

# DEPARTMENT OF ECONOMICS

**COURSE STRUCTURE & SYLLABI**  
(For the students admitted from year 2023-2024 onwards)

**Programme : M.A. Economics**



**JAMAL MOHAMED COLLEGE (AUTONOMOUS)**  
Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0  
(Affiliated to Bharathidasan University)  
**TIRUCHIRAPPALLI – 620 020**

## M.A. ECONOMICS

Sem	Course Code	Course Category	Course Title	Ins. Hrs/Week	Credit	Marks		Total
						CIA	ESE	
<b>I</b>	23PEC1CC1	Core - I	Advanced Micro Economic Analysis - I	6	5	25	75	100
	23PEC1CC2	Core - II	Advanced Macro Economics	6	5	25	75	100
	23PEC1CC3	Core - III	Environmental Economics	6	5	25	75	100
	23PEC1CC4	Core - IV	Entrepreneurial Development	6	5	25	75	100
	23PEC1DE1A/B	Discipline Specific Elective - I		6	4	25	75	100
<b>Total</b>				<b>30</b>	<b>24</b>			<b>500</b>
<b>II</b>	23PEC2CC5	Core - V	Advanced Micro Economic Analysis - II	6	5	25	75	100
	23PEC2CC6	Core - VI	Monetary Economics	6	5	25	75	100
	23PEC2CC7	Core - VII	International Economics	6	5	25	75	100
	23PEC2CC8	Core - VIII	Evolution of Economic Thought	6	5	25	75	100
	23PEC2DE2A/B	Discipline Specific Elective - II		6	4	25	75	100
	23PCN2CO	Community Outreach	JAMCROP	-	@	-	-	@
<b>Total</b>				<b>30</b>	<b>24</b>			<b>500</b>
<b>III</b>	23PEC3CC9	Core - IX	Research Methodology	6	5	25	75	100
	23PEC3CC10	Core - X	Managerial Economics	6	5	25	75	100
	23PEC3CC11	Core - XI	Economics of Growth And Development	6	5	25	75	100
	23PEC3CC12	Core - XII (a)	Computer Applications in Economics - Theory	3	2	10	40	50
	23PEC3CC12P	Core - XII (b)	Computer Applications in Economics - Practical	3	2	10	40	50
	23PEC3DE3A/B	Discipline Specific Elective - III		6	4	25	75	100
	23PEC3EC1	Extra Credit Course - I*	Online Course	-	*	-	-	-
<b>Total</b>				<b>30</b>	<b>23</b>			<b>500</b>
<b>IV</b>	23PEC4CC13	Core - XIII	Indian Economic Development	6	6	25	75	100
	23PEC4CC14	Core - XIV	Public Finance	6	5	25	75	100
	23PEC4CC15	Core - XV	Comparative Economic Systems	6	5	25	75	100
	23PEC4DE4A/B	Discipline Specific Elective - IV		6	4	25	75	100
	23PEC4PW	Project Work	Project Work	6	4	-	100	100
	23PCNOC	Mandatory Online Course**	Online Course	-	1	-	100	100
	23PEC4EC2	Extra Credit Course - II*	Online Course	-	*	-	-	-
<b>Total</b>				<b>30</b>	<b>25</b>			<b>600</b>
<b>Grand Total</b>					<b>96</b>			<b>2100</b>

### DISCIPLINE SPECIFIC ELECTIVES

Semester	Course Code	Course Title
I	23PEC1DE1A	Mathematical Applications in Economic Analysis
	23PEC1DE1B	Financial Economics
II	23PEC2DE2A	Statistical Methods for Economic Analysis
	23PEC2DE2B	Agricultural Economics
III	23PEC3DE3A	Econometrics
	23PEC3DE3B	Personnel Management
IV	23PEC4DE4A	Industrial Economics
	23PEC4DE4B	Islamic Banking

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PEC1CC1	Core - I	6	5	25	75	100
<b>Course Title</b>		Advanced Micro Economic Analysis - I					

SYLLABUS		
Unit	Contents	Hours
<b>I</b>	<b>Demand Analysis</b> Utility Theory – Cardinal & Ordinal approach – Indifference Curve analysis and its applications – Revealed preference theory – *Hicks Revised demand theory.*	<b>18</b>
<b>II</b>	<b>Theory of Production</b> Production function - short period and long period; law of variable proportions and returns to scale; Iso – quant – least cost combination of inputs; Euler’s theorem –Technical progress and production function; Cobb-Douglas and CES production function – *Traditional and Modern theory of cost*	<b>18</b>
<b>III</b>	<b>Price – Output Determination</b> Perfect Competition – Monopoly – Price discrimination – Monopolistic competition – *Wastages of Monopolistic competition*	<b>18</b>
<b>IV</b>	<b>Oligopoly Models</b> Collusive Oligopoly and Non-Collusive Oligopoly – Cournot’s Duopoly – Bertrand’s duopoly Model – Chamberlains’ Oligopoly Model – Kinked demand Model – Stackleberg Model – Cartels – *Price leadership*	<b>18</b>
<b>V</b>	<b>Alternative Theories of the Firm and Pricing</b> Critical evaluation of Marginal analysis: Baumol’s Revenue Maximisation – Williamson’s Model of Managerial discretion – Marries Model of Managerial enterprise – Cyert and March Behavioural Model - Full cost pricing – *Bain’s limit pricing theory*	<b>18</b>
<b>VI</b>	<b>Current Trends (For CIA only) – Contemporary developments related to the course during the semester concerned.</b>	

\*.....\* Self study

<b>Text Book(s):</b>
<ol style="list-style-type: none"> <li>Ahuja H.L: Advanced Economic Theory, Micro Economic Theory, Micro economic analysis, S. Chand Company limited, 17<sup>th</sup> Edition, 2018.</li> <li>Diwiedi D.N : USB publishers distributors limited 3<sup>rd</sup> Edition, 2018</li> <li>Jhinghan M.L, Vrinda publications, 8<sup>th</sup> Edition, 2018.</li> </ol>
<b>Reference Book(s):</b>
<ol style="list-style-type: none"> <li>John Kennedy.M , Himalaya publishing house 2<sup>nd</sup> Edition, 2018</li> </ol>
<b>Web Resource(s):</b>
<ol style="list-style-type: none"> <li>www.pearsoned.co.in/dndwivedi</li> </ol>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Recognize the cardinal and ordinal approach	<b>K1,K2</b>
<b>CO2</b>	Describe theory of production	<b>K3</b>
<b>CO3</b>	Analyze the price and output determination under different market situations	<b>K4</b>
<b>CO4</b>	Validate the oligopoly models	<b>K5</b>
<b>CO5</b>	Derive ideas of theories of firm and pricing	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of Cos</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	3	2	2	2	2	3	2	3	2.4
<b>CO2</b>	2	3	2	2	3	2	2	3	2	2	2.3
<b>CO3</b>	3	2	2	2	1	2	1	3	3	2	2.1
<b>CO4</b>	1	3	2	3	2	2	2	2	2	3	2.2
<b>CO5</b>	2	2	3	2	1	3	1	2	2	2	2
<b>Mean Overall Score</b>											<b>2.2</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

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

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PEC1CC2	Core - II	6	5	25	75	100
<b>Course Title</b>		Advanced Macro Economics					

SYLLABUS		
Unit	Contents	Hours
I	<b>Classical and Keynesian Economics</b> Classical model of Full Employment: Say's law of market - Determination of Income and Employment: with saving and investment - without saving and investment and role of money and prices – Keynes criticism of Classical model – Keynesian theory of Employment – Keynesian view on involuntary unemployment – Money Wage Rigidity and *Great Depression*	18
II	<b>Theories of Consumption Function</b> *Consumption puzzle*: Kuznets's findings - Absolute Income Hypothesis-Relative Income Hypothesis - Permanent Income Hypothesis - Life cycle hypothesis.	18
III	<b>Integration of Goods and Money Markets</b> *Link Between Goods market and Money market* - IS-LM model: Goods market Equilibrium – Money market Equilibrium – Simultaneous Equilibrium on Goods market and Money market – Explaining roles of Fiscal and Monetary Policies using IS-LM Curve model.	18
IV	<b>Inflation and Business Cycle</b> Inflation: Causes – Effects – Controlling measures – Business Cycle :Features – Causes - Controlling measures – Phillips Curve – *Deflation*	18
V	<b>Modern Macro Economics</b> *Supply side Economics* – Basic Propositions of Rational Expectations Hypothesis – Main tenets of New Classical Macro Economics – Features of New Keynesian Economics.	18
VI	<b>Current Trends (For CIA only)</b> – Fiscal and Monetary policy-Inflationary trends- Economic recession-Policy prescriptions of different schools of economics.	

\*.....\* Self study

<b>Text Book(s):</b>
1. M.L Jhingan, Macro Economic Theory, Virnda publications, 12 <sup>th</sup> revised edition 2010 2. H.L.Ahuja, S.chandpublications, Macro Economics, 18 <sup>th</sup> Revised edition 2012 3. P.N.Chopra Macro Economics Kalyani Publishers 6 <sup>th</sup> Revised Edition 2014
<b>Reference Book(s):</b>
1. N. Gregory Mankiw, Economics Principles and Applications, Cengage Learning India, 1 <sup>st</sup> edition, 2009. 2.N. Gregory Mankiw Principles of Macroeconomics, Cengage Learning India, 8 <sup>th</sup> Edition 2016 3.David Romer, Advanced Macro Economics, Mc Graw – hill, 4 <sup>th</sup> Edition, 2012.
<b>Web Resource(s):</b>
1. www.yourarticlelibrary.com 2. ww.economicdiscussion.com

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Recall the Basic ideas and concepts of Different schools of Economics.	<b>K1,K2</b>
<b>CO2</b>	Apply the technical attributes of consumption function. Make use of the ISLM frame work to examine the impact of macro-Economic policies.	<b>K3</b>
<b>CO3</b>	Distinguish the demand and supply side factors causing economic instability.	<b>K4</b>
<b>CO4</b>	Evaluate the policy prescriptions of Different schools of Economics.	<b>K5</b>
<b>CO5</b>	Predict the expectations and government moves about the future economic events.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	1	3	3	1	1	2	3	2.1
<b>CO2</b>	3	3	1	1	3	2	3	1	3	3	2.3
<b>CO3</b>	2	3	1	1	3	2	2	1	2	3	2
<b>CO4</b>	3	2	1	1	2	3	2	1	1	3	1.9
<b>CO5</b>	3	3	1	2	3	2	2	1	1	3	2.1
<b>Mean Overall Score</b>											<b>2.08</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. J. Haja Mohideen**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PEC1CC3	Core - III	6	5	25	75	100
<b>Course Title</b>		Environmental Economics					

