
4. Statistical Handbook of Tamil Nadu, Department of Economics and Statistics, Government of Tamil Nadu, 2019.
5. Ghosh, S. Predictive Model with Analysis of the Initial Spread of COVID-19 in India. International Journal of Medical Informatics, 143, Article ID: 104262 , 2020.
6. Shretta, R. The Economic Impact of COVID-19. University of Oxford, 2020.
7. Economic Survey, Key indicators. Government of India, 2021.

### **JOURNALS:**

1. Journal of Social and Economic Development.
2. International Journal of Economic Policy in Emerging Economies.

### **E-LEARNING RESOURCES:**

1. <http://www.tn.gov.in/>
2. [www.nipfb.org.in](http://www.nipfb.org.in)
3. <https://www.census2011.co.in/census/state/tamilnadu.html>
4. [www.investingintamilnadu.com](http://www.investingintamilnadu.com)
5. [www.tnervis.nic.in](http://www.tnervis.nic.in)
6. <http://siteresources.worldbank.org/INTINDIA/Resources/TamilNadu-AgricultureDevelopment.pdf>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	State the basic features of Tamil Nadu Economy.
CO 2	Agricultural pricing policies of Tamil Nadu Economy.
CO 3	Analyse the role of government in industrial development.
CO 4	Identify various welfare schemes of the government
CO 5	Study the features of Transport Network in Tamil Nadu

**MAPPING : COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	1	2	2	3
CO2	2	2	2	2	2	2
CO3	2	2	2	2	2	2
CO4	2	2	1	1	2	2
CO5	1	1	2	2	2	1
<b>AVERAGE</b>	<b>2.0</b>	<b>1.8</b>	<b>1.6</b>	<b>1.8</b>	<b>2.0</b>	<b>2.3</b>

**KEY :**            STRONGLY CORRELATED - 3            MODERATELY CORRELATED- 2  
                          WEAKLY CORRELATED - 1            NO CORRELATION-0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER IV**  
**ECONOMIC SYSTEMS AND INDIAN POLITY**

**TOTAL HOURS: 90**  
**CREDITS: 5**

**COURSE CODE: EC21/4A/ESI**  
**LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To understand about the Economic systems and Indian Polity.
2. To get in depth knowledge of each economic systems
3. To study and comprehend the history and aspects of the Constitution of India.
4. To understand the structure of the government
5. To acquire knowledge on judicial systems

**COURSE OUTLINE:**

- UNIT I : Economic Systems Evolutions**  
Nature- Scope - Importance of Economic Systems: Definition – Functions – Types of Economic Systems; Broad Features of Primitive Communism, Feudalism, Mercantilism, Capitalism, Socialism, Communism, and Mixed Economy. (15 Hours)
- UNIT II : Economic Systems-Types**  
Evolutions of Capitalism: Laissez-faire Capitalism, Welfare Capitalism, Regulated Capitalism, Industrial Capitalism – Achievements, and Failures of Capitalism - Evolution of Socialism: Utopian Socialism – Marxian Socialism – Market Socialism and Decentralization –Achievements and Failures of Socialism- Mixed Economies: Characteristics–Role of Public - Private Sector in India – Public Private Partnership Models (PPP). (20 Hours)
- UNIT III : Indian Polity**  
Historical Background-Making of the Constitution - Salient Features of the Constitution - The Preamble of the Constitution - Union and its Territory – Citizenship – Fundamental Rights - Directive Principles of State Policy - Fundamental Duties – Amendments of the Constitution - Basic Structure of the Constitution. (20 Hours)
- UNIT IV : Structure of the Government**  
Parliamentary System - Federal System – Centre-State Relations - Inter-State Relations - Emergency Provisions – President -Vice-President - Prime Minister - Central Council of Ministers - Cabinet Committees - Parliament and Proceedings - Committees, Forums and Parliamentary Group. (20 Hours)
- UNIT V : Judicial Systems**  
Supreme Court - Judicial Review - Judicial Activism - Public Interest Litigation - Governor - Chief Minister - State Council of Ministers - State Legislature - High Court - Subordinate Courts - Special Category Status - Election Commission - Finance Commission - Comptroller and Auditor General of India - Attorney General of India - Advocate General of the State- Panchayat Raj and Municipality. (15 Hours)

### **RECOMMENDED TEXT BOOKS:**

1. Desai, S.S.M., Economic Systems, Himalaya Publishing House, Bombay, 2016.
2. M. Laxmikanth, Indian Polity 6<sup>th</sup> Edition, McGraw Hill Publication, 2019.

### **REFERENCE TEXTBOOKS:**

1. Halm, George N Economic Systems, Oxford & IBH Publishing Co., New Delhi, 1970.
2. Sen, K.K., Comparative Economic Systems, Sultan Chand & Sons, New Delhi 2014.
3. Grossman Gregory Economic Systems, Prentice Hall, New Delhi 1984.
4. Indian Polity - The Constitutional Framework and Topical Issues, Spectrum Books Private Limited, January 2019.
5. Indian Polity and Governance, 4<sup>th</sup> Edition, Disha Publication Inc. 2018.

### **JOURNALS:**

1. Economic Systems
2. Indian Journal of Law, Polity and Administration

### **E-LEARNING RESOURCES**

1. <https://corporatefinanceinstitute.com/resources/knowledge/economics/economic-system/>
2. [https://www.google.co.in/books/edition/Indian\\_Polity\\_Governance\\_Compedium\\_for/](https://www.google.co.in/books/edition/Indian_Polity_Governance_Compedium_for/)
3. [https://rajyasabha.nic.in/rsnew/Parliament\\_of\\_India.pdf](https://rajyasabha.nic.in/rsnew/Parliament_of_India.pdf)
4. [https://rajyasabha.nic.in/rsnew/practice\\_procedure/naccount.asp](https://rajyasabha.nic.in/rsnew/practice_procedure/naccount.asp)
5. <https://www.loc.gov/law/help/national-parliaments/india.php>
6. <https://www.thehindu.com/children/parliamentary-system-of-india/article16729568.ece1>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Learn and acquaint with the fundamentals of Economic Systems.
CO 2	Gain in depth knowledge of each economic systems
CO 3	Acquire knowledge about the Indian Polity, making of the Constitution of India and important provisions such as Rights and Duties of a Citizen.
CO 4	Study about the systems of Government and about the various Constitution of India functionaries.
CO 5	Obtain understanding of the important Constitutions of India .

**MAPPING – COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	2	3	2	2
CO2	2	3	2	2	2	2
CO3	3	2	2	3	3	3
CO4	3	3	2	3	3	3
CO5	3	3	3	3	3	3
AVERAGE	2.8	2.6	2.2	2.8	2.6	2.6

**KEY:**      STRONGLY CORRELATED - 3      MODERATELY CORRELATED - 2  
                  WEAKLY CORRELATED - 1      NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory.
K1,K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

## SEMESTER IV

### PERSONALITY GROOMING FOR EMPLOYMENT

**TOTAL HOURS: 30**

**CREDITS: 2**

**COURSE CODE: EC21/4N/PGE**

**LTP: 1/1/0**

#### **COURSE OBJECTIVES:**

1. To enable the students to groom their personality skills.
2. To develop Inter Personal Skills.

#### **COURSE OUTLINE:**

- UNIT I** : Personality- Definition -Determinants- Factors Moulding Personality – Perception-Self Discovery-Personality Test- Impact - Social Effectiveness. (10 Hours)
- UNIT II** : Resume Writing - Interview- Group Discussion - Mock Interview (Practical) (10 Hours)
- UNIT III** : Non-Verbal Communication- Functions - Types - Body Language Corporate Grooming Etiquette. (10 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Gupta ,Woman's Guide To Personality Development: An Effective Self Grooming Guide for Woman,V & S Publishers, 2018.
2. W.Hanson, Resume: Writing 2020 The Ultimate Guide to Writing a Resume that Lands you the Job Independently, Published 2019.

### **REFERENCE BOOKS :**

1. Richard Blazeovich Start-to-Finish Resume Guide: A Beginner's Guide to Writing Winning Resumes Paperback – Import, 27 September 2019
2. Mehta & Gupta Employability Skills (English) Dhanpat Raj Publishing Company. 2019.
3. Sabina Pillai and Agna Fernandez, Soft Skills and Employability Skills, Cambridge University Press, 20 November 2017.
4. P. N. Joshi, Group Discussion on Current Topics, Upkar Prakashan, 2010.
5. Priyadarshi Patnaik, Group Discussion and Interview Skills, Cambridge University Press India, 2015.

### **JOURNALS:**

1. Journal of Personality
2. Personal development articles

### **E-LEARNING RESOURCES:**

1. [http:// www.sciencedirect.com](http://www.sciencedirect.com)
2. <https://budinessknowhow.com>
3. <https://mospace.umssystem.edu>
4. <https://frontiersin.org>
5. <https://www.skillsyouneed.com>



**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	To enhance personal development of students
<b>CO 2</b>	To develop personality skills and train for interviews
<b>CO 3</b>	To improve their communication skills.

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K 1,K2,K3</b>	<b>A-10/12x5</b> <b>Marks</b>	<b>200</b>	<b>50</b>	<b>50</b>	Question No.- is compulsory

**SEMESTER V  
MACROECONOMICS-I**

**TOTAL HOURS: 90  
CREDITS: 4**

**COURSE CODE: EC21/5C/MA1  
LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To trace the evolution of Macroeconomic Theories.
2. To understand the working of the economy as a whole
3. To understand the theoretical framework of Macroeconomics.
4. To analyse investment function and the interaction of Multiplier & Accelerator.
5. To understand the role of stabilization policy such as fiscal and monetary policy on the economy

**COURSE OUTLINE:**

**UNIT I : National Income**

Nature and Scope of Macroeconomics – National Income Accounting - Nobel Laureate Simon Kuznets (1971) Contribution – National Income - Concepts – Methods of Estimation – Difficulties - Uses of National Income Analysis – Social Accounting - Green Accounting. (20 Hours)

**UNIT II : Theories of Output and Employment**

Classical Macroeconomics – Say’s Law of Markets – Wage - Price Flexibility - Classical Model of Output and Employment – Keynesian Revolution – Principles of Effective Demand – Keynes Theory of Employment – Underemployment Equilibrium – Wage-Price Rigidity. (20 Hours)

**UNIT III : Consumption Function**

Fundamentals of Psychological Law of Consumption – APC and MPC, Saving Function - APS and MPS – Absolute Income Hypothesis, Relative Income Hypothesis, Noble Laureate Milton Friedman (1976) - Permanent Income Hypothesis - Life Cycle Income Hypothesis. (20 Hours)

**UNIT IV : Investment Function**

Investment - MEC - MEI – Multiplier – Accelerator Theory – Interaction of Multiplier -Accelerator. (15 Hours)

**UNIT V : Macro Economic Policies**

Role of Money in the Classical Model – Keynesian Model - Macroeconomic Policies and Instruments. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Soumyen Sikde ,Principles of Macro Economics, Oxford Press, 2020.
2. H.L. Ahuja, Macro Economics: Theory and Policy S.Chand, 2020.

### **REFERENCE BOOKS:**

1. Andrew B. Abel and Ben S.Bernanke, Macro Economics, Pearson Education, Inc., 7<sup>th</sup> Edition, 2020.
2. Gregory Mankiw, Principles of Macroeconomics with Course Mate, Books Express Publications,2018.
3. Shapiro, E. Macroeconomic Analysis, Galgotia Publications, New Delhi, 2013.
4. Richard T. Froyen, Macro Economics – Theories and Policies, Pearson Publications, 10<sup>th</sup> Edition, 2013.
5. Oliver Blanchard, Macro Economics, Worth Publishers, 7th Edition, 2016.
6. Dusenberry J.S., Income, Saving and the Theory of Consumer Behavior. Harvard, 1951
7. Friedman, M., The Theory of Consumption Function, Princeton University Press, Princeton, 2018.
8. Keynes J.M., The General Theory of Employment, Interest, and Money, Macmillan, London, 1936
9. Blanchard. Oliver, Macro Economics-India, Pearson Education, 2020.
10. Levacic, Rosalin and Alexander Rebmann, An Introduction to Keynesian – Neo Classical Controversies. UK – Macmillan, 1995.

### **JOURNALS:**

1. Journal of Macro Economics
2. The B.E Journal Macro economics

### **E-LEARNING RESOURCES:**

1. <https://elearneconomics.com>
2. <https://ocw.mit.edu>
3. <https://www.journals.elsevier.com/journal>
4. <https://www.journals.elsevier.com/journal>
5. <https://www.classcentral.com>>tag

**COURSE OUTCOMES:**

On Completion of the course the students will be able to:

CO Number	CO STATEMENT
CO 1	Classify the components of National Income.
CO 2	Learn the Classical and Keynesian theories.
CO 3	Estimate the Consumption and Saving Functions.
CO 4	Analyse investment function and the interaction of Multiplier & Accelerator.
CO 5	Explain the role of money in classical and Keynesian model.

