

**BISHOP HEBER COLLEGE (AUTONOMOUS)**  
**TIRUCHIRAPPALLI – 620017**

**M.A. ECONOMICS**

**2019-2020**

**(Admitted Students)**

**Courses of study, Schemes of Examination & Syllabi**  
**(Choice Based Credit System)**



**PG & RESEARCH DEPARTMENT OF ECONOMICS**  
**BISHOP HEBER COLLEGE (AUTONOMOUS)**  
(Reaccredited with 'A' Grade (CGPA- 3.58/4.0) by NAAC &  
Identified as College of Excellence by the UGC)  
DST – FIST Sponsored College & DBT Star College  
**TIRUCHIRAPPALLI – 620017**  
**TAMIL NADU, INDIA**

**PG & RESEARCH DEPARTMENT OF ECONOMICS**  
**BISHOP HEBER COLLEGE (AUTONOMOUS)**  
**TIRUCHIRAPPALLI - 620 017**  
**OBE –SYLLABUS (2019-20)**

**Vision**

Impart life-oriented education in Economics for the holistic development of the students and to develop outstanding professionals to meet the global challenges through academic excellence in teaching, learning and research.

**Mission**

- Incorporate independent learning experiences in the field of economics through value based education with academic excellence and innovation in research.
- Prepare socially and economically disadvantaged sections of students to contribute towards the development of the country.

**Program Outcomes – PG Economics**

On successful completion of the programme the post graduate of Economics will be able to exhibit the following abilities in the respective domains.

**KNOWLEDGE**

**PO1.** Acquire in depth knowledge of economic theory in utilization and allocation of resources.

**PO2.** Gain through various sources to solve long standing issues and find out new breakthroughs.

**PO3.** Formulate an economic research problem and bring out an independent research project.

**SKILLS**

**PO4.** Use mathematical methods to analyze microeconomic or macroeconomic models.

**PO5.** Display research related skills through project work as they are trained to plan, execute, analyse the report and publish their findings and suggestions.

**PO6.** Develop critical and quantitative thinking skills in all the fields of economics.

**PO7.** Demonstrate the outcomes of holistic education for their employment in economics related public and private sector jobs and pursue higher education in reputed institutions by developing technical and communication skills.

## **ATTITUDES**

**PO8.** Explore and engage in lifelong learning by accessing library and ICT facilities to evolve new technologies based on the need of the job market.

## **ETHICAL & SOCIAL VALUES**

**PO9.** Practise moral and social values and would be emotionally, physically, intellectually strong to meet the needs of the society as a responsible citizen.

## **PROGRAMME SPECIFIC OUTCOMES**

On successful completion of the course the learner will be able to:

### **INTELLECTUAL SKILLS:**

**PSO1.** Apply the knowledge of advanced concepts of economics and principles in the policies of the government.

**PSO2.** Analyse the various economic problems and economic planning for the development of the Nation.

### **PRACTICAL SKILLS:**

**PSO3.** Compare the rate of growth of the Indian economy in the global context and identify the different factors influencing the process of growth and development.

**PSO4.** Apply the various economic measures to remove the fluctuations in the country and suggest alternative policies.

**Programme: M.A. Economics (2019 onwards)**

Sem.	Course	Course Title	Course Code	Hours / week	Credits	Marks		
						CIA	ESE	Total
I	Core I	Advanced Microeconomics	P18EC101	6	4	25	75	100
	Core II	Statistical Methods for Research	P18EC102	6	4	25	75	100
	Core III	Indian Economic Development	P18EC103	6	4	25	75	100
	Core IV	Public Economics	P18EC104	6	4	25	75	100
	Elective I	Monetary Economics	P18EC1:1	6	4	25	75	100
					<b>Sem.I Credits :</b>	20		
II	Core V	Advanced Macroeconomics	P18EC205	6	5	25	75	100
	Core VI	Mathematical Methods for Economic Analysis	P18EC206	6	5	25	75	100
	Core VII	Economics of Growth and Development	P18EC207	6	5	25	75	100
	Elective II	Human Resource Development	P18EC2:2	6	4	25	75	100
	<b>Elective III</b>	Nobel Laureates in Economics and their contribution	P19EC2:3	4	4	25	75	100
	VLO	RI/MI	P17VL2:1/ P17VL2:2	2	2	25	75	100
					<b>Sem.II Credits :</b>	25		
III	Core VIII	International Economics	P18EC308	6	5	25	75	100
	Core IX	Econometrics	P18EC309	6	5	25	75	100
	Core X	Research Methodology in Economics	P18EC310	6	5	25	75	100
	Core XI	Social Economics	P18EC311	6	5	25	75	100
	Elective IV	Entrepreneurship Development	P19EC3:4	6	4	25	75	100
					<b>Sem.III Credits :</b>	24		
IV	Core XII	Agricultural Economics	P18EC412	6	4	25	75	100
	Core XIII	Environmental Economics	P18EC413	6	4	25	75	100
	Core XIV	Industrial Economics	P18EC414	6	4	25	75	100
	Elective V	Economics of Infrastructure	P19EC4:5	6	4	25	75	100
	Core Project	Project	P18EC4PJ	6	5	--	--	100
					<b>Sem.IV Credits :</b>	21		

**Total Credits : 90**

Core Theory : 14 Education : 1	Core Project : 1	Elective : 5	Value	Total Courses:	21
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**Programme Articulation Matrix – M.A. Economics (2019-20)**

Sl.No.	Name of the Course	Course Code	Correlation with Programme Outcomes and Programme Specific Outcomes													
			P01	P02	P03	P04	P05	P06	P07	P08	P09	PS01	PS02	PS03	PS04	
1.	Advanced Microeconomics	P20EC101	H	M	M	M	M	M	M	M	M	H	H	H	M	H
2.	Statistical Methods for Research	P20EC102	H	H	H	H	H	M	M	L	H	H	H	M	H	
3.	Indian Economic Development	P20EC103	H	H	M	H	M	M	H	L	H	H	H	M	H	
4.	Public Economics	P20EC104	H	H	M	M	H	M	H	M	H	H	H	H	H	
5.	Advanced Macroeconomics	P20EC205	H	H	H	H	M	M	M	M	H	H	H	M	H	
6.	Mathematical Methods for Economic Analysis	P20EC206	H	H	H	H	M	M	M	M	H	H	M	M	H	
7.	Economics of Growth and Development	P20EC207	H	H	H	M	M	M	M	M	H	H	H	M	H	
8.	International Economics	P20EC308	H	H	M	M	M	M	M	M	H	H	H	M	H	
9.	Econometrics	P20EC309	H	M	H	H	H	H	M	L	H	H	M	M	H	
10.	Research Methodology in Economics	P20EC310	H	M	H	H	M	M	M	M	H	H	H	M	H	
11.	Social Economics	P20EC311	H	H	L	L	M	M	M	M	H	M	H	M	H	
12.	Agricultural Economics	P20EC412	H	H	L	L	M	M	L	M	H	H	M	M	H	
13.	Environmental Economics	P20EC413	H	H	L	L	M	H	M	M	H	M	H	M	H	
14.	Industrial Economics	P20EC414	H	M	L	M	L	M	M	M	H	H	H	M	H	

**SEM-I**  
**CODE: P18EC101**

**HOURS PER WEEK: 15**  
**CREDITS: 4**

## **CORE-I: ADVANCED MICRO ECONOMICS**

### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To recall the utility theories	K1	I
2	To explain Laws of production and production function	K2	II
3	To analyse different types of cost and revenue	K4	III
4	To identify various market structures	K3	IV
5	To compare old and new welfare ideas	K5	V
6	To formulate Pareto optimality criterion	K6	V

**Unit I : Utility analysis :** Utility Theory – Cardinal and Ordinal approach – Indifference curve analysis and its applications – Revealed preference theory – Hicks Revised demand theory – Newmann Margenstern (MN Index) theory of measuring utility – Friedman – Savage Hypothesis.

### **Unit II**

**Production Analysis :** Laws of production – Laws of Returns to Scale – Law of Variable proportion – Elasticity of Substitution – Economies of Scale – Producer’s Equilibrium – Production function – Cobb – Douglas & CES production function – Technical Progress – Embodied and Disembodied Technical Progress.

**Unit III: Cost and Revenue Analysis :** Types of costs – Short run and long run costs – Cost – Output relations - Concepts of revenue – relationship between AR and MR curves.

**Unit IV: Theory of product pricing :** Oligopoly – features – Kinked demand curve – Non-collusive Oligopoly – Duopoly models – Cournot’s and Bertrand’s models – Cartels – Joint profit maximizing Cartels – Market sharing Cartels price Leadership.

**Unit V: Welfare Economics :** Concept of old and New welfare ideas – Marshall and Pigou – Pareto Optimality – New Welfare economics – Kaldor – Hicks – Scitovsky Compensating criterion – Bergson and Samuelson’s Social Welfare function – Arrow’s theory of Social Choice.

### Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	Estimate the production function of a firm in your area -	<a href="https://www.economicdiscussion.net/production-function/production-function-meaning-definitions-and-features/6892">https://www.economicdiscussion.net/production-function/production-function-meaning-definitions-and-features/6892</a>
2	Identify an oligopolistic firm and determine the price level -	<a href="https://corporatefinanceinstitute.com/resources/knowledge/economics/oligopolistic-market-oligopoly/">https://corporatefinanceinstitute.com/resources/knowledge/economics/oligopolistic-market-oligopoly/</a>
3	Study the recent welfare economic theories	<a href="https://www.investopedia.com/terms/w/welfare_economics.asp">https://www.investopedia.com/terms/w/welfare_economics.asp</a>

### TEXT BOOKS:

- Jhingan M.L. : Advanced Economic Theory, 11/e, Vrinda Publications, New Delhi, 2003.
- Diwivedi D.N. Micro Economics Theory and Applications, Pearson Education, New Delhi, 2003.
- Ahuja, K.L. Advanced Economic Theory, 3/e, Revised and Enlarged Edition, World Press, New Delhi, 1995.

### REFERENCES:

- Dominick Salvatore – Micro Economics: Theory and Application, 4<sup>th</sup> Edition, Oxford University Press, New York, 2003.
- Henderson JV & Poole W: Principles of Economics, D.C. Heath & Company, Lexington, 1991.
- Roberts S Pindyek, Daniel L Rubinfeld & Prem L Mehta – Micro Economics, 6<sup>th</sup> Edition, Pearson Prentice Hall, New Delhi, 2007.
- Jhingan M.L.: Advanced Economic Theory, 11/e, Vrinda Publications, New Delhi, 2003.
- Ahuja, K.L. Advanced Economic Theory, 3/e, Revised and Enlarged Edition, World Press, New Delhi, 1995.

### LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	<b>1.1</b> Utility Theory – Cardinal and Ordinal approach – Indifference curve analysis and its applications – Revealed preference theory –	<b>Recall</b> the utility theories.	K1

	<b>1.2</b> Hicks Revised demand theory – Newmann Margenstern (MN Index) theory of measuring utility – Friedman – Savage Hypothesis.	<b>Illustrate</b> the revised demand theory.	K2
<b>Unit 2</b>			
	<b>2.1</b> Laws of production – Laws of Returns to Scale – Law of Variable proportion – Elasticity of Substitution – Economies of Scale – Producer’s Equilibrium.	<b>Examine</b> the laws of production.	K4
	<b>2.2</b> Production function – Cobb – Douglas & CES production function – Technical Progress – Embodied and Disembodied Technical Progress.	<b>Construct</b> the production function	K3
<b>Unit 3</b>			
	<b>3.1</b> Types of costs – Short run and long run costs – Cost – Output relations.	<b>Classify</b> the different types of costs.	K4
	<b>3.2</b> Concepts of revenue – relationship between AR and MR curves	<b>Evaluate</b> the concepts of revenue.	K5
<b>Unit 4</b>			
	<b>4.1</b> Oligopoly – features – Kinked demand curve – Non-collusive Oligopoly – Duopoly models - Cournot’s and Bertrand’s models – Cartels – Joint profit maximizing Cartels – Market sharing Cartels price Leadership.	<b>Justify</b> the theory of product pricing	K5
<b>Unit 5</b>			
	<b>5.1</b> Concept of old and New welfare ideas – Marshall and Pigou – Pareto Optimality – New Welfare economics – Kaldor – Hicks – Scitovsky Compensating criterion.	<b>Distinguish</b> between old and New welfare ideas.	K4
	<b>5.2</b> Bergson and Samuelson’s Social Welfare function – Arrow’s theory of Social Choice.	<b>Discuss</b> the social welfare function.	K6



### Mapping Scheme for the PO, PSOs and COs

Mapping	L-Low			M-Moderate			H- High				PSO 1			PSO 2			PSO 3			PSO 4		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4	PSO 1	PSO 2	PSO 3	PSO 4	PSO 1	PSO 2	PSO 3	PSO 4	
CO1	H	H	L	H	M	M	L	M	H	H	H	M	H	H	M	M	H	H	M	M	H	H
CO2	H	M	M	M	H	H	M	M	H	H	M	M	H	H	M	M	H	H	M	M	H	H
CO3	H	M	M	M	H	H	M	L	H	M	H	M	H	M	H	M	H	M	M	H	M	H
CO4	H	H	H	M	M	M	M	M	H	H	H	M	M	H	M	M	H	H	M	M	H	H
CO5	H	M	H	M	M	M	L	H	H	H	M	H	H	H	M	H	H	M	M	H	M	H
CO6	H	M	M	M	L	M	M	L	H	H	H	M	H	H	M	M	H	H	M	M	H	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Dr.E.Thelma

## CORE-II: STATISTICAL METHODS FOR RESEARCH

**SEM-I**  
**CODE: P18EC102**

**HOURS PER WEEKS: 15**  
**CREDITS: 4**

### COURSE OUTCOMES:

At the end of this course, the students will be able

S.No.	Course Outcomes	Level	Unit
1	To recall the basic concepts of statistical tools.	K1	I
2	To classify various methods of data collection.	K2	II
3	To construct hypothesis for research problem.	K3	III
4	To test for the sampling techniques in research.	K4	III
5	To estimate index numbers and time series data.	K5	IV
6	To test correlation to find the relationship between the variables.	K6	V

### Unit I

**Methods of Central Tendency & Dispersion:** Methods of collection and presentation of data – Measures of central tendency - Mean, Median and Mode – Measures of Dispersion – Range, Inter-quartile Range (IQR), Quartile Deviation, Standard deviation and coefficient of variation – Lorenz curve.

### Unit II

**Probability Distribution:** Elementary probability Theory – Addition and Multiplication Theorems of Probability - Concepts – Simple Problems - Binomial, Normal and Poisson distributions – its properties – Methods of Sampling – Random and Non-random sampling methods – Size of sample - Standard error.

### Unit III

**Formulation and Testing of Hypothesis:** Hypothesis Testing – Procedure of Testing Hypothesis – Null Hypothesis and Alternative Hypothesis – Two types of Errors in Testing of Hypothesis – Two-tailed and One-tailed tests of Hypothesis - ‘Z, F and chi-square tests’ and ‘t’ test (Student’s t- Distribution) – Testing Correlation Coefficients and Regressions coefficients.

### Unit IV

**Index Numbers & Time Series Analysis:** Introduction – Uses – Problems and Methods of constructing Index Numbers – Laspeyre’s, Paasche’s, Bowley’s, Fisher’s and Ideal Method - Marshall-Edgeworth Methods - Time Series

Analysis –Components of Time Series – Measurement of Trend by the method of Least Squares.

### Unit V

**Correlation & Regression:** Introduction – Types of Correlation – Methods of studying Correlation – Direct Method, Actual mean and Assumed mean Method –Regression – uses – Difference between Correlation and Regression Analysis – Regression equations of X on Y and Y on X.