SYLLABUS		
Unit	Contents	Hours
I	<p><b>Economy and Environment Inter Linkages</b></p> <p>Economy and Environment Inter linkages: The natural environment and human economy: the Neoclassical economics perspective - The natural environment and human economy: An ecological perspective – Material Balance Principle - Effects of Economic Development on Environment – Atmospheric pollution and its effects – Marine pollution – Deforestation – Desertification – Hazardous wastes – Climate changes – Decline of Bio-diversity. *Environmental quality costs of Economic growth*</p>	18
II	<p><b>Economics of Environmental Resources</b></p> <p>Economic Efficiency: The optimal trade- off between Environmental Quality and Economic Goods - Classification of Goods - Market failure in optimal allocation of resources – Common property Resources and the economic problem – Environmental Externalities and their economic consequences - *Solutions to externality*</p>	18
III	<p><b>Economics of Environmental Regulations</b></p> <p>Liability Law: Meaning – Environmental regulation through liability laws – its advantages and disadvantages. Property rights or Coasian approach: Coase solution, its advantages and disadvantages. Emission standards: Policy tool to control pollution – Cost effectiveness of Emission Standards – *Advantages and disadvantages of Emission standards (Command and Control Approach)*</p>	18
IV	<p><b>Environmental Regulations Through Fiscal Techniques and Market Based Approach</b></p> <p>Effluent charges: Pollution control through Effluent charges – Optimal level of effluent charges – Effluent charges and pollution control technology – Advantages and disadvantages of Effluent charges. Subsidies – Comparison of Effluent charges and Subsidies. Transferable emission permits (Carbon Trade): Meaning – Working of Transferable emission– *Advantages and disadvantages of market based approach.*</p>	18
V	<p><b>Sustainable Development and Environmental Issues in India</b></p> <p>Sustainable Development: Meaning – Definitions- Component – Rules – Indicator of Sustainability – Economic instruments for promoting Sustainable Development. Sustainable Development Goals - Environmental Issues in India - Governmental Initiatives to Tackle Environmental Degradation - Challenges in Attaining SDGs for India - *The Sustainable Development Goals Report 2022*</p>	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
<ol style="list-style-type: none"> <li>1. T. Eugene: Environmental Economics, Vrinda Publications (P) Ltd, 1<sup>st</sup> Edition, 2004</li> <li>2. Ahmed Hussen: Principles of Environmental Economics, Routledge, 2<sup>nd</sup> Edition, 2004</li> <li>3. S. Sankaran: Environmental Economics, Margham Publications, 3<sup>rd</sup> Edition, 2004</li> <li>4. M. Karpagam: Environmental Economics, Sterling Publishers Private Limited, Enlarged Edition 2011</li> <li>5. N. Mani, Environmental Economics, New Century Publications, 1<sup>st</sup> Edition, 2020</li> </ol>
<b>Reference Book(s):</b>
<ol style="list-style-type: none"> <li>1. Somashekar, Ne. Thi., Development and Environmental economics, New Age International Pvt, ltd, 2<sup>nd</sup> Edition, 2019</li> <li>2. Barry C Field, Martha K. Field, Environmental Economics: An Introduction, McGraw Hill Education, 7<sup>th</sup> Edition, 2016</li> <li>3. Perman, Roger &amp; Ma, Yue &amp; Mc Gilvray, James &amp; Common, Michael, Natural Resource and Environmental Economics, Addison Wesley, 4<sup>th</sup> Edition, 2011</li> </ol>
<b>Web Resource(s):</b>
<ol style="list-style-type: none"> <li>1. <a href="http://moef.gov.in/">http://moef.gov.in/</a></li> <li>2. <a href="http://www.cpcb.nic.in/">http://www.cpcb.nic.in/</a></li> <li>3. <a href="http://www.careerlauncher.com/rbi-grade-b/">http://www.careerlauncher.com/rbi-grade-b/</a></li> <li>4. <a href="http://hdr.undp.org/">http://hdr.undp.org/</a></li> <li>5. <a href="https://sdgs.un.org/">https://sdgs.un.org/</a></li> </ol>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Understand the concepts related to Environmental Economics	<b>K1, K2</b>
CO2	Identify the global, national and local level environmental problems	<b>K3</b>
CO3	Apply environmental theories in solving environmental issues	<b>K4</b>
CO4	Explain the environmental quality and the role of stakeholders to improve the environmental quality	<b>K5</b>
CO5	Compile and prepare an environmental policy	<b>K6</b>



**Relationship Matrix:**

Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)					Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
<b>CO1</b>	3	2	2	2	1	1	3	2	2	2	2
<b>CO2</b>	2	3	3	1	1	3	3	2	2	1	2.1
<b>CO3</b>	1	3	3	3	2	2	3	3	2	3	2.5
<b>CO4</b>	2	2	2	3	2	3	3	2	3	2	2.4
<b>CO5</b>	1	3	3	2	2	1	2	3	2	2	2.1
<b>Mean Overall Score</b>											<b>2.22</b>
<b>Correlation</b>											<b>Medium</b>

Mean Overall Score	Correlation
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. Khan Mohamed**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PEC1CC4	Core - IV	6	5	25	75	100
<b>Course Title</b>		Entrepreneurial Development					

SYLLABUS		
Unit	Contents	Hours
I	<b>Basic Concepts and Functions of Entrepreneur</b> Entrepreneur: Meaning, Concept, functions and classifications– Characteristics of entrepreneur –Nature and importance of entrepreneur – types of Entrepreneur – Entrepreneurial traits – Entrepreneurial Mobility – factors affecting Entrepreneurial growth: Economic and Non-economic factors -Entrepreneurial systems – *Women entrepreneurs*	18
II	<b>Entrepreneurship and EDPs</b> Institutions for entrepreneurship development –Entrepreneurial Development Programmes (EDPs): Need– Objectives – phases and Evaluation– Motivation – Motivating factors- Achievement Motivation – *Entrepreneurial Training: objectives, Importance and Methods*	18
III	<b>Project</b> Project: Meaning, Identification, Selection, Classification, project formulation - Project Report: Significance – Project Design –Project Appraisal – Product Design – *Production Design*	18
IV	<b>Institutional Finance and Entrepreneur</b> Institutions and entrepreneurial Development: consultancy organizations, financial institutions –Development financial institutions - MSMEs – Start-up registration–DIC – *TIIC*	18
V	<b>Financial Analysis</b> Financial Analysis: Meaning – Ratio Analysis- Investment Analysis - Break Even Analysis – Profitability Analysis - Social Cost-Benefit Analysis – Quality control – Small business Technology- *Budget and Planning Process*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
1. S. S. Khanka, Entrepreneurial Development, S. Chand Publishing ,1 <sup>st</sup> edition 1999, Reprint 2010 2. Dr. C. B. Gupta & Dr. N. P. Srinivasan, Entrepreneurship Development, Sultan Chand & Sons, 6 <sup>th</sup> Edition, 1999, Reprint 2009.
<b>Reference Book(s):</b>
1. Vasanth Desai, Entrepreneurship Development, Himalaya Publishing, 1 <sup>st</sup> Edition, 2019 2. Jayshree Suresh, Entrepreneurial Development, Margham Publications, 4 <sup>th</sup> Edition, 2012
<b>Web Resource(s):</b>
1. www.yourarticlelibrary.com 2. ww.economicdiscussion.com

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Acquire knowledge about the concept and functions of Entrepreneurs	<b>K1, K2</b>
CO2	Discuss Entrepreneurial Development Programme	<b>K3</b>
CO3	Classify the project formulation and project report	<b>K4</b>
CO4	Analyse the institutional finance and Entrepreneur	<b>K5</b>
CO5	Formulate the financial analysis	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	2	2	3	3	2	2	2	2.2
<b>CO2</b>	2	2	3	3	2	2	3	2	2	2	2.3
<b>CO3</b>	2	2	2	3	2	2	2	2	2	2	2.1
<b>CO4</b>	3	2	2	1	2	2	2	2	2	2	2.0
<b>CO5</b>	3	3	2	2	3	2	2	3	2	2	2.4
<b>Mean Overall Score</b>											<b>2.2</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. J. Khader Sherief**

Semester	Course Code	Course Category	Hours/Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PEC1DE1A	DSE - I	6	4	25	75	100
<b>Course Title</b>		Mathematical Applications in Economic Analysis					

SYLLABUS		
Unit	Contents	Hours
I	<b>Straight Line</b> Straight line – two-point, Slope – Point, Intercept Slope and Two intercepts, slope point and intercept formula – Application to Demand and supply functions – equilibrium price and quantity - Quadratic equations and solution – *Break Even analysis*.	18
II	<b>Derivatives</b> Rules of differentiation – I order and II order differentiation – Application to elasticities, marginal concepts – Maxima and minima. –Maximization of profit, revenue, sales and utility-Minimization of cost - *Multi product firm*.	18
III	<b>Partial Derivatives</b> Technique of partial differentiation – Cross Elasticity - Application to production function – monopoly- Price Discrimination – duopoly – revenue, cost and profit functions (simple problems) - *multi product firm*	18
IV	<b>Integration</b> Rules of integration – Application to consumer’s surplus and producer’s surplus – costs and revenues - *elasticity of demand*.	18
V	<b>Matrices</b> Basic concepts and operations on matrices – determinants – Cramer’s rule – Matrix inverse – Input – Output analysis - * system of linear equations*.	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
<ol style="list-style-type: none"> <li>1. Mehta B.C. and Madnani G.M.K.: Mathematics for Economists, Sultan Chand &amp; Sons, 9<sup>th</sup> Edition, Reprint 2013</li> <li>2. D. Bose, An Introduction to Mathematical Methods, Himalaya Publishing House, 1<sup>st</sup> Edition, Reprint 2017</li> </ol>
<b>Reference Book(s):</b>
<ol style="list-style-type: none"> <li>1. Allen, R.G.D.: Mathematical Analysis for Economists, MacMillan and Company Limited, 4<sup>th</sup> Edition, 2015</li> <li>2. Chiang. A.C: Fundamental Methods of Mathematical Economics, McGrawhill Education, 4<sup>th</sup> Edition, 2017</li> <li>3. Yamane, Taro: Mathematics for Economists, Prentice Hall Publication, 2<sup>nd</sup> Edition, 2009</li> </ol>
<b>Web Resource(s):</b>
1. Swayam course: mathematical economics, <a href="https://swayam.gov.in/nd2_ugc19_hs41/preview">https://swayam.gov.in/nd2_ugc19_hs41/preview</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Explain straight line equation, quadratic equation, demand and supply, marginal concepts, elasticity of demand, consumer and producer surplus, input – output model.	<b>K1, K2</b>
<b>CO2</b>	Convert real time data into equation and Compute equilibrium situation mathematically.	<b>K3</b>
<b>CO3</b>	Solve equations for total to marginal and marginal to total analysis using differentiation and partial differentiation and integration.	<b>K4</b>
<b>CO4</b>	Solve and analyse problems of two products and two markets.	<b>K5</b>
<b>CO5</b>	Analyse and interpret input – output model	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	2	2	2	3	2	2	3	2	2.3
<b>CO2</b>	2	3	2	2	2	2	2	2	2	2	2.1
<b>CO3</b>	2	3	1	2	3	1	3	2	2	2	2.1
<b>CO4</b>	2	2	2	2	2	2	2	1	2	2	1.9
<b>CO5</b>	2	3	2	2	2	3	2	3	3	2	2.4
<b>Mean Overall Score</b>											<b>2.16</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. J. Mohmed Zeyavudheen**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PEC1DE1B	DSE - I	6	4	25	75	100
<b>Course Title</b>		Financial Economics					

SYLLABUS		
Unit	Contents	Hours
I	<b>Introduction</b> History, Scope and basic Concepts of financial economics – finance and financial economics - Characteristics of financial transaction – relevance of time and space, risk and reward relationship - Characteristics financial instruments – main types of financial instruments – definitional introduction - *Composition of and characteristics of financial markets*	18
II	<b>Basics of Financial Calculation</b> Compounding - Present Value and discounting - Volatility and its measurement - Rates of return, present value of returns - Annuities, their present and future values - *Basic idea of risk measurement*	18
III	<b>Interest Rates</b> Meaning and types – system – fixed and flexible, regulated and markets determined, types on the basis of time parameter- Theories of determination of interest rates - Keynesian and monetaint, interest rates and inflations rates - Term structure of interest rates, yield curve - Risk free rates - *Methods of charging interest rates, by Banks and other financial institutions*	18
IV	<b>Valuations of Financial Assets.</b> Principles of market valuations. Arbitrage and the law of one price - Accounting measures of value - Valuations of Banks - Role of information in market valuation – efficient market hypo thesis- the lemons problem - valuations under asymmetric information adverse selection - Risk and market valuation - *Basic idea of Capital Asset Pricing model*	18
V	<b>Pricing of Derivatives</b> Basic idea of derivatives - Pricing theories of futures - Pricing of options and contingent claims, Binomial method and Black - Scholars model - *Valuation of warrants and rights*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
<ol style="list-style-type: none"> <li>1. V.A. Avadhani; “Financial Economics, Theory and Practice”, Himalaya Publications, 5<sup>th</sup> Edition, 1997.</li> <li>2. Copeland, T.E and J. F. Weston, Financial theory and Corporate policy, Addison Wesley, 3<sup>rd</sup> Edition, 1992.</li> <li>3. Elton, E. J and M.J Gruber, modern Portfolio theory &amp; investment Analysis, John Wiley &amp; Sons, 4<sup>th</sup> Edition, 1991.</li> </ol>
<b>Reference Book(s):</b>
<ol style="list-style-type: none"> <li>1. Houthakker, H.S and P.J. Williamson, Economics of Financial Markets, Oxford university Press, 1996.</li> <li>2. Elton, Edwin, and Martin Gruber. Modern Portfolio Theory and Investment Analysis, 9<sup>th</sup> Edition, 2014</li> </ol>
<b>Web Resource(s):</b>
<ol style="list-style-type: none"> <li>1. www.yourarticlelibrary.com</li> <li>2. ww.economicdiscussion.com</li> </ol>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Understand basics of Financial Markets	<b>K1, K2</b>
<b>CO2</b>	Identify the Choice under Uncertainty	<b>K3</b>
<b>CO3</b>	Understand the Portfolio theories	<b>K4</b>
<b>CO4</b>	Know the basics of Asset Pricing	<b>K5</b>
<b>CO5</b>	Gain the knowledge about Efficient Market Hypothesis	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	3	1	2	2	2	3	2	3	2.3
<b>CO2</b>	2	2	2	1	3	2	2	2	2	3	2.1
<b>CO3</b>	3	2	2	2	1	2	1	3	3	2	2.1
<b>CO4</b>	1	3	2	2	2	3	2	2	2	3	2.2
<b>CO5</b>	2	2	3	2	1	3	1	2	2	2	2
<b>Mean Overall Score</b>											<b>2.14</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. M. A. Raja Mohamed**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
II	23PEC2CC5	Core - V	6	5	25	75	100
<b>Course Title</b>		Advanced Micro Economic Analysis – II					