**MAPPING- COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	2	2	1	2	3	2
CO2	3	3	1	2	2	2
CO3	3	2	1	2	2	2
CO4	2	3	1	3	3	2
CO5	2	2	1	2	2	3
<b>AVERAGE</b>	<b>2.4</b>	<b>2.4</b>	<b>1.0</b>	<b>2.2</b>	<b>2.4</b>	<b>2.2</b>

**KEY:** STRONGLY CORRELATED-3

MODERATELY CORRELATED-2

WEAKLY CORRELATED-1

NO CORRELATION-0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

## SEMESTER – V

### MONETARY ECONOMICS

**TOTAL HOURS :90**

**COURSE CODE: EC21/5C/MOE**

**CREDITS : 4**

**LTP:3/3/0**

#### **COURSE OBJECTIVES:**

1. It enables the students to understand the role of Money and Forms of money
2. It helps them to critically analyse the Monetary Theories
3. It helps the students to gain in-depth knowledge on Banking System.
4. It highlight the features of Commercial Banks, indicators and NPA's.
5. It helps them to acquire knowledge on Inflation and Business Cycles.

#### **COURSE OUTLINE:**

**UNIT I : Money**

Functions – Measurement – Circular Flow of Money – Gold Standard – Bimetallism – Gresham's Law – Paper Currency – Principles and Methods of Note Issue – Digital Money and Virtual Money - E-Wallets -New Technology - Bit Coin - UPI. (15Hours)

**UNIT II : Demand for Money**

Fisher's Transaction Approach – Cash Balance Approach – Keynesian Liquidity Preference Theory – Real Balance Effect – Nobel Laureate Milton Friedman – Reformulated Quantity Theory of Money - Warren Mosler Modern Monetary Theory – Demonetisation and consequences. (20Hours)

**UNIT III : Central Bank**

Central Bank – Functions - Credit Control Measures - RBI - Impact of Demonetization - New Generation Banking Reforms – Monetary Management in response to the Pandemic (15Hours)

**UNIT IV : Commercial Banks**

Commercial Banking – Functions – Credit Creation – Balance Sheet Analysis – Financial Indicators – Capital Adequacy Ratio - Current Ratio / Liquidity Ratio – Moratorium - NPAs -Mobile Banking - Net Banking - NEFT, RTGS. (20Hours)

**UNIT V : Trade Cycles**

Inflation – Causes –Measurement - Types - Core Inflation - Slump Inflation – Asset Inflation- Disinflation – Effects - Measures to Control - Negative Inflation, Stagflation - Recent Trends in Inflation - Trade Cycles – Phases – Hicks and Keynesian Theories of Trade Cycles. (20Hours)

### **RECOMMENDED TEXTBOOKS:**

1. R.R. Paul, Advanced Monetary Economics, Kalyani Publishers, 2018
2. R.D.Gupta ,R.D.Lekhi, Keynes ,Post -Keynesian Economics ,Kalyani Publishers 2013.

### **REFERENCE BOOKS:**

1. Gold field and Chandler, The Economics of Money and Banking, Harper and Row, New York, 2001.
2. Laidler D.E.W., Demand for Money: Theory and Evidence, Dum-Don Valley, New York, 2006.
3. Suraj B Gupta, Monetary Economics: Institutions, Theory & Policy S. Chand and Company 2013.
4. R.R Paul, Monetary Economics, Kalyani Publishers, 2013.
5. M.L.Jhingan, Monetary Economics 7<sup>th</sup> Edition Vrinda Publications, 2019.
6. Dr. D.D.Chaturvedi and Dr. Anand Mital, Money & Banking Kitab Mahal 2018.

### **JOURNALS:**

1. Journal of Monetary Economics
2. International Journal on Monetary Economics and Finance.

### **E-LEARNING RESOURCES:**

1. <https://studyingeconomics.ac.uk/monetaryeconomics>
2. <https://www.nber.org/programs/>
3. <https://economics.stanford.edu/research/monetary-economics>
4. <https://www.journals.elsevier.com/journal-of-monetary-economics/recent-articles>
5. [http://www.lse.ac.uk/resources/calendar/courseGuides/EC/2019\\_EC321.htm](http://www.lse.ac.uk/resources/calendar/courseGuides/EC/2019_EC321.htm)
6. [www.rbi.org.in](http://www.rbi.org.in)

**COURSE OUTCOMES:**

On Completion of the course the students will be able to:

CO NUMBER	CO STATEMENT
CO 1	Learn the Various functions of Money, Monetary Standards and Modern concepts of money.
CO 2	Explain the concept of Demand for Money and its theories
CO 3	Describe the functions and credit control measures of central bank and RBI monetary management.
CO 4	Highlight the features of Commercial Banks, indicators and NPA's.
CO 5	Gain knowledge on Inflation, negative inflation, causes and its effects along with Trade Cycle.

**MAPPING-COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	2	1	1	2	2
CO2	2	2	2	2	3	3
CO3	3	3	2	1	2	1
CO4	2	3	2	2	3	3
CO5	2	2	1	1	2	2
AVERAGE	2.2	2.4	1.6	1.4	2.4	2.2

**KEY:** STRONGLY CORRELATED - 3      MODERATELY CORRELATED - 2  
WEAKLY CORRELATED - 1      NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER V**  
**FISCAL ECONOMICS**

**TOTAL HOURS: 90**  
**CREDITS: 4**

**COURSE CODE: EC21/5C/FIE**  
**LTP: 3/3/0**

**COURSE OBJECTIVES**

1. To equip the students to know Public Revenue and the Role of Taxation.
2. To assess Public Expenditure, Deficit Financing and Public Debt in India.
3. To get knowledge about GST & GST Council.
4. To evaluate the recent trends in Budget.
5. To understand fiscal policies in India

**COURSE OUTLINE:**

- UNIT I : Introduction to Public Finance**  
Meaning and Role of Public Finance – Distinction between Public Finance and Private Finance - Principle of Maximum Social Advantage. (15 Hours)
- UNIT II : Theories of Taxation**  
Taxes - Canons of Taxation - Classification – Theories of Taxation, Cost of Service Theory, Benefit Principle and Ability to Pay Theory - Shifting and Principle of Taxation – Incidence - Impact of Taxation – Budget – Features - Recent Union and State Budget - Gender Budgeting. (20Hours)
- UNIT III : Public Revenue**  
Public Revenue - Source of Revenue of the Centre and States - Tax and Non-Tax Revenue - Direct Tax - Income Tax - Corporate Tax - Indirect Tax - Financial Statements – State – Urban – Local – GST - GST Council - Recent Reforms in Taxation. (20 Hours)
- UNIT IV : Public Expenditure**  
Public Expenditure – Classification – Causes - Theories of Public Expenditure - Wagner Hypothesis- Wiseman & Peacock Hypothesis - Growth of Public Expenditure in India - Deficit Financing - Trends in Fiscal Deficit as a Ratio to GDP - Public Debt - Need - Public Debt and Private Debt - Cause and Effects - Public Debt Redemption - Issues - Indian Public Debt –Challenges and Trends - Global Comparison. (20 Hours)
- UNIT V : Indian Fiscal Federalism**  
Fiscal Policy in India - Fiscal Crisis and Fiscal Sector Reforms in India – FRBM Act - Finance Commission - Analysis of Recent Two Finance Commission – NITI Aayog - Fiscal Stimulus Package to combat Covid 19. (15 Hours)



### **RECOMMENDED TEXTBOOKS:**

1. Dr. S.K Singh.Public Finance in Theory and Practice, S. Chand Publishing, 2010.
2. Chaman L. Jain, Essentials of Monetary and Fiscal Economics, Graceway Pub Co , 1995
3. Ben Hansen , The Economic Theory of Fiscal Policy, Routledge, 2008.
4. Jonathan Gruber, “Public Finance and Public Policy” Sixth Edition, Worth Publishers, 2019.

### **REFERENCE BOOKS:**

1. Bhatia H.L., “Public Finance”, Vikas Publishing House, New Delhi 2020.
2. Lekhi Public Finance, Kalyani Publishers, New Delhi2020.
3. Raja J. Chelliah, Fiscal Policy in Underdeveloped Countries, Allen and Moowbray Limited at the Alden Press Oxford, II Edition, 2012.
4. Richard. A. Musgrave & Peggy B. Musgrave, Public Finance in Theory and Practices, McGraw Hill International Edition, NewYork, 2009.
5. Tyagi B.P. Public Finance, Gah. Nauchandi Hugh Dalton, Principle of Public Finance, Broadway House, Carter Lane, London,2015.
6. Stiglitz. J.E. & Jay K. Rosengard, Economics of Public Sector International Student Edition,W.W. Norton & Company, New York, 2015.

### **JOURNALS:**

1. The Journal of Applied Public Economics
2. Journal of Public Economics

### **E- LEARNING RESOURCES:**

1. <https://www.khanacademy.org>
2. [elearning.ec.unipi.gr](http://elearning.ec.unipi.gr)>elearning
3. <https://tradingeconomics.com>>india
4. <https://efinancemanagement.com/financial-management/public-finance>
5. <https://www.taxpolicycenter.org>

**COURSE OUTCOMES:**

**On Completion of the Course the students will be able to**

CO NUMBER	CO STATEMENT
CO 1	Understand the concept of Public Revenue and the Role of Taxation.
CO 2	Assess Public Expenditure, Deficit Financing and Public Debt in India.
CO 3	Acquire knowledge about GST & GST Council.
CO 4	Evaluate the recent trends in Budget.
CO 5	Analyze fiscal policies in India.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	2	1	3	3
CO2	3	2	2	1	3	3
CO3	3	2	2	1	3	3
CO4	3	2	2	1	3	3
CO5	3	3	2	1	3	3
<b>AVERAGE</b>	3	2.1	2	1	3	3

**KEY:** STRONGLY CORRELATED - 3 MODERATELY CORRELATED - 2  
WEAKLY CORRELATED-1 NO CORRELATED - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER V**  
**OPERATIONS RESEARCH**

**TOTAL HOURS: 90**  
**CREDITS :5**

**COURSE CODE: EC21/5E1/OPR**  
**LTP :3/3/0**

**COURSE OBJECTIVES:**

1. To enable students to understand the rational decision making in practice.
2. To learn to maximise profit and minimise cost.
3. To take appropriate decisions under conditions of risk and Uncertainty and assess the role of CPM and PERT
4. To analyse the importance of Queuing Systems in Operations Research
5. To examine the role of Simulation and its application in queuing systems

**COURSE OUTLINE**

- UNIT I : Introduction to Operation Research**  
Operations Research – Definition – Models - Scientific Methodology of Operations Research -Scope – Importance - Decision Making - Role of Operations Research in Management - Limitations of Operations Research  
(15 Hours)
- UNIT II : Transportation & Assignment**  
Introduction – Matrix Formulation of a Transportation Problem – North West Corner Method - Least Cost Entry Method – Vogel’s Approximation Method - Initial Basic Feasible Solution - Assignment – Introduction – Balanced and Unbalanced Assignment Problem – Solution using Hungarian Assignment Method.  
(20 Hours)
- UNIT III : Decision Theory**  
Decision Making under Risk and Uncertainty - Decision Tree Analysis - Introduction to Network Analysis – Basic Concepts: CPM - PERT  
(20 Hours)
- UNIT IV : Queuing Theory**  
Queuing Theory - Basic Concepts - Traffic Intensity – Idle Rate - Single Channel - Number of Customers in Line and System - Time Spent by the Customers in Line and System - Probability of Customers’ Waiting.  
(20 Hours)
- UNIT V : Simulation**  
Simulation - Discrete Event Simulation - Monte-Carlo Simulation - Stochastic Simulation - Applications to Queuing Systems.  
(15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. K.K.Chawla,Vijay Gupta and Bhushan K.Sharma ., Introduction to Operations Research ,Kalyani Publishers 2015.
2. Hamdya.Taha,Operations Research: An Introduction, 10<sup>th</sup> Edition, Pearson, 2017.

### **REFERENCE BOOKS:**

1. Kapoor V.K., Operations Research, Sultan Chand and Sons, New Delhi, 2017.
2. P.K. Gupta & Manmohan, Problems in Operations Research (Methods and Solutions), Sultan Chand and Sons, New Delhi, 2003.
3. Panneerselvam R., Operations Research, Prentice-Hall India, 2018.
4. Srivastava U.K, Shenoy G.V., & Sharma S.C., Quantitative Techniques for Managerial Decisions, Wiley Eastern Limited, 2015.
5. Vohra N.D., Quantitative Techniques in Management, McGraw Hill 2010.

