

H. H. THE RAJAH'S COLLEGE (Autonomous B+) PUDUKKOTTAI – 622 001

DEPARTMENT OF ECONOMICS

BOARD OF STUDIES MEETING

Date: 11.08.2021

Time: 10.00 am

Place: Department of Economics

AGENDA

Item - 1: To approve the minutes of the previous meeting.

- Item 2: To approve the revised syllabus for B.A., M.A., and M.Phil., Economics as part of Learning Outcomes-based Curriculum Framework (LOCF) under Choice Based Credit System (CBCS) from the academic year 2021-2022 onwards.
- Item 3: To approve the question paper pattern under CBCS for B.A., M.A., and M.Phil., Economics from the academic year 2021-22 onwards.
- Item 4: To approve the incorporation of the feedback of the students, scholars, alumni and parents while revising the regulations, curriculum and syllabi of all programmes offered by the Department of Economics.
- Item 5: To approve the incorporation of the suggestions of the Board of Studies members while revising the regulations, curriculum and syllabi of all programmes offered by the Department of Economics.
- Item 6: To approve the incorporation of higher weightage given by the NAAC for the curriculum.
- Item 7: To approve the list of papers newly introduced for B.A., and M.A., Economics for the year 2021-22 onwards.
- Item 8: Any other matter with permission of the Chair.

CHAIRPERSON

H. H. THE RAJAH'S COLLEGE (Autonomous B+) PUDUKKOTTAI – 622 001

DEPARTMENT OF ECONOMICS

Submitted to the Principal

Sub: Minutes of the meeting – Board of studies – Placing at Academic Council – For Approval – reg.

Minutes of the Board of Studies meeting of the Department of Economics, H.H. The Rajah's College (Autonomous), Pudukkottai, held on 11th August 2021 at 10.00 a.m. at the Department of Economics.

The following resolutions are passed in the meeting.

- **Item 1:** Resolved to approve the minutes of the previous meeting held on 28th June 2018.
- Item 2: Resolved to approve the revised syllabus for B.A., M.A., and M.Phil., Economics as part of Learning Outcomes-based Curriculum Framework (LOCF) under Choice Based Credit System (CBCS) from the academic year 2021-2022 onwards.
- Item 3: Resolved to approve the existing pattern of the question paper under CBCS for B.A., M.A., and M.Phil., Economics from the academic year 2021-22 onwards.
- **Item 4:** Resolved to approve the incorporation of the feedback of the students, scholars, alumni and parents while revising the regulations, curriculum and syllabi of all programmes offered by the Department of Economics.
- **Item 5:** Resolved to approve the incorporation of the suggestions of the Board of Studies members while revising the regulations, curriculum and syllabi of all programmes offered by the Department of Economics.
- **Item 6:** Resolved to approve the incorporation of higher weightage given by the NAAC for the curriculum.
- Item 7: Resolved to approve the list of papers newly introduced for B.A., and M.A., Economics for the year 2021-22 onwards.

For B.A., Economics following papers were newly introduced:

- 1. Basic Mathematics for Economics
- 2. Computer Applications in Economics
- 3. Consumer Rights and Awareness
- 4. Principles of Management
- For M.A., Economics following papers were newly introduced:
 - 1. Econometric Methods
 - 2. Economics of Climate Change

- **Item 8:** Value added courses included in the curriculum are Digital Economy and Effective Leadership and Management which are ought to be conducted twice in an academic year. Only internal evaluation is recommended.
- Item 9: Syllabi of B.A., M.A., and M.Phil., courses are framed in such a way that it matches more than 75 per cent with the syllabus framed and recommended by the State Integrated Board of Studies of Tamil Nadu State Council for Higher Education (TANSCHE).
- **Item 10:** The course and programme summaries attached with the syllabus contain the details on the percentage of modification.