SYLLABUS		
Unit	Contents	Hours
I	<b>Individual Behaviour under Uncertainty</b> Choice involving risk – St. Petersburg paradox and Bernoulli's Hypothesis – N-M utility index under risky situation - Attitude towards Risk – *Friedman-Savage Hypothesis*	18
II	<b>Pricing of Factors of Production</b> Functional versus Personal distribution – Marginal Productivity Theory – Modern theory of pricing of factors of production – RICARDIAN theory of income distribution – *Marxian theory of distribution*	18
III	<b>General Equilibrium Theory</b> Interdependence in the economy – The Walrasian system – Existence, uniqueness stability of equilibrium – *Static properties of a general equilibrium state*	18
IV	<b>Welfare Economics</b> Criteria of social welfare – Pareto optimality, Kaldor, Hicks and Scitovsky criterion – Maximisation of social welfare – *Welfare Maximisation and perfect competition - critique and extension*	18
V	<b>Market with Asymmetric Information</b> Introduction-The Market for Lemons Asymmetric Information and the Market failure-The Adverse Selection Measures Adopted to Solve the Problem of Adverse selection- The Insurance Market and Adverse selection. The problem of Moral Hazard- Moral Hazard and Allocative Inefficiency- Market signalling - The Principal-Agent Problem in public enterprises - *Efficiency Wage theory.*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
1. Ahuja H.L: Advanced Economic Theory, S. Chand company limited, 17 <sup>th</sup> Edition, 2018. 2. Diwiedi D.N : USB publishers distributors limited 3 <sup>rd</sup> Edition, 2018
<b>Reference Book(s):</b>
1. John Kennedy. M , Himalaya publishing house 2 <sup>nd</sup> Edition, 2018 2. Jhinghan M.L, Vrinda publications, 8 <sup>th</sup> Edition, 2018.
<b>Web Resource(s):</b>
1. www. Pearsoned.co.in/dndwivedi



<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Identify the individual behavior under uncertainty.	<b>K1,K2</b>
CO2	Discuss about pricing of factors of production	<b>K3</b>
CO3	Demonstrate Walrasian general equilibrium theory	<b>K4</b>
CO4	Examine Pareto optimality conditions in welfare economics.	<b>K5</b>
CO5	Interpret market with asymmetric information.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	3	1	2	2	2	3	2	3	2.3
<b>CO2</b>	2	2	2	1	3	2	2	2	2	3	2.1
<b>CO3</b>	3	2	2	2	1	2	1	3	3	2	2.1
<b>CO4</b>	1	3	2	2	2	3	2	2	2	3	2.2
<b>CO5</b>	2	2	3	2	1	3	1	2	2	2	2
<b>Mean Overall Score</b>											<b>2.14</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

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

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
II	23PEC2CC6	Core - VI	6	5	25	75	100
<b>Course Title</b>		Monetary Economics					

SYLLABUS		
Unit	Contents	Hours
I	<b>Money and Prices</b> Quantity theory of money – *Value of Money and Price level* - Quantity theory of money - Friedman’s Cash Transaction Approach – Cash Balance Approach – Keynes Reformulated Quantity theory of money -Friedman’s restatement of Quantity theory of money.	18
II	<b>Keynesian and Post Keynesian Theories of Demand for Money</b> *Keynes Liquidity preference approach* – Real Balance effect - Baumol’s theory of inventory approach - Tobin’s Risk aversion theory	18
III	<b>Monetarist Revolution</b> Key propositions of Monetarism – Theoretical and Policy differences between Monetarism and Keynesianism-*Criticism of Monetarism*.	18
IV	<b>Money Supply</b> *The Concept of money supply and its measurement* - Determinants of money supply – Factors determining Money supply: RBI’s Approach - Budget deficits and money supply – Money supply and Open Economy – Central Bank’s sterilization Operation	18
V	<b>Monetary Policy</b> *Objectives of Monetary policy* - Qualitative and Quantitative tools of Monetary policy- Expansionary and Restrictive Monetary policies: Keynesian view – Monetarist view	18
VI	<b>Current Trends (For CIA only)</b> – Changes in Money supply-Fiscal deficit-Monetary policy-Repo, Reverse Repo, CRR and SLR	

\*.....\* Self study

<b>Text Book(s):</b>
<ol style="list-style-type: none"> <li>1. M.L Seth, Monetary Economics, Lakshmi Narain Agarwal, 15<sup>th</sup> Revised Edition 2018</li> <li>2. M.L Jhingan, Macro Economic Theory, Vrinda publications, 12<sup>th</sup> revised edition 2010</li> <li>3. P.N. Chopra Macro Economics Kalyani Publishers 6<sup>th</sup> Revised Edition 2014</li> <li>4. M.L. Jhingan Monetary Economics Vrinda Publications 6<sup>th</sup> Edition 2010</li> </ol>
<b>Reference Book(s):</b>
<ol style="list-style-type: none"> <li>1. Keith Bain and Peter Howells, Monetary Economics, Paul Graw Mac Millen, 1<sup>st</sup> Edition 2003</li> <li>2. R.D. Gupta &amp; R.K Lekhi Keynes Post Keynesian Economics Kalyani Publishers Revised Edition 2013</li> <li>3. Piecire and Tyson, Monetary Economics Butterwort and Co Ltd 1<sup>st</sup> Edition 1985.</li> </ol>
<b>Web Resource(s):</b>
<ol style="list-style-type: none"> <li>1. www.yourarticlelibrary.com</li> <li>2. ww.economicdiscussion.com</li> </ol>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Recall the basic concepts of Money and Monetary Policy. Relate the money supply with price level and value of money	<b>K1,K2</b>
<b>CO2</b>	Apply the Quantitative and Qualitative tools to analyse the inflationary trends.	<b>K3</b>
<b>CO3</b>	Compare the policy differences between monetarism and Keynesianism	<b>K4</b>
<b>CO4</b>	Explain the relationship between money supply and Bop and Budget deficits. Evaluate the Central Bank's sterilization Operation in managing money supply.	<b>K5</b>
<b>CO5</b>	Discuss the Optimum Portfolio model by using Tobin and Boumol Approaches.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	1	1	2	1	3	2	3	1	1.9
<b>CO2</b>	3	3	1	1	3	1	3	2	3	1	2.1
<b>CO3</b>	2	2	1	1	1	3	3	1	1	3	1.8
<b>CO4</b>	3	3	2	1	3	2	3	1	2	3	2.3
<b>CO5</b>	3	3	2	1	3	3	2	3	2	1	2.3
<b>Mean Overall Score</b>											<b>2.08</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A.J. Haja Mohideen**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
II	23PEC2CC7	Core - VII	6	5	25	75	100
<b>Course Title</b>		International Economics					

SYLLABUS		
Unit	Contents	Hours
I	<b>Introduction and Theories</b> International Economics – Scope - International Trade- *importance*-arguments for and against - Factor Price Equalization Theorem - International Product Life Cycle Theory, Theory of Technological Gap	18
II	<b>Measuring the Gains of Trade</b> Concepts of terms of trade - unfavourable trend in terms of trade for developing countries–Partial and *General Equilibrium Analyses*. Effects of tariffs under partial equilibrium - Non-tariff barriers to trade. (Observation Record of Volume, Composition and Direction of Export and Imports of India)	18
III	<b>Balance of Payment</b> Balance of Trade - Balance of Payments - Components – Measuring Deficit or Surplus - Process of Adjustment through Exchange Rate Depreciation – Devaluation and *BOP Adjustment* - J-Curve Effect.(Observation Record of Components of Balance of Payment of India)	18
IV	<b>International Monetary System</b> Bretton Woods Monetary System- Emergence and Collapse. International Liquidity and Reserves – Nature, Size and Distribution- *Reasons for Shortage*. International Capital Movements –Influencing Factors – Foreign Direct Investment - Case for and against. Foreign Portfolio Investment - Case for and against.	18
V	<b>International Institutions</b> IMF, IBRD, UNCTAD and WTO – Origin, Objectives, Functions and Organizational Structure - Developments in Foreign Exchange Markets, Euro-Currency Markets, and *International Bond Markets* - International Debt Crisis.	18
VI	<b>Current Trends (For CIA only) – Country Groups - G77, G8 and G20</b>	

\*.....\* Self study

<b>Text Book(s):</b>
1. M.L. Jhingan, International Economics, Vrinda Pub (P) Ltd. 7th Edition, 2016 & 2022 Reprint 2. K.C. Rana & K.N. Verma, International Economics, Vishal Publishing Co. 5 <sup>th</sup> Edition, Reprint 2017 3.H L Bhatia, International Economics, Vikas Pub. House Pvt. Ltd, 1 <sup>st</sup> Edition, 2011
<b>Reference Book(s):</b>
1. Charles P Kindleberger and Peter Lindert, International Economics, A.I.T.B.S. Publishers, 8 <sup>th</sup> Edition, 2004 2. Paul Krugman, Maurice Obstfeld, Marc Melitz, International Economics: Theory and Policy, Pearson, 10 <sup>th</sup> Edn, 2017
<b>Web Resource(s):</b>
1. <a href="http://www.yourarticlelibrary.com">www.yourarticlelibrary.com</a> 2. <a href="http://www.economicdiscussion.com">www.economicdiscussion.com</a> 3. <a href="http://www.rbi.org.in">www.rbi.org.in</a> , <a href="http://www.imf.org">www.imf.org</a> , <a href="http://www.ibrd.orn">www.ibrd.orn</a> , <a href="http://www.wto.org">www.wto.org</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Remember concepts used to understand the causes for and effects of international trade	<b>K1,K2</b>
<b>CO2</b>	Explain H-O and Post H-O theories of international trade	<b>K3</b>
<b>CO3</b>	Apply terms of trade to assess the trade situation of developing countries	<b>K4</b>
<b>CO4</b>	Distinguish BOT from BOP, Partial from General equilibria, FDI from FPI	<b>K5</b>
<b>CO5</b>	Evaluate the effects of tariff, devaluation and international debt	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	1	2	3	2	3	2	2	2	2	2	2.1
<b>CO2</b>	2	1	3	2	2	2	2	2	3	2	2.1
<b>CO3</b>	1	1	3	2	2	2	3	2	2	3	2.1
<b>CO4</b>	2	2	2	3	2	2	3	3	3	2	2.4
<b>CO5</b>	2	1	3	2	2	3	3	2	2	2	2.2
<b>Mean Overall Score</b>											<b>2.1</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. Hidhayathulla**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
II	23PEC2CC8	Core - VIII	6	5	25	75	100
<b>Course Title</b>		Evolution of Economic Thought					