### **JOURNALS:**

1. International Journal of Operation Research.
2. International Journal of Operation Management and Technology.

### **E-LEARNING RESOURCES:**

1. [www.yorku.ca/ptyfos](http://www.yorku.ca/ptyfos)
2. <https://pubsonline.informs.org/abs>
3. <https://www.ecourseonline.iasri.res.in/view>
4. <https://www.statisticshowto.datasciencecentral.com>
5. <https://www.gateexplore.com>

**COURSE OUTCOMES:**

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

CO NUMBER	CO STATEMENT
CO 1	Describe the scope and characteristics of operations research.
CO 2	Learn to maximise profit and minimise cost
CO 3	Take appropriate decisions under conditions of risk and Uncertainty and assess the role of CPM and PERT
CO 4	Analyse the importance of Queuing Systems in Operations Research
CO 5	Examine the role of Simulation and its application in queuing systems.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	0	1	1	0	0
CO2	2	0	3	2	2	3
CO3	2	0	3	2	2	3
CO4	1	0	3	3	2	3
CO5	3	0	3	2	2	2
<b>AVERAGE</b>	<b>2</b>	<b>0</b>	<b>2.6</b>	<b>2</b>	<b>1.6</b>	<b>2.2</b>

**KEY:** STRONGLY CORRELATED-3    MODERATELY CORRELATED-2  
 WEAKLY CORRELATED-1    NO CORRELATED-0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Words Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory Section A must have 6 theory and 4 problems
K1, K 2	B-5/8x8 Marks	300	40		Section B must have 2 theory and 6 problems
K2, K 3	C-2/4x20 Marks	1200	40		Section C must have 1 theory and 3 problems

**SEMESTER V**  
**HEALTH ECONOMICS**

**TOTAL HOURS: 90**  
**CREDITS: 5**

**COURSE CODE: EC21/5E2/HEE**  
**LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To understand the importance and contribution of health sector to economic development.
2. To evaluate the components of demand and supply of health care.
3. To enable the students to estimate Health expenditure, importance of Health insurance and Health policy.
4. To review the existing health infrastructure and Budget Allocation.
5. To have an insight of the health infrastructure and recent trends in medical tourism

**COURSE OUTLINE:**

**UNIT I : Health Indicators**

Definition of Health Economics - Importance – Health Indicators - Birth Rate - Death Rate – IMR – CMR – MMR - Morbidity Rate - Disability Adjusted Life Years (DALYs) - Quality Adjusted Life Years (QALY) – Gender Ratio. (20Hours)

**UNIT II : Demand and Supply**

Demand for Health Care – Case of Health Care Accessibility – Socio-Economic and Cultural Factors Determining Health Status – Supply of Health - Health Care Delivery System - Pricing of Health Care. (20 Hours)

**UNIT III : Health Care Expenditure**

Health Expenditure – Public and Private – Direct and Indirect – Health Insurance – Concept and Definition – Need – Types - Principles – Private Insurance Players – Government – Health Policy of WHO – NRHM – NFHS. (15 Hours)

**UNIT IV : Health Infrastructure**

Health Infrastructure – Rural – Urban – Government Programmes - Health Allocation in Budget. (20 Hours)

**UNIT V : Medical Tourism**

Reasons for the Growth of Medical Tourism in India – Foreign Competitors - Accreditations – Disease Prevention – Vaccinations – Pandemic - Causes – Prevention – Vaccination Drive -Comparison Across States and Countries – Tele Radiology - Generic Medicine - PNJEY- Artificial Intelligence for Future of Healthcare in India - Principles and Working. (15 Hours)

### **RECOMMENDED TEXT BOOKS:**

1. Xamer Martinez Giralt, Principles of Health Economics, Routledge Publications, 2010.
2. Kshitij Patukale, 'Mediclaim and Health Insurance', Ocean Book Pvt. Ltd. 2013

### **REFERENCE BOOKS:**

1. Banerjee, D, Social and Cultural Foundations of Health Service Systems of India, Inquiry, Supplement to Vol. XII, June, 2016.
2. Edwin G Dolan and John C Goodman: Economics of Public Policy: West Publishing Company, New York 2015.
3. Alistair McGuire, John Henderson and Gavin Mooney, "The Economics of Health Care An Introductory Text", Routledge, 2015.
4. Infrastructure Report: India Infrastructure – Oxford University Press
5. Nanjudappa, Economics of Transport, 2011.
6. Parag Suresh Mahajan, 'Artificial Intelligence in Healthcare', Harper Collins, 2018

### **JOURNALS:**

1. Journal of Health Economics Outcomes and Research
2. Elsevier BV Journal of Health Economics

### **E-LEARNING RESOURCES:**

1. [www.cihi.ca/health-indicators](http://www.cihi.ca/health-indicators)
2. [www.healthknowledge.org.uk](http://www.healthknowledge.org.uk)
3. [www.healthdata.gov.in](http://www.healthdata.gov.in)
4. [www.data.gov.in/healthinfrastructure](http://www.data.gov.in/healthinfrastructure)
5. [www.indiahealthcaretourism.com](http://www.indiahealthcaretourism.com)

**COURSE OUTCOMES:****On Completion of the Course the students will be able to**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Define the importance of health indicators.
<b>CO 2</b>	Evaluate the components of demand and supply of health care.
<b>CO 3</b>	Estimate health expenditure, importance of health insurance and health policy.
<b>CO 4</b>	Review the existing health infrastructure and Budget Allocation.
<b>CO 5</b>	Trace the growth of medical tourism in India and AI for future of healthcare

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	3	2	3	0	3	3
<b>CO2</b>	2	2	2	0	3	2
<b>CO3</b>	3	2	3	0	2	2
<b>CO4</b>	2	1	3	0	2	2
<b>CO5</b>	2	2	3	1	3	3
<b>AVERAGE</b>	2.4	1.8	2.8	0.2	2.6	2.4

**KEY:**      STRONGLY CORRELATED - 3      MODERATELY CORRELATED - 2  
                  WEAKLY CORRELATED-1 NO      CORRELATED - 0

**QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory
<b>K1, K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		



**SEMESTER V**  
**PRINCIPLES OF MARKETING**

**TOTAL HOURS: 90**  
**CREDITS : 5**

**COURSE CODE: EC21/5E2/PRM**  
**LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To enable the students to understand the essentials of marketing
2. To get an insight of the various steps related to marketing
3. To gain knowledge about Standardization, Grading and Labelling.
4. To understand market segmentation, product differentiation and supply chain management.
5. To study the contribution of marketing in economic development

**COURSE OUTLINE:**

**UNIT I : Market**

Market and Marketing – Introduction – Evolution – Classification – Types - Marketing Features – Objectives – Importance of Marketing – Marketing and Selling- Relevance of Selling Cost - Modern Marketing Concept – Marketing Functions – Marketing Tools. (15 Hours)

**UNIT II : Purchasing & Selling**

Buying – Classification – Problems of Buying – Elements of Buying – Purchasing Methods. Assembling – Meaning – Advantages – Problems - Selling – Elements – Kinds of Sales. (20 Hours)

**UNIT III : Standardization**

Branding – Packing and Packaging – Role and Importance – Labeling – Grading - Methods of Grading – Types of Grading – Significance – Control of Standards – ISI – AGMARK - BIS. (20 Hours)

**UNIT IV : Product Planning**

Product Mix - Positioning of Product – Product Differentiation and Market Segmentation –Product Modification - Pricing – Objectives - Factors Affecting Pricing Decisions - Promotion – Need – Objectives – Importance - Supply Chain Management – Objectives – Components – Product – Lifecycle - Product Planning – New Product Development - Failure of New Product (15 Hours)

**UNIT V : Development in Marketing**

Recent Developments in Marketing – Relationship Marketing – Services Marketing – Green Marketing – Social Marketing – Global Marketing -E-Business -E-Commerce – E-Trading – E-Marketing. (20 Hours)

### **RECOMMENDED TEXT BOOKS:**

1. Philip Kotler, “Marketing – An Introduction” Asia Pacific Holding Private Limited 2016.
2. Dr.Rajan Nair., “Marketing”, Sultan Chand and Sons, 2020.

### **REFERENCE BOOKS:**

1. R.S.N.Pillai and Bhagvathi-Modern Marketing Principles and Practices. S Chand & Co Ltd.,2010.
2. Philip Kotler-. Principles of Marketing, Gary Armstrong,2017.
3. John F. Tanner, Jr., Mary Anne Raymond, Camille Schuster -Principles of Marketing,2016.
4. Dr.C. B.Gupta ,Dr.N.Rajan Nair, Marketing Management ,Sultan Chand & Sons, 2020.
5. Dr.C.B.Mamoria, Pradeep Jain, Priti Mitra, Theory and Practice of Marketing, Kitab Mahal,2013.

### **JOURNALS:**

1. Journal of Marketing – American Marketing Association
2. Journal of Marketing

### **E-LEARNING RESOURCES:**

1. <http://www.Nou.Edu.Ng/Sites/Default/Files/2017->
2. [www.productleadership.com](http://www.productleadership.com)
3. [http://www.pondiuni.edu.in/storage/dde/downloads/mbaii\\_mm.pdf](http://www.pondiuni.edu.in/storage/dde/downloads/mbaii_mm.pdf)
4. <http://marketingland.com>
5. <https://www.coursera.org> › Browse › Business › Marketing

## COURSE OUTCOMES

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

CO NUMBER	CO STATEMENT
CO1	Recognize the significance and functions of marketing
CO2	Get an insight of the various steps related to marketing
CO3	Gain knowledge about Standardization, Grading and Labelling
CO4	Understand market segmentation, product differentiation And supply chain management
CO5	Analyse the recent development in marketing

## MAPPING : COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	3	2	3	3
CO3	3	2	3	2	3	3
CO4	2	2	2	1	3	3
CO5	3	3	3	2	3	3
<b>AVERAGE</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2</b>	<b>3</b>	<b>3</b>

**KEY:** STRONGLY CORRELATED-3      MODERATELY CORRELATED-2  
WEAKLY CORRELATED-1      NO CORRELATION-0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER V**  
**GENDER ECONOMICS**

**TOTAL HOURS: 90**  
**CREDITS: 5**

**COURSE CODE: EC21/5E2/GEE**  
**LTP: 3/3 /0**

**COURSE OBJECTIVES:**

1. To understand the basic concepts of gender, gender equity and bias.
2. To get an insight of various indices relating to gender
3. To analyse the dynamics of female workforce participation
4. To study the concepts of women in development process and women empowerment.
5. To review the status of women in India and analyse various initiatives undertaken

**COURSE OUTLINE:**

- UNIT I : Gender Economics**  
Concepts of Gender Economics – Gender Equity and Equality – Patriarchy and Gender- Gender bias and Discrimination. (15 Hours)
- UNIT II : Gender Indicators**  
Demographic Changes – Female Population – Age Structure – Sex – Ratio – Literacy – Health – Gender Inequality Indices (GII) – MPI – WEIA, SIGI, GDI, GEM and Gender Inequalities in India – Shram Sakthi. (20 Hours)
- UNIT III : Supply and Demand**  
Gender and Labour Market – Supply and Demand for Labour in India – Female Work Participation – Wage Differentials – Gender Gap. (20 Hours)
- UNIT IV : Women Work Participation**  
Women in Households – Productive and Unproductive Work – Visible and Invisible Work – Violence and Conflicts – Property Rights- Women’s Participation in Politics, Sports, Defence. (20 Hours)
- UNIT V : Welfare Programmes**  
Gender Responsive Budgeting (GRB)- Policy Initiatives for Gender Equality- Women and Welfare Programmes – Committee on Status of Women in India. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. K.R.Gupta, Gender Problems and Policies, Atlantic, 2009.
2. Joyce Jacobsen, “The Economics of Gender”, Wiley – Blackwell Publisher, 3<sup>rd</sup> Edition, 2007

### **REFERENCE BOOKS:**

1. Padmini Swaminathan, Women and Work, Orient Black Swan Private Limited, New Delhi, 2018.
2. Amy C. Alexander ,Catherine Bolzendahl Farida Jalalzai (Editors) Measuring Women’s Political Empowerment across the Globe: Strategies, Challenges and Future Research (Gender and Politics) Palgrave Macmillan, 2017
3. David Lawson, Adam Dubin, et al.Gender, Poverty and Access to Justice: Policy Implementation in Sub-Saharan Africa (Routledge Studies in Development Economics) December 2021
4. K.Nauriyal Migration, Gender and Home Economics in Rural North India Routledge 2019
5. Manoranjan Pal ,Bharati Premananda ,Bholanath Ghosh,T.S. Vasulu , Gender and Discrimination: Health, Nutritional Status and Role of Women in India Oxford University Press 2011
6. Jaya Shrivatsava Gender Discrimination and Inequality in Contemporary India: Dimensions and Voices of Protests, Kalpaz Publications 2018.
7. Rajiv Azad Gender Discrimination: An Indian Perspective Atlantic Publishers and Distributors Ltd, 2014

### **JOURNALS:**

1. International Journal of Gender and Women’s Studies
2. Feminist Economics.
3. Special Issues of Economic and Political Weekly

### **E-LEARNING RESOURCES**

1. <https://ourworldindata.org>
2. <http://gendersocietywordpress.com>
3. [http:// https://www.unwomen.org](http://https://www.unwomen.org)
4. <https://www.online.colostate.edu/courses/ECON/ECON211.dot>
5. <https://https://www.soas.ac.uk/courseunits/153401001.html>

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	To know the meanings of gender economics and related concepts
CO 2	To get an insight of various indices relating to gender
CO 3	To analyse the dynamics of female workforce participation
CO 4	To understand the multifarious role of women and issues related to it.
CO 5	To review the status of women in India and analyse various initiative undertaken.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	2	3	3	3
CO2	3	3	3	2	3	3
CO3	3	3	2	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	2	2	3	3
AVERAGE	3	3	2.4	2.6	3	3

**KEY :** STRONGLY CORRELATED -3 MODERATELY CORRELATED- 2

WEAKLY CORRELATED -1 NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER VI**  
**MACROECONOMICS – II**

**TOTAL HOURS : 90**

**COURSE CODE:EC21/6C/MA2**

**CREDITS: 4**

**LTP: 3/3/0**

**COURSE OBJECTIVES:**

1. To deepen the knowledge of students in Macroeconomics.
2. To enable the students to understand the policies of Macroeconomics.
3. To make the students to understand different dimensions of macroeconomics with applications.
4. To understand the role rational expectations plays in influencing macroeconomic variables.
5. To acquire knowledge about macro growth models.