### Unit VI: Topics for Self-Study:

S. No	Topic	Web link
1	Present official statistical system in India	<a href="https://www.mygov.in/48months/articles/a-revamped-statistical-system-tool-for-good-governance/index.html#:~:text=To%20oversee%20the%20entire%20gamut,and%20the%20States%20%2F%20Union%20Territories.">https://www.mygov.in/48months/articles/a-revamped-statistical-system-tool-for-good-governance/index.html#:~:text=To%20oversee%20the%20entire%20gamut,and%20the%20States%20%2F%20Union%20Territories.</a>
2	Census of Population	<a href="https://www.census2011.co.in/">https://www.census2011.co.in/</a>
3	Agencies responsible for the data collection	<a href="http://mospi.nic.in/142-present-indian-statistical-system-organisation#:~:text=The%20Central%20Statistical%20Organisation%20(CSO,the%20Government%20of%20India%20and">http://mospi.nic.in/142-present-indian-statistical-system-organisation#:~:text=The%20Central%20Statistical%20Organisation%20(CSO,the%20Government%20of%20India%20and</a>
4	CSO	<a href="http://mospi.nic.in/central-statistics-office-cso-1">http://mospi.nic.in/central-statistics-office-cso-1</a>
5	NSSO	<a href="http://mospi.nic.in/nssso">http://mospi.nic.in/nssso</a>

### Text Books:

1. Gupta S.P., Statistical Methods, Sultan Chand & Sons, Educational publishers, New Delhi, 2008 (36<sup>th</sup> revised edition) (Unit – I, III, IV)
2. Pillai R.S.N. & Bagavathi, Statistics, S. Chand & Company Ltd., New Delhi, 2008, (7<sup>th</sup> revised edition) (Unit – II & V)

### References:

1. James T. McClave, P. George Benson and Terry T Sincich, Statistics for Business and Economics. 13<sup>th</sup> edition., Pearson Publication, New Delhi, 2009
2. Robert S. Witte and John S. Witte, Statistics, 11<sup>th</sup> edition, 2002, Wiley publications, New Delhi

## LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	1.1 Methods of collection and presentation of data.	<b>Identify</b> the research problem with the help of data collection.	K3
	1.2 Measures of central tendency - Mean, Median and Mode – Measures of Dispersion – Range, Inter-quartile Range (IQR), Quartile Deviation, Standard deviation and coefficient of variation – Lorenz curve.	<b>Classify</b> the various measures of central tendency.	K2
		<b>Estimate</b> the Lorenz curve with the help of measures of dispersion.	K5
<b>Unit 2</b>			
	2.1 Elementary probability Theory – Addition and Multiplication Theorems of Probability - Concepts – Simple Problems.	<b>Spell out</b> the concepts in probability.	K1
		<b>Label</b> simple problems in probability.	K1
	2.2 Binomial, Normal and Poisson distributions – its properties.	<b>Discuss</b> the various theory of distribution.	K6
	2.3 Methods of Sampling – Random and Non-random sampling methods – Size of sample - Standard error.	<b>Construct</b> the sampling method for data collection.	K3
<b>Unit 3</b>			
	3.1 Hypothesis Testing – Procedure of Testing Hypothesis – Null Hypothesis and Alternative Hypothesis – Two types of Errors in Testing of Hypothesis – Two-tailed and One-tailed tests of Hypothesis.	<b>Test</b> the hypothesis to relate the research problem.	K6
		<b>Plan</b> to reduce the errors while testing the hypothesis.	K6
	3.2 'Z, F and chi-square tests' and 't' test (Student's t- Distribution) – Testing Correlation Coefficients and Regressions coefficients.	<b>Analyse</b> the testing of hypothesis.	K4
		<b>Estimate</b> the coefficients of correlation and regression.	K5
<b>Unit 4</b>			
	4.1 Index Numbers - Introduction – Uses – Problems and Methods of	<b>Importance</b> of index numbers in economics.	K5

	constructing Index Numbers – Laspeyre’s, Paasche’s, Bowley’s, Fisher’s and Ideal Method - Marshall-Edgeworth Methods.	<b>Experiment with</b> the exact method of index numbers to find the solution to the problem.	K3
	4.2 Time Series Analysis – Components of Time Series – Measurement of Trend by the method of Least Squares.	<b>Construct</b> the trend with the help of least squares.	K3
<b>Unit 5</b>			
	5.1 Introduction – Types of Correlation – Methods of studying Correlation – Direct Method, Actual mean and Assumed mean Method.	<b>Define</b> correlation and the need to study the concept of correlation.	K1
		<b>List</b> various types of correlation methods.	K1
	5.2 Regression – uses – Difference between Correlation and Regression Analysis – Regression equations of X on Y and Y on X.	<b>Interpret</b> the regression equation with two variables.	K5
		<b>Distinguish</b> between regression and correlation.	K4

### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	H	H	M	M	L	M	H	H	H	M	H
CO2	H	H	H	M	H	M	M	L	H	H	H	M	H
CO3	H	H	H	H	H	M	M	L	H	H	H	M	H
CO4	H	M	H	H	H	M	M	L	H	H	H	M	H
CO5	H	H	H	H	H	M	M	L	H	H	H	H	H
CO6	H	M	H	H	H	M	M	M	H	H	H	H	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>Continuous Assessment Test I &amp; II</li> <li>Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>Course-end survey</li> </ol>

Course Coordinator: Mrs.S.Booma Devi

## CORE-III: INDIAN ECONOMIC DEVELOPMENT

**SEM-I**  
**CODE: P18EC103**

**HOURS PER WEEKS: 15**  
**CREDITS: 4**

### COURSE OUTCOMES:

At the end of this course, the students will be able

Sl. No	Course Outcomes	Level	Unit
1.	To identify the characteristics of Indian Economy.	K3	I
2.	To construct the Demographic Trends in India.	K6	II
3.	To analyze the role of agriculture in economic development.	K4	III
4.	To discuss the role of Industrialization in Indian Economy.	K6	III
5.	To explain the RBI's monetary policy.	K5	IV
6.	To evaluate FDI and FII.	K5	V

### Unit I

**Economic Development and Planning:** Approaches to Economic Development and its Measurement – Sustainable development – Role of State, Market and other Institutions – Indicators of Development – Human Development Index (HDI) – Gender development indices. Objectives and strategy of Planning in India – Achievements and Failures of Plans– first five plan to XII Five Year Plan –NITI Aayog-objectives and functions.

### Unit II

**Demography, Poverty, Inequality and Regional Development:** Demographic Features of Indian population – Rural-urban migration – Urbanization and civic amenities. Issues in Poverty and inequality. Social infrastructure – Education, health and environment, Regional imbalance – Issues and policies in financing infrastructure development.

### Unit III

**Agriculture and Industry:** Agriculture – Institutional Structure – Land Reforms – Technological change – Pricing of inputs and outputs – Terms of trade between agriculture and industry; Price policy – Agricultural Marketing and Warehousing – Issues in food security – Policies for sustainable agriculture. Industry – Policy – Growth and pattern of industrialization – Public Sector enterprises – Privatization and disinvestment – Small-scale sector – Productivity – Approaches for employment generation.

#### Unit IV

**Money, Banking Public Finance:** Review of monetary policy of RBI – Bank Rate – Market operations – Reserve ratio – Money and capital markets – SEBI. Review of Fiscal Policy of India – Revenue – Expenditure – Debt – Budgets – Tax Structure – Deficit Financing – Finance Commissions.

#### Unit V

**External Sector and Economic Reforms:** Structure and direction of foreign trade – FDI & FII in India – Progress and Rationale of internal and external reforms – Globalization of Indian Economy – W.T.O. and its impact on the different sectors of the economy – Competition Bill – Need for and issues in good governance.

#### Unit VI: Topics for Self-Study:

Sl. No.	Topics	Web Link
1.	Current scenario of Indian economic development (Agriculture and industry)	<a href="http://goidirectory.nic.in/sectors_categories.php?ct=S001">http://goidirectory.nic.in/sectors_categories.php?ct=S001</a>
2.	Social sector reforms (Education, Health and Environment)	<a href="https://dipp.gov.in/publications/annual-report">https://dipp.gov.in/publications/annual-report</a>
		<a href="https://www.education.gov.in/en/statistics-new">https://www.education.gov.in/en/statistics-new</a>
		<a href="https://services.india.gov.in/service/listing?cat_id=5&amp;ln=en">https://services.india.gov.in/service/listing?cat_id=5&amp;ln=en</a>
3.	Indian currency system and foreign trade	<a href="http://moef.gov.in/resource/annual-reports-of-the-ministry/">http://moef.gov.in/resource/annual-reports-of-the-ministry/</a> <a href="https://www.rbi.org.in/Scripts/PublicationsView.aspx?id=14940">https://www.rbi.org.in/Scripts/PublicationsView.aspx?id=14940</a>

#### Text Books:

1. Agrawal A.N., (2009) Indian Economy-Problems of Development and Planning, WishwaPrakashan, New Delhi.
2. Dutt Ruddar, and K.P.M. Sundaram, (2006) Indian Economy, S. Chand and Company, New Delhi.

#### References

- Ahluwalia, I.J and I.M.D. Little (Eds.) (1999), India's Economic Reforms and Development. (Essays in Honour of Manmohan Singh), Oxford University Press, ND.
- Bardhan P.K., (1999), The Political Economy of Development in India, Oxford University Press, ND.

- Brahmananda, P.R. and V.A Panchmukhi (Eds) Development Experience in the Indian Economy: Inter – State Perspectives, Bookwell, Delhi.
- Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
- Sen R.K. and B. Chatterjee (2001), Indian Economy: Agenda for 21<sup>st</sup> Century (Essays in honour of Prof.P.R.Brahmananda) Deep & Deep Publications, New Delhi.

#### LEARNING OUTCOMES: BLOOM’S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	<b>1.1Economic Development and Planning:</b> Approaches to Economic Development and its Measurement – Sustainable development – Role of State, Market and other Institutions –Indicators of Development	<b>List</b> the characteristics and structural changes in Indian Economy.	K1
	1.2 Human Development Index (HDI) – Gender development indices.	<b>Construct</b> HDI and GDI	K6
	<b>1.3</b> Planning and Development Strategies – Planning Commission to NITI Aayog.	<b>Evaluate</b> the financing pattern and achievements of Indian plans	K5
<b>Unit 2</b>			
	<b>2.1Demography, Poverty, Inequality and Regional Development:</b> Demographic Features of Indian population – Rural-urban migration – Urbanization and civic amenities,	<b>Classify</b> the demographic features of Indian population.	K4
	<b>2.2</b> Issues in poverty and inequality. Social infrastructure - Education, health and environment, Regional imbalance – Issues and policies in financing infrastructure development.	<b>Discuss</b> the problems of unemployment, poverty and social inequality.	K6
<b>Unit 3</b>			
	<b>3.1Agriculture and Industry:</b> Agriculture – Institutional	<b>Analyze</b> the role of agriculture in economic development	K4



	Structure - Land Reforms – Technological change – Pricing of inputs and outputs – Terms of trade between agriculture and industry		
	<b>3.2</b> Price policy – Agriculture Marketing and Warehousing – Issues in food security – Policies for sustainable agriculture.	<b>Discuss</b> the agricultural marketing, warehousing and food security	K6
	<b>3.3</b> Industry – policy – Growth and pattern of industrialization – Public sector enterprises – Privatization and disinvestment – Small-scale sector – Productivity – Approaches for employment generation.	<b>Examine</b> the role of industries in developmental process.	K4
<b>Unit 4</b>			
	<b>4.1 Money, Banking and Public Finance:</b> Review of monetary policy of RBI – Bank Rate – Market operations – Reserve ratio – Money and capital markets – SEBI.	<b>Explain</b> the monetary policy of RBI	K5
	<b>4.2</b> Review of Fiscal Policy of India – Revenue – Expenditure – Debt – Budgets – Tax Structure – Deficit Financing – Finance Commissions.	<b>Assess</b> the fiscal policy of India	K5
<b>Unit 5</b>			
	<b>5.1 External Sector and Economic Reforms:</b> Structure and direction of foreign trade – FDI & FII in India – Progress and Rationale of internal and external reforms.	<b>Measure</b> the growth, volume and direction of India’s foreign trade.	K5
	<b>5.2</b> Globalization of Indian Economy – W.T.O. and its impact on the different sectors of the economy – Competition Bill – Need for and issues in good governance.	<b>Elaborate</b> WTO and its impact on the different sectors of the economy	K6

### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	M	H	H	H	H	M	H	H	H	M	H
CO2	H	H	H	H	M	M	L	L	H	H	H	M	H
CO3	H	H	M	M	M	L	M	L	H	H	H	M	H
CO4	H	H	M	M	M	L	M	L	H	H	H	M	H
CO5	H	H	M	H	M	M	H	M	H	H	H	H	H
CO6	H	M	M	M	M	M	H	M	H	H	H	M	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Dr.B.Neppolian

**SEM-I**  
**CODE: P18EC104**

**HOURS PER WEEKS: 6**  
**CREDITS: 4**

## **CORE IV: PUBLIC ECONOMICS**

### **COURSE OUTCOMES:**

On completion of the course the learner will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To identify the fiscal functions	K3	I
2	To assess the expenditure of the government	K5	II
3	To explain the theories of public revenue	K2	III
4	To examine the different theories of public debt	K4	IV
5	To analyse the problems of repayment of public debt	K4	IV
6	To discuss the role of fiscal policy in developing countries	K6	V

### **Unit I**

**Role of State:** Major fiscal functions – Allocation function – Distribution function – Stabilization function – Theory of Public goods – Provision of Private goods – Public goods – Merit and mixed goods – Market failure.

### **Unit II**

**Public Expenditure:** Structure and Growth – size of Public expenditure – causes of Public expenditure growth – views of Public Expenditure – Adolph Wagner, Peacock, Wiseman, Colin Clark Theories – Samuelson Theory under General Equilibrium – Evaluation of Public Expenditure – Estimation – Analysis of cost – Benefits – Effects of Public expenditure – Principle of Maximum Social Advantage by Musgrave and Dalton.

### **Unit III**

**Public Revenue:** Theories of taxation – cost of service theory – Benefit theory (Lindahl's and Bowen's models) – Ability to Pay theory – Taxable capacity – Effects of taxation – Shifting of incidence of taxation – Modern theory – Forward and Backward Shifting – composition of Indian Tax Structure – Income tax – Corporation tax – Property tax – Indirect taxes – VAT-GST and its impact.

#### Unit IV

**Public Debt:** Theories of public debt – Role of Public debt in a developing country – Methods of borrowings of Debt – Problems of repayment – Debt Management – Deficit financing.

#### Unit V

**Fiscal Policy and Fiscal Federalism:** Objectives of fiscal policy – Role of fiscal policy in developing countries – Supply side fiscal policy – Interdependence of fiscal and monetary policies – Types of Budget-performance of Budget – Zero Base Budget – Principles of fiscal federalism – Finance commissions – Centre – State financial relations in India – Local Finance in India.

#### Unit VI: Topics for Self-Study:

S. No	Topic	Web link
1	Budget	<a href="https://www.mymoneycoach.ca/budgeting/what-is-a-budget-planning-forecasting#:~:text=Budgeting%20is%20the%20process%20of,your%20expenses%20with%20your%20income.">https://www.mymoneycoach.ca/budgeting/what-is-a-budget-planning-forecasting#:~:text=Budgeting%20is%20the%20process%20of,your%20expenses%20with%20your%20income.</a>
2	Current Budget of the State Government	<a href="http://www.tnbudget.tn.gov.in/tnweb_files/budget%20highlights/2019-20/BS%202019-20%20English-highlights.pdf">http://www.tnbudget.tn.gov.in/tnweb_files/budget%20highlights/2019-20/BS%202019-20%20English-highlights.pdf</a>
3	Current Budget of the Central Government	<a href="https://pib.gov.in/newsite/PrintRelease.aspx?relid=197836">https://pib.gov.in/newsite/PrintRelease.aspx?relid=197836</a>
4	Recent finance commission	<a href="https://www.prsindia.org/theprsblog/recommendations-15th-finance-commission-2020-21">https://www.prsindia.org/theprsblog/recommendations-15th-finance-commission-2020-21</a>
5	Price stabilization policy	<a href="https://www.britannica.com/topic/government-economic-policy/Stabilization-theory">https://www.britannica.com/topic/government-economic-policy/Stabilization-theory</a>

#### Text Book:

- S.K.Singh, Public Finance in Theory and Practice, S.Chand and Co., New Delhi, 2004

#### References

- Ursula K. Hicks, Public Finance, James Nishet and Company Ltd.
- Musgrave R.A., The Theory of Public Finance, McGraw Hill, Tokyo.
- M.C.Vaish and H.S.Agarwal, Public Finance, Wiley Eastern Ltd.
- Richard A. Musgrave and Peggy B.Musgrave, Public Finance – Theory and Practice.
- David A Starlet, Foundation of Public Economics, Cambridge University Press, New York, 1989.

**LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS**

<b>Unit</b>	<b>Course Contents</b>	<b>Learning Outcomes</b>	<b>Blooms Taxonomic Highest Level of Transaction</b>
<b>Unit 1</b>			
	1.1 <b>Role of State:</b> Major fiscal functions – Allocation function - Distribution function – Stabilization function	<b>List</b> the different fiscal functions	K1
	1.2 Theory of Public goods – Provision of Private goods – Public goods – Merit and mixed goods – Market failure.	<b>Classify</b> the public goods, private goods, merit and mixed goods.	K4
<b>Unit 2</b>			
	2.1 <b>Public Expenditure:</b> Structure and Growth – size of Public expenditure – causes of Public expenditure growth	<b>Discuss</b> the growth, structure and causes of public expenditure	K6
	2.2 <b>Views of Public Expenditure</b> – Adolph Wagner, Peacock, Wiseman, Colin Clark Theories – Samuelson Theory under General Equilibrium	<b>Analyse</b> the various theories of public expenditure	K4
	2.3 Evaluation of Public Expenditure – Estimation	<b>Evaluate</b> the public expenditure	K5
	2.4 Analysis of cost – Benefits – Effects of Public expenditure	<b>Explain</b> the Cost-Benefit analysis and effects of public expenditure.	K5
	2.5 Principle of Maximum Social Advantage by Musgrave and Dalton.	<b>Elaborate</b> the Musgrave and Dalton's Maximum Social advantage theory	K6
<b>Unit 3</b>			
	3.1 <b>Public Revenue:</b> Theories of taxation – cost of service theory – Benefit theory (Lindahl's and Bowen's models) – Ability to Pay theory	<b>Discuss</b> the theories of taxation.	K6
	3.2 <b>Taxable capacity</b> – Effects of taxation – Shifting of incidence of taxation	<b>Analyse</b> the Effects shifting and incidence of taxation	K4
	3.3 <b>Modern theory</b> – Forward and Backward Shifting	<b>Criticize</b> the Modern theory of taxation	K5

	3.4 <b>Composition of Indian Tax Structure</b> – Income tax – Corporation tax – Property tax – Indirect taxes – VAT-GST and its impact.	<b>Identify</b> the Indian tax structure and its Impacts.	K3
<b>Unit 4</b>			
	4.1 <b>Public Debt:</b> Theories of public debt – Role of Public debt in a developing country	<b>Assess</b> the theories of public debt and its role in developing countries	K5
	4.2 Methods of borrowings of Debt	<b>Discuss</b> the methods of borrowing of Debt	K6
	4.3 Problems of repayment – Debt Management – Deficit financing.	<b>Outline</b> the problems of repayment of debt, management of deficit financing	K2
<b>Unit 5</b>			
	5.1 <b>Fiscal Policy and Fiscal Federalism:</b> Objectives of fiscal policy – Role of fiscal policy in developing countries	<b>Examine</b> the objectives and role of fiscal policy in developing countries	K4
	5.2 Supply side fiscal policy – Interdependence of fiscal and monetary policies	<b>Evaluate</b> the supply side of fiscal policies and monetary policies	K5
	5.3 Budget- Types of Budget- performance of Budget – Zero Base Budget	<b>Discuss</b> the Budget and its types.	K6
	5.4 Principles of fiscal federalism	<b>Explain</b> the principles of fiscal federalism	K5
	5.5 Finance commissions – Centre – State financial relations in India – Local Finance in India.	<b>Appraise</b> the finance commission, relations of central, state, and local finance in India	K5

### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	M	M	M	M	H	H	M	H	H	H	H	H
CO2	H	H	M	M	H	M	H	M	H	H	H	H	H
CO3	H	H	M	M	M	M	H	M	H	H	H	M	H
CO4	H	H	M	M	H	M	M	M	H	H	H	H	H
CO5	H	H	H	M	M	M	M	M	H	H	M	M	H
CO6	H	H	M	H	H	M	M	H	H	H	H	H	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp;II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Dr.H.Esther Rani & Dr.S.Seethalakshmi

**SEM-I**  
**CODE: P18EC1:1**

**HOURS PER WEEKS: 6**  
**CREDITS: 4**

### **Elective I: MONETARY ECONOMICS**

#### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To analyze the theories of money.	K4	I
2	To explain the demand for and supply of money	K2	II
3	To identify the various theories of money and interest	K3	III
4	To compare inflation and deflation	K5	IV
5	To justify credit creation of commercial bank	K5	V
6	To discuss the banking system and monetary policy in India	K6	V

#### **Unit I**

**Theories of Money :** Value of Money – Quantity Theory: Fisher’s and Cambridge Approach – Reformulated Quantity Theory – Keynes – Patinkin’s Integration Theory – Restatement of the Quantity Theory – Friedman – Liquidity Approach: Radcliffe-Sayers, Gurley-Shaw Thesis.

#### **Unit II**

**Demand for and Supply of Money:** Supply of Money – Measurement ( $M_1$ ,  $M_2$ ,  $M_3$  and  $M_4$ ) – High Powered Money – Money Multiplier – Demand for Money – Pre-Keyensian Approach – Keyensian Approach – Post-Keyensian Approach – Baumol’s Inventory Approach and Tobin’s Portfolio Approach.

#### **Unit III**

**Money and Interest:** Money and Interest – Money Supply – Demand for Money, Income and Interest – Classical Theory – Loanable Funds Theory – Wicksell’s Theory – Keynesian Theory – Modern Theory – Term Structure of Interest Rates – Segmented Markets Theory – Expectations Theory.

#### **Unit IV**

**Inflation and Deflation :** Inflation – Demand Pull Theory: Inflationary Gap and Excess Demand – Cost Push Theory – Wage Push, Mark-up Pricing and Profit Push – Deflation – Concepts – Stagflation – Sectoral Demand Shift Theory – Effects and Control of Inflation – Phillips Curve.



## Unit V

**Banking and Monetary Policy:** Banking – Credit Creation by Commercial Banks – NPA – Role of Central Banks – Monetary Policy – Credit Control – Instruments and Methods – Monetary Committee – Lags in Monetary Policy – Monetary Policy in an Open Economy.

## Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	Evaluation of current monetary policy in India	<a href="https://www.rbi.org.in/scripts/FS_Overview.aspx?fn=2752">https://www.rbi.org.in/scripts/FS_Overview.aspx?fn=2752</a>
2	Asses the working of RBI	<a href="https://rbidocs.rbi.org.in/rdocs/Content/PDFs/FUNCWWE080910.pdf">https://rbidocs.rbi.org.in/rdocs/Content/PDFs/FUNCWWE080910.pdf</a>
3	Current inflation rate	<a href="https://www.statista.com/statistics/271322/inflation-rate-in-india/">https://www.statista.com/statistics/271322/inflation-rate-in-india/</a>
4	Measurement of supply of money.	<a href="https://www.rbi.org.in/Scripts/Data_MSupply.aspx">https://www.rbi.org.in/Scripts/Data_MSupply.aspx</a>

## Text Books:

1. Sundaram K.P.M., Money Banking and International Trade, 39<sup>th</sup> edition, Sultan & Sons Publications, 2010. (Unit V)
2. Jhingan M.L, Monetary Economics, 5<sup>th</sup> edition, Virnda Publication, New Delhi, 2002.(Unit I, II, III & IV)

## References

- Kindleberger, P.Charles (1985) Keynesianism vs Monetarism and Other Essays in Financial History, Heritage Publishers, New Delhi.
- Harris L. (1985), Monetary Theory, McGraw Hill, New York.
- Mankiw N. Gregory (2007), Macroeconomics, Worth Publishers, New York.
- Misra S.S. (1981), Money, Inflation and Economics Growth, Oxford and IBH Published Co., New Delhi.
- Suraj b. Gupta, Monetary Economics, Institutions, Theory and Policy, S.Chand and Co., Rana K.C. and K.N.Verma(2007) Macro Economic Analysis, Vishal Publishers, New Delhi.

## LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	<b>1.1 Theories of Money:</b> Value of Money – Quantity Theory: Fisher's and Cambridge Approach – Reformulated Quantity Theory.	<b>Define</b> the concept and importance of monetary economics.	K1
		<b>Relationship</b> between the Fisher's, Cambridge and Reformulated quantity theories.	K4
	<b>1.2 Keynes -Patinkin's Integration Theory – Restatement of the Quantity Theory – Friedman.</b>	<b>Inspect</b> the Keynes, Patinkin's, integration theory and Friedman theory.	K4
	<b>1.3 Liquidity Approach: Radcliffe-Sayers, Gurley-Shaw Thesis.</b>	<b>Evaluate</b> the Radcliffe-sayers and Gurley Shaw thesis.	K5
<b>Unit 2</b>			
	<b>2.1 Demand for and Supply of Money: Supply of Money – Measurement (M<sub>1</sub>, M<sub>2</sub>, M<sub>3</sub> and M<sub>4</sub>) – High Powered Money – Money Multiplier</b>	<b>Explain</b> the concept of demand for and supply of money.	K2
	<b>2.2 Demand for Money – Pre-Keynesian Approach – Keynesian Approach – Post-Keynesian Approach</b>	<b>Analyse</b> the pre-Keynesian and post Keynesian approaches to demand for money.	K4
	<b>2.3 Baumol's Inventory Approach and Tobin's Portfolio Approach.</b>	<b>Compare</b> the Baumol's inventory approach and Tobin's portfolio approach.	K5
<b>Unit 3</b>			
	<b>3.1 Money and Interest: Money and Interest – Money</b>	<b>Tell</b> the concept of money supply and the demand for money	K1

	Supply – Demand for Money, Income and Interest		
	<b>3.2</b> Classical Theory – Loanable Funds Theory – Wicksell’s Theory – Keynesian Theory – Modern Theory	<b>Apply</b> the loanable funds theory and Wicksells theory of interest.	K3
	<b>3.3</b> Term Structure of Interest Rates – Segmented Markets Theory – Expectations Theory.	<b>Categorise</b> the structure of interest rates and segmented markets theory.	K4
		<b>Analyse</b> the expectation theory influenced the interest rates.	
<b>Unit 4</b>			
	<b>4.1 Inflation and Deflation :</b> Inflation – Demand Pull Theory: Inflationary Gap and Excess Demand – Cost Push Theory – Wage Push, Mark-up Pricing and Profit Push – Effects and Control of Inflation – Phillips Curve.	<b>Discuss</b> the theory of inflation, effects and control of inflation.	K6
		<b>Elaborate</b> the inflationary gap and Phillips curve.	
	<b>4.2</b> Deflation – Concepts – Stagflation- Sectoral Demand Shift Theory	<b>Identify</b> the concepts of deflation, stagflation and sectoral demand shift theory.	K3
<b>Unit 5</b>			
	<b>5.1 Banking and Monetary Policy</b> Banking – Credit Creation by Commercial Banks – NPA – Role of Central Banks	<b>Analyse</b> the concept of banking, credit creation by commercial banks and role of central banks to growth the economy.	K4
		<b>Appraise</b> the problems of Non-Performing Assets.	K5
	<b>5.2</b> Monetary Policy – Credit Control – Instruments and Methods	<b>Demonstrate</b> the concept of monetary policy and credit control.	K2

	5.3 Monetary Committee – Lags in Monetary Policy – Monetary Policy in an Open Economy.	Evaluate the monetary committee in India.	K5
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**Mapping Scheme for the PO, PSOs and COs**

**L-Low**

**M-Moderate**

**H- High**

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	H	M	M	M	M	H	M	H	H	H	M	H
CO2	H	H	M	M	H	M	H	M	H	H	H	H	H
CO3	H	H	M	M	M	M	M	L	H	H	M	M	H
CO4	H	H	H	H	M	M	M	M	H	H	H	H	H
CO5	H	H	M	M	H	M	H	M	H	H	H	H	H
CO6	H	H	H	H	M	M	M	H	H	H	H	H	H

**COURSE ASSESSMENT METHODS**

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

**Course Coordinator: Dr.D.Ranjith Kumar**

**SEM-II**  
**CODE: P18EC205**

**HOURS PER WEEKS: 6**  
**CREDITS: 5**

## **CORE V: ADVANCED MACRO ECONOMICS**

### **Objectives COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To recall the concepts of Macro Economics	K1	I
2	To analyze the National income and Problems	K4	I
3	To examine the consumption and investment theories	K4	II
4	To construct the IS-LM model	K6	III
5	To evaluate the theories of business cycle	K5	IV
6	To discuss the neo classical macroeconomic policy	K6	V

### **Unit I**

**Macro Economics, Scope and Dynamics:** Macro Economics – Definition – Circular flow of Income – Two – Three – Four Sector Model – National Income – Measurement – Problems – Accounting – Social Accounting.

### **Unit II**

**Consumption & Investment Functions :** Keynes Psychological Law of Consumption - Absolute Income – Relative income – Permanent Income Hypothesis – Life cycle Hypothesis – Marginal Efficiency of Capital and Investment – Investment Multiplier – Accelerator – Super Multiplier.

### **Unit III**

**General Equilibrium:** Classical Theory and Long-run Equilibrium – Keynesian Theory and Short-run Equilibrium – Aggregate Supply and Aggregate Demand – IS-LM Model.

### **Unit IV**

**Business Cycle:** Business Cycles – Theories of Schumpeter – Keynes – Kaldor – Samuelson – Hicks – Inflation – Unemployment and Modified Phillips Curve.

## Unit V

**New Classical Macro Economic Policy:** Genesis – Monetarism – Supply side economics – Rational Expectation Hypothesis, Macro Economic Policy – Objectives – Features – Functions – Mundell-Flemming Model – Fiscal – Monetary and Trade Policy Effects.

## Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	Business cycle in India	<a href="http://aaofifi.com/media/document/work146.pdf">http://aaofifi.com/media/document/work146.pdf</a>
2	macroeconomic policy and economic development	<a href="http://www.iegindia.org/dpc/Macroeconomics-Analysis-and-Policy">http://www.iegindia.org/dpc/Macroeconomics-Analysis-and-Policy</a>
3	National income in India	<a href="https://pib.gov.in/Pressreleaseshare.aspx?PRID=1598643">https://pib.gov.in/Pressreleaseshare.aspx?PRID=1598643</a>
4	Employment status in India	<a href="https://www.ibef.org/economy/indian-economy-overview">https://www.ibef.org/economy/indian-economy-overview</a>

## Text Books:

1. H.L Ahuja- Macro Economic Theory and Policy, 17<sup>th</sup> Revised edition,2011, S.Chand & Company Ltd, New Delhi.(Unit I,II, III & IV)
2. Hajela T.N Macro Economic Theory, 10<sup>th</sup> Edition, Ane Book Private Ltd, New Delhi, 2009.(Unit V)

## References

- Branson W.A. (1989), Macroeconomic Theory and Policy, Harper and Row, New York.
- D'souza, Errol (2008), Macroeconomic, Person Publication, New Delhi.
- Hall R.E. and J.B. Taylor (1986), Macroeconomics, W.W.Norton, New York.
- Jha R. (1991), Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- Mankiw N. Gregory (2007), Macroeconomics, Worth Publishers, New York.
- Mcconnell C.R. and H.C.Gupta (1987), introduction to Macroeconomics, Tata-Mcgraw Hill, Delhi.
- Rana K.C. and K.N.Verma (2007), Macro Economic Analysis, Vishal Publishers, New Delhi.

## LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	1.1 Macro Economics, Scope and Dynamics: Macro Economics – Definition	<b>Recall</b> the meaning of macroeconomics and importance, nature and scope of macroeconomics.	K1
	1.2 Circular flow of Income - Two – Three – Four Sector Model	<b>Inspect</b> the circular flow of income to the two, three and four sector model.	K4
	1.3 National Income – Measurement – Problems	<b>Appraise</b> the measurement of national income	K5
		<b>Solve</b> the problems of measurement of national income.	K6
	1.4 Accounting – Social Accounting.	<b>Explain</b> the concept of social accounting	K2
<b>Unit 2</b>			
	2.1 <b>Consumption &amp; Investment Functions:</b> Keynes Psychological Law of Consumption.	<b>Apply</b> the Keynes psychological law of consumption to the people.	K3
	2.2 Absolute Income – Relative income – Permanent Income Hypothesis – Life cycle Hypothesis –	<b>Compare</b> the absolute income, permanent income theory and life cycle theories of consumption.	K4
	2.3 Marginal Efficiency of Capital and Investment – Investment Multiplier –	<b>Summarize</b> the marginal efficiency of capital.	K2
	2.4 Accelerator-Super Multiplier.	<b>Evaluate</b> accelerator and super multiplier.	K5

### Mapping Scheme for the PO, PSOs and COs

<b>Unit 3</b>			
	<b>3.1General Equilibrium:</b> Classical Theory and Long-run Equilibrium	<b>Criticize</b> the classical theory.	K5
	<b>3.2Keynesian Theory and Short-run Equilibrium</b>	<b>Inspect</b> the Keynesian theory.	K4
	<b>3.3Aggregate Supply and Aggregate Demand</b>	<b>Explain</b> the concept of aggregate supply and aggregate demand.	K5
	<b>3.4IS-LM Model.</b>	<b>Construct</b> IS-LM model.	K6
<b>Unit 4</b>			
	<b>4.1Business Cycle:</b> Business Cycles	<b>Translate</b> the concept of business cycles and stages of business cycles.	K2
	<b>4.2Theories of Schumpeter – Keynes – Kaldor – Samuelson – Hicks</b>	<b>Analyze</b> the various theories of business cycle.	K4
	<b>4.3Inflation, Unemployment and Modified Phillip’s Curve.</b>	<b>Explain</b> the concept of inflation and Phillip’s curve	K5
<b>Unit 5</b>			
	<b>5.1New Classical Macro Economic Policy:</b> Genesis – Monetarism – Supply side economics – Rational Expectation Hypothesis, – Fiscal	<b>Elaborate</b> the concept of Monetarism and supply side economics.	K6
	<b>5.2Macro Economic Policy – Objectives – Features – Functions.</b>	<b>Assess</b> the objectives and functions of macroeconomic policy.	K5
	<b>5.3Mundell-Flemming Model</b>	<b>Appraise the</b> Mundell- flemming model.	K5
	<b>5.4Fiscal-Monetary and Trade Policy Effects.</b>	<b>Outline</b> the fiscal, monetary and trade policy.	K2

**L-Low**

**M-Moderate**

**H- High**



Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	H	M	H	H	M	M	M	H	H	H	H	H
CO2	H	H	H	H	M	M	M	M	H	H	H	H	H
CO3	H	H	H	H	M	M	M	M	H	H	M	M	H
CO4	H	H	M	H	H	M	M	M	H	H	H	M	H
CO5	H	H	H	H	M	M	M	M	H	H	H	M	H
CO6	H	M	M	H	M	M	M	M	H	H	M	M	H

#### **COURSE ASSESSMENT METHODS**

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

**Course Coordinator: Dr.D.Ranjithkumar**

## CORE VI: MATHEMATICAL METHODS FOR ECONOMIC ANALYSIS

**SEM-II**  
**CODE: P18EC206**

**HOURS PER WEEKS: 6**  
**CREDITS: 5**

### COURSE OUTCOMES:

At the end of this course, the students will be able

S.No.	Course Outcomes	Level	Unit
1	To recall the types of matrices.	K1	I
2	To explain the rules of differentiations.	K2	II
3	To make use of the concepts of integration.	K3	III
4	To apply the game theory in economics	K3	IV
5	To discover the concept of linear programming	K4	V
6	To adapt mathematical tools in Economics	K6	V

### Unit I

**Terminology, Concepts and tools** : Addition, subtraction, multiplication and division of fractions and decimals – square roots – logs – equations – linear, non-linear, simple, multiple - constants, variables, parameters, intercepts - coefficients – slopes - functions – inverse, general and specific functions – equations with two and three unknowns – applications – demand and supply functions – cost and revenue functions – consumption function – IS & LM functions – multivariable and non-linear functions – market equilibria.