SYLLABUS		
Unit	Contents	Hours
I	<p><b>Ancient Economic Thought</b> Characteristic features and Significance of ancient economic thought – Contributions of early thinkers: Characteristics of Hebrew economic thought - Greek economic thought: Plato’s thoughts – Aristotle’s economic ideas – Xenophon’s thoughts – Contributions of the Greek stoics and epicureans – Features of the Greek thought - Contributions of Roman thinkers – roman jurists’ views - Economic thought in ancient India: Chief characteristics of ancient Indian economic thought. Economic ideas of Kautilya’s Arthashastra – *Economic ideas of Thiruvalluvar*.</p>	18
II	<p><b>Medieval and Pre- Classical Thought</b> Characteristics of Early Medieval Social Order - Characteristics of Later Medieval Society – St. Thomas Aquinas Views - Nicole Orsme’s ideas – Contribution of early Muslim Scholars to Economic Thought: Abu Yusuf, Gazali, Ibn Themiah, and Ibn Khaldun - Economic Thought in Medieval India. <b>Pre-Classical Economic Thought</b> Mercantilism: Factors, Concepts of Mercantilism, Thomas Mun, Criticism of Mercantilism - Physiocracy: Factors, Ideas of Physiocrats – Quesnay – Tableau Economique – *Critical Estimate*.</p>	18
III	<p><b>Classical Economic Thought</b> Classical Economic Doctrines: Individualism – Harmony of Interests – Liberalism – Free Trade – Full Employment - Classical Objectivism - *Deductive Analysis*.</p>	18
IV	<p><b>Reactions against Classicism – I</b> <b>The Nationalistic Critics:</b> Adam Heinrich Muller – Friedrich List – *Critical assessment of National School*. <b>The German Historical Critics</b> Circumstances leading to Historical School- Characteristics of Older Historical School: Wilhelm Roscher – Bruno Hildebrand – Karl Knies – Characteristics, Critical ideas of Younger Historical School: Gustav Schmoller – *Werner Sombart– Positive ideas and Estimate of Historical School*. <b>Institutionalism</b> Institutionalism and Classism – Characteristic features of Institutionalism – Economic ideas of Veblen.</p>	18
V	<p><b>Reactions against Classicism – II</b> <b>The Socialistic Critics</b> Evolution of Social Thought – Early socialists: St. Simon – Sismondi – Utopian Socialists: Robert Owen – *State Socialists: Karl Rodbertus* – Scientific Socialists: Karl Marx. <b>The Subjectivism and Marginalism</b> Factors giving rise to Subjectivism or Marginalism – Basic ideas of Marginalism – Hermann Heinrich Gossen – *William Stanley Jevons*. <b>The Keynesian Revolution</b> Keynesian under Employment Equilibrium – Role of Government – Keynes and Classical Economists.</p>	18
VI	<p><b>Current Trends (For CIA only) – The role of banks in the economy, particularly during financial crises by the Noble laureates Ben Bernanke, Douglas Diamond and Philip Dybvig (2022),</b></p>	

\*.....\* Self study

<b>Text Book(s):</b>
1. T.N. Hajela, History of Economic Thought, Ane Books Pvt. Ltd, 17 <sup>th</sup> Edition 2008. 2. V. Lokanathan, A History of Economic Thought, S. Chand & Company Ltd, New Delhi, 9 <sup>th</sup> Revised Edition, Reprint 2010. 3. Dr. U.C. Kulshrestha, History of Economic Thought, Lakshmi Narain Agarwal, Agra, 13 <sup>th</sup> Edition 2019. 5. E.K. Hunt Mark Lautzenheiser, History of Economic Thought A Critical Perspective, PHI Learning Plt., New Delhi, 3 <sup>rd</sup> Edition 2011.
<b>Reference Book(s):</b>
1. Eric Roll Baron Roll of Ipsden, A History of Economic Thought, Faber & Faber, 1 <sup>st</sup> Edition, 1992. 2. E.K.Hunt Mark Lautzenheiser, History of Economic Thought A Critical Perspective, PHI Learning Plt., New Delhi, 3 <sup>rd</sup> Edition 2011 3. Sankaran, History of Economic Thought, Margham Publications, Chennai, Revised Edition, 2020. 4. Abul Hassan M. Sadeq and Aidit Ghazali, Readings in Islamic Economic Thought, Islamic Foundation Bangladesh, Dhaka, 1 <sup>st</sup> Edition, 2006.
<b>Web Resource(s):</b>
1. <a href="https://stacks.stanford.edu/file/druid:jh263kk9829/stedman_jones.pdf">https://stacks.stanford.edu/file/druid:jh263kk9829/stedman_jones.pdf</a> 2. <a href="https://www.libertarianism.org/topics/natural-harmony-interests">https://www.libertarianism.org/topics/natural-harmony-interests</a> 3. <a href="https://philosophyterms.com/objectivism/">https://philosophyterms.com/objectivism/</a> 4. <a href="https://www.nobelprize.org/uploads/2022/10/popular-economicsciencesprize2022.pdf">https://www.nobelprize.org/uploads/2022/10/popular-economicsciencesprize2022.pdf</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Understand the origins of economic thought in the ancient world including the scholastics and the emergence of ancient India.	<b>K1,K2</b>
CO2	Demonstrate the links between the development of Islamic Economic System, Mercantilist and Physiocracy.	<b>K3</b>
CO3	Analyze the development of Classical Economic Doctrines.	<b>K4</b>
CO4	Evaluate the perspectives of Nationalism, Institutionalism and Historical School.	<b>K5</b>
CO5	Estimate the historical context of the Socialism, Marginalism and Keynesianism, which have challenged mainstream doctrines.	<b>K6</b>

### Relationship Matrix:

Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)					Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
<b>CO1</b>	2	1	3	2	3	2	2	2	2	3	2.4
<b>CO2</b>	2	1	3	2	2	2	2	2	3	2	2.4
<b>CO3</b>	2	1	3	2	2	2	3	2	2	3	2.3
<b>CO4</b>	2	1	3	2	2	3	2	3	2	2	2.4
<b>CO5</b>	2	1	3	2	2	3	3	2	2	2	2.3
<b>Mean Overall Score</b>											<b>2.4</b>
<b>Correlation</b>											<b>Medium</b>

Mean Overall Score	Correlation
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. B. Mohamed Rafeeq**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
II	23PEC2DE2A	DSE - II	6	4	25	75	100
<b>Course Title</b>		Statistical Methods for Economic Analysis					

SYLLABUS		
Unit	Contents	Hours
I	<b>Measures of Central Tendency</b> Meaning of average – Types of average: arithmetic mean (for raw data, ungrouped frequency distribution and grouped frequency distribution), median (for raw data, ungrouped frequency distribution and grouped frequency distribution), mode (for raw data, ungrouped frequency distribution and grouped frequency distribution), Geometric mean, Harmonic Mean– quartiles– *deciles – percentiles*.	18
II	<b>Dispersion</b> Meaning of dispersion – types of dispersion: range, quartile deviation, mean deviation, Standard Deviation and Variance – coefficient of variation – combined standard deviation – *Lorenz curve*.	18
III	<b>Correlation and Regression</b> Concept of correlation – types of correlation –simple correlation – Karl Pearson’s coefficient of correlation – partial correlation – multiple correlation – Spearman’s rank correlation coefficient – properties and uses of correlation. Meaning of regression – simple and multiple linear regression – properties of regression coefficients – *coefficient of determination*.	18
IV	<b>Sampling</b> Population and sample- Parameter and statistic- (Census method and sampling method of Data collection); Objects of Sampling- Methods of Sampling- Random and Non- Random; Techniques of sampling under each method- Sampling Error and Non-Sampling Error-*Sampling distribution of a Statistic*.	18
V	<b>Testing of Hypothesis</b> Formulation of Statistical Hypothesis; Testing of Hypothesis-Null Hypothesis and Alternative Hypothesis-Stages in Hypothesis testing-Types of Error in Hypothesis testing- Type I error and Type II error-Level of Significance and confidence coefficient-Critical region or rejection region; Two tailed test and one-Tailed Test; Computation of Test statistic and significance Test-small sample test-‘t’ Test- $\chi^2$ test- F test; Large sample test- Z test; *Analysis of Variance*.	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
1. S.P. Gupta: Statistical Methods, Sultan Chand & Sons, 37 <sup>th</sup> Edition, Reprint 2017
<b>Reference Book(s):</b>
1. D.N. Elhance & Veena Elhance, Fundamentals of Statistics, Kitab Mahal; New Revised edition, 2018
2. N. Das, Statistical Methods (Combined edition volume 1 & 2), McGraw Hill Education; 1st edition, 2017
3. David R. Anderson (Author), Dennis J. Sweeney (Author), Thomas A. Williams (Author), et. al. Statistics for Business & Economics, Cengage India Private Limited; 13th edition, 2019
<b>Web Resource(s):</b>
1. <a href="http://www.yourarticlelibrary.com">www.yourarticlelibrary.com</a>
2. <a href="http://ww.economicdiscussion.com">ww.economicdiscussion.com</a>



<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
<b>CO1</b>	Explain scale, nominal and ordinal data, measures of central tendency, dispersion, simple partial and multiple correlation, simple and multiple regression, sample, population, one tail two tail tests, null and alternative hypothesis.	<b>K1 , K2</b>
<b>CO2</b>	Compute various types of averages.	<b>K3</b>
<b>CO3</b>	Solve various types of dispersion tools	<b>K4</b>
<b>CO4</b>	Analyse correlation and regression	<b>K5</b>
<b>CO5</b>	Analyse and interpret the testing of hypothesis	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	1	3	2	3	2	2	2	2	2.2
<b>CO2</b>	2	2	1	2	2	2	1	2	1	2	1.7
<b>CO3</b>	2	2	1	2	2	1	2	2	3	1	1.8
<b>CO4</b>	3	3	1	2	3	2	1	3	3	2	2.3
<b>CO5</b>	2	2	2	2	2	2	3	2	2	2	2.1
<b>Mean Overall Score</b>											<b>2.02</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. J. Mohamed Zeyavudheen**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
II	23PEC2DE2B	DSE - II	6	4	25	75	100

<b>Course Title</b>	Agricultural Economics
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SYLLABUS		
Unit	Contents	Hours
I	<b>Introduction to Agricultural Economics</b> Definition – scope – nature – need for separate study of agricultural economics farm organisation – peasant farming, capitalist farming, state farming, collective farming, *co- operative farming*	18
II	<b>Risk and Uncertainty in Agriculture</b> Meaning of risk and uncertainty – types of uncertainty in agriculture – measures for meeting risk and uncertainty – instability of agriculture-Types of instability, *Price instability measures for reducing instability of agriculture*	18
III	<b>Agriculture Price Policy &amp; Agriculture Market</b> Introduction, objectives of agriculture price policy –agricultural price policy in India – CACP - need for an efficient system of agricultural marketing, *Types of agricultural markets*	18
IV	<b>Agricultural Credit</b> Agricultural Credit: Need for agricultural credit - sources of agricultural credit: Institutional credit: Cooperative Credit Societies – Commercial Banks – Regional Rural Banks (RRBs) – NABARD. Kissan Credit Cards. Non-institutional credit: *Money lenders – relatives –traders – commission agents – landlords*	18
V	<b>Farm Management</b> Meaning of farm management- Types of farm management analysis-Farm Planning Budgeting - Liner programming - Agricultural price policy- Cob-Web *Model - Capital formation in agriculture*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self study

<b>Text Book(s):</b>
1. Sankaran, S, “Indian Economy” Margham Publications, Chennai, 2010. 2. Subba Reddy, S. Raghu Ram, P. Neelakanda sastry, T.V, and Bhavani Devi,I., “Agricultural Economics”, Oxford & IBH publishing company Pvt. Ltd, New Delhi. 3. Soni, R.N., “Leading Issues in Agricultural Economics”, Ninth Edition, Vishal Publishing Company, Jalandhar, 2009.
<b>Reference Book(s):</b>
1. Fernandis, W.S., “Agricultural Trade and Practices in India”, First Edition, Arise Publishers and Distributers, New Delhi, 2008. 2. Gaurav Datt and Ashwani Maharajan “Indian Economy”, Fifty Fifth Revised Edition, S. Chand & Co. Ltd., New Delhi, 2012. 3. Mamoria, C.B. and Tripathi, B.B., “Agricultural Problems of India”, Kitab Mahal,Allahabad, 2005. 4. Misra. S.K. and Puri. V.K., “Indian Economy”, Himalaya Publishing House, Mumbai,2011.
<b>Web Resource(s):</b>
1. <a href="https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11">https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=11</a>