**COURSE OUTLINE:**

**UNIT VI : IS & LM Model**

General Equilibrium – IS & LM – Nobel Laureate John Hicks (1972) – Hansen Synthesis -Effectiveness of Fiscal & Monetary Policy in IS - LM Model. (15 Hours)

**UNIT VII : Theories of Demand for Money**

Integration of Monetary and Real sector – Don Patinkin’s Analysis - Real Balance Effect – Keynesian Theory of Interest – Criticism - Baumol’s Inventory Model – Nobel Laureate James Tobin (1981) Portfolio Analysis. (20 Hours)

**UNIT VIII : Inflation**

Inflation - Classical and Keynesian Approaches to Inflation - Phillip’s Curve Analysis – Short-Run and Long-Run Phillips Curve - Nobel Laureate Milton Friedman’s Adaptive Expectation Hypothesis. (20 Hours)

**UNIT IX : Neo Classical Models**

A Critique of Keynesian Macroeconomics - Basic Neo Classical Model – Extension of Neo Classical Model - Rational Expectation Hypothesis. (20 Hours)

**UNIT X : Economic Growth Models**

Economic Growth – Rostow - Lewis – Solow - Joan Robinson and Harrod Domar Model. (15 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Soumyen Sikde, Principles of Macro Economics, Oxford Press, 2020.
2. H.L. Ahuja, Macro Economics: Theory and Policy S.Chand, 2020.

### **REFERENCE BOOKS:**

1. Andrew B. Abel and Ben S. Bernanke, Macro Economics, Pearson Education, Inc., 7<sup>th</sup> Edition, 2020.
2. N. Gregory Mankiw, Principles of Macro Economics with Course Mate, Books Express Publications, 2017
3. Shapiro, E. Macro Economic Analysis, Galgotia Publications, New Delhi, 2013.
4. Richard T. Froyen, Macro Economics – Theories and Policies, Pearson Publications, 10<sup>th</sup> Edition, 2013.
5. Oliver Blanchard, Macro Economics, Pearson, 7th Edition, 2020.
6. Dusenberry J.S., Income, Saving and the Theory of Consumer Behavior. Harvard, 1951.
7. Friedman, M., The Theory of Consumption Function, Princeton University Press, Princeton, 1992.
8. Keynes J.M., The General Theory of Employment, Interest, and Money, Macmillan, London 1936.
9. Blanchard. Oliver, Macro Economics-India, Pearson Education, 2017.
10. Levacic, Rosalin and Alexander Rebmann, An Introduction to Keynesian – Neo Classical Controversies. UK – Macmillan, 1995.

### **JOURNALS:**

1. Journal of Macro Economics
2. The B.E Journal Macroeconomics

### **E-LEARNING RESOURCES:**

1. <https://elearneconomics.com>
2. <https://ocw.mit.edu>
3. <https://www.journals.elsevier.com/journal>
4. <https://www.journals.elsevier.com/journal>
5. <https://www.classcentral.com/tag>



**COURSE OUTCOMES:**

**On Completion of the course the students will be able to:**

CO Number	CO STATEMENT
CO 1	Understand General Equilibrium -IS & LM Model.
CO 2	Explain the Integration of Monetary and Real Sectors.
CO 3	Study Classical and Keynesian approaches to inflation and Philips curve.
CO 4	Understand the role of rational expectation in macro-economic variables.
CO 5	Explain macro growth Models.

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	1	2	2	2
CO2	3	2	1	2	2	2
CO3	3	2	1	2	2	2
CO4	3	3	1	2	3	2
CO5	3	3	1	2	3	3
<b>AVERAGE</b>	<b>3.0</b>	<b>2.6</b>	<b>1.0</b>	<b>2.0</b>	<b>2.4</b>	<b>2.2</b>

**KEY :** STRONGLY CORRELATED -3      MODERATELY CORRELATED -2

WEAKLY CORRELATED-1      NO CORRELATION-0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

## SEMESTER – VI

### INTERNATIONAL ECONOMICS

**TOTAL HOURS :90**

**COURSE CODE: EC21/6C/INE**

**CREDITS:4**

**LTP:3/3/0**

#### **COURSE OBJECTIVES:**

1. It help students to understand analytical tools and it's applications
2. It enables the students to understand the Theories governing International Trade.
3. It helps to impart knowledge on Free trade, Protection and Balance of Payments
4. To analyse the students in recent trends in India's BOP.
5. It helps the students to assess the role of International institutions and trading blocks.

#### **COURSE OUTLINE:**

- UNIT I : International Economics**  
International Economics – Meaning - Scope and Importance - Similarities and Differences International and Inter - Regional Trade – Analytical Tools – Community Indifference Curve – Production Possibility Curve – Offer Curves - An Over View of World Trade during Pre and Post Pandemic Times - Financial Aid to Emerging Economies to Counter Covid 19 Crisis.  
(20 Hours)
- UNIT II: Theories of International Trade**  
Theories of International Trade - Adam Smith (Absolute Advantage) – David Ricardo- (Comparative Advantage) – Nobel Laureate Heckscher - Bertil Ohlin Theory (Factor Endowment Theory) – Raymond Vernon (Product Life Cycle Theory) – Porter's Diamond Theory (National Competitive Advantage Theory).  
(20Hours)
- UNIT III : Trade and Tariffs**  
Free Trade – Protection – Meaning - Case for and against Free Trade and Protection- Neo Protectionism – Quotas – Meaning and Types – Tariff – Meaning - Types – Effects of Tariffs under Partial Equilibrium - Optimum Tariff.  
(15Hours)
- UNIT IV : Balance of Payments**  
Balance of Payments – Meaning – Causes of Disequilibrium – Measures to Control Disequilibrium – Marshall - Lerner Condition and J Curve Effect - Recent Trends of BOP in India.  
(15 Hours)
- UNITV : International Institutions**  
IMF - World Bank - WTO – G20+- Asian Development Bank – Regional Comprehensive Economic Partnership (RCEP) - BRICS – BREXIT - Trading Blocs - ASEAN – SAARC – EFTA -AFTA – EU - RCEP - India - China Trade Conflict .  
(20 Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Paul Krugman ,Maurice Obstfeld ,Marc Melitz International Economics :Theory and Policy, Tenth Edition ,Theory and Policy, Pearson 2017.
2. M.L.Jhingan, International Economics, 7<sup>th</sup> Edition, Vrinda Publications, 2020.

### **REFERENCE BOOKS:**

1. Dominick Salvatore International Economics, Trade and Finance, 11<sup>th</sup> Edition 2014.
2. Paul Krugman ,Maurice Obstfeld ,Marc Melitz International Economics: Theory and Policy, Tenth Edition, Theory and Policy, Pearson 2017.
3. M.L.Jhingan, International Economics 7<sup>th</sup> Edition, Vrinda Publications, 2016.
4. Francis Cherunilam, International Economics, 6<sup>th</sup> Edition, McGraw Hill 2020.
5. Thomas A. Pugel International Economics, Mc Graw Hill Education, 2019.
6. M.C.Vaish and Sudama Singh, International Economics, Oxford and IBH Publishing Co Pvt Ltd 2018.
7. Paul Krugman, International Economics: Theory and Policy, 8<sup>th</sup> Ed, Pearson Education India 2018.
8. Robert Carbaugh, International Economics, Cengage Learning,2016.

### **JOURNALS:**

1. International Economics and Economic Policy
2. Journal of International Economics

### **E-LEARNING RESOURCES:**

1. <https://academicearth.org/economics>
2. <https://rescuoc.edu/>
3. <http://www.iccwbo.org>
4. <http://economicsnetwork.ac.uk>
5. <http://www.elearneconomics.com>

## COURSE OUTCOMES:

On Completion of the course the students will be able to:

CO NUMBER	CO STATEMENT
CO 1	Learn analytical tools of International Economics and Review World Trade (Pre and Post Pandemic)
CO 2	Identify the importance of International Trade theories.
CO 3	Differentiate the system of Free trade and Protection and the effects of tariffs
CO 4	Analyse the various causes of disequilibrium in Balance of Payments and the Recent Trends in India's BOP.
CO 5	Discuss the role of Financial institutions in Trade and providing Aid to poor countries during Pandemic.

## MAPPING – COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	3	3	3	2
CO2	3	2	1	3	2	2
CO3	3	3	1	3	2	2
CO4	3	3	2	2	3	3
CO5	3	2	2	2	3	2
AVERAGE	3	2.4	1.8	2.6	2.6	2.2

**KEY** : STRONGLY CORRELATED - 3 MODERATELY CORRELATED-2  
WEAKLY CORRELATED -1 NO CORRELATION - 0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

## SEMESTER VI

### ENVIRONMENTAL ECONOMICS

**TOTAL HOURS: 90**

**COURSE CODE: EC21/6C/ENE**

**CREDITS : 4**

**LTP:3/3/0**

#### **COURSE OBJECTIVES:**

1. To enable the students to have an insight of Environmental Issues.
2. To understand the importance of Policy Making.
3. To understand the techniques adopted for valuing the environment
4. To acquire knowledge to know the global environmental issues
5. To get an insight on the Indian environmental issues

#### **COURSE OUTLINE**

##### **UNIT I : Environmental Economics**

Definition – Scope – Economy - Environment Linkages - Material Balance Approach - Ecological Economics – Definition - Resources – Types - Tragedy of Commons - Ostrom’s Collective Action - Conservation of Natural Resources – Environment Vs Development - Environmental Kuznets Curve. (15 Hours)

##### **UNIT II : Market Failure and Externalities**

Market Failure – Pareto Optimality - Externalities – Types - Command and Control Methods – Regulation of Pollution through Economic Instruments - Pigouvian Taxes and Effluent Fees – Tradable Permits - Coase Theorem. (15 Hours)

##### **UNIT III : Valuation Techniques and Sustainable Development**

Valuation of Non - Market Goods and Services – Methods – Cost - Benefit Analysis - Environment Impact Assessment (EIA) – Economics of Sustainable Development - Measurement - Agenda 2030. (20 Hours)

##### **UNIT IV : International Environmental Issues**

International Environmental Problems - Transboundary Pollution – Trade and Environment – Pollution Haven Hypothesis - Economics of Bio-Diversity – Economics of Climate Change – International Agreements on Climate Change – Rio Summit – Kyoto Protocol - Paris Agreement. (20 Hours)

##### **UNIT V : Environmental Issues in India & Policies**

Environmental Issues in India – National Environment Policy, 2020 - Role of Ministry of Environment, Forest and Climate Change (MoEFCC) – Environmental Legislations in India - Role of Women in Environmental Protection - Recent Trends in Environmental Policies. (20 Hours)

## **RECOMMENDED TEXTBOOKS**

1. Charles Kolstad, Intermediate Environmental Economics, Oxford University Press, 2<sup>nd</sup> Edition, 2010.
2. Eugene ,T Environmental Economics, Oxford University Press, New Delhi. 2014.
3. Daniel J. Phaneuf , Till Requate A Course in Environmental Economics, Cambridge University Press, 2017.