Name of the Programme	Name of the Course	Course Code	Activities/Content with direct bearing on Employability / Entrepreneurship/Skill Development
	Micro Economics - I	21UEC1	Employability
	Monetary Economics	21UEC2	Employability
	Economic Statistics - I	21UECA1	Employability
	Micro Economics - II	21UEC3	Employability
	Tamil Nadu Economy	21UEC4	Employability
	Economic Statistics - II	21UECA2	Employability
	Indian Economy - I	21UEC5	Employability
	Fiscal Economics	21UEC6	Employability
	Labour Economics	21UECA3	Employability
	Competitive Examinations for Tamil	211JECN1	Employability
	Basic Accountancy	2101001	Employability
	Indian Economy - II	21UEC7	Employability
	History of Economic Thoughts	21UEC8	Employability
	Basic Mathematics for Economics	21UECA4	Employability
	Indian Economy - II	21UEC7	Employability
	History of Economic Thoughts	21UEC8	Employability
	Basic Mathematics for Economics	21UECA4	Employability
BA Economics	Macro Economics - I	21UEC9	Employability
Diricononnes	International Economics	21UEC10	Employability
	Agricultural Economics	21UEC11	Employability
	Managerial Economics	21UECE1A	Entrepreneurship
	Capital Market	21UECE1B	Entrepreneurship
	Computer Applications in Economics	21UECE1C	Skill Development
	Freedom Movement in India from 1857 to 1947	21UECN2	Employability
	Principles of Marketing		Employability
	Macro Economics - II	21UEC12	Employability
	Economics of Development and Planning	21UEC13	Employability
	Environmental Economics	21UEC14	Employability
	Consumer Rights and Awareness	21UECE2A	Employability
	Economics of Insurance	21UECE2B	Entrepreneurship
	Tourism Economics	21UECE2C	Employability
	Entrepreneurial Development	21UECE3A	Entrepreneurship
	Principles of Management	21UECE3B	Entrepreneurship
	Economics of Service Sector	21UECE3C	Employability

Item - 11: The main focus of the courses is as follows:

	Advanced Micro Economics - I	21PEC1	Employability
	Advanced Macro Economics - I	21PEC2	Employability
	Indian Economy	21PEC3	Employability
	Statistics for Economist - I	21DECE1	Employability
	Econometric Methods	ZIPECEI	Employability
	Advanced Micro Economics - II	21PEC4	Employability
	Advanced Macro Economics - II	21PEC5	Employability
	Health Economics	21PEC6	Employability
	Statistics for Economist - II	21DECE2	Skill Development
	Computer Applications in Economics	ZIFECEZ	Skill Development
	General Studies for Competitive	21DECED1	Employability
MA Economics	Examinations	ZIFECEDI	Employability
	Research Methodology	21PEC7	Employability
	Mathematical Economics	21PEC8	Employability
	Industrial Economics	21PEC9	Employability
	International Economics	21PEC10	Employability
	Human Resource Management	21DECE2	Employability
	Economics of Climate Change	ZIFECES	Employability
	Public Finance	21PEC11	Employability
	Economics of Development and Planning	21PEC12	Employability
	Economics for IES / NET / SET	21PEC13	Employability
	Project Work	21PEC14	Employability
	Research Methodology and Statistical Techniques	21MEC1	Skill Development
M.Phil Economics	Contemporary Issues in Indian Development	21MEC2	Employability
	Paper on Topic of Research	21MEC3	Employability
	Teaching and Learning Skills	21MEC4	Employability

Members Present:

1.	Dr. VELU SURESH KUMAR	-	Chairperson
2.	Dr. D. MALARVIZHI	-	University Nominee
3.	Dr. M. MURUGAN	-	External Member
4.	Dr. G. SENTHIL KUMAR	-	External Member
5.	Mr. S. RAJAKUMAR	-	Industrialist
6.	Dr. M. KARUPPIAH	-	Member
7.	Mr. S. SURIYAKANTH	-	Member
8.	Dr. V. MURUGESAN	-	Member
9.	Dr. S. ASAITHAMBI	-	Member
10	. Dr. A. KARNAN	-	Member
11	. Dr. T. SUDAKAR	-	Member
12	. Dr. T. VEERAIAN	-	Old Student (Member)

PROGRAMME OUTCOMES FROM M.A. ECONOMICS (2021-2022 Onwards)

Program Educational Objectives (PEOs)

PEO1: To teach the latest developments in the principles of economic theory.