Course Outcomes		
Upon successful completion of this course, the student will be able to:		
CO No.	CO Statement	Cognitive Level (K-Level)
CO1	Explain the concepts related to agricultural Economics	K1,K2
CO2	Identify the importance of agriculture to the development of an economy	K3
CO3	Analyse the agricultural problems and solutions for it	K4
CO4	Evaluate the farm management Process	K5
CO5	Suggest measures to solve the agricultural crisis by doing empirical research	K6

**Relationship Matrix:**

Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)					Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	1	3	2	3	2	2	2	2	3	2.4
CO2	2	1	3	2	2	2	2	2	3	2	2.4
CO3	2	1	3	2	2	2	3	2	2	3	2.3
CO4	2	1	3	2	2	3	2	3	2	2	2.4
CO5	2	1	3	2	2	3	3	2	2	2	2.3
<b>Mean Overall Score</b>											<b>2.4</b>
<b>Correlation</b>											<b>Medium</b>

Mean Overall Score	Correlation
< 1.5	Low
$\geq 1.5$ and < 2.5	Medium
$\geq 2.5$	High

**Course Coordinator: Dr. J. Khader Sharief**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3CC9	Core - IX	6	5	25	75	100
<b>Course Title</b>		Research Methodology					

SYLLABUS		
Unit	Contents	Hours
I	<b>Research in Economics</b> Nature of Social Science Research – Research Methods in Social Science – Research Methods in Economics - Formulating the problem- Types and Sources of Hypothesis – Characteristics of a Good hypothesis- Steps in preparing a Research Design - Components and types of research design	18
II	<b>Hypothesis</b> Nature and meaning – Origin of Hypothesis – Functions of Hypothesis – Sources of Hypothesis – Types of Hypothesis –Formulation of Hypothesis – Problems in Formulating Hypothesis – Criteria for Judging Hypothesis – Verification of Hypothesis – Proof of Hypothesis – Role of Hypothesis in Social Science Research	18
III	<b>Methods of Research</b> Scientific Method – Definition of Scientific Method -Assumptions, characteristics and components of Scientific Method –Steps in Scientific Method – Problems and difficulties of Scientific Method - Essentials of Good Scientific Method; Historical Research – Necessary conditions for Historical Research; Case study Method – Characteristics of Case study Method	18
IV	<b>Data Collection</b> Collection of data – sources and methods- Presentation of results – Format of a Report Data collection; Primary and Secondary data; census and survey methods of data collection- Tools of data collection; schedule and questionnaire. Sampling; Need, types, Probability sampling, random, systematic, stratified, multistage or cluster sampling, non-probability sampling; Purposive Judgment, quota and snowball sampling	18
V	<b>Report Writing</b> Meaning and purpose of research report– Structure of research report - contents of a report – format of research report – qualities of good research report – Planning of the report – Organization of a report – Presentation of a report- Evaluation of Report. *Research Ethics – Plagiarism* - Preparation of Project Proposals	18
VI	<b>Current Trends * (For CIA only)</b> – Contemporary developments related to the course during the semester concerned.	

\*.....\* Self Study

<b>Text Book(s):</b>
1. C.R. Kothari, Research Methodology Vikas publishing House, New Delhi, 2002 2. Goode W. J and Hatt, Methods in Social Research, Mcgraw Hill Book Co, Tokyo, 1952
<b>Reference Book(s):</b>
1. Young, Pauline V., Scientific Social Surveys and Research, 4th Edition, Prentice Hall of India, 1977 2. Bryman, Alan, Social research methods, 4th Edition, Oxford University Press, 2008 3. Patton, M.Q., Qualitative Research and Evaluation Methods, 3rd Edition Sage Publications, 2002
<b>Web Resource(s):</b>
1. www.socialresearchmethods.net 2. www.ualberta.ca

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Remember research methods needed to conduct research in economics	<b>K1,K2</b>
CO2	Demonstrate collection and processing of data for research in Economics	<b>K3</b>
CO3	Utilise procedures for data analytical tools needed research in Economics	<b>K4</b>
CO4	Evaluate and interpret survey and sample data results	<b>K5</b>
CO5	Write project proposals	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	3	2	2	2	2	3	2	3	2.4
<b>CO2</b>	2	3	2	2	3	2	2	3	2	2	2.3
<b>CO3</b>	3	2	2	2	1	2	1	3	3	2	2.1
<b>CO4</b>	1	3	2	3	2	2	2	2	2	3	2.2
<b>CO5</b>	2	2	3	2	1	3	3	2	2	2	2.2
<b>Mean Overall Score</b>											<b>2.2</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. Hidayathulla**

Semester	Course Code	Course Category	Hours/Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3CC10	Core - X	6	5	25	75	100
<b>Course Title</b>		Managerial Economics					

SYLLABUS		
Unit	Contents	Hours
I	<b>Nature and Significance of Managerial Economics</b> Managerial Economics: Meaning, Nature and Scope, Salient Features and Significance of Managerial Economics – Integration of Economics Decision in Science and Business Management. – Role of a Managerial Economist - * Responsibilities of a Managerial Economist*	18
II	<b>Demand Forecasting</b> Demand forecasting: Meaning and Concept – Factors involved in demand forecasting – Purposes of Forecasting: Short-term forecasting and Long-term forecasting. Determinants of demand forecast: Non-durable consumer goods, durable consumer goods and Capital goods. Methods of forecasting: Survey of Buyers’ intentions – Collective Opinion – Trend Projections – Economic Indicators (Theoretical explanation only) – controlled experiments. Forecasting demand for new products – *Criteria of a good forecasting method*	18
III	<b>Pricing Methods, Profit Policies</b> Full Cost Pricing – Target Pricing – Marginal Cost Pricing – Going Rate Pricing – Customary Prices – Limit Pricing. Profit Maximisation – Reasons – Alternative Profit Policies – Aims of Profit Policies – Break-Even Analysis – assumptions – Limitations – *Importance of Profit Policies*	18
IV	<b>Production Function and Capital Management</b> Production function: concept - short run analysis of production function – Law of variable proportions - three stage of production. Capital Management: Capital Budgeting – Meaning – Need – Determining the size of the capital budget – Apprising project profitability: Accounting Rate of Return – Internal Rate of Return – *Net Present Value*	18
V	<b>Input-Output Analysis</b> Input-Output Analysis: Meaning - Features – Assumptions – Types and Components of Input-Output model - Input-Output Framework - Uses of Input-Output Analysis - *Limitation of Input-Output Analysis*	18
VI	<b>Current Trends *(For CIA only)</b> – Contemporary developments related to managerial economics during the semester concerned.	

\*.....\* Self Study

<b>Text Book(s):</b>
1. P. L. Metha: Managerial Economics, Sultan Chand & Sons, 2016 2. M.L. Jhingan: A Text Book on Managerial Economics, Vrinda Publications (P) Ltd, 2017 3. D.Gopalakrishna : A Study of Managerial Economics, Himalaya Publishing House, 2017
<b>Reference Book(s):</b>
1. Managerial Economics, E Narayana Nadar and S. Vijayan, PHI learning Private Ltd., 2016 2. Managerial Economics, Indian Edition, Christopher R. Thomas and S. Charles Maurice, Tata mcgraw hill, 2015.
<b>Web Resource(s):</b>
1. <a href="https://www.coursera.org/courses?query=managerial%20economics">https://www.coursera.org/courses?query=managerial%20economics</a> 2. <a href="https://www.classcentral.com/course/swayam-introduction-to-managerial-economics-14155">https://www.classcentral.com/course/swayam-introduction-to-managerial-economics-14155</a> 3. <a href="https://www.udemy.com/course/introduction-to-managerial-economics/">https://www.udemy.com/course/introduction-to-managerial-economics/</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Understand the subject matter of managerial economics out of micro economic analysis	<b>K1,K2</b>
CO2	Forecast the demand using appropriate techniques	<b>K3</b>
CO3	Distinguish the pricing strategies	<b>K4</b>
CO4	Critically analyse the production function	<b>K5</b>
CO5	Apply capital budgeting techniques in real time business	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	2	1	1	3	2	2	2	2.0
<b>CO2</b>	2	3	3	1	1	2	3	2	2	1	2.0
<b>CO3</b>	1	2	2	3	2	2	2	3	2	3	2.2
<b>CO4</b>	2	2	2	2	2	3	2	2	3	2	2.2
<b>CO5</b>	1	3	3	2	2	1	2	3	2	2	2.1
<b>Mean Overall Score</b>											<b>2.14</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. K. N. Mohamed Fazil**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3CC11	Core - XI	6	5	25	75	100
<b>Course Title</b>		Economics of Growth and Development					

SYLLABUS		
Unit	Contents	Hours
I	<b>Theories of Development – I</b> Adam Smith’s theory – David Ricardo’s theory – Mill’s theory – Malthus theory - Karl Marx’s theory – Schumpeter’s theory – *Keynes’ views on development*	18
II	<b>Theories of Development – II</b> Balanced and Unbalanced growth theories - Big push theory – Leibenstein’s Theory of Critical Minimum Effort, *Nelson’s theory* - Rostow’s growth theory - Kremer’s O-Ring theory of development	18
III	<b>Theories of Development – III</b> Nurkse theory - Utilization of surplus man power theories: Lewis theory- Fei-Ranis theory– *Harris- Todaro model*	18
IV	<b>Models of Economic Growth – I</b> Harrod-Domar Model, Joan Robinson Model, *Meade Model*, Solow Model - Krugman’s theory	18
V	<b>Models of Economic Growth – II</b> Kaldor Model of distribution, Romer’s endogenous growth model, Jorgenson model –Amartya Sen's capability theory approach - *Passinetti Model*	18
VI	<b>Current Trends * (For CIA only) – Contemporary theories of development and growth</b>	

\*.....\* Self Study

<b>Text Book(s):</b>
1. Jhingan M.L. Jhingan B K.,2019 The Economics of Development and Planning.,42 ed.,Vrinda Publications 2. Agrawal, A.N., Indian Economy: Problems of Development and Planning
<b>Reference Book(s):</b>
1. Michael P. Todaro and Stephen C. Smith (2004), Economic Development, Pearson Education, Singapore cha- 2, 6,7, 8. 2. Yujiro Hayami (2003), Development Economics: Oxford University Press, New Delhi. Tamilnadu State Council for Higher Education 17. 3. Debraj Ray (2009), Development Economics, Oxford University Press, New Delhi.
<b>Web Resource(s):</b>
1. NPTEL Course: Economic Growth and Development by Prof. Rajshree Bedamatta, IIT Guwahati, <a href="https://onlinecourses.nptel.ac.in/noc22_hs16/preview">https://onlinecourses.nptel.ac.in/noc22_hs16/preview</a> 2. Online Course on Development Economics, Marginal Revolution University, <a href="https://mru.org/development-economics">https://mru.org/development-economics</a> 3. MIT OpenCourseWare on Development Economics, Massachusetts Institute of Technology, <a href="https://ocw.mit.edu/courses/14-772-development-economics-macroeconomics-spring-2013/">https://ocw.mit.edu/courses/14-772-development-economics-macroeconomics-spring-2013/</a>



<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Describe the process of economic development under Classical and Keynesian thought.	<b>K1, k2</b>
CO2	Evaluate the theories of Economic Development relevance to third world countries (Labour abundant countries).	<b>K3</b>
CO3	Examine the theories of Economic growth with due importance to capital.	<b>K4</b>
CO4	Distinguish the strategies of economic growth and development.	<b>K5</b>
CO5	Formulate new strategies for economic development.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	3	2	2	2	2	3	2	3	2.4
<b>CO2</b>	2	3	2	2	3	2	2	3	2	2	2.3
<b>CO3</b>	3	2	2	2	1	2	1	3	3	2	2.1
<b>CO4</b>	1	3	2	3	2	2	2	2	2	3	2.2
<b>CO5</b>	2	2	3	2	1	3	3	2	2	2	2.2
<b>Mean Overall Score</b>											<b>2.2</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Mr. A. M. Z. Mohammed Arsath Ali**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3CC12	Core – XII (a)	3	2	10	40	50
<b>Course Title</b>		Computer Applications in Economics – Theory					