## **REFERENCE BOOKS**

1. Nick Hanley ,Jason F Shogren and Ben White “Environmental Economics in Theory and Practice”, 3<sup>rd</sup> Edition Oxford University Press, 2013.
2. Barry C, Field Environmental Economics 7<sup>th</sup> Edition Richard D.Irwin Inc 2017.
3. Karpagam. M. - Environmental Economics Sterling Publishers. Private Ltd 2019.
4. M.L Jhingan and Chandar K Sharma Environmental Economics (Theory, Management & Policy) Vrinda Publications P Ltd., India 2015.
5. John C. Bergstrom and Alan Randall Resource Economics: An Economic Approach to Natural Resource and Environmental Policy, Fourth Edition Edward Elgar Publications, 2016.

## **JOURNALS:**

1. Journal of Environmental Economics and Policy.
2. Journal of Environmental Planning and Management.

## **E-LEARNING RESOURCES:**

1. <https://ocw.mit.edu/courses/economics/14-42-environmental-policy-and-economics-spring-2011/lecture-notes/>
2. <http://www.yourarticlelibrary.com/economics/environmental-economics/nature-and-scope-of-environmental-economics-explained/39401>
3. [www.steadystate.org](http://www.steadystate.org)
4. [www.iisd.org](http://www.iisd.org)
5. [www.csc.noaa.gov/coastal/economics/envvaluation.htm](http://www.csc.noaa.gov/coastal/economics/envvaluation.htm)

## COURSE OUTCOMES

On Completion of the course the students will be able to:

CO NUMBER	CO STATEMENT
CO 1	Examine the importance of concept of Environmental Economics.
CO 2	Identify the effect of externalities and solve environmental problems through fiscal techniques.
CO 3	Classify the various tools available in evaluating the environment.
CO 4	Understand the global environmental issues.
CO 5	Analyse India's Environmental issues and policies.

## MAPPING-COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	1	1	3	3
CO2	3	2	1	2	3	3
CO3	3	3	3	2	3	3
CO4	3	3	3	2	3	3
CO5	3	3	2	3	3	3
<b>AVERAGE</b>	<b>3</b>	<b>2.8</b>	<b>2</b>	<b>2.2</b>	<b>3</b>	<b>3</b>

**KEY:** STRONGLY CORRELATED-3  
WEAKLY CORRELATED-1

MODERATELY CORRELATED-2  
NO CORRELATION-0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER VI**  
**MANAGERIAL ECONOMICS**

**TOTAL HOURS: 90**  
**CREDITS : 4**

**COURSE CODE: EC21/6C/MAN**  
**LTP :3/3/0**

**COURSE OBJECTIVES**

1. To enable the students to understand the concepts of Managerial Economics.
2. To enable the students to forecast demand and price of products
3. To understand the importance of Profit, Capital and valuing projects.
4. To analyse the importance of Capital Budgeting and appraisal of projects
5. To get an insight of optimization techniques in business constraints.

**COURSE OUTLINE:**

**UNIT I : Managerial Economics**

Definition – Nature – Scope – Basic Tools of Managerial Economics – Role and Responsibilities of a Managerial Economist- Demand Forecasting - Qualitative and Quantitative Methods of Forecasting (Problems). (15 Hours)

**UNIT II : Cost and Price**

Concepts – Cost Control and Reduction – Pricing Methods and Strategies – Cost oriented Pricing- Competition based Pricing – Pricing of Public Utilities – Pricing based on Economic Considerations - Pricing by Manufacturers and Retailers. (20 Hours)

**UNIT III : Profit**

Profit – Accounting and Economic Profit - Measurement of Accounting Profit - Break Even Analysis - Uses (Problems). (20 Hours)

**UNIT IV : Capital Budgeting**

Capital Budgeting – Cost of Capital – Methods - Project Profitability – Methods – Pay Back Period -Accounting Rate of Return – Internal Rate of Return - Net Present Value Method (Problems). (15 Hours)

**UNIT V : Optimisation**

Optimisation Techniques - Linear Programming - Graphical and Simplex Methods – Primal and Dual (Problems). (20 Hours)



### **RECOMMENDED TEXTBOOKS:**

1. P.L.Mehta, “Managerial Economics”, Sultan Chand and Sons, New Delhi, 2016.
2. Donald N Stengel , Managerial Economics Concepts and Principles Business Expert Press. 2011

### **REFERENCE BOOKS:**

1. D.N.Dwivedi , Managerial Economics, Vikas Publishing House Pvt. Ltd. 2016.
2. Varshney. R.L and K.L. Maheswari, Managerial Economics, Sultan Chand and Sons, New Delhi, 2018.
3. Yogesh, Maheswari, Managerial Economics, PHI Learning Pvt Ltd. 2012
4. Michael R Baye, Managerial Economics & Business Strategy – Mc. Graw Hill, USA, 5<sup>th</sup> Edition 2009.
5. Vohra N.D., Quantitative Techniques in Management, McGraw Hill 2017.

### **JOURNALS:**

1. The IUP Journal of Managerial Economics, IUP Publications
2. Asian Journal of Research in Business Economics and Management (AJRBEM)

### **E LEARNING RESOURCES:**

1. [www.nic.edu/calt/olc](http://www.nic.edu/calt/olc)
2. <https://ocw.mit.edu>
3. <https://libguides.humboldt.edu/openedu/econ>
4. <https://online.stmary.edu/mba/courses/managerial-economics>
5. [www.gettingsmart.com](http://www.gettingsmart.com)
6. [economicsonline.co.uk](http://economicsonline.co.uk)

**COURSE OUTCOMES:**

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

CO NUMBER	CO STATEMENT
CO 1	Explain the concepts in Managerial Economics and demand forecasting
CO 2	Analyse the importance of cost and types of pricing
CO 3	Discuss the relevance of Profit and Break Even Analysis
CO 4	Analyse the importance of Capital Budgeting and appraisal of projects
CO 5	To Identify the relevance of optimization techniques with reference to Linear Programming

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	3	3	2	3	2
CO2	3	2	2	1	2	2
CO3	3	3	3	3	2	2
CO4	3	3	3	3	2	2
CO5	3	2	3	3	3	3
<b>AVERAGE</b>	<b>3</b>	<b>2.6</b>	<b>2.6</b>	<b>2.4</b>	<b>2.4</b>	<b>2.2</b>

**KEY:** STRONGLY CORRELATED-3 MODERATELY CORRELATED-2

WEAKLY CORRELATED-1 NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory Section C must have 1 problem
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER VI**  
**WOMEN ENTREPRENEURSHIP**

**TOTAL HOURS: 90**  
**CREDITS: 5**

**COURSE CODE: EC21/6E3/WOE**  
**LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To develop the entrepreneurial skills in women.
2. To know the various livelihood supports for women employment opportunities
3. To provide an insight into the various functional aspects of starting and managing own business
4. To Provide an insight into product planning and innovation
5. To assess project report and project appraisal

**COURSE OUTLINE:**

- UNIT I : Women Entrepreneurship**  
Women Entrepreneurship – Significance – Contributing Factors – Characteristics – Growth -Challenges –Entrepreneurship in Sectors: Agriculture, Tourism, Healthcare, Transport and Allied services – Relationship between Entrepreneurship and Empowerment – Achievements of Women Entrepreneurs – Role Models of Women Entrepreneurs. (15Hours)
- UNIT II : Women Employment**  
Livelihood support for Women Employment Opportunities: Various Agencies – Income Generating Programme – IRTP – Rural Credit and Women’s Self-Help Groups – Skill Development and Technology Transfer – Impact on Women’s Development Programs and Policy Measures. (20Hours)
- UNIT III : Financial Assistance**  
EDP – Objectives - Micro Enterprises and Self Employment - Opportunities – Trends and Patterns of Women Entrepreneurship – Non Stereotyping Women – Institution and Schemes Supporting Women Entrepreneurs: SIDO, DIC, EDI, NIESBUD, SEWA, ALEAP – Institutional Infrastructure- Government Initiatives for Women Entrepreneurs: Bharathiya Mahila Bank – Mudra Yojana Scheme – Dena Shakti Scheme Udyogini Scheme – Cent Kalyani Scheme - Mahila Udyam Nidhi Scheme - Women Entrepreneurship Platform. (20 Hours)
- UNIT IV : Women Entrepreneurship and Start Ups**  
Project Report – Importance – Format of a Report (As per the requirements of financial institution) – Project Appraisal – Market Feasibility – Technical Feasibility – Financial Feasibility and Economic Feasibility – Break Even Analysis. (20 Hours)
- UNIT V : Analysis**  
Women Social Entrepreneurs – Successful Women Entrepreneurs- Case Studies – SWOT Analysis. (15 Hours)

## **RECOMMENDED TEXTBOOKS:**

1. Dr.Vasanthagopal.R and Santha.S, Women Entrepreneurship in India, New Century Publications, 2008.
2. Priyanka Sharma Gurnani, “Women Entrepreneurship”, Educreation Publishing, 2016.

## **REFERENCE BOOKS:**

4. Sanjay Tiwari.N, Anshuja Tiwari, Women Entrepreneur and Economic Development, Swaroop & Sons, 2017.
5. Vanessa Ratten, Leo Paul Dana et al, Women Entrepreneurship in Family Business, Taylor & Francis Publishers, 2017.
6. Jaynal Uddin Ahmed and K.Devananda Singh, Women Entrepreneurship in India, New Century Publication, 2016.
7. Kiyinet Tunca Caliyurt, Liliane Segura, Women Sustainable Entrepreneurship & The Economy”, Taylor & Francis Publishers, 2019.
8. Maria Teresa Lepeley, Katherine Kuschell et al, The Well Being of Women in Entrepreneurship: A Global Perspective Taylor & Francis Publishers, 2019.
9. Candida.G.Brush, Anne de Bruin et al, Women Entrepreneurs and The Global Environment for Growth, Edward Elgar Publisher, 2018.

## **JOURNALS:**

1. The Journal of Entrepreneurship: SAGE
2. Journal of Entrepreneurship, Management and Innovation
3. Journal of Entrepreneurship in Emerging Economies

## **E-LEARNING RESOURCES:**

- 1.<https://www.yourarticlelibrary.com/women/women-entrepreneurship/women-entrepreneurship/99813>
2. <https://www.coursera.org/lecture/local-economic-development/women-entrepreneurs-Y6NpW>
3. <https://www.startupindia.gov.in/content/sih/en/government-schemes/Wep.html>
4. <https://www.emerald.com/insight/content/doi/10.1108/APJIE-06-2019-0041/full/html>
5. [http://inpressco.com/special\\_edition/the-role-of-women-entrepreneurship-in-modern-world/](http://inpressco.com/special_edition/the-role-of-women-entrepreneurship-in-modern-world/)

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Understand the role of Women Entrepreneurship in different facets of society
CO 2	Know the various livelihood supports for women employment opportunities
CO 3	Elucidate the role of various developmental schemes supporting women entrepreneurship
CO 4	Provide an insight into product planning and innovation
CO 5	Assess project report and project appraisal

**MAPPING- COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	1	2	2	3
CO2	3	3	3	2	3	3
CO3	3	3	2	2	2	3
CO4	2	2	3	2	2	2
CO5	3	2	2	2	2	3
<b>AVERAGE</b>	2.8	2.4	2.2	2	2.2	2.8

**KEY:** STRONGLY CORRELATED-3

MODERATELY CORRELATED-2

WEAKLY CORRELATED-1

NO CORRELATION-0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER VI  
BEHAVIOURAL ECONOMICS**

**TOTAL HOURS: 90  
CREDITS: 5**

**COURSE CODE: EC21/6E3/BEE  
LTP: 3/3/0**

**COURSE OBJECTIVES**

1. To enable the students to understand the concepts of Behavioral Economics.
2. To analyze how economic assumptions are disproved in real life complexities.
3. To know the types of biases and its impact on decisions
4. To understand the applications of behavioral economics in decision making
5. To review the importance of randomized control trials

**COURSE OUTLINE**

- UNIT I** : **Evolution of Behavioural Economics**  
Evolution of Behavioural Economics and Experimental Economics – Neo-Classical Economic Theory Versus Behavioural Economics - Concepts – Rationality – Irrational Consumer Behaviour - Dual System Theory. (20 Hours)
- UNIT II** : **Concepts and Theory**  
Prospect theory – Key Concepts-Certainty - Isolation – Small Probabilities - Loss Aversion - Relative Positioning - Decision – Weighting. (20 Hours)
- UNIT III** : **Applications of Behavioural Economics**  
Heuristics & Biases – Meaning - Cognitive Biases and other Biases - Status quo bias, - Optimism Bias - Applications of Nudge and Sludge (15 Hours)
- UNIT IV** : **Source of Networks**  
Social Networks – Impact - Preferences – Buying Behaviour Altruism Inequality - Aversion – Intention – Self - Deception. (20 Hours)
- UNIT V** : **Experimental Economics**  
Randomized Control Trials - Applications in Economics - Experimental Economics and RCP – Controlled Experiments in Empirical Economics (15 Hours)

## **RECOMMENDED TEXT BOOKS :**

1. Esther Duflo and Abhijit Banerjee Good Economics for Hard Times: Better Answers to Our Biggest Problems, Juggernaut, 2019.
2. Nick Wilkinson ., An Introduction to Behavioral Economics, Palgrave Macmillan , 2012.
3. Sanjit Dhami, The Foundations of Behavioral Economic Analysis, Oxford University Press, 2019.