### Unit II

**Differential Calculus** : Rules of differentiation – slopes – marginal values - linear and non linear functions – derivatives of higher order – point elasticity of demand – functions of more than two variables -cross partial derivatives – higher order derivatives – Young’s Theorem – constrained & unconstrained optimization – Lagrangian Multiplier – Interpretation – Use of derivatives in economics – maximization, minimization - Utility function – production function – revenue, cost and profit functions

### Unit III

**Integration** : Concept – constant of integration - simple rules of integration- methods of integration – integration by parts – definite integrals - area between two curves – properties of definite integrals – applications –

compound interest – present value – discounted value - consumer’s surplus & producer’s surplus-costs & revenues

#### Unit IV

**Matrices :** Matrices – null, square, rectangular, symmetric matrices – row, column vectors – addition, subtraction, multiplication of matrices – determinant – properties of determinants - cofactor, transpose, adjoint and inverse matrices - Fundamentals of linear algebra-matrix, conversion of equations into matrices - solving equations – Cramer’s rule- uses-Input-Output analysis – coefficient matrix – Hawkins- Simon conditions - open and closed models

#### Unit V

**Linear Programming and Game Theory :** Basic Concepts, formulation of an LP problem-feasible, basic and optimal solution – graphic method – feasible region - simplex methods – slack and surplus variables – degeneracy -- formulation of the dual of a programme and its interpretation – Applications of LP technique - Game Theory – pay-off matrix - zero-sum games and non-zero-sum games – saddle point – mixed strategy and dominated strategy

#### Unit VI: Topics for Self-Study:

S. No	Topic	Web link
1	Graphs	<a href="https://byjus.com/maths/types-of-graphs/">https://byjus.com/maths/types-of-graphs/</a>
2	elementary types of functions	<a href="https://study.com/academy/lesson/graphs-types-examples-functions.html#:~:text=Different%20types%20of%20graphs%20depend,visually%20differentiate%20from%20the%20rest.">https://study.com/academy/lesson/graphs-types-examples-functions.html#:~:text=Different%20types%20of%20graphs%20depend,visually%20differentiate%20from%20the%20rest.</a>
3	continuous functions	<a href="https://www.mathsisfun.com/calculus/continuity.html">https://www.mathsisfun.com/calculus/continuity.html</a>
4	characterizations	<a href="https://www.hindawi.com/journals/jmath/2020/6094372/">https://www.hindawi.com/journals/jmath/2020/6094372/</a>
5	properties with respect to various operations and applications	<a href="http://pressbooks-dev.oer.hawaii.edu/math111/chapter/properties-of-operations/">http://pressbooks-dev.oer.hawaii.edu/math111/chapter/properties-of-operations/</a>

#### Text Books:

1. Agarwal D.R, Quantitative Methods, 3<sup>rd</sup> ed., Virnda Publications, New Delhi, 2003. (Unit – IV & V)

2. Chiang & Kevin Wain Wright, Fundamental Methods of Mathematical Economics, 4<sup>th</sup> ed., Tata McGraw, New Delhi, 2017. (Unit – I, II & III)

### References

- Allen, R.G.D. (1974) Mathematical Analysis of Economists, Macmillan Press and ELBS, London
- Baumol, W.J. (1984) Economic Theory and Operations Analysis, Prentice Hall. Englewood Cliffs, New Jersey
- Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi
- Salvatore Dominick (1992) Mathematics for Economists, Schaum Series
- Weber (1986) Mathematical Analysis – Business and Economic Applications
- Yamane, Taro (1975) Mathematics of Economists, Prentice Hall of India, New Delhi
- Schaum’s series, Maths for Economists.

### LEARNING OUTCOMES: BLOOM’S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	1.1 Matrices- null, square, rectangular, symmetric matrices – row, column vectors – addition, subtraction, multiplication of matrices.	<b>Define</b> matrix and types of matrix	K1
		<b>List</b> various operations of matrix.	K1
	1.2 Determinant – Properties of determinants – cofactor, transpose, adjoint and inverse matrices – Fundamentals of linear algebra-matrix, conversion of equations into matrices, solving equations – Cramer’s rule – Uses – Input - Output analysis – Coefficient matrix – Hawkins Simon Conditions – Open and closed models.	<b>Estimate</b> matrix from the equations.	K5
		<b>Explain</b> the applications of matrix tools in economics.	K2
<b>Unit 2</b>			
	2.1 Rules of Differentiation – Slopes – Marginal Values – Linear and non-linear functions – derivatives of higher	<b>Examine</b> the appropriate method of differentiation in economics.	K4

	order – Point elasticity of demand – Functions of more than two variables.	<b>Estimate</b> the values of the variables in the equations with the help of differentiation.	K6
	2.2 Cross partial derivatives, Higher order derivatives – Uses of derivatives in economics – Maximization, Minimization – utility function – Production function – Revenue, cost and profit functions.	<b>Justify</b> the best method to find out how to minimize the cost and maximize the profit a firm.	K5
		<b>Choose</b> the function which helps to maximize the revenue of a firm.	K1
<b>Unit 3</b>			
	3.1 Concept – Constant of integration – Simple rules of integration – Methods of integration – Integration by parts – Definite integrals – area between two curves – Properties of definite integrals.	<b>Identify</b> the difference between differentiation and integration.	K3
		<b>Estimate</b> the area between two curves.	K6
	3.2 Applications – Consumers surplus & Producers Surplus – Costs & revenues.	<b>Solve</b> the cost and revenue of a firm with the application of integration.	K3
<b>Unit 4</b>			
	4.1 Pay-off Matrix – Zero sum games and non-zero-sum games – Saddle point – mixed strategy and Dominant strategy.	<b>Classify</b> the pattern of the game that a firm follows.	K4
		<b>Distinguish</b> between the methods of pay off games that a firm follows to maximize the profit and minimize the risk.	K4
<b>Unit 5</b>			
	5.1 Basic concepts, formulation of an LP problem – Feasible, basic and optimal solution – Graphic method – Feasible region – Simplex methods – Slack and surplus variables.	<b>Build</b> the basic concepts of the linear programming.	K3
		<b>Design</b> the feasible solution through linear programming.	K6
	5.2 Degeneracy – Formulation of the dual of a programme and its interpretation – Applications of LP technique.	<b>Make use of</b> the applications of linear programming.	K3

### Mapping Scheme for the PO, PSOs and COs

Mapping	L-Low			M-Moderate			H- High				PSO 1	PSO 2	PSO 3	PSO 4
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9					
CO1	H	M	H	H	H	M	M	M	H	H	M	M	M	
CO2	H	H	H	H	M	M	M	M	H	H	M	M	H	
CO3	H	M	H	H	M	M	M	M	H	H	M	M	M	
CO4	H	H	H	H	H	M	M	M	H	H	M	M	H	
CO5	H	H	H	H	M	M	M	M	H	H	H	M	H	
CO6	H	H	H	H	H	M	M	M	H	H	H	H	H	

#### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Mrs.S.Booma Devi

**SEM-I I**  
**CODE: P18EC207**

**WEEKS: 15**  
**CREDITS: 5**

## **CORE VII: ECONOMICS OF GROWTH & DEVELOPMENT**

### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To distinguish between Economic growth and Development	K1	I
2	To analyse the theories of poverty	K4	II
3	To identify the classical theory of development	K3	III
4	To evaluate the theory of social change	K5	III
5	To explain the various partial theories	K5	IV
6	To discuss the theories of international trade for economic growth	K6	V

### **Unit I**

**Economic Growth:** Economic growth and development – Factors affecting economic growth - Capital, Labour and Technology – Growth Models – Harrod and Domar instability of equilibrium – Neo-classical growth models – Solow and Meade, Mrs.Joan Robinson’s growth model – Cambridge criticism of Neo-classical analysis of growth.

### **Unit II**

**Social and Institutional Aspects of Development:** Development and underdevelopment – Perpetuation of underdevelopment; Poverty – Absolute and relative; Measuring development and development gap – Per capita income, inequality of income, Human development index and other indices of development and quality of life – Food security, education, health and nutrition; Human resource development; population problem and growth pattern of population – Theory of demographic transition; Population as limits to growth and as ultimate source – Population, poverty and environment.

### **Unit III**

**Theories of Development:** Classical theory of development – contributions of Adam Smith, Ricardo, Malthus and James Mill: Karl Marx and development of capitalistic economy – theory of social change, surplus value and profit; Immutable laws of capitalist development; Crisis in Capitalism – Schumpeter and capitalistic development; innovation – role of credit, profit and

degeneration of capitalism; Structural analysis of development; Imperfect market paradigm.

#### **Unit IV**

**Sectoral Aspects of Development:** Role of agriculture of economic development; Efficiency and productivity in agriculture, New technology and sustainable agriculture; Globalization and agriculture growth; Rationale and pattern of industrialization in developing countries; the choice of techniques and appropriate technology and employment; efficiency of small-scale vs large-scale production; Terms of trade between agriculture and industry; Infrastructure and its importance; labour markets and their functioning in developing countries.

#### **Unit V**

**Trade and Economic Development:** International trade as engine of growth; Static and dynamic gains from trade; Prebisch, Singer and Myrdal thesis vs free trade: Export-led growth: Dual gap analysis; Balance of payments; Tariffs and effective protection; Post-GATT international economic order; WTO and developing countries.

#### **Unit VI: Topics for Self-Study:**

Sl. No.	Topics	Web Link
1.	Per Capita Income, Product and Final Consumption	<a href="http://mospi.nic.in/publication/national-accounts-statistics-2020">http://mospi.nic.in/publication/national-accounts-statistics-2020</a>
2.	National Income in India	
3.	Gross Value Added by economic activity	

#### **Text Book**

1. Jhingan M.L, Economic Development and planning, 41<sup>st</sup> edition, Vrinda publications, New Delhi, 2016.

#### **References**

- Adelman I., Theories of Economic Growth and Development (Stanford, Stanford university press, 1961).
- Kindleberger C.P., Economic Development (Third Edition, New York, McGraw Hill 1977).
- Sen A.K., Growth Economics (Ed) (Penguin, Harmondsworth, 1990).
- Taylor L., Macro Models for Developing Countries (New York, McGraw Hill, 1979).



- Myrdal G. Economic Theory and Underdevelopment Regions, London, Duckworth, 1957.
- Schumpeter J.A. The Theory of Economic Development, Cambridge, Harvard University Press Mass, 1949.
- Grossman G. and E.Helpman, Innovation and Growth in the Global Economy (Cambridge, MIT Press Mass 1991).
- Kuznets, Simon, Economic Growth of Nations, Total Output and Production Structure (Cambridge, Harvard University Press Mass 1971).
- Brahmananda P.R. and C.N.Vakil, Planning for an Expanding Economy (Bombay, Vora and Co., 1956).
- Gupta S.B., Monetary Economics, institutions, Theory and Policy (New Delhi, S.Chand and Co., 1988).

#### LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
<b>1.1</b>	<b>1.1Economic Growth:</b> Economic growth and development – factors affecting economic growth – capital, labour and Technology	<b>Define</b> economic growth and development.	K1
	<b>1.2Growth Models -</b> Harrod and Domar instability of equilibrium – Neo-classical growth models – Solow and Meade, Mrs.Joan Robinson's growth model – Cambridge criticism of Neo-classical analysis of growth.	<b>Explain</b> the economic growth models.	K5
<b>Unit 2</b>			
	<b>2.1Theory of Poverty and Income Distribution:</b> Growth and Distribution Justice - Kuznet's Hypothesis - Poverty and its Measurement – Poverty Alleviation Measures - Convergence and Divergence Economic Theories - Development Gap - Causes, Consequences and Measures to Reduce Development Gap.	<b>Analyse</b> the poverty and its measures in India	K4
<b>Unit 3</b>			
	<b>3.1Theories of Development:</b> Classical theory of development – contributions of Adam Smith, Ricardo, Malthus and	<b>Elaborate</b> the theories of economic development.	K6

	James Mill: Karl Marx and development of capitalistic economy.		
	<b>3.2</b> Theory of social change, surplus value and profit: Immutable laws of capitalist development: Crisis in Capitalism – Schumpeter and capitalistic development; innovation – role of credit, profit and degeneration of capitalism; Structural analysis of development; Imperfect market paradigm	<b>Examine</b> the theories of social change.	K4
<b>Unit 4</b>			
	<b>4.1 Partial Theories of Economic Growth and Development:</b> Salient Features of Partial Theories - Vicious Circle of Poverty - Theory of Circular Cumulative Causation - <i>Lewis Model</i> - Big-push and Critical Minimum Effort Thesis, Balanced and Unbalanced Growth Theories - Dualistic Theories - Dixit-Marglin Models - Dependency Theory of Development - Two Sector Model of <i>Uzawa</i> .	<b>Explain</b> the vicious circle of poverty.	K5
<b>Unit 5</b>			
	<b>5.1 Trade and Economic Development:</b> International trade as engine of growth; Static and dynamic gains from trade; Prebisch, Singer and Myrdal thesis Vs free trade: Export-led growth: Dual gap analysis; Balance of payments; Tariffs and effective protection; Post-GATT international economics order; WTO and developing countries.	<b>Estimate</b> the theories of international trade for economic growth	K5

### Mapping Scheme for the PO, PSOs and COs

Mapping	L-Low			M-Moderate			H- High						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	H	M	M	M	M	M	M	H	H	H	M	H
CO2	H	H	H	H	H	M	M	M	H	H	H	M	H
CO3	H	H	M	M	M	M	M	M	H	H	H	M	H
CO4	H	H	H	M	M	M	H	H	M	H	H	M	H
CO5	H	M	H	M	M	H	M	M	H	H	M	M	H
CO6	H	M	M	M	H	M	M	M	H	H	H	H	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

**Course Coordinator: Dr.B.Neppolian**

**SEM-II**  
**CODE: P18EC2:2**

**WEEKS: 15**  
**CREDITS: 4**

## **ELECTIVE II: HUMAN RESOURCE DEVELOPMENT**

### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To relate the importance of human resource in economic development.	K1	I
2	To analyse the concepts related to human resource.	K4	I
3	To rephrase the role of education in capital formation.	K2	II
4	To interpret the health policy.	K2	III
5	To identify the need for job analysis.	K3	IV
6	To formulate HDI and GDI	K6	V

### **Unit I**

**Economic Development and Human Development :** Concepts – Meaning – Significance – issues – overview of indicators of Human Resource Development – Human Resource Development Strategies.

### **Unit II**

**Human Capital Formation :** Education and Economic development approaches to Human Capital Formation – Schultz’s approach – Becker’s Approach – New Education Policy – Brain drain – Brain gain Causes and Effects and Measures.

### **Unit III**

**Human Health and Development :** Health indicators – Health and Economic Development – new Health Policy – Family Welfare and Planning – National, Youth Policy – Concept of Health Insurance.

### **Unit IV**

**Human Resource Planning :** Concepts – Objectives – Need – Process and Methods – Job Analysis – Skills – Performance Analysis Methods and Challenges – Human resource Forecasting and Methods.

### **Unit V**

**Gender Dimensions of Human Resource Development :** Rationale – Gender disparity – Education, Employment and Earning (Triple ‘E’) – Gender Empowerment measures (GEM) – Women Empowerment dimensions and

measures – Concept of Human Development Index (HDI) and Gender Development Index (GDI).

**Unit VI: Topics for Self-Study:**

S.No.	Topics	Web Links
1	Challenges in Education	<a href="https://www.socialworkfootprints.org/special-articles/issues-challenges-of-education-in-india">https://www.socialworkfootprints.org/special-articles/issues-challenges-of-education-in-india</a>
2	New Education Policy in India	<a href="https://taxila.in/blog/the-new-education-policy-in-india/">https://taxila.in/blog/the-new-education-policy-in-india/</a>
3	SSA, RTE, RMSA, RUSA Country specific studies with respect to education	<a href="http://ssa.tnschools.gov.in/ssa-tn/rte">http://ssa.tnschools.gov.in/ssa-tn/rte</a>

**Text Books**

- Dalt, Ruddar and KPM Sundaram, Indian Economy, Sultan Chand & Co., New Delhi, 2018. (Unit I, III & V)
- Theodore W. Schultz, Investment in Human Capital, American Economic Review, Research Edition. (Unit – II)
- R.S. Dwivedi, Human Resource Management, Vikas Publishing House, New Delhi, 2011. (Unit – IV)

**References**

- G.R. Mathan, Indian Social Problems, Sultan Chand & Co., New Delhi, 2000.
- K. Ashwathappa, Human Resource and Personnel Management, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2005.
- Pravin Durai, Human Resoruce Management, Pearson Publication, New Delhi, 2010.

## LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	1.1 Concepts – Meaning – Significance – issues overview of indicators of Human Resource Development.	List the concepts of human resources development.	K1
		Label the indicators of human resources development.	K1
	1.2 Human Resource Development Strategies.	Explain the various strategies of human resources development.	K2
<b>Unit 2</b>			
	2.1 Education and Economic development approaches to Human Capital Formation – Schultz's approach – Becker's Approach.	Construct the education policy to develop the human capital formation.	K3
		Demonstrate the various approaches to human capital formation.	K2
	2.2 New Education Policy – Brain drain – Brain gain Causes and Effects and Measures.	Evaluate the new education policy.	K5
		Justify the brain drain theory.	K5
<b>Unit 3</b>			
	3.1 Health indicators – Health and Economic Development – new Health Policy.	Analyze the health indicators in economic development.	K4
		Discuss the new health policy.	K6
	3.2 Family Welfare and Planning – National, Youth Policy – Concept of Health Insurance.	Formulate family welfare and planning policy.	K6
		Design the health insurance.	K6
<b>Unit 4</b>			
	4.1 Concepts – Objectives – Need – Process and Methods.	Identify the need of human resources planning and management.	K3
	4.2 Job Analysis – Skills – Performance Analysis Methods and Challenges – Human resource Forecasting and Methods.	Outline the job performance of an individual.	K2
		Demonstrate the challenges in job analysis.	K2

Unit 5			
	5.1 Rationale – Gender disparity – Education, Employment and Earning (Triple ‘E’) – Gender Empowerment measures (GEM) – Women Empowerment dimensions and measures.	Interpret the gender disparity.	K2
		Measure the women empowerment dimensions.	K5
	5.2 Concept of Human Development Index (HDI) and Gender Development Index (GDI).	Discuss the human development index of various countries.	K6
		Estimate the gender development index.	K6

### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	H	M	M	M	H	H	H	H	H	H	M	H
CO2	H	M	M	M	H	H	H	M	H	H	M	M	H
CO3	H	H	M	M	H	H	H	H	H	H	M	M	H
CO4	H	H	M	M	H	H	M	L	H	H	M	M	H
CO5	H	H	H	M	M	M	M	H	H	H	M	M	H
CO6	H	M	M	M	H	H	H	M	H	M	M	H	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Dr.E.Thelma

**SEM-II**  
**CODE: P19EC2:3**

**HOURS PER WEEK: 4**  
**CREDITS: 4**

**ELECTIVE III: NOBEL LAUREATES IN ECONOMICS AND  
THEIR CONTRIBUTION**

**COURSE OUTCOMES:**

At the end of this course, the students will be able

S.No.	Course Outcomes	Level	Unit
1	To tell the origin of History of Economic Thought	K1	I
2	To explain the economic ideas of Nobel Laurates (2014-15)	K2	II
3	To utilize the ideas of Nobel Laurates from 2016-17	K3	III
4	To examine the economic ideas of Nobel Laurates (2018)	K4	III
5	To analyse the economic ideas of Indian Nobel Laurates	K4	IV
6	To discuss the ideas of A.K. Sen's social Welfare and Economic Justice	K6	V

**Unit I :**

The Sveriges Riksbank Prize in Economic Sciences – Rationale of Nobel Prize  
– History – The facts about Nobel Prize.

**Unit II :**

Nobel Memorial Prize in Economic Sciences in 20 and 1 – Jean Tirole (2014)  
Analysis of market power – regulation – Angus Deaton (2015) Analysis of  
Consumption, Poverty and Welfare.

**Unit III :**

Nobel Laurates of Economics in 2016-2017 – Oliver Hart and Bengt  
Holmstrom – Contributions to contract theory – Richard Thaler (2017) –  
Contribution to behavioural economics and finance.

**Unit IV :**

Nobel Laurates in Economics (2018) – Paul.M. Romer – Progress and  
possibility of progress – Innovation into long-run macro-economic analysis –  
William.D.Nordhaus – Climate change – the ultimate challenge for economics.

**Unit V :**

Amartya Sen (1998) – Social Welfare and Economic Justice : Sen on poverty –  
identification of poverty – Conventional Approach – Limitations of  
Conventional Approach – Measurement of Poverty – Existing techniques –  
Sen's Index – Sen on Economic Development – Sen of Employment.



## Unit VI : Topics for Self-Study

S.No.	Topics	Web Links
1	Prizes in Economics science	<a href="https://www.nobelprize.org/prizes/lists/all-prizes-in-economic-sciences/">https://www.nobelprize.org/prizes/lists/all-prizes-in-economic-sciences/</a>
2	The Prize in Economic Sciences 2019	<a href="https://www.nobelprize.org/prizes/economic-sciences/2019/press-release/">https://www.nobelprize.org/prizes/economic-sciences/2019/press-release/</a>

### Text Book:

- Lokanathan.V., A History of Economic Thought, S.Chand & Company Ltd., New Delhi, 2011.

### Reference:

- Paul.R.R., History of Economic Thought, Kalyani Publishers, Ludhiana, 2013.

### LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	The Sveriges Riksbank Prize in Economic Sciences	<b>List</b> the characteristics and structural Sveriges Riksbank Prize in Economic Sciences	K1
	Rationale of Nobel Prize	<b>Construct</b> Rationale of Nobel Prize	K6
	History of Nobel Prize	<b>Evaluate</b> History of Nobel Prize	K5
	The facts about Nobel Prize.	<b>Explain</b> The facts about Nobel Prize.	K5
<b>Unit 2</b>			
	Nobel Memorial Prize in Economic Sciences in 20 and 1 – Jean Tirole (2014) Analysis of market power – regulation –	<b>Discuss</b> the Jean Tirole market power – regulation	K4
	Angus Deaton (2015) Analysis of Consumption, Poverty and Welfare.	<b>Analyze</b> the Angus Deaton of Consumption, Poverty and Welfare.	K4
<b>Unit 3</b>			

	Nobel Laurates of Economics in 2016-2017 – Oliver Hart and Bengt Holmstrom – Contributions to contract theory .	<b>Analyze</b> the Oliver Hart and Bengt Holmstrom – Contributions to contract theory .	K4
	Richard Thaler (2017) – Contribution to behavioural economics and finance.	<b>Discuss</b> the Richard Thaler Contribution to behavioural economics and finance.	K6
			K4
<b>Unit 4</b>			
	Nobel Laurates in Economics (2018) – Paul.M. Romer – Progress and possibility of progress – Innovation into long-run macro economic analysis –	<b>Explain</b> the Paul.M. Romer – Progress and possibility of progress – Innovation into long-run macro economic analysis	K5
	William.D.Nordhaus – Climate change – the ultimate challenge for economics.	<b>Assess</b> the William.D.Nordhaus – Climate change – the ultimate challenge for economics.	K5
<b>Unit 5</b>			
	<b>Unit V :</b> Amartya Sen (1998) – Social Welfare and Economic Justice : Sen on poverty – identification of poverty – Conventional Approach – Limitations of Conventional Approach –	<b>Explain</b> Amartya Sen (1998) – Social Welfare and Economic Justice : Sen on poverty	K5
	Measurement of Poverty – Existing techniques – Sen’s Index – Sen on Economic Development – Sen of Employment.	<b>Elaborate</b> the WTO and its impact on the different sectors of the economy	K6

## Mapping Scheme for the PO, PSOs and Cos

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	M	M	L	M	H	M	M	M	M	M	M
CO2	M	H	M	H	M	H	M	L	M	M	M	H	M
CO3	H	M	H	M	H	L	L	M	L	L	L	L	M
CO4	M	M	H	H	L	M	M	L	H	L	L	L	L
CO5	M	H	M	M	M	H	H	L	L	L	L	M	L
CO6	M	M	M	M	M	M	M	M	M	H	M	M	L

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Dr.D.Ranjithkumar

**SEM-III**  
**CODE: P18EC308**

**WEEKS PER WEEK: 15**  
**CREDITS: 5**

### **CORE VIII : INTERNATIONAL ECONOMICS**

#### **Objectives Course Outcomes:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To recall the theories of international trade.	K1	I
2	To explain terms of trade and Barriers to Trade	K2	II
3	To analyse foreign exchange and market theories	K4	III
4	To construct the balance of payment	K6	III
5	To evaluate the functions of international financial institutions.	K5	IV
6	To discuss the role of trade blocs.	K6	V

#### **Unit I**

**Introduction and theories of International Trade :** Need for and features of International Trade – Theory of Reciprocal demand – H.O. Theorem – Factor Price Equalisation Theorem – Samuelson Theorem – Rybenzynski's Theorem – Paul Krugman's Intra-Industry Trade Theory.

#### **Unit II**

**Terms of trade and Barriers to Trade :** Concepts of terms of Trade – Net Barter Terms of Trade – Gross Barter Terms of Trade – Prebisch – Singer Thesis – Tariffs – Non-Tariff Barriers – Welfare implications of Tariff – Trade Blocs : EEC – OPEC, SAARC, SAPTA, European Union.

#### **Unit III**

**Foreign Exchange and Market Theories :** Meaning – Importance – Determination of Foreign Exchange – Balance of Payments – Market Theories – Monetary Approach and Portfolio Approach.

#### **Unit IV**

**International Institutions :** Flow of Capital, Technology and Services – Euro – Dollar Market – International Financial Institutions – IMF, World Bank, IFC & IDA.

#### **Unit V**

**Trade and Development :** Trade and Development Issues – North South Dialogue – South – South Economic Cooperation – South East Asian Crisis and its Lessons for Developing Countries – WTO – Criticisms.

### Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	Current scenario of India's foreign trade	<a href="https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1606360">https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1606360</a>
2	Review the Balance of Payment in India	<a href="https://www.rbi.org.in/scripts/BS_PressReleaseDisplay.aspx?prid=50436">https://www.rbi.org.in/scripts/BS_PressReleaseDisplay.aspx?prid=50436</a>
3	Relationship of India with International Institutions.	<a href="https://www.mea.gov.in/regional-organisations.htm">https://www.mea.gov.in/regional-organisations.htm</a>
4	Foreign exchange market	<a href="https://rbidocs.rbi.org.in/rdocs/Bulletin/PDFs/56803.pdf">https://rbidocs.rbi.org.in/rdocs/Bulletin/PDFs/56803.pdf</a>

### Text Books:

1. Mithani D.M., International Economics, 11<sup>th</sup> Edition, Himalaya Publishing House, 2017, (Unit I)
2. M.L. Jhinagan, International Economics, Virinda Publications, New Delhi 2016, (Unit I, II & IV)
3. K.C. Rana & K.N. Verma, International Economics, Vishal Publishing Co., New Delhi, 2016 (Unit: III & V)

### References

1. Bhagwadi, J.N. (1987). International Trade : Selected Readings, MIT Press, Coimbatore.
2. Francis Cherunilam, International Economics, Tata McGraw Hill Publishing Company, New Delhi, 2006.
5. Paul R. Krugman Maurice Obstfeld, International Economics, Theory and Policy, VI Edition, Pearson Education, New Delhi, 2004.

### LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
	<b>1.1 Introduction and theories of International Trade</b> : Need for and features of International Trade	List the need and features of international trade	K1

### Mapping Scheme for the PO, PSOs and COs

L-Low                      M-Moderate                      H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO3	PSO4
CO1	H	M	M	-	-	M	M	M	H	M	H	M	M

	<b>1.2</b> Theory of Reciprocal demand – H.O. Theorem – Factor Price Equalisation Theorem – Samuelson Theorem – Rybenzynski’s Theorem – Paul Krugman’s Intra-Industry Trade Theory	<b>Select</b> the various international theories to promote the international trade.	K3
	<b>2.1</b> <b>Terms of trade and Barriers to Trade :</b> Concepts of terms of Trade – Net Barter Terms of Trade – Gross Barter Terms of Trade	<b>Analyse</b> the concepts of terms of trade and types of terms of trade.	K4
	<b>2.2</b> Prebisch – Singer Thesis	<b>Discuss</b> the Prebisch and Singer thesis.	K6
	<b>2.3</b> Tariffs – Non-Tariff Barriers – Welfare implications of Tariff	<b>Classify</b> the tariffs and non-tariff barriers to improve the international trade.	K4
	<b>2.4</b> Trade Blocs: EEC – OPEC, SAARC, SAPTA, European Union.	<b>Relate</b> the various trade blocs.	K1
	<b>3.1</b> <b>Foreign Exchange and Market Theories :</b> Meaning – Importance – Determination of Foreign Exchange	<b>Elaborate</b> the concepts of foreign exchange, importance and determination of foreign exchange	K6
	<b>3.2</b> Balance of Payments	<b>Identify</b> the components of balance of payments.	K3
	<b>3.3</b> Market Theories	<b>Interpret</b> the various market theories.	K5
	<b>3.4</b> Monetary Approach and Portfolio Approach.	<b>Relate</b> the monetary and portfolio approach to international trade.	K2
	<b>4.1</b> <b>International Institutions :</b> Flow of Capital, Technology and Services.	<b>Explain</b> the flow of capital, technology and services of international institutions	K5
	<b>4.2</b> Euro – Dollar Market	<b>Outline</b> the euro dollar market.	K2
	<b>4.3</b> International Financial Institutions – IMF, World Bank, IFC & IDA.	<b>Evaluate</b> the various international financial institutions.	K5

CO2	H	H	M	L	L	M	M	M	H	M	H	M	H
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	<b>5.1 Trade and Development :</b> Trade and Development Issues	<b>Solve</b> the issues of trade and development.	K6
	<b>5.2 North South Dialogue – South – South Economic Cooperation.</b>	<b>Build</b> the international economic cooperation	K6
	<b>5.3 WTO – Criticisms.</b>	<b>Criticize</b> the World Trade Organization.	K5

<b>CO3</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>-</b>	<b>M</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>
<b>CO4</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>H</b>
<b>CO5</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>-</b>	<b>M</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>H</b>
<b>CO6</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>H</b>

#### **COURSE ASSESSMENT METHODS**

<b>Direct</b>
<ol style="list-style-type: none"> <li><b>1. Continuous Assessment Test I &amp; II</b></li> <li><b>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</b></li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li><b>1. Course-end survey</b></li> </ol>

**Course Coordinator: Dr.E.Thelma & Dr.D.Ranjith Kumar**

**CORE IX : ECONOMETRICS**

**COURSE OUTCOMES**

At the end of this course, the students will be able

S.No.	Course Outcomes	Level	Unit
1	To recall the correlation theory.	K1	I
2	To interpret hypothesis testing.	K2	II
3	To apply the Gauss Markov theorem.	K3	III
4	To analyse test of goodness of fit.	K4	IV
5	To evaluate multiple regression analysis.	K5	V
6	To compute auto-correlation.	K6	V

**Unit-I**

**Definition and Scope of Econometrics** : Definition, Scope and Division of Econometrics - Methodology of Econometric research - Correlation theory - Simple linear regression model: Ordinary Least Squares Method (OLS). Statistical test of significance of the estimates - Properties of the least squares estimates.

**Unit-II**

**Multiple Regression and Extensions** : Multiple regression and other extensions of the simple linear regression model - Regression and analysis of variance - Second order tests: Assumptions of Randomness, Zero mean, Constant variance and Normality of the disturbance variable (u).

**Unit-III**

**Auto-correlation & Multicollinearity** : Auto-correlation, Multicollinearity and Heteroscedasticity – Causes detection, consequences and remedy - Dummy variable, Distributed lags – Need, limitations and interpretation in Economics.

**Unit-IV**

**Simultaneous Equation Models** : Simultaneous Equation Models: Structural and reduced forms – Endogenous and Exogenous variables – Identification Problems and conditions – Single equation methods of estimation: TSLS, Indirect least squares and least variance ratio.



## Unit-V

**Application of Econometrics** : Econometric Applications to Consumption function - Estimation of elasticities – Estimation of Linear and Cobb-Douglas production function – Cost function – Measurement of Technical change.

**Note** : Problems may be asked only from the following areas

- a) Correlation
- b) Estimation of parameters as per OLS/GLS Model
- c) Test of significance

## Unit VI: Topics for Self-Study:

S. No	Topic	Web link
1	Addition theorem of probability	<a href="https://schooltutoring.com/help/addition-theorem-on-probability/#:~:text=The%20event%20of%20getting%20a,P(A%E2%88%A9B).">https://schooltutoring.com/help/addition-theorem-on-probability/#:~:text=The%20event%20of%20getting%20a,P(A%E2%88%A9B).</a>
2	Multiple theorem of probability	<a href="https://www.javatpoint.com/multiplication-theorem#:~:text=Theorem%3A%20If%20A%20and%20B,product%20of%20their%20individual%20probabilities.&amp;text=Now%2C%20combine%20the%20successful%20event,with%20successful%20event%20of%20B.&amp;text=Find%20the%20probability%20that%20one%20is%20green%20and%20the%20other%20is%20red.">https://www.javatpoint.com/multiplication-theorem#:~:text=Theorem%3A%20If%20A%20and%20B,product%20of%20their%20individual%20probabilities.&amp;text=Now%2C%20combine%20the%20successful%20event,with%20successful%20event%20of%20B.&amp;text=Find%20the%20probability%20that%20one%20is%20green%20and%20the%20other%20is%20red.</a>
3	Problems on probability	<a href="https://www.testprepreview.com/modules/probabilty.htm">https://www.testprepreview.com/modules/probabilty.htm</a>

## Text Books

1. Damodar Gujarathi, “Basic Econometrics”, 4<sup>th</sup> ed., Tata McGraw Hill Ltd, New Delhi, 1999. (Unit – I & V)
2. Neeraj R. Hatekar, Priniiples of Econometrics, 1<sup>st</sup> ed., Sage Publication India Pvt Ltd, New Delhi, 2010. (Unit – II, III & IV)

## References

- A.Koutsoyiannis, (1992) “Theory of Econometrics: An Introductory Exposition of Econometric Methods”, McMillan Education Ltd.
- Suresh K.Ghose “Econometrics”, Prentice Hall of India private limited, New Delhi.

**LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS**

<b>Unit</b>	<b>Course Contents</b>	<b>Learning Outcomes</b>	<b>Blooms Taxonomic levels of Transaction</b>
	1.1 Definition, Scope and Division of Econometrics – Methodology of Econometric research - Correlation theory.	<b>Define</b> the concepts in econometrics & list the types of correlation theory	K1
	1.2 Simple linear regression model: Ordinary Least Squares (OLS). Statistical test of significance of the estimates – Properties of the least squares estimates.	<b>Construct</b> the ordinary least square equation.  <b>Select</b> the appropriate test of significance estimator in the problem.	K3
	2.1 The Z Distribution and Hypothesis Testing, One Tailed Versus Two Tailed Tests, Confidence Intervals for the Mean, Central Limit Theorem, Law of Large Numbers, Chi – Square Distribution, F Distribution, t Distribution, Confidence Intervals using the t Distribution.	<b>Explain</b> the various tests to find the expected result and test the statement of hypothesis and to solve the problem.	K2
	3.1 Estimating Parameters, Properties of Estimators, Ordinary Least Squares Estimator, Gauss – Markov Theorem.	<b>Support</b> the various properties of estimators.  <b>Assess</b> the gauss markov theorem with the derivatives.	K5
	3.2 Regression: Log – Log Regression, Semi – Log Regression, Chow Test, Dummy Variables, Regression with Standardised Coefficients, Two Variable Regression Model.	<b>Identify</b> the variables in the equations.  <b>Construct</b> the regression equation.	K3
	4.1 Assumption, Estimated Regression, Hypothesis Testing for Multiple Linear Regression Model: ‘t’ test, ‘F’ test, Goodness of Fit.	<b>Develop</b> the hypothesis for the multiple linear regression model.  <b>Construct</b> various tests for the goodness of fit.	K3
	4.2 Multiple Linear Regression Model with the Problem of Multicollinearity, Multicollinearity with Two Explanatory Variables.	<b>Create</b> multicollinearity in the multiple linear regression.	K6

	5.1 Heteroskedasticity – Detection - Graphical Method, Park Test, Glesjer Test, Goldfeld – Quandt Test, Breusch – Pagan – Goldfrey Test, White’s General Heteroskedasticity Test, Remedial Measures.	<p><b>Select</b> the right method to test the heteroskedasticity in the multiple linear equations.</p> <p><b>Deduct</b> the remedial measures to remove the heteroscedasticity.</p>	K5
	5.2 Autocorrelation – First order Autocorrelation, Implications, Detection - Asymptotic Test, Durbin – Watson Statistic, Durbin’s ‘h’ test, Remedial Measures, Specification Errors.	<p><b>Demonstrate</b> the right method to test the autocorrelation in the multiple linear equations.</p> <p><b>Summarise</b> the remedial measures to remove the autocorrelation.</p>	K2

**Mapping Scheme for the PO, PSOs and COs**

**L-Low**

**M-Moderate**

**H- High**

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
<b>CO1</b>	M	L	H	H	H	H	M	M	H	M	M	M	H
<b>CO2</b>	M	M	H	H	H	H	M	M	H	M	M	M	H
<b>CO3</b>	H	-	-	H	-	H	L	L	M	H	-	L	M
<b>CO4</b>	H	M	H	H	M	H	M	L	H	H	M	M	H
<b>CO5</b>	H	-	H	H	H	H	M	L	M	H	M	M	H
<b>CO6</b>	H	-	H	H	H	H	M	L	M	H	M	M	H

**COURSE ASSESSMENT METHODS**

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

**Course Coordinator: Dr.S.Booma Devi**

**SEM-III**  
**CODE: P18EC310**

**WEEKS: 15**  
**CREDITS: 5**

## **CORE X : RESEARCH METHODOLOGY IN ECONOMICS**

### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To define research problem.	K1	I
2	To interpret the literature review.	K2	II
3	To construct research design in social science research.	K3	III
4	To discover the techniques of data collection.	K4	IV
5	To list out the sampling methods.	K4	IV
6	To construct the structure of report writing.	K6	V

### **Unit I**

**Objective & Scientific Research:** Science – Its meaning and Characteristics – The meaning of ‘research’ – Specific features of research in Social Sciences as opposed to Physical and Natural Sciences – Objectivity in research – Basic categories in scientific method – Facts – Concepts – Causality – Uncertainty – Probability – Dialectical and Historical Materialism.

### **Unit II**

**Research Methods:** Methods of Research – Deductive and Inductive Reasoning – Steps of Scientific Method – Historical Method – Case Study – Qualitative Research techniques – Ethno methodology – Reflective and evaluative research – Sample surveys – Sampling methods – Sampling design.

### **Unit III**

**Criteria for Research Design:** Steps in research – Formulation of a Research problem – Guiding principles in the choice of a research topic – role of survey of literature – Formulation of research design – Model building – Hypothesis: concept, definition, formulation and testing.

### **Unit IV**

**Techniques of Data Collection & Processing:** Tools observation, schedule, questionnaire, projective techniques – Primary and secondary data –

Principles underlying construction of a questionnaire – Preparations of master table – Data processing – Analytical Tables.

## Unit V

**Report Writing:** Drafting of Report – Structure and General format – Style – Use of footnotes – Citations – Presentation of tables, diagrams, charts and maps – Bibliography.

## Unit VI: Topics for Self-Study:

Sl. No.	Topics	Web Link
1.	Writing a Research Report	<a href="https://www.adelaide.edu.au/writingcentre/site/default/files/docs/learningguide-writingaresearchreport.pdf">https://www.adelaide.edu.au/writingcentre/site/default/files/docs/learningguide-writingaresearchreport.pdf</a>
2.	Contents of a Research Report	<a href="http://my.ilstu.edu/~mhemmas/LDR%20280/Contents_of_a_Research_Report.htm">http://my.ilstu.edu/~mhemmas/LDR%20280/Contents_of_a_Research_Report.htm</a>
3.	Types of Research Report	<a href="https://www.formpl.us/blog/research-report">https://www.formpl.us/blog/research-report</a>

## TEXT BOOKS:

1. C.R. Kothari, Research Methodology, Reprinted 2003, New Age Publications, New Delhi. (Unit – II & IV)
2. Goode and Hatt, Methods in Social Research, McGraw Hill Publications, 1986. (Unit – I)
3. R. Cauvery, U.K. SudhaNayak , M. Girija and R. Meenakshi, Research Methodology, S. Chand & Company Ltd., New Delhi, 2003. (Unit – III & V)

## References

- Ghosh B.N. (1982), – Scientific Method and Social Research, New Delhi, Sterling Publications.
- Goode W.J. & Hatt P.K., (1952), – Methods in Social research, New York, McGraw Hill.
- Kothari C.R., (1991), – Research Methodology (Methods & Techniques), New Delhi, Wiley eastern Ltd.

**LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS**

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	1.1 Meaning of Research, Objectives of Research, Motivations in Research, Types of Research, Research Approaches, Significance of Research.	<b>Define</b> the meaning of research and the motivations in research.	K1
		<b>List</b> the importance of research in economics.	K1
	1.2 Research Methods v/s Methodology, Research and Scientific Methods, Research Process, Criteria of Good Research.	<b>Identify</b> the difference between research methods and research methodology.	K3
		<b>Explain</b> the conditions for a good research.	K2
<b>Unit 2</b>			
	2.1 Defining and formulating the research problem - Selecting the problem - Necessity of defining the problem.	<b>Construct</b> the research problem in order to find the exact results.	K6
		<b>Apply</b> the necessity of defining the research problem.	K3
	2.2 Importance of literature review in defining a problem – Literature review – Primary and secondary sources – reviews, treatise, monographs-patents – web as a source – searching the web - Critical literature review – Identifying gap areas from literature review.	<b>Relate</b> the research problem with the help of literature review.	K2
		<b>Distinguish</b> between the research with the various sources.	K4
	2.3 Development of working hypothesis.	<b>Develop</b> the hypothesis to relate the research problem.	K6
<b>Unit 3</b>			
	3.1 Research design – Basic Principles- Need of research design — Features of good design –	<b>Identify</b> the need for research design.	K3

	Important concepts relating to research design – Observation and Facts, Laws and Theories.	<b>Explain</b> the concepts of research design in research problem.	K2
	3.2 Prediction and explanation, Induction, Deduction, Development of Models. Developing a research plan - Exploration, Description, Diagnosis, Experimentation, Determining experimental and sample designs.	<b>Interpret</b> the research results with the help of induction and deduction method.	K2
		<b>Experiment with</b> the sample design for the research problem.	K3
<b>Unit 4</b>			
	4.1 Execution of the research - Observation and Collection of data - Methods of data collection – Collection of Secondary Data, Selection of appropriate method for data collection, Case Study Method, Guidelines for developing questionnaire, successful interviewing. Survey v/s experiment.	<b>Justify</b> the research problem with the help of data collection.	K5
		<b>Choose</b> the appropriate method to collect data for the research problem.	K1
	4.2 Sampling Methods - Data Processing and Analysis strategies.	<b>Make use of</b> the sampling method to support the research problem.	K3
<b>Unit 5</b>			
	5.1 Meaning, Basic concepts, Flow diagram, Power of a hypothesis test, Important parametric tests, Hypothesis Testing of Means.	<b>Interpret</b> the research problem with the hypothesis.	K2
		<b>Choose</b> the various tools of testing the hypothesis.	K1
	5.2 Differences between Means, Comparing Two related samples, Testing of Proportion, Difference between proportions, comparing variance to hypothesized population variance, Equality of variances of two normal populations, hypothesis testing of Correlation coefficients, Limitations of Tests of hypothesis.	<b>Inspect</b> the research problem with the correct tool of hypothesis testing.	K4
		<b>Discuss</b> the limitations of the hypothesis testing.	K6

### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	H	H	H	H	M	M	H	H	H	M	H
CO2	H	M	M	-	M	M	M	M	H	H	M	M	H
CO3	H	M	H	M	M	M	M	M	H	H	H	M	H
CO4	H	M	M	H	M	M	M	M	H	M	H	M	H
CO5	H	M	M	H	M	M	M	M	H	M	H	M	H
CO6	H	M	H	L	H	H	M	M	H	M	M	M	H

### COURSE ASSESSMENT METHODS

#### Direct

1. Continuous Assessment Test I &II
2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination

#### Indirect

1. Course-end survey

Course Coordinator: Mrs.S.Booma Devi



**SEM-III**  
**CODE: P18EC311**

**WEEKS: 15**  
**CREDITS: 5**

## **CORE XI: SOCIAL ECONOMICS**

### **COURSE OUTCOMES**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To recall the basic concepts of social economics	K1	I
2	To identify the causes of consequences of world poverty.	K3	II
3	To explain the various social security measures in India.	K5	II
4	To determine the role and importance of Education and Health sector in India	K5	III
5	To discover economic crimes and their prevention.	K4	IV
6	To evaluate the concepts of social inclusion and exclusion policy in India.	K6	V

#### **Unit I**

Social Economics – Definition equality in Human Societies (employment) – Principles of Social doctrines – Gandhi, Marx and Pope.

#### **Unit II**

The world Poverty situation – causes and consequences – Requisites of economic growth – Role of Government – Social security – Subsidies – Social banking – Refugees, Slavery and Beggary.

#### **Unit III**

Problems in Education and Health Services – Energy Crisis and related issues.

#### **Unit IV**

Economic Crimes and their Prevention – Black Money – Parallel Economy – Economics of Good Governance – Social Cost and Benefit Analysis.

#### **Unit V**

Discrimination: Sources, kinds and costs – Consumerism – provision of information – Protection from business manipulations – Social Exclusion concept, types – Inclusive policy perspective for Future.

## Unit VI: Topics for Self-Study:

Sl.No	Topics	Web Link
1.	Gender inequality	<a href="https://www.cry.org/issues-views/gender-inequality">https://www.cry.org/issues-views/gender-inequality</a>
2.	Impact of Covid-19	<a href="https://timesofindia.indiatimes.com/readersblog/covid-19-and-its-impact-on-india/covid-19-and-its-impact-on-indian-society-27565/">https://timesofindia.indiatimes.com/readersblog/covid-19-and-its-impact-on-india/covid-19-and-its-impact-on-indian-society-27565/</a>
3.	Pros & Cons of New Education Policy	<a href="https://upscpathshala.com/content/pros-cons-new-education-policy-2020/">https://upscpathshala.com/content/pros-cons-new-education-policy-2020/</a>

### Text Book

- Stanford Cedric Social Economics (London: Heinemann Educational Books 1977).

### References

- Culyer A.J. Re Economics of Social Policy (London: Martin Robertson and Co. Ltd. 1973).
- Douglas C North and Roger Leroy Miller, The Economics of Public Issues (New York: Harper and Row, 1971).
- Dreze, Jean and Amartya Sen, hunger and Public Action (Oxford: Clarendon Press 1989).
- Indira Gandhi Memorial Trust, Redifining the Good Society (New Delthi: Widey eastern Ltd. 1995).
- Lutz, Mark and Kennet Lux, The Challenge of Humanistic Economics (California, The Benjamin, Cummings Publishing Co. in 1979).

### LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic levels of Transaction
<b>Unit 1</b>			
	<b>1.1</b> Introduction:Social Economics – Definition equality in Human Societies (employment) – Principles of Social doctrines – Gandhi, Marx and Pope.	<b>Tell</b> the concept of social economic, equality in Human Societies and principles of social doctrines.	K1
<b>Unit 2</b>			
	<b>2.1</b> Poverty:The world Poverty situation – causes and consequences – Requisites of economic growth – Role of Government – Social security	<b>Estimate</b> the causes and consequences of world poverty.	K6

	- Subsidies – Social banking – Refugees, Slavery and Beggary.		
<b>Unit 3</b>			
	3.1 Education and Health: Importance of Education in economic development – New Economic Policy pros and cons - Health Status and policy in India.	Discuss the problems of education and health services in India.	K6
		What are the energy crisis and its related issues?	K1
<b>Unit 4</b>			
	4.1 Economic Crimes: Economic Crimes and their Prevention – Black Money – Parallel Economy – Economics of Good Governance – Social Cost and Benefit Analysis.	Identify the economic crimes in India.	K3
<b>Unit 5</b>			
	5.1 Discrimination: Sources, kinds and costs – Consumerism – provision of information – Protection from business manipulations – Social Exclusion concept, types – Inclusive policy perspective for Future.	Analyse the concepts of social inclusion and exclusion policy in India.	K4

#### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	M	L	M	M	M	M	H	M	M	M	H
CO2	H	M	L	L	L	M	M	M	H	H	H	M	H
CO3	H	M	M	L	M	M	M	M	H	H	H	M	H
CO4	H	H	L	-	-	M	M	M	H	M	H	M	H
CO5	H	H	L	-	-	L	M	M	H	L	M	M	H
CO6	H	H	L	-	L	M	L	M	H	M	H	M	H

#### COURSE ASSESSMENT METHODS

<b>Direct</b>
1. Continuous Assessment Test I & II
2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination
<b>Indirect</b>
1. Course-end survey

Course Coordinator: Dr.S.Seethalakshmi & Dr.D.Ranjithkumar

**SEM-III**  
**CODE: P19EC3:4**

**WEEKS: 15**  
**CREDITS: 4**

### **ELCTIVE IV: ENTREPRENEURSHIP DEVELOPMENT**

#### **Course Outcomes:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To recall the functions and importance of entrepreneurship.	K1	I
2	To explain growth and development of women entrepreneurs.	K5	I
3	To identify the theories of entrepreneurship development	K3	II
4	To examine the business ideas, project identification, formulation and project report.	K4	III
5	To analyse the various entrepreneurship development programmes.	K4	IV
6	To discuss the various financial institutions to entrepreneurs in India	K6	V

#### **Unit I**

**Concept & Types of Entrepreneurship:** The concept of Entrepreneurship – Functions and types of Entrepreneurship – Entrepreneur Vs Entrepreneurship – Role of Entrepreneurship in Economic Development – Entrepreneurial Class – its emergence in India – Women Entrepreneurship – Concept – Types – Growth and Development of Women Entrepreneurs – problem & measures.