SYLLABUS		
Unit	Contents	Hours
I	<b>MS Office: Word, Power Point, OneNote and Outlook</b> Components of MS Office - MS Word - Features –Home, Insert, Page layout, References, Mailings, Review View and Table Design menus - MS Power Point: Features – Formatting Chart, Font, Slide Design – Animation scheme – slide show- MS OneNote – MS Outlook.	9
II	<b>MS Office: Excel</b> Features-Spreadsheets- meaning and purpose – Tool bars - Formula Bar :INDEX, IF AND, IF OR, SUMIF and CONCATENATE formula – Sorting and Filtering – Charts : Conditional Doughnut Progress Chart, Interactive Waterfall Chart, Variance on Clustered Charts and Stacked Bar with Dynamic Data Labels – Pivot table – Vlookup, Hlookup - Data Analysis: Estimation of Descriptive Statistics, Demand function and Supply function - Data Simulation -Time Series Analysis.	9
III	<b>Data Analysis Using SPSS</b> General Features and Uses of SPSS - Naming variables - Coding and Recoding of data - Arithmetic calculations with in variables- Descriptive Statistics: Frequencies, Descriptive, Explore, Cross Tabulation - Compare Means: One Sample T- test, Independent Sample T – test, Paired Sample T test, One way ANOVA – Correlation : Bivariate and Partial - Regression : SLR and MLR.	9
IV	<b>Computer Application in Economics – I</b> Demand Estimation and Elasticity: Calculate Price and Income Elasticity of Demand - Estimation of Cobb Douglas and CES production function, Tronslog production function - Curve fitting: Quadratic curve estimation, Pareto curve power model, Philips curve inverse model and Engel curve.	9
V	<b>Computer Application in Economics – II</b> Time series, Forecasting and growth rates – Cost and Revenue functions – Logistic Curve Estimation, Quadratic Cost Curve Estimation, Cubic Cost Curve Estimation - Break-Even Analysis- Profit Maximisation – Discriminant analysis.	9
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments of computer applications in economics	

\*.....\* Self Study

<b>Text Book(s):</b>
1.S.V.SrinivasaVallabhan, Computer Applications in Business, Sultan Chand & Sons, New Delhi, 3 <sup>rd</sup> Edition,Reprint, 2011
2.Dr.K.Dhanasekaran, Computer Applications in Economics, Vrinda Publications (P) Ltd, Delhi, 1 <sup>st</sup> Edition 2010.
<b>Reference Book(s):</b>
1.Eric L.Etinspruch, An Intermediate Guide to SPSS for Windows, SAGE Publications,Inc,New Delhi,2 <sup>nd</sup> Edition, 2005.
2. Sanjay Saxena, MS Office 2007 in A Nutshell, Vikas Publishing, Noida, Revised Edition, 2011.
3.James B.Cunningham& James O. Aldrich, Using SPSS An Interactive Hands-On Approach, SAGE Publications,Inc,New Delhi, South Asia Edition, 2012.
<b>Web Resource(s):</b>
1. <a href="http://www.microsoft.com/tutorial">www.microsoft.com/tutorial</a>
2. <a href="http://www.spss.com/tutorial">www.spss.com/tutorial</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Students will be able to evaluate various methodology to analyze and apply data using MS Office.	<b>K1</b>
CO2	Students will be able to develop the ability to create and apply basic to complex formulas and functions to perform calculations and solve real-world problems.	<b>K2</b>
CO3	students will be well-equipped to handle various types of data analysis tasks using SPSS	<b>K3</b>
CO4	Students will be able to demonstrate and built the models using SPSS	<b>K4</b>
CO5	Students will be able to perform Time series, logistic regression, and Discriminant analysis in SPSS and interpret the results.	<b>K5</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	2	2	3	3	3	3	3	3	2	2.6
<b>CO2</b>	3	2	2	3	2	3	3	3	3	2	2.6
<b>CO3</b>	3	3	3	2	3	3	2	2	2	3	2.6
<b>CO4</b>	2	3	3	2	2	2	3	3	3	3	2.6
<b>CO5</b>	3	3	3	3	2	2	3	3	2	2	2.6
<b>Mean Overall Score</b>											<b>2.6</b>
<b>Correlation</b>											<b>High</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr.B.Mohamed Rafeeq**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3CC12P	Core – XII (b)	3	2	10	40	50
<b>Course Title</b>		Computer Applications in Economics – Practical					

SYLLABUS		
Unit	Contents	Hours
I	<b>MS Office: Word &amp; Power Point</b> 1. Preparation of bio-data. 2. Formatting Documents for newspaper (model). 3. Creation of Invitation card. 4. Mail Merge. 5. Creation of mathematical formula using Formula Editor. 6. Creation of Statistical formula using Formula Editor. 7. Creation of table and chart using MS word. 8. * Preparation of the Power Point Slides with the subject matter of Economics*	9
II	<b>MS Excel</b> 1. Preparation of the Mark Statement. 2. *Preparation of the Pay Bill and Invoice Bill*. 3. Insertion of the Conditional Doughnut Progress Chart. 4. Interactive Waterfall Chart. 5. Variance on Clustered Chart. 6. Stacked Bar with Dynamic Data Labels. 7. Calculation of Average, median, mode and standard deviation. 8. Estimation of Demand function and Supply function. 9. Calculation of Time Series Analysis using MS Excel.	9
III	<b>SPSS in Statistical Applications</b> 1. Calculation of Descriptive Statistics 2. Draw the Graph. 3. Calculation of One way ANOVA. 4. Calculation of One Sample T- test. 5. Calculation of Independent Sample T – test. 6. Calculation of Paired Sample T test. 7. Calculation of Correlation. 8. Calculation of Partial Correlation 9. Calculation of Simple Linear Regression. 10. Calculation of Multiple Linear Regression.	9
IV	<b>Computer Application in Economics – I</b> 1. Calculation of Price Elasticity of Demand. 2. Calculation of Income Elasticity of Demand. 3. Estimation of Cobb Douglas Short run production function. 4. Estimation of Cobb Douglas Long run production function. 5. Estimation of Tronslog production function. 6. Estimation of CES production function. 7. Quadratic cost curve Estimation. 8. Pareto curve power model estimation. 9. Phillips curve inverse model estimation. 10. Engel curve and income elasticity.	9

<b>V</b>	<p>Computer Application in Economics – II</p> <ol style="list-style-type: none"> <li>1. Estimation of Linear Trend.</li> <li>2. Estimation of Compound Growth rate.</li> <li>3. Logistic Curve Estimation.</li> <li>4. Quadratic Cost Curve Estimation.</li> <li>5. Cubic Cost Curve Estimation.</li> <li>6. Determination of the Break-Even Point.</li> <li>7. Break-Even Quantity using Linear and Non-Linear Relationship.</li> <li>8. Break-Even Quantity using Non-Linear Relationship.</li> <li>9. Profit Maximization using Linear and Non-Linear Relationship.</li> <li>10. Profit Maximization using Non-Linear Relationship.</li> </ol>	<b>9</b>
<b>VI</b>	<b>Current Trends (For CIA only)</b> – Contemporary developments of computer applications in Economics	

\*.....\* Self Study

<b>Text Book(s):</b>
<p>1.S.V.SrinivasaVallabhan, Computer Applications in Business, Sultan Chand &amp; Sons, New Delhi, 3<sup>rd</sup>Edition,Reprint, 2011</p> <p>2.Dr.K.Dhanasekaran, Computer Applications in Economics, Vrinda Publications (P) Ltd, Delhi, 1<sup>st</sup> Edition 2010.</p>
<b>Reference Book(s):</b>
<p>1.Eric L.Etinspruch, An Intermediate Guide to SPSS for Windows, SAGE Publications,Inc,New Delhi,2<sup>nd</sup> Edition, 2005.</p> <p>2. Sanjay Saxena, MS Office 2007 in A Nutshell, Vikas Publishing, Noida, Revised Edition, 2011.</p> <p>3.James B.Cunningham&amp; James O. Aldrich, Using SPSS An Interactive Hands-On Approach, SAGE Publications,Inc,New Delhi, South Asia Edition, 2012.</p>
<b>Web Resource(s):</b>
<p>1.<a href="http://www.microsoft.com/tutorial">www.microsoft.com/tutorial</a></p> <p>2.<a href="http://www.spss.com/tutorial">www.spss.com/tutorial</a></p>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
CO No.	CO Statement	Cognitive Level (K-Level)
CO1	To know how, demonstrate and evaluate various methodology to analyse and apply data using MS Office.	<b>K1,</b>
CO2	Students will be able to analyse data using Excel.	<b>K2</b>
CO3	Build and draw inference by data analysis using SPSS.	<b>K3</b>
CO4	Demonstrate and built the models using SPSS	<b>K4</b>
CO5	To find, explain and analyse the data and to evaluate and built models	<b>K5</b>

**Relationship Matrix:**

Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)					Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	2	2	3	3	3	3	3	3	3	2.7
CO2	3	2	2	3	2	3	3	3	3	3	2.7
CO3	3	3	3	2	3	3	2	2	2	3	2.6
CO4	2	3	3	2	2	2	3	3	3	3	2.6
CO5	3	3	3	3	2	2	3	3	3	2	2.7
<b>Mean Overall Score</b>											<b>2.66</b>
<b>Correlation</b>											<b>High</b>

Mean Overall Score	Correlation
< 1.5	Low
$\geq 1.5$ and < 2.5	Medium
$\geq 2.5$	High

**Course Coordinator: Dr.B.Mohamed Rafeeq**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3DE3A	Discipline Specific Electives - III	6	4	25	75	100
<b>Course Title</b>   Econometrics							

SYLLABUS		
Unit	Contents	Hours
I	<b>Introduction to Simple Linear Regression Models</b> Stages in methodology of econometric methods. Scatter plot. Simple Linear Regression Model – Meaning – specification of population and sample regression function – estimation of regression coefficients. Prediction of Y – estimating error values. Goodness of fit measures – Co-efficient of determination ( $r^2$ ) – estimation using observed and intermediate values. Estimating sum of squares of errors. Computing standard error of individual regression coefficients. Testing of hypothesis t test and F test	18
II	<b>II Multiple Linear Regression Model</b> Multiple Linear Regression Model - Specification of population and sample regression function– Assumption regarding the behaviour of the observations of explanatory variables – No multicollinearity. Estimation of regression coefficients using sample observations and intermediate values. Co-efficient of multiple determination ( $R^2$ ), adjusted $R^2$ and its properties. Testing of hypothesis under multiple regression - t test (using intermediate values) - F test (using intermediate values)	18
III	<b>Dummy Variable</b> Dummy Variables- Nature of Dummy Variables- ANOVA Models, ANCOVA Models- Uses of Dummy Variables Seasonal Analysis- *Piecewise Linear Regression*. Qualitative response Regression Model- Linear Probability Model, Logit Model, Probit Model, Tobit Model. (Specification of models and components only)	18
IV	<b>Assumptions and Violations</b> Assumptions regarding error values – Homoscedasticity and No-autocorrelation. Assumption regarding the behaviour of the observations of explanatory variables – No multicollinearity. Assumption Violations – Heteroscedasticity, autocorrelation and multicollinearity - detection (by crude methods), causes, consequences and remedial measures	18
V	<b>Timeseries Econometrics</b> Timeseries Econometrics-Stationarity-Non-stationarity-stationarity testing using mean, standard deviation and auto-regressive methods. Concepts and equation expressions of Stationary and Non- Stationary stochastic processes, Unit root stochastic process, Trend stationary and difference stationary stochastic processes, Integrated stochastic process. Properties of Unit root tests – *Cointegration Model*.	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to econometrics during the semester concerned.	