## **REFERENCE BOOKS:**

1. Richard H. Thaler and Cass R. Sunstein Nudge: Improving Decisions About Health, Wealth, and Happiness, Penguin Books,2009.
2. Michael Lewis The undoing project Penguin UK, 2017.
3. Christopher Chabris and Daniel Simons, The Invisible Gorilla” ,Broadway Papaerbacks, 2011.
4. Floris Hukelom Behavioral Economics: A History (Historical Perspectives on Modern Economics),Cambridge University Press,2014.
5. Dan Ariely Predictably Irrational Revised, Harper, New York Times,2010.
6. Nick Wilkinson and Matthias Klaes, An Introduction to Behavioural Economics 2<sup>nd</sup> Edition, Palgrave Macmillan, London, 2012.

## **JOURNALS:**

1. International Journal of Applied Behavioral Economics(IJABE)
2. Journal of Economic Behavior & Organization
3. Journal of Economic Psychology
4. Journal of Behavioral and Experimental Economics

## **E-LEARNING RESOURCES**

1. <http://www.behavioraleconomics.com/BEGuide2017.pdf>
2. [https://academic.oup.com/restud/pages/behavioural\\_economics](https://academic.oup.com/restud/pages/behavioural_economics)
3. <https://www.tutor2u.net/economics/reference/an-introduction-to-rational-decision-making>
4. <https://ocw.mit.edu/courses/economics/14-127-behavioral-economics-and-finance-spring-2004/lecture-notes/>
5. <http://www.umass.edu/preferen/gintis/behavior.pdf>
6. Well-being (new economics.org)

## COURSE OUTCOMES

On Completion of the course the students will be able to:

CO NUMBER	CO STATEMENT
CO 1	Study the concepts in behavioural Economics
CO 2	Theory of Prospect and related concepts
CO 3	Types of biases and its impact on decisions
CO 4	Impact of social networks in decision making
CO 5	Relevance of Randomized Control Experiments

## MAPPING- COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	2	3	3	3
CO2	3	3	3	3	3	3
CO3	3	3	2	3	3	3
CO4	3	3	2	2	3	3
CO5	3	3	3	3	3	3
AVERAGE	3	3	2.4	2.8	3	3

KEY: STRONGLY CORRELATED - 3 MODERATELY CORRELATED -2  
WEAKLY CORRELATED -1 NO CORRELATION -0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		



## **PROJECT**

**TOTAL HOURS: 90**

**COURSE CODE: EC21/6E3/PRO**

**CREDITS :5**

**LTP: 3/2/1**

### **COURSE OBJECTIVES**

- To provide an opportunity for students to apply theoretical concepts in real life situations.
- To enable students to prepare a project on any Economics related issues to carry out specific goal oriented tasks.

**SEMESTER I  
BUSINESS ECONOMICS  
I B.COM (C.S)**

**TOTAL HOURS: 90**

**COURSE CODE: EC21/1A/BUE**

**CREDITS :5**

**LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To know about the basic idea about the Business Economics in terms of its nature and scope.
2. To understand the concepts of demand forecasting and demand distinctions.
3. To make the students to understand the price and output determination in different market structures.
4. To help the students to know about fundamental pricing strategies and policies.
5. To analyse the concept of Inflation and Deflation along with Business Cycle

**COURSE OUTLINE:**

**UNIT I : Concepts in Business Economics**

Introduction to Economics – Definition - Wealth, Welfare and Scarcity – Positive and Normative Economics – Scope of Business Economics - Concepts – Opportunity Cost – Accounting Profit and Economic Profit - Incremental and Marginal Concepts – Time and Discounting Principles - Significance of Business Economics in Decision Making-Role and Social responsibilities of Business Managers. (15Hours)

**UNIT II : Demand**

Demand - Determinants and Distinctions of Demand – Exceptions to the Law of Demand -Elasticity of Demand – Importance - Types - Measures of Elasticity – Demand Forecasting (20Hours)

**UNIT III : Market Structure**

Forms of Market Structure - Conditions and Equilibrium Perfect Competition - Monopoly – Discriminating Monopoly – Dumping - Monopolistic Competition - Bilateral Monopoly – Oligopoly – Sweezy’s Kinked Demand Curve – Cartels (20Hours)

**UNIT IV : Pricing**

Pricing Methods – Full Cost Pricing – Target Pricing – Going Rate Pricing – Differential Pricing – Pricing over the Life Cycle of Product – Pricing by Manufacturers and Retailers – Specific Pricing – Dual Pricing – Mark-up Pricing. (15Hours)

**UNIT V : Inflation and deflation**

Inflation – Deflation – Causes – Remedies – Types - Slump Inflation – Asset Inflation and Core Inflation — Stagflation – Business Cycles – Phillips Curve - Covid -19 and Inflation in India. (20Hours)

### **RECOMMENDED TEXTBOOKS:**

1. H.L.Ahuja, Business Economics, S Chand Publishing, 2016.
2. John Sloman, Elizaabeth Jones, Essential Economics for Business, Pearson Publications, 2019.

### **REFERENCE BOOKS:**

1. Gregory Mankiw, Economics: Principles and Applications, New Delhi, Cengage Learning India, 2008.
2. Karl E. Case, Ray C. Fair, and Sharon Oster, Principles of Economics, Pearson Publications, 2017.
3. S.K.Agarwal, Business Economics, S Chand Publishing, 2018.
4. Dr. J.P.Mishra, Business Economics, Sahitya Bhawan Publications, 2019.
5. K.Rajagopalchar, Business Economics, Atlantic Publications, 2020.

### **JOURNALS:**

1. Journal of Business Economics
2. International Journal of Business, Economics and Management.

### **E-LEARNING RESOURCES:**

1. <https://www.icsi.in/Study%20Material%20Foundation/BE.pdf>
2. <https://www.toppr.com/guides/business-economics/introduction-to-business-economics/>
3. <http://www.economicdiscussion.net/business-economics/business-economics-definition-characteristics-and-scope>
4. <https://www.ukessays.com/essays/commerce/definition-of-business-economics-commerce-essay.php>
5. <https://www.inderscience.com/jhome.php?jcode=gber>

## COURSE OUTCOMES:

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

CO	CO STATEMENT
CO1	Utilize the basic Concepts of Business Economics to solve challenges in Business and role and social responsibilities of Businessmen.
CO2	Analyse demand, forecasting of demand and its determinants
CO3	Gain knowledge on various Market Structure and their Pricing behaviour.
CO4	Diagnose the various Pricing policies and Strategies.
CO5	Discuss the concept of Inflation and Deflation along with Business Cycle and impact of Covid -19 on inflation.

## MAPPING – COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	3	1	1	1
CO2	3	3	3	3	3	2
CO3	3	3	3	3	3	3
CO4	3	3	3	2	3	3
CO5	3	3	2	3	3	3
AVERAGE	3	2.8	2.8	2.4	2.6	2.4

**KEY:** STRONGLY CORRELATED-3    MODERATELY CORRELATED-2  
WEAKLY CORRELATED-1    NO CORRELATION-0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/3x20 Marks	500	40		

**SEMESTER II  
INTERNATIONAL TRADE**

**I B.COM (C.S)**

**TOTAL HOURS: 90**

**CREDITS: 5**

**COURSE CODE: EC21/2A/INT**

**LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To acquire specialised knowledge in international trade
2. To understand the fundamental conceptual framework through theories of international trade.
3. To understand the mechanics of the working of foreign exchange rate.
4. To perceive the pros and cons of FDI and the role of multi-national corporations in economic development
5. To gain knowledge about the International Financial Institutions.

**COURSE OUTLINE:**

- UNIT I : Trade**  
International Trade – Meaning - Scope and Importance - International and Inter - Regional Trade - Similarities - Analytical Tools - Community Indifference Curve – Production Possibility Curve – Offer Curves – Opportunity Cost - Gains from Trade – Potential and Actual Gain – Factors Determining Gains from Trade - Trade Policy – Free Trade Vs Protection – Impact of Covid-19 on International Trade (20Hours)
- UNIT II : Theories of International Trade**  
Mercantilism - Adam Smith (Absolute Advantage) – David Ricardo (Comparative Advantage) – Nobel Laureate Heckscher – Bertil Ohlin Theory (Factor Endowment Theory) – Raymond Vernon (Product Life Cycle Theory) – Porter’s Diamond Theory (National Competitive Advantage Theory). (15Hours)
- UNIT III : Exchange Rate**  
Exchange Rate – Fixed Vs. Flexible – Exchange Control – Objectives – Methods - Balance of Trade and Balance of Payments – Current Account and Capital Account – Causes of Disequilibrium – Remedies. (20Hours)
- UNIT IV : Tariff**  
Tariff - Meaning, Types - Quotas - Meaning, Types – Dumping – Recent Export and Import Policies of Government of India – Foreign Direct Investment and Role of MNCs in India. (15Hours)
- UNIT V : Trade Agreements**  
IMF - World Bank – ADB – WTO - Regional Trade Agreements - G20 +- BRICS – BREXIT - Recent Summits - Financial Aid to Combat Pandemic in Developing Countries (20Hours)

### **RECOMMENDED TEXTBOOKS:**

1. K.R.Gupta, International Economics, Atlantic Publishers, 2009.
2. Anne Osborn Krueger, International Trade, Oxford University Press, 2020.

### **REFERENCE BOOKS:**

1. Vaish M.C. International Economics, Oxford and IBM Publishing Comp., 2018.
2. Mithani. D.M., Introduction to International Economics. Boras Publishing Pvt. Ltd., New Delhi, 2015.
3. Paul Krugman, Maurice Obstfeld and Marc Melitz, Addison– Wesley International Economics: Theory and Policy, Pearson Education Indian Edition, 2018.
4. Dominick Salvatore, International Economics: Trade and Finance, Wiley Publisher, 2013.
5. Robert Carbaugh International Economics, Cengage Learning, 2019,

### **JOURNALS:**

1. Journal of International Economics-Elsevier
2. Journal of Global Economics, Management and Business Research.

### **E-LEARNING RESOURCES:**

1. <http://internationalecon.com/Trade/Tch5/T5-2.php>
2. <https://www.economicdiscussion.net/international-economics/international-economics-its-concept-parts/4205>
3. <https://www.thoughtco.com/definition-of-international-economics-1146350>
4. <https://www.lse.ac.uk/study-at-lse/Summer-Schools/Summer-School/Courses/Secure/Economics/EC351>
5. <https://link.springer.com/journal/10368>

**COURSE OUTCOMES:****On completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO1	Identify the basic difference between Inter-regional and International Trade and Impact of Covid-19 on International Trade.
CO2	Understand the basic theories of International Trade
CO3	Gain knowledge on Foreign exchange market and its effects.
CO4	To understand the various types of Tariffs, recent import and export policies of India – Foreign direct investment and the working and regulations of MNC'S in India.
CO5	Learn and gain knowledge about the International Financial Institutions and its role in mitigating International Financial Crisis during pandemic.

**MAPPING-COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	2	3	3	3	2
CO2	3	2	2	2	2	2
CO3	2	3	2	3	3	3
CO4	3	2	3	2	3	3
CO5	3	3	2	2	2	2
AVERAGE	2.8	2.4	2.4	2.4	2.6	2.4

**KEY:** STRONGLY CORRELATED-3  
WEAKLY CORRELATED-1

MODERATELY CORRELATED-2  
NO CORRELATION-0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/3x20 Marks	1200	40		

**SEMESTER III  
PRINCIPLES OF ECONOMICS  
II B.COM**

**TOTAL HOURS : 90  
CREDITS : 5**

**COURSE CODE: EC21/3A/PRE  
LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To understand the concepts of Demand and Consumer Surplus.
2. To help the students to understand about the consumer behavior and Production Function.
3. To study about the various forms of Market Structures
4. To understand concept of cost and revenue and the role of business environment.
5. To equip them in understanding the phases of business cycle.