#### **Unit II**

**Theories of Entrepreneurship:** Theories of Entrepreneurship – Schumpeter – Peter Drucker – Hagen – McClelland – Frank Young – Modern Resource based theory – Entrepreneurs and Managers – Indian and Asian Entrepreneurship.

#### **Unit III**

**Project Formulation:** Search fir business idea – sources, idea processing and selection – Project – Classification – Aspects of project – Project life cycle – Project identification – Project formulation – Stages – Project design and network analysis – Project report – Meaning – Appraisal – Concept and stages – Financial Feasibility & Economic viability.

## Unit IV

**Entrepreneurship Development Programme :** Steps involved in starting a new venture – Licensing – Registration – Plant location – Raw material, water and power, machinery – Manpower – Entrepreneurship Training – Role of EDPs – Evolution – Objectives – Target groups – Institutions offering EDPs.

## Unit V

**Institutional Finance:** Institutional arrangements for entrepreneurship development – IFCI, IDBI, SIDBI, IRBI, SFC, DIC, TIIC, EXIM Bank and commercial banks – Venture capital – Micro Finance.

### Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	List of India's Successful entrepreneurs	<a href="https://startuptalky.com/top-entrepreneurs-of-india/">https://startuptalky.com/top-entrepreneurs-of-india/</a>
2	Status of women entrepreneurs in India	<a href="https://www.bain.com/contentassets/dd3604b612d84aa48a0b120f0b589532/report_powering_the_economy_with_her_-_women_entrepreneurship_in_india.pdf">https://www.bain.com/contentassets/dd3604b612d84aa48a0b120f0b589532/report_powering_the_economy_with_her_-_women_entrepreneurship_in_india.pdf</a>
3	Current entrepreneurship development Programmes in India	<a href="https://www.ildindia.org/programmes.php?s=4">https://www.ildindia.org/programmes.php?s=4</a>
4	Recent trends in micro finance	<a href="https://www.ijltemas.in/DigitalLibrary/Vol.6Issue2/54-56.pdf">https://www.ijltemas.in/DigitalLibrary/Vol.6Issue2/54-56.pdf</a>

### Text Books:

- Gupta C.B. & Srinivasan N.P., (2005), Entrepreneurship Development in India, Sultan Chand & Sons, New Delhi. (Unit I, III, IV & V)
2. Jayshree Suresh (2002), Entrepreneurial Development, Margham Publications, Chennai. (Unit II)

### References

- Vasant Desai, (2000), Small Scale Industries and Entrepreneurship, Himalaya Publishing House, New Delhi.
- Santhanam (2003), "Financial Services", Margham Publications, Chennai.

## LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic levels of Transaction
<b>Unit 1</b>			
	<b>1.1</b> Concept & Types of Entrepreneurship: The concept of Entrepreneurship – Functions and types of Entrepreneurship —	<b>Recall</b> the concept of entrepreneurship, functions and its types.	K1
	<b>1.2</b> Entrepreneur Vs Entrepreneurship – Role of Entrepreneurship in Economic Development – Entrepreneurial Class – its emergence in India	<b>Distinguish</b> between entrepreneur and entrepreneurship. <b>Inspect</b> the role of entrepreneurship in economic development.	K4
	<b>1.3</b> Women Entrepreneurship – Concept – Types – Growth and Development of Women Entrepreneurs – problem & measures.	<b>Estimate</b> the concept, types and growth of women entrepreneurs.	K5
		<b>Identify</b> the problem faced by the women entrepreneurs and measures to solve it.	K3
<b>Unit 2</b>			
	<b>2.1</b> Theories of Entrepreneurship: Theories of Entrepreneurship – Schumpeter – Peter Drucker – Hagen – McClelland – Frank Young – Modern Resource based theory	<b>Analyse</b> the various theories of entrepreneurship.	K4
	<b>2.2</b> Entrepreneurs and Managers – Indian and Asian Entrepreneurship.	<b>Summarise</b> the functions of entrepreneurs.	K2
<b>Unit 3</b>			
	<b>3.1</b> Project Formulation: Search for business idea – sources, idea processing and selection	<b>List</b> the business ideas, processing and selection of business.	K4

	3.2Project – Classification – Aspects of project – Project life cycle – Project identification – Project formulation – Stages – Project design and network analysis – Project report.	Classify the project and project life cycle.	K4
		Discuss the various stages of project formulation and project report.	K6
	3.3Meaning – Appraisal – Concept and stages – Financial Feasibility & Economic viability.	Elaborate the different stages of project appraisal.	K6
<b>Unit 4</b>			
	4.1Entrepreneurship Development Programme :Steps involved in starting a new venture – Licensing – Registration.	Apply the steps involved in starting a new venture.	K3
	4.2Plant location – Raw material, water and power, machinery – Manpower	Identify the essentials of plant location	K3
	4.3Entrepreneurship Training – Role of EDPs – Evolution – Objectives – Target groups – Institutions offering EDPs.	Appraise the entrepreneurship development programmes in India.	K5
<b>Unit 5</b>			
	5.1Institutional Finance: Institutional arrangements for entrepreneurship development – IFCI, IDBI, SIDBI, IRBI, SFC, DIC, TIIC, EXIM Bank.	Assess the functions of financial institutions in India.	K5
	5.2Commercial banks – Venture capital – Micro Finance.	Explain the role of commercial banks and micro finance in industrial finance.	K5

**Mapping Scheme for the PO, PSOs and COs**

	L-Low			M-Moderate			H- High						
Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	M	-	L	M	M	M	H	H	M	M	H

CO2	H	M	L	-	M	H	M	M	H	M	H	M	H
CO3	H	H	L	-	L	H	M	M	H	M	M	M	H
CO4	H	M	H	L	H	H	M	M	H	M	H	M	H
CO5	H	H	M	L	M	M	M	M	H	H	H	M	H
CO6	H	M	M	-	L	H	M	M	H	H	H	M	H

#### **COURSE ASSESSMENT METHODS**

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp;II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

**Course Coordinator: Dr.D.Ranjithkumar**



## CORE XII: AGRICULTURAL ECONOMICS

SEM-IV  
CODE: P20EC412

WEEKS: 15  
CREDITS: 4

### COURSE OUTCOMES

At the end of this course, the students will be able

S.No.	Course Outcomes	Level	Unit
1	To define the nature and scope of Agricultural Economics	K1	I
2	To explain agricultural production and productivity in India	K2	II
3	To analyse the agricultural marketing and policy in India	K4	III
4	To identify the objectives of Agricultural Price Policy	K3	III
5	To examine the various sources of agricultural finance	K4	IV
6	To discuss the problems and prospects of Indian Agriculture	K6	V

#### Unit I: Agriculture and Economic Development

Nature and scope of agriculture – Traditional agriculture and Modern Agriculture – Role of agriculture in economic development – Interdependence between agriculture and industry – efficiency of irrigation and fertilizers on agricultural production.

#### Unit II: Agriculture production and productivity

Agricultural production – Resource use and efficiency – factor combination and resource substitution – Agriculture productivity – Cropping patterns shifts – Farm budgeting and cost concepts – Technical change, labor absorption and gender issues in agricultural services.

#### Unit III: Agricultural Marketing in India

Marketing and state policy - Agricultural markets and marketing efficiency - Regulated markets - Marketed and marketable surplus - Behavior of agricultural prices - State policy with respect to agricultural marketing - Warehousing; Prices - Taxation and crop insurance; Terms of trade between agricultural and non-agricultural prices - Need for state intervention – objectives of agricultural price policy – role of farm objectives .

#### Unit IV : Agricultural Finance

Role of Rural Credit – Rural Savings and Capital formation – Characteristics and sources of rural credit – Institutional and non-institutional rural credit – Cooperative Banks – problems and prospects of Cooperative Banks – commercial Banks, Regional Rural Banks – Role of NABARD.

#### Unit V Agriculture and Globalization

Sustainable Agriculture – Indigenous Practices – Bio-technological practices – Agri-technology starts-ups – Genetically Modified Crops (GMO) – Organic farming – Problems and prospects of Indian Agriculture with specific focus on Globalization of Indian Economy – Issues in

Liberalization of domestic and international trade in agriculture – WTO and Agreement on Agriculture (AOA) – Impact of WTO on Indian Agriculture.

### **Agricultural Economics**

#### **Unit VI: Topics for Self-Study:**

<b>Sl. No.</b>	<b>Topics</b>	<b>Web Link</b>
1.	Production of Foodgrains and Commercial Crops	<a href="http://agricoop.nic.in/sites/default/files/FirstEstimate2020-21.pdf">http://agricoop.nic.in/sites/default/files/FirstEstimate2020-21.pdf</a>
2.	Agricultural Credit, Agricultural Marketing and Agricultural Trade in India	<a href="http://agricoop.nic.in/en/annual-report">http://agricoop.nic.in/en/annual-report</a>

#### **Text Books**

1. Basu, K (1990 first edition), Agrarian Structure and Economic Underdevelopment, Routledge, London.
2. Amrajit Singh, Sadhu AN, Jasbir Singh (2018 11<sup>th</sup> edition), Fundamentals of Agricultural Economics, Himalaya Publishing House, New Delhi.

#### **References**

1. Dantwala, M.L. et.al (1991), Indian Agricultural Development since Independence, Oxford & IBH, New Delhi.
2. Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
3. Government of India, Economic Survey -2019 (Annual), New Delhi.
4. Gualti, A. and T. Kelly (1999), Trade Liberalisation and Indian Agriculture Oxford University Press, New Delhi.
5. Kahlon, A.S.andTyagi D.D. (1983), Agriculture Price policy in India, Allied publishers, New Delhi.
6. Rao, C.H. Hanumanth Rao (1975), Agricultural Growth, Rural poverty and Environmental Degradation in India, Oxford University press, New Delhi.
7. Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai.
8. Saini, G.R. (1979), Farm Size, Resource Use Efficiency and Income Distribution, Allied publishers, New Delhi.
9. Veeramani, A.R. (2006): TamilagaVelaanPorolyal, Divyasre Publications, Chennai-91.

**LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS**

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic levels of Transaction
<b>Unit 1</b>			
	<b>1.1</b> Agriculture and Economic Development: Nature and scope of agriculture – Traditional agriculture and Modern Agriculture – Role of agriculture in economic development.	<b>Relate</b> agriculture and economic development.	K1
	<b>1.2</b> Interdependence between agriculture and industry – efficiency of irrigation and fertilizers on agricultural production.	<b>Define</b> agricultural inputs.	K1
<b>Unit 2</b>			
	<b>2.1</b> Agriculture production and productivity: Agricultural production – Resource use and efficiency – factor combination and resource substitution.	<b>Explain</b> the agricultural production in India	K2
	<b>2.2</b> Agriculture productivity – Cropping patterns shifts – Farm budgeting and cost concepts – Technical change, labor absorption and gender issues in agricultural services.	<b>Evaluate</b> crop diversification in India.	K5
<b>Unit 3</b>			
	<b>3.1</b> Agricultural Marketing in India Marketing and state policy - Agricultural markets and marketing efficiency -Regulated markets - Marketed and marketable surplus - Behavior of agricultural prices - State policy with respect to agricultural marketing - Warehousing; Prices.	<b>Classify</b> the agricultural marketing in India.	K4
	<b>3.2</b> Taxation and crop insurance- Terms of trade between agricultural and non-agricultural prices - Need for state intervention – objectives of agricultural price policy – role of farm objectives.	<b>Estimate</b> agricultural price policy.	K6
<b>Unit 4</b>			

	<b>4.1</b> Agricultural Finance: Role of Rural Credit – Rural Savings and Capital formation – Characteristics and sources of rural credit – Institutional and non-institutional rural credit.	<b>Assess</b> the role of rural credit in agriculture.	K5
	<b>4.2</b> Cooperative Banks – problems and prospects of Cooperative Banks – commercial Banks, Regional Rural Banks – Role of NABARD.	<b>List</b> the various sources of agricultural finance.	K4
<b>Unit 5</b>			
	5.1 Agriculture and Globalization Sustainable Agriculture – Indigenous Practices – Bio-technological practices – Agri-technology start-ups – Genetically Modified Crops (GMO) – Organic farming.	<b>Analyse</b> the genetically modified crops in India.	K4
	5.2 Problems and prospects of Indian Agriculture with specific focus on Globalization of Indian Economy – Issues in Liberalization of domestic and international trade in agriculture – WTO and Agreement on Agriculture (AOA) – Impact of WTO on Indian Agriculture.	<b>Evaluate</b> the problems of Indian agriculture.	K5

#### Mapping Scheme for the PO, PSOs and COs

Mapping	L-Low			M-Moderate				H- High			PSO 1	PSO 2	PSO 3	PSO 4
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9					
CO1	H	H	L	L	M	M	M	M	H	M	M	M	H	
CO2	H	M	L	M	M	L	L	M	H	H	M	M	H	
CO3	H	M	L	-	L	M	L	M	H	H	M	M	H	
CO4	H	M	L	-	L	M	L	M	H	H	M	M	H	
CO5	H	H	L	L	L	H	L	M	H	H	H	M	H	
CO6	H	H	M	-	M	H	M	M	H	H	H	M	H	

#### COURSE ASSESSMENT METHODS

<b>Direct</b>
1. Continuous Assessment Test I & II 2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination
<b>Indirect</b>
1. Course-end survey

Course Coordinator: Dr.B.Neppolian

**SEM-IV**  
**CODE: P19EC413**

**WEEKS: 15**  
**CREDITS: 4**

### **CORE XIII: ENVIRONMENTAL ECONOMICS**

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S.No.	Course Outcomes	Level	Unit
1	To tell the nature and scope of Environmental Economics	K1	I
2	To analyse the theories of Environmental Economics	K4	I
3	To discuss the Global Environmental Problems	K6	II
4	To explain the environmental Planning and Management	K4	III
5	To assess the environmental Management in India	K5	IV
6	To discuss the various kinds of environmental protection Act in India	K6	V

#### **Unit I**

**Nature, Scope and Significance of Environomics:** Environment Vs Development – Environment Vs Material Balance Approach.

#### **Unit II**

**Theories of Environmental Economics:** The Camberland – Isard/Caly Input – Output model – the modified Leontief abatement model – The Ayres – Kneese model – Coase theorem – Concept of Carbon credits.

#### **Unit III**

**Global Environmental Problems:** Green House Effect – Climate change – Global Warming –Renewable and non-renewable Resources – Need for conservation of Resources – Conservation of Forest – Water Resources –Soil Resources – Energy Resources – Conservation of Biodiversity.

#### **Unit IV**

**Environmental Planning and Management:** Problems in maintaining ecological balance, waste management – Protection of Biosphere – Application of Benefit Cost analysis to resource management – Natural resource management in Tamil Nadu – Water –Land –Forest – fisheries mineral resources – a few case studies – Biotechnology Vs Eco-friendly technology.

**Unit V: Environmental Management:** Concepts – Objectives – Acid Rain – Ozone Depletion – Trade Related Environmental Issues – People’s Movement – Environmental law – Air Act – Water Act – Environmental Protection Act1986 – Pollution Control Board – Earth Submit.

### Unit VI: Topics for Self-Study

Sl. No	Topic	Web link
1	Global warming	<a href="https://www.britannica.com/science/global-warming">https://www.britannica.com/science/global-warming</a>
2	Climate Change	<a href="https://www.bbc.com/news/science-environment-24021772">https://www.bbc.com/news/science-environment-24021772</a>
3	Deforestation	<a href="https://www.britannica.com/science/deforestation">https://www.britannica.com/science/deforestation</a>
4	Soil degradation	<a href="https://youmatter.world/en/definition/soil-erosion-degradation-definition/">https://youmatter.world/en/definition/soil-erosion-degradation-definition/</a>
5	Natural resource depletion	<a href="https://en.wikipedia.org/wiki/Resource_depletion">https://en.wikipedia.org/wiki/Resource_depletion</a>
6	E-waste	<a href="https://www.ewaste1.com/what-is-e-waste/#:~:text=E%2Dwaste%20is%20any%20electrical,it%20will%20be%20thrown%20away.">https://www.ewaste1.com/what-is-e-waste/#:~:text=E%2Dwaste%20is%20any%20electrical,it%20will%20be%20thrown%20away.</a>

### Text Books

1. Eugene T. (2004), Environmental Economics, Vrinda publication (P) Ltd., Delhi-110091.
2. Sankaran S., Environmental Economics, Margham Publications, Chennai, 2000.

### References

- Karpagam M. “Environmental Economics”, New Delhi, Sterling Publisher, 1999.
- Sankaran, “Environmental Economics”, Chennai, Margham Publications, 1994.
- Tripathy and Panda, “Fundamentals of Environmental Studies”, New Delhi, Vrinda Publications, 1999.
- Mohan I. “Environmental Pollution & Management”, New Delhi, Ashish Publishing House, 1989.
- Pandey & Carney, “Environmental Engineering”, New Delhi, Tata McGraw Hill Publishing Co. Ltd., 1998.