\*.....\* Self Study

<b>Text Book(s):</b> Authors, Title of the Book, Publication, Edition, Year
1. DamodarN.Gujarati& Sangeetha Basic Econometrics Tata McGraw-Hill Publishing company Limited New Delhi, (2019) 2. K.Dhanasekaran, Econometrics, Vrinda Publications, ( 2012)
<b>Reference Book(s):</b>
1 Gujarathi, D.N., Text Book of Econometrics [McGraw-Hill, New Delhi]. (2005) 2. Kalirajan, K.P..Applied Econometrics [Oxford and IBH, New Delhi]. (1995) 3. Suresh, J. Ghosh, Econometric Theory and Applications [Prentice Hall of India,New Delhi], (1994)
<b>Web Resource(s):</b>
1. <a href="https://learneconometricsfast.com">https://learneconometricsfast.com</a> 2. <a href="https://inomics.com">https://inomics.com</a> 3. <a href="https://economicsnetwork.ac.uk">https://economicsnetwork.ac.uk</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Examine the meaning and applicability of numerical and dummy variables models	<b>K1, K2</b>
CO2	Estimate the relationship between dependent and independent variables	<b>K3</b>
CO3	Identify the problems of ignoring OLS assumptions	<b>K4</b>
CO4	Analyze the timeseries models and stochastic process	<b>K5</b>
CO5	Evaluate the fitness of the data and significance of the relationships	<b>K6</b>

#### **Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	2	1	1	3	3	2	2	2.1
<b>CO2</b>	2	3	3	1	1	2	3	2	2	1	2.0
<b>CO3</b>	1	2	2	3	2	2	2	3	2	3	2.2
<b>CO4</b>	2	2	2	3	2	3	3	2	3	2	2.4
<b>CO5</b>	1	3	3	2	2	1	2	3	2	2	2.1
<b>Mean Overall Score</b>											<b>2.16</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. Hidayathulla**



Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PEC3DE3B	Discipline Specific Elective - III	6	5	25	75	100
<b>Course Title</b>		Personnel Management					

SYLLABUS		
Unit	Contents	Hours
I	<b>Personnel Management</b> Definition of Personnel management – Mechanical approach toward Personnel – Paternalism – Social system approach – Toward the social role of the business firm – Organising the Personnel unit.	18
II	<b>Personnel Control</b> Personnel Policies – Aims and Objectives of Personnel Policies – Need for Personnel Policy –Essentials characteristics of Sound Personnel Policy – Types of Personnel Policies -Personnel Records – Personnel Report- Research and Audit.	18
III	<b>Organisational and Job Design</b> Organisational Objectives – Functions – Relationships – Organisation Structure – Contrast of Formal and Informal Organisation – Job Design	18
IV	<b>Individual and Organisation Development</b> Operative Training – Management Development – Manager needs and Developmental Programmes – Evaluation of Management Development Programmes -Organisation Development	18
V	<b>Compensation Management</b> Components of Wage Structure - Wage and Salary Administration - Compensation Structure - Compensation Benchmarking - Internal and External Parity - Competency based pay	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to Personnel Management during the semester concerned.	

\*.....\* Self Study

<b>Text Book(s):</b>
1 C. B. Mamoria, S.V. Gankar : Personnel Management, Himalaya Publishing House, 2011 2. Arun Monappa, Mirza S Saiyadain Personnel Management , Tata McGraw-Hill Publishing Company Limited, 2010
<b>Reference Book(s):</b>
1. C. B. Gupta : Human Resource Management Text and Cases, SULTAN CHAND&SONS, 2017 2. R.S. Dwivedi : A Text Book of Human Resource Management, Vikas Publishing House, 2009
<b>Web Resource(s):</b>
1. <a href="https://onlinecourses.nptel.ac.in/noc21_mg21/preview">https://onlinecourses.nptel.ac.in/noc21_mg21/preview</a> 2. <a href="https://onlinecourses.swayam2.ac.in/cec23_mg02/preview">https://onlinecourses.swayam2.ac.in/cec23_mg02/preview</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Review the nature and importance of Personnel management	<b>K1, K2</b>
CO2	Demonstrate the need of Personnel Policy	<b>K3</b>
CO3	Analyse the process of Human Resource Planning	<b>K4</b>
CO4	Describe the methods and techniques of Human Resource Training and Development.	<b>K5</b>
CO5	Evaluate the methods of Compensation Management	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	2	1	1	3	3	2	2	2.1
<b>CO2</b>	2	3	3	1	1	2	3	2	2	1	2.0
<b>CO3</b>	1	2	2	3	2	2	2	3	2	3	2.2
<b>CO4</b>	2	2	2	3	2	3	3	2	3	2	2.4
<b>CO5</b>	1	3	3	2	2	1	2	3	2	2	2.1
<b>Mean Overall Score</b>											<b>2.16</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. Khan Mohamed**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
IV	23PEC4CC13	Core - XIII	6	6	25	75	100
<b>Course Title</b>		Indian Economic Development					

SYLLABUS		
Unit	Contents	Hours
I	<b>Issues of Economic Development</b> Economic Growth and Economic Development – Determinants – Obstacles to Economic Development – Need – *Structural Changes* – Regional Economic Development Indicators – Causes of Regional Imbalances – Policy Measures for Removing Regional Imbalances- role of erstwhile Planning Commission and NITI Aayog.	18
II	<b>Economic Reforms in India</b> Features of New Economic Reforms – Achievements – Arguments in favour of and against New Economic Policy – Common Minimum Programmes – Second Generation of Economic Reforms in India – Major Economic Reform Measures – Slow Process of Economic Reforms in India - GST: rationale and impact- * Evolution of the financial sector in post-liberalization period*	18
III	<b>Agricultural Sector</b> Mechanization of Agriculture – Farm mechanization: progress and benefits – Agricultural Marketing and Warehousing – Agricultural Price Policy – Issues in Food Security – Food security Act - Polices for Sustainable Agriculture – New Agricultural Strategy – *Second Green Revolution*	18
IV	<b>Industrial, Service, Social Sector</b> Industrial development: importance and Role – Development of large-Scale Industries – Cement – Sugar – Cotton – Automobile – Information technology – MSMEs – Role and Importance – Problems – Public Sector Enterprises – Private Sector – *Disinvestment* -Importance of Services sector – Transport – Banking – Communication.	18
V	<b>Foreign Trade in India</b> Foreign trade: importance, composition and Direction – Foreign Trade Policy of India – Special Economic Zone – Agri-Export Zone – WTO – Foreign capital: Forms and Need – Foreign Direct Investment in India - *Foreign Exchange Reserves*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to Indian economy during the semester concerned.	

\*.....\* Self Study

<b>Text Book(s):</b>
1. P. K .Dhar, Indian Economy, Kalyani Publishers, 24 <sup>th</sup> edition, 2016
<b>Reference Book(s):</b>
1. Misra & Puri, Indian Economy, Himalaya Publishing House, 28 <sup>th</sup> edition, 2010
2. Deepashree, Indian Economy, Anne Books (Pvt) Ltd, 3 <sup>rd</sup> edition, 2011
<b>Web Resource(s):</b>
1. <a href="http://www.yourarticlelibrary.com">www.yourarticlelibrary.com</a>
2. <a href="http://www.economicdiscussion.com">www.economicdiscussion.com</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Understand the Structural change in Indian economy	<b>K1,K2</b>
CO2	Assess the Performance of agricultural and Industrial sector	<b>K3</b>
CO3	Ability to learn the trends in the economy	<b>K4</b>
CO4	Understand the Impact of Poverty	<b>K5</b>
CO5	Identify Social Issues like Unemployment, Gender disparities	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	2	1	1	3	2	2	2	<b>2.0</b>
<b>CO2</b>	2	3	3	1	1	3	3	2	2	1	<b>2.1</b>
<b>CO3</b>	1	3	3	3	2	2	3	3	2	2	<b>2.4</b>
<b>CO4</b>	2	2	2	3	2	3	3	2	3	3	<b>2.5</b>
<b>CO5</b>	1	3	3	2	2	1	2	3	2	2	<b>2.1</b>
<b>Mean Overall Score</b>											<b>2.2</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. J. Khader Sherief**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
IV	23PEC4CC14	Core - XIV	6	5	25	75	100
<b>Course Title</b>		Public Finance					

SYLLABUS		
Unit	Contents	Hours
I	<b>Introduction</b> Role of public finance - Major Fiscal functions- Private and Public goods – Mixed goods –Merit goods- Social goods-Market failure Public goods and externalities - *Impact of Externalities*	18
II	<b>Theories of Public Expenditure</b> Theories of Public Expenditure – Musgrave – Wagner’s Law of Increasing State Activities – Wiseman–Peacock Hypothesis – Growth of Public Expenditure – Canons of Public Expenditure - *Evaluation of Public Expenditure.*	18
III	<b>Taxation and Public Debt</b> Direct and Indirect taxation – Cannons of Taxation – Theory of optimal taxation - Classification and Sources of public debt–Burden of public debt – Principles of public debt–Methods of repayment of public debt – *Compensatory aspects of public debt policy. *	18
IV	<b>Fiscal Policy and Fiscal Federalism</b> Objectives and Instruments of Fiscal policy – Compensatory Fiscal policy – Fiscal policy for Economic stability and growth– Effectiveness of fiscal policy- Fiscal federalism – Role of finance commission — *Latest Finance Commission and its Recommendations*	18
V	<b>Fiscal Practices in India</b> Indian Public Finance - Financial Autonomy in India – Tax Reform proposals of Kelkar Committee – Fiscal responsibilities of union and state- FRBM Act 2003- Union and State government Budgets – *issues of fiscal deficit*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to fiscal policy and taxation in India.	

\*.....\* Self Study

<b>Text Book(s):</b>
1. Tyagi B.P., Public Finance, Jai Prakash Nath & Company, 2014 2. Amerash Bagchi (2005), Readings in Public Finance, Oxford University Press, New Delhi.
<b>Reference Book(s):</b>
1. Rao, M. Govida and Nirvikar Singh, (2005), The Political Economy of Federalism in India, Oxford University Press, New Delhi. 2. Government of India, Economic Survey (Annual issues). Ministry of Finance, New Delhi. Tamilnadu State Council for Higher Education 15.
<b>Web Resource(s):</b>
1. UGC MOOCs: Public Finance and Policy in India, <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/648">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/648</a> 2. NPTEL Course: Public Economics, Prof. Tanika Chakrabarty, IIT Kanpur, <a href="https://nptel.ac.in/courses/109104071">https://nptel.ac.in/courses/109104071</a> 3. MIT Open Course Ware: Public Economics, Massachusetts Institute of Technology, <a href="https://ocw.mit.edu/courses/14-471-public-economics-i-fall-2012/pages/syllabus/">https://ocw.mit.edu/courses/14-471-public-economics-i-fall-2012/pages/syllabus/</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	label and interpret the basic theories of public finance.	<b>K1, K2</b>
CO2	explain, identify and analyse the public expenditure.	<b>K3</b>
CO3	recall, outline and determine about taxes	<b>K4</b>
CO4	organize, examine and evaluate about fiscal policy.	<b>K5</b>
CO5	summarize, develop and explain about Indian public finance.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	3	3	2	2	2	2	3	2	3	2.4
<b>CO2</b>	2	3	2	2	3	2	2	3	2	2	2.3
<b>CO3</b>	3	2	2	2	1	2	2	3	3	2	2.2
<b>CO4</b>	1	3	2	3	2	3	3	3	2	3	2.5
<b>CO5</b>	2	2	3	2	1	3	3	2	2	2	2.2
<b>Mean Overall Score</b>											<b>2.3</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Mr. A. M. Z. Mohammed Arsath Ali**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
IV	23PEC4CC15	Core - XV	6	5	25	75	100
<b>Course Title</b>		Comparative Economic Systems					

SYLLABUS		
Unit	Contents	Hours
I	<b>Comparative Economic Systems and Pre Capitalist Economic System</b> Economic System: Meaning, Definitions, Features – Bases for Comparison of Economic Systems – *Importance and Problems of Studying Comparative Economic Systems* - Feudalism: Meaning, Definition and features - Organisation of feudal society – Mode of production under feudalism – Breakdown of Feudalism – Causes responsible for the breakdown of feudalism – Feudalism and Capitalism.	18
II	<b>Capitalism</b> Theory of Capitalism - Development and Stages of Capitalism: Merchant Capitalism, Industrial Capitalism, Finance Capitalism, Guided Capitalism – Achievements and Failures of Laissez faire Capitalism – The problem of Unemployment under Capitalism: Emergence of Unemployment, Remedies of Unemployment - The problem of Monopoly under Capitalism: – Price mechanism under Capitalism – Consumer sovereignty under capitalism - Transformation of Capitalism. * Capitalism in U.S.A. and Future of Capitalism*	18
III	<b>Socialism</b> Theory of Socialism – Evolution of Socialism: Utopian and Scientific Socialism, Anarchistic Socialism, Fabian Socialism, Syndicalism, Guild Socialism, Christian Socialism, Authoritarian Socialism (Communism), Democratic Socialism – Similarities and Differences between Socialism and communism - The problem of Allocation of Resources under Socialism - The problem of Incentives under Socialism – Socialism in Advantages and Shortcomings of Socialism– Reforms in Socialism: Market Socialism. *Socialism in the U.S.S.R*	18
IV	<b>Mixed Economy</b> Theory of Mixed Economy – Features of Mixed Economy – Meaning of Public Sector and Private Sector – Factors responsible for the expansion of Public sector – Meaning of Privatisation – Privatisation of Public Enterprises - Merits and Demerits of Mixed Economy – Conditions necessary for the success of Mixed Economy – Mixed Economy in India: Evolution, working and future of Mixed Economy. *An appraisal on Mixed economies in operation*	18
V	<b>Alternative Economic Systems</b> Convergence of capitalism and socialism- emerging new economic system - Gandhian ideas on economic system - fundamental principles: progress of all (Sarvodaya), raising standard of life (containment of wants), work is worship (bread labour), self-sufficient villages (grassroots development), production by masses (decentralization) – principles and appraisal of Gandhian trusteeship economy – trusteeship as an alternative to capitalism and communism. Islamic Economic System: Definition of Islamic Economics – Islamic worldview on Economic System - Basic Features of Islamic Economic System: Human Nature, Materialism, Ownership, Universalism – Islamic Approaches to Contemporary Economic Problems - *Differences between Islamic Economic System and Conventional Economic Systems*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to economic systems during the semester concerned.	