PEO2: To equip students with tools of econometrics for applied economic research.

PEO3: To teach applications of theories in analyzing current economic problems.

PEO4: To develop skills to evaluate the opportunities available in the field of Economics.

PEO5: To continuously enhance academic rigor and research outcomes.

Program Specific Outcomes (PSOs)

PSO1: Able to apply economic theories and to expand the problem-solving acumen.

- **PSO2:** Able to apply theories in analyzing current economic problems.
- **PSO3:** Conscious about the socio-economic environment, both domestic and international and its implications on business.
- **PSO4:** Open up research opportunities in the national level premier educational institutes.
- **PSO5:** Can easily crack the competitive examinations and become successful in getting employment opportunities.

Programme Outcomes (POs)

After 2 years of completion of programme, the post graduates will be able to:

- **PO1:** Gain an in-depth knowledge on microeconomic analysis, macroeconomic variables such as multiplier, consumption, investment and general equilibrium.
- **PO2:** Understand how to apply some basic tools of mathematics, statistics and econometrics for applied economic research.
- **PO3:** Identify the standard level of growth and development of the economy of the country and to determine and frame planning policies.
- **PO4:** Understand and apply the knowledge of the industrial economics on location, efficiency, productivity and industrial policies.
- **PO5:** Identify and formulate the research design, analyze data and be able to unite the research report and provide valid inferences.
- **PO6:** Take decision on how to acquire resources for the health sector, and how best to use the scarce resources for the production of health services.
- **PO7:** Promote social and economic well-being by leadership and policy practice which addresses social and economic problems.

H.H. THE RAJAH'S COLLEGE (AUTONOMOUS B⁺), PUDUKKOTTAI DEPARTMENT OF ECONOMICS CBCS - COURSE PATTERN FOR M.A., ECONOMICS (2021-22 Onwards)

Sl. i Paper Code				Hrs/	No. of	Marks				
No	Sen	Paper	Code	Name of the Paper	Week	Credits	Inter.	Exter	Total	
1		Core - I	21PEC1	Advanced Micro Economics - I	7	5	25	75	100	
2		Core - II	21PEC2	Advanced Macro Economics - I	7	5	25	75	100	
3	Ι	Core - III	21PEC3	Indian Economy	7	5	25	75	100	
4	4	Elections I		Statistics for Economist - I	7	F	25	75	100	
4		Elective -I	21PECE1	Econometric Methods	/	5	25	15	100	
5		Core - IV	21PEC4	Advanced Micro Economics - II	6	5	25	75	100	
6		Core - V	21PEC5	Advanced Macro Economics - II	6	5	25	75	100	
7		Core - VI	21PEC6	Health Economics	6	5	25	75	100	
	п	I			Statistics for Economist - II		_			100
8	Elective-II		21PECE2	Computer Applications in Economics	6	5	25	75	100	
9	Extra Disciplinary 21PECE		21PECED1	General Studies for Competitive Examinations	5	5	25	75	100	
10		Core - VII	21PEC7	Research Methodology	6	5	25	75	100	
11		Core-VIII	21PEC8	Mathematical Economics	6	5	25	75	100	
12	ш	Core - IX	21PEC9	Industrial Economics	6	5	25	75	100	
13	111	Core - X	21PEC10	International Economics	6	5	25	75	100	
14		Elective III	21DECE3	Human Resource Management	5	5	25	75	100	
14		Elective-III	ZIFECES	Economics of Climate Change	5	5	23	75	100	
15		Core - XI	21PEC11	Public Finance	6	5	25	75	100	
16	IV	Core - XII	21PEC12	Economics of Development and Planning	6	5	25	75	100	
17	IV Core-XIII		21PEC13	Economics for IES / NET / SET	6	5	25	75	100	
18		Core-XIV	21PEC14	Project Work	12	5	25	75	100	
			ТО	ΓAL	116	90	450	1350	1800	

QUESTION PAPER PATTERN

CHOICE BASED CREDIT CUM SEMESTER PATTERN (Effective from the academic year 2021-22 onwards)