### LEARNING OUTCOMES: BLOOM’S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic Highest Level of Transaction
<b>Unit 1</b>			
	<b>1.1</b> Nature, Scope and Significance of Environomics	Define the meaning, scope and significance of environmental economics	K1
	<b>1.2</b> Material Balance Approach	Analyse the Material Balance Approach	K4
<b>Unit 2</b>			

	<b>2.1</b> The Camberland – IsardiCaly Input – Output model – the modified Leontief abatement model – The Ayres – Kneese model – Coase theorem	Discuss the Environmental theories	K6
	<b>2.2</b> Concept of Carbon credits	Explain the Concept of Carbon credits	K5
	<b>2.3</b> Renewable and non-renewable source of energy resources.	Deduct the Renewable and non-renewable source of energy resources.	K5
<b>Unit 3</b>			
	<b>3.1</b> Green House Effect – Climate change - Meaning of Global warming - Effects of Global warming - Measures to control global Warming	Discuss the global warming, effects and measures to control it	K6
	<b>3.2</b> Renewable and non-renewable Resources – Need for conservation of Resources	Classify the sources of energy resources	K5
	<b>3.3</b> Water Resources – Soil Resources – Energy Resources – Conservation of Biodiversity.	Explain the causes and control of water pollution	K4
<b>Unit 4</b>			
	<b>4.1</b> Problems in maintaining ecological balance, waste management – Protection of Biosphere – Application of Benefit Cost analysis to resource management	Analyse the Problems in maintaining ecological balance, waste management and cost benefit analysis	K4
	<b>4.2</b> Natural resource management in Tamil Nadu – Water – Land – Forest – fisheries mineral resources – a few case studies – Biotechnology Vs Eco-friendly technology.	Appraise the Natural resource management in Tamil Nadu	K5
<b>Unit 5</b>			
	<b>5.1</b> Concepts – Objectives – Acid Rain – Ozone Depletion – Trade Related Environmental Issues	Evaluate the Environmental issues in India	K5

	<b>5.2 People's Movement – Environmental law – Air Act – Water Act – Environmental Protection Act1986 – Pollution Control Board – Earth Submit.</b>	Discuss the prevention and control of different pollution Acts	K6
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### Mapping Scheme for the PO, PSOs and COs

Mapping	L-Low			M-Moderate			H- High				PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	H	M	M	H	H	M	L	M	H	M	M	M	H
CO2	H	M	M	M	L	M	L	M	H	M	M	M	H
CO3	H	H	M	H	M	M	-	L	H	L	M	M	H
CO4	H	H	M	H	M	M	-	M	H	H	M	M	H
CO5	H	H	M	H	M	M	-	M	H	H	M	M	H
CO6	H	H	M	H	M	M	L	L	H	H	M	M	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp;II</li> <li>2. Open book test; Assignment, Journal paper review, Group Presentation, Project report, End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

**COURSE COORDINATOR: Dr. B.NEPPOLIAN**



**SEM-IV**  
**CODE: P18EC414**

**WEEKS: 15**  
**CREDITS: 4**

## **CORE XIV: INDUSTRIAL ECONOMICS**

### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To recall the traditional theories of firm.	K1	I
2	To explain the various industrial legislations	K2	II
3	To identify the sources of industrial finance.	K3	III
4	To construct investment decisions for industrial development	K6	IV
5	To analyse the methods of project evaluation	K4	IV
6	To evaluate the measurement of Industrial efficiency.	K5	V

### **Unit I**

**Theory of the Firm and Pricing:** Objectives of the firm – Assumption and objectives of the Traditional theories of the firm – Managerial theories – Behavioural theories – Pricing policies and practices – Pricing methods – Product line coverage and pricing – Pricing and advertising.

### **Unit II**

**Industrial Legislations:** Monopoly and Concentration – Measurement of market concentration – MRTP Act – FERA – Sickness in Indian industry – Small scale enterprises – Role of SSI in Indian Economy – Small scale sector policy – EXIT policy – Golden Hand shake policy – SEZ policies – R&D policy – Venture capital – MSME.

### **Unit III**

**Industrial Finance:** Need for finance – Types of finance – Sources of finance – Development banking – IFCI – IDBI – SFCs – SIDBI – Funds flow statements – Need, managerial use and limitations.

## Unit IV

**Investment Decision:** Financial ratio Analysis – Interpretation and Classification of Ratios – Methods of Project Evaluation – The Payback method, NPV, IRR – Assessment of Investment Appraisal Techniques – Inventory Investment Appraisal Profitability.

## Unit V

**Measurement of Industrial Efficiency:** Meaning and Measurement of Efficiency of Factors – Theory of Production function – Cobb-Douglas and CES – Measurement of Productivity – Partial Factor Productivity – Incremental Productivity Ratio – Total Factor Productivity – Kendrick, Solow indices – Measurement of Technical change.

## Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	Recent trends in Industrial sector in India	<a href="https://bagchilaw.com/industrial-growth-trends-india/">https://bagchilaw.com/industrial-growth-trends-india/</a>
2	Progress of Industrial financial institutions in India	<a href="https://www.accountingnotes.net/financial-management/finance-sources/top-8-financial-institutions-of-india/8087">https://www.accountingnotes.net/financial-management/finance-sources/top-8-financial-institutions-of-india/8087</a>
3	Current trends in small scale industries in India	<a href="https://msme.gov.in/sites/default/files/FINAL_MSME_ENGLISH_AR_2019-20.pdf">https://msme.gov.in/sites/default/files/FINAL_MSME_ENGLISH_AR_2019-20.pdf</a>

## TEXT BOOKS:

- 1.Barthwal R, Industrial Economics, Wiley Eastern Ltd., Reprint 1994,New Delhi **(Unit I,II,III ,IV& V)**
- 2.Varshney&Maheswari, “Managerial Economics”, S.Chand& Co., New Delhi.**(Unit I)**
- 3.Ranjana Seth, Industrial Economics, Ane Books Pvt. Ltd, Reprint 2015, New Delhi **(Unit II)**

## References

- Devine P.J. “An Introduction to Industrial Economics”, George Allen & Unwin, London.
- Hay D.A. & Morris D.J. “Industrial Economics Theory and Evidence”, Oxford University Press, Oxford.
- Koutsoyannis A. “Modern Micro Economics”, MacMillan, New York.
- Pandey I.M. “Elements of Financial Management” Wiley Eastern Ltd., New Delhi.
- Dutt and Sundaram, “Indian Economy”, S.Chand & Co., New Delhi.
- B.N.Goldar, “Productivity Growth in Indian Industry”, Allied Publishers (P) Ltd., New Delhi.

## LEARNING OUTCOMES: BLOOM’S TAXONOMIC LEVELS OF TRANSACTIONS

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic levels of Transaction
	<b>1.1 Theory of the Firm and Pricing:</b> Objectives of the firm	<b>Define</b> the concept of Industrial Economics and objectives of the firm.	K1
	<b>1.2</b> Assumption and objectives of the Traditional theories of the firm, Managerial theories-Behavioural theories	<b>Select</b> the traditional theories of firm.	K2
	<b>1.3</b> Pricing policies and practices – Pricing methods – Product line coverage and pricing – Pricing and advertising.	<b>Explain</b> the pricing policies and its methods.	K5
	<b>2.1 Industrial Legislations:</b> Monopoly and Concentration – Measurement of market concentration	<b>List</b> the industrial legislations.	K4
	<b>2.2</b> MRTP Act – FERA	<b>Compare</b> MRTP act and FERA act.	K5
	<b>2.3</b> Sickness in Indian industry – Small scale enterprises – Role of	<b>Analyse</b> the industrial sickness in India.	K4

	SSI in Indian Economy – Small scale sector policy		
	<b>2.4</b> EXIT policy – Golden Hand shake policy – SEZ policies – R&D policy.	<b>Compare</b> EXITpolicy, Golden hand shake policy, SEZ policy and R & D policy.	K4
	<b>2.5</b> Venture capital – MSME.	<b>Identify</b> the concept of venture capital and MSME.	K3
	<b>3.1Industrial Finance:</b> Need for finance – Types of finance – Sources of finance.	<b>Appraise</b> the need, types and sources of industrial finance.	K5
	<b>3.2</b> Development banking – IFCI – IDBI – SFCs – SIDBI	<b>Assess</b> the role of IFCI, IDBI, SFCs and SIDBI.	K5
	<b>3.3</b> Funds flow statements – Need, managerial use and limitations.	<b>Discuss</b> the funds flow statements.	K6
	<b>4.1Investment Decision:</b> Financial ratio Analysis – Interpretation and Classification of Ratios —	<b>Examine</b> the investment decisions.	K4
	<b>4.2</b> Methods of Project Evaluation – The Payback method, NPV, IRR.	<b>What</b> are the various methods of project evaluation?	K1
	<b>4.3</b> Assessment of Investment Appraisal Techniques – Inventory Investment Appraisal Profitability.	<b>Evaluate</b> the assessment of investment appraisal.	K5
	<b>5.1</b> Measurement of Industrial Efficiency: Meaning and Measurement of Efficiency of Factors.	<b>Discover</b> the industrial efficiency.	K4
	<b>5.2</b> Theory of Production function – Cobb-Douglas and CES	<b>Apply</b> the cobb-douglas and CES production function.	K3
	<b>5.3</b> Measurement of Productivity – Partial Factor Productivity – Incremental Productivity Ratio – Total Factor Productivity – Kendrick, Solow indices – Measurement of Technical change.	<b>Evaluate</b> the various measurement of productivity	K5

### Mapping Scheme for the PO, PSOs and COs

L-Low

M-Moderate

H- High

Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
CO1	H	M	L	-	M	M	M	M	H	M	M	M	H
CO2	H	M	L	-	L	M	M	M	H	H	H	M	H
CO3	H	H	M	L	M	M	M	M	H	M	H	M	H
CO4	H	M	L	M	L	L	L	M	H	H	H	M	H
CO5	H	M	L	M	L	L	L	M	H	H	H	M	H
CO6	H	H	L	M	L	L	L	M	H	H	H	M	H

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp;II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
<b>Indirect</b>
<ol style="list-style-type: none"> <li>1. Course-end survey</li> </ol>

Course Coordinator: Dr.D.Ranjith Kumar

**SEM-IV**  
**CODE: P19EC4:5**

**WEEKS: 15**  
**CREDITS: 4**

## **ELECTIVE V: ECONOMICS OF INFRASTRUCTURE**

### **COURSE OUTCOMES:**

At the end of this course, the students will be able

<b>S.No.</b>	<b>Course Outcomes</b>	<b>Level</b>	<b>Unit</b>
1	To show the role of infrastructure in economic development.	K1	I
2	To demonstrate infrastructural financing.	K2	I
3	To identify the importance of transport economics.	K3	II
4	To categorize the economics of energy.	K4	III
5	To determine the role of information and communication in economic development.	K5	IV
6	To discuss the importance of tourism in economic development.	K6	V

### **Unit I**

**Infrastructure and Public Utilities:** Infrastructure: Meaning importance and role in Economic Development – Major sectors of infrastructure: Transport, Energy and Communication – Public utilities: Special Characteristic of public utilities – Principles and policies of pricing in public utilities – Infrastructure financing: Sources and schemes.

### **Unit II**

**Transport Economics:** Meaning & Scope of Transport Economics – Modes of transport: Road, Water, Rail and Air – Demand for transport – Models of freight and passenger – Cost functions in the transport sectors – Sectoral issues in transportation: Air, Rail, Road and Ports – Multimodal transport – Integrated transport.

### **Unit III**

**Economics of Energy:** Energy and economic development – Major source of energy: Electrical, Petrol, Oil and Gas – Factors determining demand for energy – Effects for energy shortage – Energy conservation.

## Unit IV

**Information & Communication:** Postal Services – Characteristics and coverage – Tele communication: Network, Telephone traffic and pricing – Basic services and Cellular services – Computer – Internet connectivity and services – Privacy and Cybercrimes.

## Unit V

**Travel and Tourism:** Tourism and economic development – basic travel motivation – Role of State in promoting Tourism – the organization of Tourism – Tourism development and planning – Infrastructural requirements for marketing of Tourism – Eco-Tourism.

## Unit VI: Topics for Self-Study:

S.No.	Topics	Web Links
1	Current status of infrastructure sector in India	<a href="https://www.ibef.org/industry/infrastructure-sector-india.aspx#:~:text=Infrastructure%20sector%20includes%20power%2C%20bridges,Agility%20Emerging%20Markets%20Logistics%20index.">https://www.ibef.org/industry/infrastructure-sector-india.aspx#:~:text=Infrastructure%20sector%20includes%20power%2C%20bridges,Agility%20Emerging%20Markets%20Logistics%20index.</a>
2	Growth of Indian transportation system.	<a href="https://niti.gov.in/planningcommission.gov.in/docs/reports/genrep/bkpap2020/11_bg2020.pdf">https://niti.gov.in/planningcommission.gov.in/docs/reports/genrep/bkpap2020/11_bg2020.pdf</a>
3	Medical tourism in India	<a href="http://www.indiahealthcaredtourism.com/casestudy.php">http://www.indiahealthcaredtourism.com/casestudy.php</a>
4	Current status of energy sources in India	<a href="https://mnre.gov.in/solar/current-status/">https://mnre.gov.in/solar/current-status/</a>

## TEXT BOOKS:

1. Reghuram G. & Rekha Jain – Infrastructure Development and Financing, McMillan, India Ltd., 1999. (Unit – I)
2. James T. Kneafsey – Transportation Economic Analysis. (Unit – II)
3. Ashok V Desai – Energy Demand Analysis: Management and Conservation, Wiley Eastern, 1980. (Unit – III)
4. India Infrastructure Report 2001, Oxford University Press. (Unit – IV)
5. Bharia A.K. – Tourism Development: Principles and Practices, Sterling, New Delhi. (Unit – V)

## REFERENCES:

1. Choudhari R. – Economics of Public Utility, Himalaya Publishing House, 1986.
2. Kitit S. Parikh – India Development Report 2000-01, Oxford University Press, New Delhi, 2001.
3. The Institute of Rail Transport, Rail Bhavan, New Delhi – Transport Economics and Management.

**LEARNING OUTCOMES: BLOOM'S TAXONOMIC LEVELS OF TRANSACTIONS**

Unit	Course Contents	Learning Outcomes	Blooms Taxonomic levels of Transaction
<b>Unit 1</b>			
	1.1Infrastructure: Meaning importance and role in Economic Development – Major sectors of infrastructure: Transport, Energy and Communication.	<b>List</b> the importance of infrastructure in economic development and the major sectors in the infrastructure.	K1
	1.2Public utilities: Special Characteristic of public utilities – Principles and policies of pricing in public utilities – Infrastructure financing: Sources and schemes.	<b>Formulate</b> the pricing policy to charge the public utility commodities.  <b>Discuss</b> the schemes for the infrastructural financing.	K6
<b>Unit 2</b>			
	2.1Meaning & Scope of Transport Economics – Modes of transport: Road, Water, Rail and Air – Demand for transport – Models of freight and passenger – Cost functions in the transport sectors.	<b>Analyze</b> the various modes of transport for the betterment of economic growth and development.  <b>Examine</b> the demand for the transport and their cost functions.	K4
	2.2Sectoral issues in transportation: Air, Rail, Road and Ports – Multimodal transport – Integrated transport.	<b>Inspect</b> the issues in transportation.  <b>Assess</b> the multimodal transport for the development.	K4
<b>Unit 3</b>			
	3.1Energy and economic development – Major source of energy: Electrical, Petrol, Oil and Gas – Factors determining demand for energy – Effects for energy shortage.	<b>Classify</b> the various sources of energy.	K4
		<b>Justify</b> the effects of shortage in energy production.	K5
	3.2Energy conservation.	<b>Compose</b> the policies to consume energy in an effective manner.	K6
<b>Unit 4</b>			
	4.1Postal Services – Characteristics and coverage.	<b>Identify</b> the characteristics of postal services.	K3
	4.2Tele communication: Network, Telephone traffic and pricing –	<b>Inspect</b> the traffic and pricing for telephone services.	K4



	Basic services and Cellular services.		
	4.3 Computer – Internet connectivity and services – Privacy and Cybercrimes.	<b>Demonstrate</b> the cyber acts towards the cybercrimes and against the privacy in the internet services.	K2
<b>Unit 5</b>			
	5.1 Tourism and economic development – basic travel motivation – Role of State in promoting Tourism.	<b>Assess</b> the role of state in promoting the tourism.	K5
		<b>Support</b> the economic development with the help of tourism.	K5
	5.2 The organization of Tourism – Tourism development and planning – Infrastructural requirements for marketing of Tourism – Eco-Tourism.	<b>Test</b> the infrastructural requirements for marketing.	K6
		<b>Relate</b> the tourism planning with the current trend.	K1

### Mapping Scheme for the PO, PSOs and COs

Mapping	L-Low			M-Moderate			H-High							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4	
CO1	H	M	L	-	M	M	M	M	H	M	M	M	H	
CO2	H	M	L	M	L	M	M	M	H	M	M	M	H	
CO3	H	H	L	-	M	M	M	M	H	H	H	M	H	
CO4	H	H	L	-	M	M	M	M	H	H	H	M	H	
CO5	H	M	L	-	M	H	H	M	H	M	H	M	H	
CO6	H	M	L	-	M	M	M	M	H	M	H	M	H	

### COURSE ASSESSMENT METHODS

<b>Direct</b>
<ol style="list-style-type: none"> <li>1. Continuous Assessment Test I &amp; II</li> <li>2. Assignment, Group discussion, Paper presentation, Group Presentation, Project report and End Semester Examination</li> </ol>
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Course Coordinator: Mrs.S.Booma Devi