**COURSE OUTLINE:**

- UNIT I : Utility and Demand**  
Definition and Scope of Economics – Utility - Law of Diminishing Marginal Utility - Law of Equi Marginal Utility - Demand - Law of Demand – Types – Elasticity of Demand – Methods – Measurement – Consumer Surplus - Lancaster’s Approach to Consumer Theory.(20 Hours)
- UNIT II : Production Function**  
Production Function – Types of Production Function – Law of Variable Proportions – Returns to Scale – Euler’s Theorem – Supply - Law of Supply - Factors affecting Supply - Elasticity of supply.  
(20 Hours)
- UNIT III : Cost & Revenue**  
Cost – Total, Average and Marginal Cost Curves- Relationship between Average and Marginal Cost Curves- Short Run and Long Run Cost Curves- Revenue - Relationship between AR and MR Curves (15 Hours)
- UNIT IV : Price and Output in Market structure**  
Price - Output Determination (Short run and Long run) – Perfect Competition – Monopoly – Discriminating Monopoly – Monopolistic Competition – Oligopoly.  
(20 Hours)
- UNIT V : Inflation**  
Inflation – Causes – Demand Pull & Cost Push Inflation - Slump Inflation – Asset Inflation – Core Inflation – Stagflation – Deflation - Causes - Business Cycles – Phases –Theories - Recent Trends of Gold and Oil Prices in India.  
(15 Hours)



### **RECOMMENDED TEXTBOOKS:**

1. A.Koutsoyiannis, Modern Micro Economics, International Edition, Palgrave Macmillan, 2018.
2. H.L.Ahuja, Advanced Economic Theory, S.Chand Publication, Chennai 2019.

### **REFERENCE BOOKS:**

1. Mankiw N.Gregory, Principles of Economics, Cengage Learning, 9<sup>th</sup> Edition, 2020.
2. Case Karl E , Principles of Economics , Pearsons Education India, 12<sup>th</sup> Edition, 2017.
3. M.L.Jhingan, Advanced Economic Theory, Vrinda Publication Pvt. Ltd., Delhi, 2019.
4. Myneni S R, Principles of Economics , Allahabad Law Agency, Faridabad, 6<sup>th</sup> Edition, 2019.
5. Sankaran S. Business Economics., Margham Publications, Chennai,2012.

### **JOURNALS:**

1. American Economic Review
2. Journal of Economic Theory

### **E-LEARNING RESOURCES:**

1. <https://ocw.mit.edu/courses/economics/14-01-principles-of-microeconomics-fall-2018/lecture-notes/>
2. <https://www.behavioraleconomics.com/resources/introduction-behavioraleconomics/>
3. <https://www.econlib.org/library/Marshall/marP.html>
4. <https://study.com/academy/lesson/what-is-economics-definition-principles-quiz.html>
5. <https://courses.lumenlearning.com/wmopen-introductiontobusiness/chapter/putting-it-together-2/>
6. [https://assets.openstax.org/oscms-prodcms/media/documents/Economics2e-OP\\_s2jF42u.pdf](https://assets.openstax.org/oscms-prodcms/media/documents/Economics2e-OP_s2jF42u.pdf)

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

<b>CO NUMBER</b>	<b>CO STATEMENT</b>
<b>CO 1</b>	Explain meaning, types, laws and the theories of Consumer Behavior.
<b>CO 2</b>	Summarize Production, its types, laws, functions and properties.
<b>CO 3</b>	Derive Revenue, Cost and Output functions and the relation between the Average, Marginal and the Total functions.
<b>CO 4</b>	Compare the features of perfect and Imperfect Market structure.
<b>CO 5</b>	Analyse Inflation, Deflation, Causes and Remedies along with trade cycles theories.

**MAPPING : COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

<b>CO/PSO</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>	<b>PSO 4</b>	<b>PSO 5</b>	<b>PSO 6</b>
<b>CO1</b>	3	2	2	2	2	2
<b>CO2</b>	3	3	2	2	2	2
<b>CO3</b>	2	2	3	2	2	2
<b>CO4</b>	3	3	3	3	3	3
<b>CO5</b>	3	3	3	3	3	3
<b>AVERAGE</b>	2.8	2.6	2.6	2.4	2.4	2.4

**KEY : STRONGLY CORRELATED - 3 MODERATELY CORRELATED - 2****WEAKLY CORRELATED - 1 NO CORRELATION - 0****QUESTION PAPER PATTERN**

<b>Knowledge Level</b>	<b>Section</b>	<b>Word Limit</b>	<b>Marks</b>	<b>Total</b>	<b>Special Instructions if any</b>
<b>K1</b>	<b>A-10x2 Marks</b>	<b>50</b>	<b>20</b>	<b>100</b>	Question No.- is compulsory
<b>K1, K 2</b>	<b>B-5/8x8 Marks</b>	<b>300</b>	<b>40</b>		
<b>K2, K 3</b>	<b>C-2/4x20 Marks</b>	<b>1200</b>	<b>40</b>		

**SEMESTER IV**  
**INTERNATIONAL ECONOMICS**  
**II B.COM**

**TOTAL HOURS: 90**  
**CREDITS: 5**

**COURSE CODE : EC21/4A/INE**  
**LTP:3 /3/0**

**COURSE OBJECTIVES:**

1. To gain insight on the fundamental concepts and various theories of International Economics.
2. To understand the concept of foreign exchange rate
3. To gain knowledge about Free trade and Protection.
4. To help student understand the Balance of Payments
5. To analyse the role of International Financial Institutions.

**COURSE OUTLINE:**

**UNIT I : International Economics**

International Economics - Meaning - Scope - Importance - Similarities - Difference between Inter-regional and International Trade - Gains from Trade — Actual Gain and Potential Gain — Factors Determining the Gains from Trade – Terms of Trade – Types – Factors Affecting Terms of Trade.  
(20 Hours)

**UNIT II : Theories of International Trade**

Adam Smith (Absolute Advantage) — David Ricardo (Comparative Advantage) — Nobel Laureate Heckscher - Bertil Ohlin Theory (Factor Endowment Theory) — Raymond Vernon (Product Life Cycle Theory) — Porter's Diamond Theory (National Competitive Advantage Theory) – Krugman's New Trade Theory.  
(15 Hours)

**UNIT III : Trade & Protection**

Free Trade - Cases for & against Free Trade — Protection - Arguments for and against Protection — Neo-Protectionism - Tariffs – Meaning – Types - Effect under Partial Equilibrium - Optimum Tariffs – Quotas -Meaning – Types.  
(15 Hours)

**UNIT IV : Foreign Exchange Rate**

Control — Features — Objectives — Methods — Merits and Demerits – Foreign Exchange Rate- Theories of Foreign Exchange Rate - Purchasing Power Parity Theory - Current Exchange Rate Policy - Balance of Payment— Structure— Disequilibrium — Measures to Combat Disequilibrium.  
(20 Hours)

**UNIT V : Trade Organizations and Institutions**

IMF, WTO, WB, G20, ADB, Trade Blocks, BRICS, BREXIT – Financial Aid to Developing Countries to Combat Covid-19  
(20Hours)

### **RECOMMENDED BOOKS :**

1. Paul Krugman, Maurice Obstfeld and Marc Melitz, Addison – Wesley International Economics: Theory and Policy, Pearson Education Indian Edition. (2021).
2. M.L Jhingan,– International Economics, Vrindha Publications, (2020).

### **REFERENCE BOOKS:**

1. Dominick Salvatore, International Economics, John Wiley International Student Edition (2019).
2. Bosodersten, International Economics, Macmillan Press Ltd London (1994).
3. D.R Mathani International Economics, Himalaya Publishing House Private Limited, 2017
4. Robert Carbaugh – International Economics, Cengage Learning (2019).
5. K.C. Rana & K.N. Verma -International Economics-Vishal Publication Co 2016

### **JOURNALS:**

1. Journal of International Economics.
2. Journal of Global Economics.

### **E-LEARNING RESOURCES:**

1. <http://internationalecon.com/Trade/tradehome.php>
2. <https://www.economicdiscussion.net/international-economics/international-economics-its- concept-parts/4205>
3. <http://www.studyingeconomics.ac.uk/module-options/international-economics/>
4. <https://www.britannica.com/topic/economics/International-economics>
5. [https://ddceutkal.ac.in/ECO-3.3-International\\_Economics.pdf](https://ddceutkal.ac.in/ECO-3.3-International_Economics.pdf)

**COURSE OUTCOMES:****On Completion of the course the students will be able to:**

CO NUMBER	CO STATEMENT
CO 1	Explain meaning, importance, difference between international and domestic trade.
CO 2	Summarize the Theories of International Trade.
CO 3	To understand Free trade and Protection and its argument for and against, Tariff and Quotas
CO 4	To gain knowledge on Exchange Control, Foreign Exchange Rate and Balance of payment.
CO 5	Learn and gain knowledge about the International Financial Institutions and its role in mitigating International Financial Crisis.

**MAPPING : COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	3	3	2	2	2	3
CO2	3	3	2	3	2	2
CO3	2	2	3	2	2	2
CO4	3	3	3	3	3	2
CO5	3	3	3	3	3	3
<b>AVERAGE</b>	2.8	2.8	2.6	2.6	2.4	2.4

**KEY: STRONGLY CORRELATED-3****MODERATELY CORRELATED-2****WEAKLY CORRELATED-1****NO CORRELATION-0****QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SEMESTER III**  
**INDIAN ECONOMY**

**II BA HISTORY**

**TOTAL HOURS: 90**

**COURSE CODE: EC21/3A/INE**

**CREDITS: 5**

**LTP:3/3/0**

**COURSE OBJECTIVES:**

1. To enable the Students gain in-depth knowledge on Economic Development, economic growth and its determinants.
2. To gain knowledge on new approach of Planning in India and its consequences
3. To familiarize the students with basic concepts, structure, problems and issues related to Indian Economy.
4. To study the working of various sectors in the Indian economy
5. To enable students to face the various competitive exam

**COURSE OUTLINE:**

- UNIT I** : **Introduction of Indian Economy**  
Basic Features of Indian Economy - Structure of Indian Economy - Population Size and Growth - Demographic Transition - New Population Policy - Human Resource Development - Health and Education - Indicators- HDI- Happiness Index – Global Prosperity Index (India’s Ranking)  
(20 Hour)
- UNIT II** : **Planning**  
Planning Objectives - Development Strategies – LPG - Progress of Privatization and Globalisation - NITI Aayog  
(15 Hours)
- UNIT III** : **Agriculture**  
Agriculture – Contributions – Agri-Supply Chain - National Commission on Farmers and Second Green Revolution – Crop Insurance - Farm Bills 2020 - Food Security – Targeted Public Distribution System (TPDS) – Genetically Modified Seeds (GMS) and Organic Farming.  
(20 Hours)
- UNIT IV** : **Industry**  
Key Large Scale Industries - Iron and Steel - Agro Chemical - Cement and Textile – MSME - New Industrial Policy – Make in India Initiatives - Aatma Nirbhar Bharath.  
(20 Hours)
- UNIT V** : **Poverty**  
Poverty - Poverty Line - Measurement - Causes - Poverty Alleviation Programmes – Unemployment - Types - Problems – Remedies – Migrant Workers and Covid -19  
(15Hours)

**RECOMMENDED TEXTBOOKS:**

1. Dhingra I.C, Indian Economy- Environment and Policy Sultan Chand & and Company Pvt, Ltd., New Delhi. 28<sup>th</sup> Edition 2018
2. Gaurav Datt & Ashwani Mahajan, Indian Economy, 72<sup>nd</sup> Edition S.Chand & Company Pvt, Ltd, New Delhi, 2016
3. Sri ram Srirangam and Manish Kumar ,Indian Economy , Pearson Education , New Delhi, 2019

**REFERENCE BOOKS:**

1. Misra and Puri, Indian Economy, Himalaya Publishing House, New Delhi, 2017
2. Ramesh Singh, Indian Economy, McGraw Hill Education, 12<sup>th</sup> Edition, 2020
3. Sankarganesh Karupiah, Indian Economy by Concepts, Kavin Mukhi Publications, 6<sup>th</sup> Edition, 2020
4. Uma Kapila, Indian Economy, Performance and Policies, 20<sup>th</sup> Edition, Academic Foundation ,New Delhi, 2019
5. Madhu M. Mahajan, Indian Economy, Pearson Education , New Delhi, 2020

**JOURNALS:**

1. The Indian Economic Journal
2. Pragati Journal of Indian Economy
3. Indian Economic Review
4. Agricultural Economic Research Review

**E-LEARNING RESOURCES:**

1. [www.intelligenteconomist.com](http://www.intelligenteconomist.com)
2. [www.cmie.com](http://www.cmie.com)>kommon>bin
3. [www.mapsofindia.com/my-india/society/poverty](http://www.mapsofindia.com/my-india/society/poverty)
4. <http://planningcommission.gov.in/sectors>
5. <https://mhrd.gov.in>

**COURSE OUTCOMES:**

On Completion of the course the students will be able to:

CO Number	CO STATEMENT
CO 1	Concept of Economic Growth, Development and Differentiate various economic and non-economic factors that determine development of Indian economy.
CO 2	Identify the importance of Human Capital for Economic Development of the country.
CO 3	Appraise the issues related to Poverty and Unemployment and understand relevant policy implications to combat these problems.
CO 4	Know the importance of Agricultural sectors in Indian Economy
CO 5	Gain a knowledge on new approach of Planning in India and its consequences

**MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME**

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	3	2	2	1	2	3
CO2	2	3	2	2	3	3
CO3	3	2	2	2	2	2
CO4	2	2	2	2	3	2
CO5	2	2	2	2	2	2
<b>AVERAGE</b>	2.4	1.6	1.5	1.8	2.4	2.4

**KEY:** STRONGLY CORRELATED - 3      MODERATELY CORRELATED - 2  
 WEAKLY CORRELATED - 1      NO CORRELATION - 0

**QUESTION PAPER PATTERN**

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		



**SEMESTER IV  
TAMIL NADU ECONOMY  
II B.A HISTORY**

**TOTAL HOURS: 90  
CREDITS: 5**

**COURSE CODE: EC21/4A/TNE  
LTP : 3/3/0**

**COURSE OBJECTIVES**

1. To gain an in depth knowledge of Tamil Nadu Economy
2. To identify the Demographic features and analyze the issues related to population growth in Tamil Nadu.
3. To familiarize students with sectoral dimensions of Tamil Nadu Economy
4. To identify the contribution of government in social welfare activities
5. To enable students to face the various competitive exam

**COURSE OUTLINE:**

- UNIT I : History of Tamil Nadu**  
Tamil Nadu Profile - Geographical Features – Natural Resources : Land, Forest, Water and Minerals - Features of the Economy - Economic Development of Tamil Nadu - Sectoral Composition - Sources of Finance - Geographical Indications of Tamil Nadu.  
(15 Hours)
- UNIT II : Population**  
Growth of Population – Vital Statistics – Size - Gender Ratio in Rural and Urban – Birth and Death Rate – Life Expectancy – Infant Mortality Rate – Fertility Rate - Vision 2023.  
(15Hours)
- UNIT III : Agriculture**  
Irrigation - Cropping Pattern – Production of Food Grains and Non - Food Grains - Agricultural Policy – Agricultural Marketing– The Public Distribution System - Agricultural Credit – Role of Rural Banks and NABARD in Agricultural Development.  
(20 Hours)
- UNIT IV : Industry**  
Industrial Investment in Tamil Nadu – Core Industries – MSME – SSI in Tamil Nadu - Handloom – Khadi and Village Industries – Industrial Finance Institution - TIDCO, SIDCO, TANSI, SIPCOT, THIC – Industrial Estates – EPZ , SPZ , SEZ ,MEPZ - Digital Economy - E-Sevai Centres - Vision 2023.  
(20Hours)
- UNIT V : Welfare Programmes**  
Welfare Programmes of the State – Integrated Child Development Service Schemes – Mid-Day Meals - Anganwadi Centres – Welfare Schemes for Vulnerable Social Groups - Social Security Pension Schemes – Self-Employment Schemes (UYEGP)–Women Development Programmes - Environment Protection Measures.  
(20Hours)

### **RECOMMENDED TEXTBOOKS:**

1. Leonard .S.J ,” Tamil Nadu Economy”, Laxmi Publications, 2006
2. S. Manickam, “Perspectives on Economic Development of Tamil Nadu”, Novena Offset Printing Company, 1<sup>st</sup> Edition, 2014

### **REFERENCE BOOKS:**

1. Madras Institute of Development Studies, “Tamil Nadu Economics Performance and Issues, Oxford and IBH Publishing Company Pvt Ltd, New Delhi, 1998
2. Rajalakshmi V, Tamil Nadu Economy, ( BPI) Pvt Ltd, 2002
3. Veeramani A.R., Tamil Nadu AgriculturalEconomy2015.
4. Introduction to TN Vision2023.
5. Statistical Handbook of Tamil Nadu, Department of Economics and Statistics, Government of Tamil Nadu, 2019

### **JOURNALS:**

1. Tamil Nadu Development Report, Planning Commission ,Government of India,2019
2. Tillin, R.Deshpande , Politics of Welfare: Comparison Across Indian States , Oxford University, 2015

### **E-LEARNING RESOURCES:**

1. [www.nipfb.org.in](http://www.nipfb.org.in)
2. <http://www.tn.gov.in/government>
3. <https://www.census2011.co.in/census/state/tamil+nadu.html>
4. [www.investingintamilnadu.com](http://www.investingintamilnadu.com)
5. [www.tnervis.nic.in](http://www.tnervis.nic.in)
6. [www.agriculturenotes.com](http://www.agriculturenotes.com)
7. [http : //agritech.tnau.ac.in](http://agritech.tnau.ac.in)

## COURSE OUTCOMES:

On Completion of the course the students will be able to

CO NUMBER	CO STATEMENT
CO 1	Recall the basic features of Tamil Nadu Economy and its potential on natural resources.
CO 2	Identify the Demographic features and analyze the issues related to population growth in Tamil Nadu.
CO 3	Gain knowledge on the importance of irrigation for agricultural development
CO 4	Have basic knowledge on classification of Industries , Role of industrial finance and its contributions to the state economy
CO 5	Identify the Social, Education and Health policies introduced by the Government of Tamil Nadu.

## MAPPING - COURSE OUTCOME WITH PROGRAMME SPECIFIC OUTCOME

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	2	2	2	2	2	2
CO2	2	2	1	2	2	2
CO3	1	2	2	2	2	2
CO4	2	2	2	3	2	2
CO5	3	2	2	2	2	2
AVERAGE	2	1.8	1.8	2.2	2.0	2.0

**KEY:**            STRONGLY CORRELATED-3            MODERATELY CORRELATED-2  
                         WEAKLY CORRELATED-1            NO CORRELATION-0

## QUESTION PAPER PATTERN

Knowledge Level	Section	Word Limit	Marks	Total	Special Instructions if any
K1	A-10x2 Marks	50	20	100	Question No.- is compulsory
K1, K 2	B-5/8x8 Marks	300	40		
K2, K 3	C-2/4x20 Marks	1200	40		

**SELF STUDY PAPER**  
**ETHICS AND ECONOMICS**  
**EC21/5SS/ETE**

**COURSE OBJECTIVES**

1. To enable the students to have an insight about Ethics and Morality.
2. To acquaint the student to relate Ethics to Economics and attain welfare of the Economy.

- UNIT I** : Economic Behavior and Moral Sentiments – Morality and Economic Outcomes – Economic Importance of Morality – Ethics and Markets – Economists and Morality – Economic Judgments and Moral Philosophy
- UNIT II** : Adam Smith and Self Interest – Interpersonal Comparisons of Utility – Pareto Optimality – Principle – Critics – Outcomes Vs Procedures – Economic Efficiency – Welfarism – Well-Being and Agency – Welfare – Goals – Choices – Conduct
- UNIT III** : Economic Behavior and Rationality – Rationality as Consistency – Self Interest and Rational Behavior – Adaptive Preferences - Valuing and Value – Agency – Well- being - Distinction – Interdependence – Self Interest and Welfare
- UNIT IV** : Freedom and Consequences – Plurality and Evaluation – Incompleteness and Over Completeness – Conflicts and Impasse – Theory of Justice: John Rawls – Non- Discrimination – Non-Stigmatization – Solidarity – Cooperation
- UNIT V** : Rights and Consequences – Preferences Vs Rights – Rights Vs Needs – Norms and Economic Behavior - Consequential Assessment and Deontology – Racism – Gender Discrimination – Doctrine of Equality – Types – Critics - Liberty and Rights – Case studies .

## **RECOMMENDED TEXTBOOKS**

1. Kenneth.J.Arrow, “On Ethics and Economics”, Routledge Frontier, NY, 2016
2. Amartya Sen, “On Ethics and Economics”, Black Well Publishing, 2014.

## **REFERENCE BOOKS**

1. Mark.D.White, “The Oxford Handbook of Ethics and Economics”, Oxford Publication, 2019
2. Khalid Mir, “Ethics and Economic Theory”, Routledge Frontier, NY, 2018
3. Peter Rona, Laszlo Zsolnai, “Economics as a Moral Science”, Springer Imprint, 2017
4. Wilfred Beckerman, “Economics as Applied Ethics: Fact and Value in Economic Policy”, Macmilan Publication, 2017
5. Smith Adam, “The Theory of Moral Sentiments”, Gutenberg Publication, 2014
6. Amitava.K.Dutt and Charles.K.Wilber, “Economics and Ethics: An Introduction”, Springer Imprint, 2014

## **JOURNALS**

1. Journal of Business Economics and Ethics
2. Journal of Business Ethics Quarterly

## **E-LEARNING RESOURCES**

1. <https://www.econlib.org/library/Enc/EthicsandEconomics.html>
2. <https://theconversation.com/oh-the-morality-why-ethics-matters-in-economics-5963>
3. <https://core.ac.uk/download/pdf/232970703.pdf>
4. [https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\\_wg3\\_ar5\\_chapter3.pdf](https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter3.pdf)
5. <https://kenan.ethics.duke.edu/wp-content/uploads/2018/01/Sharing-Economy-2015.pdf>

**SELF STUDY PAPER**  
**PHARMACO ECONOMICS**  
**EC21/5SS/PHE**

**COURSE OBJECTIVES:**

1. To understand the application of Pharmaco Economic Models for a healthcare regimen.
2. To analyse Drug Policy and Global Supply Chain.

**COURSE OUTLINE:**

- UNIT I** : Definition – Need - Importance –QALY – Person Time – Human Capital  
Approach – Willingness to Pay Approach – Time Trade off and Discounting –  
Demand and Supply of Drugs – Generic Drugs Vs Brand Drugs.
- UNIT II** : Direct Medical Costs – Direct Non-Medical Costs – Indirect Costs – Intangible  
Costs – Opportunity Costs – Evaluation – Cost Minimisation Analysis (CMA)  
– Cost Benefit Analysis (CBA) – Advantages and Disadvantages.
- UNIT III** : Advantages and Disadvantages – Incremental Cost Effective Ratio – Intermediate  
versus Primary Outcomes – Cost Effectiveness Grid.
- UNIT IV** : Consumer’s Surplus – Costs vs Benefits – Economic Burden of Illness – Cost  
Consequences Analysis (CCA) – Decision Tree – Economic Clinical and  
Humanistic Outcomes (ECHO Model)
- UNIT V** : Indian Pharmaceutical Industry (Major Players) - Pharmacy Council of India –  
Functions and Role – Drug Policy in India –IPR, Patenting, Vaccine Maithri and  
Global Supply Chain – E-Pharmacy - Recent Trends.

### **RECOMMENDED TEXTBOOKS:**

1. Lorenzo Pradelli and Albert Wertheimer , ‘Pharmacoeconomics: Principles and Practice’, Seed Medical Publishers; 1<sup>st</sup> Edition 31 July 2013
2. Renee J. G. Arnold, ‘Pharmacoeconomics: From Theory to Practice’ Drug Discovery Series, CRC Press, 2016.
3. Revikumar K.G, Pharma Med Press, ‘Pharmaco epidemiology And Pharmaco economics’, Pharma Med Press, Jan 2017.

### **REFERENCE BOOKS:**

1. Georg.E.Mackinnon III. Understanding health outcomes and Pharmacoeconomics, Jones and Bartlett Publishers, Inc; 1<sup>st</sup> Edition (22 September 2011).
2. Graker, Dennis . ‘Pharmacoeconomics and outcomes’, Amer College of Clinical Pharmacy (1 January 2003).
3. Walley, ‘Pharmacoeconomics’, Churchill Livingstone; 1st edition (18 November 2003).
4. Guru Prasad Mohanta and P K Manna A Textbook Of Pharmacovigilance Concept And Practice, PharmaMed Press/BSP Books (1 January 2015).
5. Bootman JL, Townsend RJ, McGhan WF (2002), Principles Of Pharmacoeconomics, Harvey Whitney Books; 3rd edition (July 30, 2004).
6. Karen Rascati, Essentials of Pharmaco economics, Lippincott Williams and Wilkins; 2nd edition (1 October 2013)

### **JOURNALS:**

1. Clinical Pharmacology & Biopharmaceutics
2. Hilaris
3. Journal of Applied Pharmacy
4. Indian Journal of Pharmacy Practice
5. ISPOR - The Professional Society for Health Economics and Outcomes Research

### **E-LEARNING RESOURCES:**

1. <https://www.ispor.org/conferences-education/education-training/virtual/distance-learning/introduction-to-pharmacoeconomics>
2. <https://fadic.net/courses/pharmacoepidemiology-and-pharmacoeconomics/>
3. <https://www.eu2p.org/certificates/catalogue/medicines-benefit-risk-assessment/principles-of-pharmacoeconomics-and-valuation-of-health-states>
4. <https://www.mooc-list.com/tags/pharmacoeconomics>
5. <https://www.coursera.org/lecture/drug-commercialization/pharmacoeconomics-in-drug-development-i-f6Reu>