\*.....\* Self Study

**Text Book(s):**

1. Dr. K.K. Sen, Comparative Economic System Sulthan Chand & sons 2003
2. S.S.M. Desai and Mrs. Nirmal D. Bhalerao, Himalaya Publishing House, 2012.
3. Muhammad Akram Khan : An introduction to Islamic Economics, Kitab Bhavan, 1998

<b>Reference Book(s):</b>
1 Paul R. Gregory and Robert C. Stuart: The global economy and its economic systems, South-Western Cengage Learning, Mason, OH, 2014
2. H. Stephen Gardner, Comparative Economic Systems, Routledge , Third Edition,1998
<b>Web Resource(s):</b>
1. <a href="https://www.studocu.com/row/document/mount-kenya-university/international-economics/comparative-economic-systems/30928529">https://www.studocu.com/row/document/mount-kenya-university/international-economics/comparative-economic-systems/30928529</a>
2. <a href="https://nou.edu.ng/coursewarecontent/ECO%20427%20COMPARATIVE%20ECONOMICS%20SYSTEM%20CORRECTED%20APRIL.pdf">https://nou.edu.ng/coursewarecontent/ECO%20427%20COMPARATIVE%20ECONOMICS%20SYSTEM%20CORRECTED%20APRIL.pdf</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Recall the features and organizational structures of different economic systems and their impact on achieving the economic goals.	<b>K1, K2</b>
CO2	Exhibit the development of the structure and institutions of capitalist economies.	<b>K3</b>
CO3	Analyse the factors involved in the evolution of and transition in socialism.	<b>K4</b>
CO4	Articulate the performance and problems of mixed economies	<b>K5</b>
CO5	Examine the relevance of alternative economic systems in solving the contemporary economic problems	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	3	2	2	2	1	1	3	2	2	2	2
<b>CO2</b>	2	3	3	1	1	3	3	2	2	1	2.1
<b>CO3</b>	1	3	3	3	2	2	3	3	2	3	2.5
<b>CO4</b>	2	2	2	3	2	3	3	2	3	2	2.4
<b>CO5</b>	1	3	3	2	2	1	2	3	2	2	2.1
<b>Mean Overall Score</b>											<b>2.22</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. A. Khan Mohamed**



Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
IV	23PEC4DE4A	Discipline Specific Elective - IV	6	4	25	75	100
<b>Course Title</b>		Industrial Economics					

SYLLABUS		
Unit	Contents	Hours
I	<b>Basics of Industrial Economics</b> Definition and scope of industrial economics - Concepts: Industry, firm, market, market structure, market power, market conduct and market performance - Classification of firms - * Objectives of firms*; Structure-conduct-performance paradigm - Industrialization: meaning, Role and the Pattern of Industrialization— Factors Affecting Industrialization – Foreign capital: Role of MNCs in India – Recent policy measures	18
II	<b>Industrial Location</b> Factors affecting Industrial Location-Decentralisation of Industries–Theories: Weber’s theory–Market Area theory – Sargent Florenc’s – Hoover’s Theory-Profit Maximizing Theory –* Operational approach to Industrial Location* – Trends of Industrial Location in India – Hoffman, Simon Kuznets and Chenery concept of Optimum Firm – Factors determining optimum of a firm.	18
III	<b>Productivity and Cost-Benefit Analysis</b> Productivity – Significance of productivity measurement – Misinterpretation of productivity - Stages of project evaluation – methods of evaluation – CBA: criteria, evaluation on the basis of benefit, evaluation on the basis of cost – limitations of cost benefit analysis -* cost benefit analysis in India*	18
IV	<b>Policies and Industrial Growth in India</b> Industrial Policy 1948–Industrial Policy Resolution 1956–New Industrial Policy 1991 – Industrial Licensing Policy – National Manufacturing Policy 2011 – *National Investment and Manufacturing Zone*	18
V	<b>Large Scale Industries in India</b> Development and Problems of Large Scale Industries in India Large Scale Industries: Iron and Steel Industry– Sugar – Cement – Jute–Cotton and Textile Industry – *Automobile Industry*	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to industrial policies during the semester concerned.	

\*.....\* Self Study

<b>Text Book(s):</b>
1. Renjana Seth, Industrial Economics, Ane Books Pvt. Ltd, New Delhi, 1 <sup>st</sup> Edition 2015, 2. R.R. Barthwal, Industrial Economics, New Age International, 2 <sup>nd</sup> Edition, 2004.
<b>Reference Book(s):</b>
1. Ahluwalia, I. J. Industrial Growth in India: Stagnation in the Mid Sixties, Delhi:Oxford University Press, 1985 2. Hay, D. A. and D. J. Morris, Industrial Economics and Organization: Theory and Evidence, Oxford University Press, 1991 3. Krishna, K.L., ‘Industrial growth and Diversification’ in Uma Kapila (Ed.), Indian Economy Since Independence, Academic Foundation 19 <sup>th</sup> edition, 2011.
<b>Web Resource(s):</b>
1. <a href="http://www.yourarticlelibrary.com">www.yourarticlelibrary.com</a> 2. <a href="http://www.economicdiscussion.com">www.economicdiscussion.com</a>

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	List out and outline the basic concepts of industrialization.	<b>K1,K2</b>
CO2	Make use theories industrial location and industry the regional development.	<b>K3</b>
CO3	Interpret, develop and determine the structure of industrial organization.	<b>K4</b>
CO4	Illustrate the sources of industrial finance.	<b>K5</b>
CO5	Summarize solve and priorities the issues.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2.0</b>
<b>CO2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2.0</b>
<b>CO3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2.2</b>
<b>CO4</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2.2</b>
<b>CO5</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2.1</b>
<b>Mean Overall Score</b>											<b>2.14</b>
<b>Correlation</b>											<b>Medium</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr. J. Khader Sherief**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
IV	23PEC4DE4B	Discipline Specific Elective - IV	6	4	25	75	100
<b>Course Title</b> Islamic Banking							

SYLLABUS		
Unit	Contents	Hours
I	<b>Evolution of Interest Free Banking</b> Concept and Evolution of Conventional Banking and Interest free Banking – Differences and Similarities between Interest free Banking and Conventional Banking - Characteristics of Interest free Banking - Interest Free Banks in western world - Feasibility, Prospects and Challenges of Interest Free Banking in India - #Criticism of Interest free banking#.	18
II	<b>Principles and Techniques of Interest Free Banking</b> Islamic financial system: an overview; Shariah &Fiqh: Sources and Development - Important concepts and principles of Fiqh – #Meaning of Zakah #- Meaning and types of interest (Riba): Prohibition of Riba (in Islam and Christianity).	18
III	<b>Islamic Financial Contracts and Mode of Financing</b> Conditions of contract, Elements of contract, Types of contracts – Mode of Islamic Financing: Mudaraba, Musharakah, Murabaha, Ijara, Salam, Istisnaa.	18
IV	<b>Islamic Banking Operations</b> Structure of an Islamic Bank - Funds Mobilization and utilization - Financial Instruments: Current Account, Saving Account, Investment Account, Equity financing - Debt Financing -Trading Financing - Commodity ventures - Letter of credit - Letter of Guarantee - # Mortgage Financing # - Procedure and Assessment of Profit/Loss Sharing.	18
V	<b>Islamic Capital Market and Islamic Insurance</b> Islamic capital market: Types of market & kinds of products, Islamic appraisal of capital market Stock market: Shariah screening methods, Islamic securities (Sukuk) - Islamic appraisal of conventional insurance (Takaful) - Structure and models of Islamic insurance - #Types of insurance products#.	18
VI	<b>Current Trends (For CIA only)</b> – Contemporary developments related to interest free banking.	

\*.....\* Self Study

Text Book(s):
1. M.Anwar , Modelling Interest-Free Economy, Genuine Publications & Media Pvt. Ltd, New Delhi. 2017.
2. Mohamad Saeed Shingeri, A Model of pure Interest-Free Banking, Qazi Publishers &Distributors, New Delhi, 2011.
3. Suhail Zubairy, Islamic Finance, MarkaziMaktaba /islami Publishers, New Delhi, 2009.
4. Shaikh Mahmud Ahmed, Towards Interest-free Banking, Adam Publishers & Distributors, New Delhi, 2010.
5. Chapra, M.U. What is Islamic Economics, Jeddah, IRTI, IDB, 1996. Leicester, UK: The Islamic Foundation, 1985.
6.Siddiqi, M.N. Some Aspects of Islamic Economy, Delhi, M.M.I. Publishers,2002.

<b>Reference Book(s):</b>
1.Khan, S. Mohsin, 'Islamic Interest free Banking: A Theoretical Analysis'; International Monetary Fund Staff Papers, (Washington DC), Vol. 33, No.1, 1986. 2.Mills, Paul S. and John R. Presley, Islamic Finance: Theory and Practice, London, Macmillan, 1999. 3.Siddiqi, M.N., Riba, Bank Interest and the Rationate of its Prohibition, IRTI, IDB, 2004. 4.Usmani, M.Taqi, An Introduction To Islamic Finance, Karachi, Idaratul Ma'arif, 1998. 5.Islamic Banking Practice from the Practitioner's Perspective – Bank Islam Malaysia Barhard,1994. 6. Ahmad, Habib (eds), Theoretical Foundation of Islamic Economics, Islamic Research and Training Institute, Islamic Development Bank, 2002.
<b>Web Resource(s):</b>
1.www.yourarticlelibrary.com 2.ww.economicdiscussion.com

<b>Course Outcomes</b>		
Upon successful completion of this course, the student will be able to:		
<b>CO No.</b>	<b>CO Statement</b>	<b>Cognitive Level (K-Level)</b>
CO1	Students acquire the knowledge on the concepts of Interest free banking.	<b>K1</b>
CO2	Students will be able to construct the skill in Islamic financial system.	<b>K2</b>
CO3	Students will be able to recognize the familiar concepts of financial contracts and mode of financing.	<b>K3</b>
CO4	Students will be able to handle the operation of Islamic Banking.	<b>K5</b>
CO5	Students will be able to demonstrate the use of Islamic capital market and Insurance.	<b>K6</b>

**Relationship Matrix:**

<b>Course Outcomes (COs)</b>	<b>Programme Outcomes (POs)</b>					<b>Programme Specific Outcomes (PSOs)</b>					<b>Mean Score of COs</b>
	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	
<b>CO1</b>	2	2	2	3	3	3	3	3	3	2	2.6
<b>CO2</b>	3	2	2	3	2	3	3	3	2	3	2.6
<b>CO3</b>	3	3	3	2	3	3	2	2	3	3	2.6
<b>CO4</b>	2	3	3	2	2	2	3	3	3	3	2.6
<b>CO5</b>	3	3	3	3	2	2	3	2	3	2	2.6
<b>Mean Overall Score</b>											<b>2.6</b>
<b>Correlation</b>											<b>High</b>

<b>Mean Overall Score</b>	<b>Correlation</b>
< 1.5	Low
≥ 1.5 and < 2.5	Medium
≥ 2.5	High

**Course Coordinator: Dr.B.Mohamed Rafeeq**