M.A. Economics

External Pattern

Duration of Examination: 3 Hours

Part - A Answer ALL the Questions 10 x 2 = 20 marks		Part - B Answer ALL the Questions Internal Choice Type 5 x 5 = 25 marks		Part - C Answer any THREE Questions 3 x 10 = 30 marks			
	Quest	ions	Ques	tior	IS		Questions
1 - 2	-	Unit I	11(a) or 11(b)	-	Unit I	16	- Unit I
3 - 4	-	Unit II	12(a) or 12(b)	-	Unit II	17	- Unit II
5 - 6	-	Unit III	13(a) or 13(b)	-	Unit III	18	- Unit III
7 - 8	-	Unit IV	14(a) or 14(b)	-	Unit IV	19	- Unit IV
9 - 10	-	Unit V	15(a) or 15(b)	-	Unit V	20	- Unit V
9 - 10	-	Unit	15(a) or 15(b)	-	Unit V	20	- Unit V

Elective Course

Extra Disciplinary Course

(Objective Type - Online Exam)

1. a) (or) b)

2. a)

(or) b)

Internal Patte

ern	<u>al Pattern</u>	
1.	Internal Test - 1	- 50 marks
2.	Internal Test - 2	- 75 marks
3.	Assignment - 1	- 10 marks
4.	Assignment - 2	- 10 marks
5.	Seminar	- 5 marks
	Total	- 150 marks*

*Total marks to be converted into 25 marks

Semester	Ι	Major Paper - 1	Hrs	Credit
Course Code	21PEC1	ADVANCED MICRO ECONOMICS - I	7	5
Pre-requisite		To develop an advanced theoretical understanding of consumer behaviour and market structure.	Syllabus Version	2021-22

- 1. Advanced micro economic provides an in-depth knowledge on microeconomic analysis, because it is the basis for applied economic research.
- 2. This course helps the students to know how the economic forces are operating in the economy.

Course Outcomes

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

- **CO1:** Deep knowledge on consumer behavior.
- **CO2:** Familiar with consumer choice.
- **CO3:** Gain analytical skill on cost, revenue and production concepts.
- **CO4:** Exposure to analysis of market structure.
- **CO5:** Understand the concept of duopoly, oligopoly and monopsony.
- Unit I
 Consumer Behaviour: Cardinal Utility Analysis: Law of Dimensions Marginal Utility - Applications. Ordinal utility Analysis: Indifference Curve Analysis -Applications and Uses - Revealed Preference Theorem - Hick's Revision of Demand Theory.
- Unit IIConsumer Choice: St. Pertersburg Paradox Neumann-Morgenstern Utility
Index Friedman Savage Hypothesis Markowitz Hypothesis.
- Unit III Cost, Revenue and Production Analysis: Cost and Revenue Concepts.
 Production Function Cobb Douglas Production Function CES Production
 Function Law of Variable Proportions Law of Returns to Scale Iso-quants Expansion Path.
- Unit IV Market Structure Analysis: Perfect Competition Features Price and Output Determination Monopoly Features Price and Output Determination Price Discrimination Monopolistic Competition Features Price and Output Determination Selling Cost.

Unit - V Duopoly, Oligopoly and Monopsony: Duopoly: Meaning - Cournot Model - Edgeworth Model - Bertrand Model. Oligopoly: Meaning - Characteristics - Collusive Oligopoly - Price Leadership - Kinked Demand Curve. Monopsony - Meaning - Price and Output Determination.

-Text Books:

- 1. Modern Micro Economics A. Koustsoyiannis
- 2. Advanced Micro Economy M. Maria John Kennedy
- 3. Advanced Economic Theory
- 4. Advanced Economic theory
- M.L. Jhingan
- H.L. Ahuja

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	9	9	9	3	1
CO2	9	1	3	3	3	9	1
CO3	9	1	1	3	9	1	1
CO4	9	3	9	3	1	1	1
CO5	9	9	1	1	9	9	9
Total	45	17	23	19	31	23	13
Weightage	5.56	2.17	2.92	2.42	3.89	2.92	1.67

Course Outcome Vs Programme Outcome

Semester	Ι	Major Paper - 2	Hrs	Credit
Course Code	21PEC2	ADVANCED MACRO ECONOMICS - I	7	5
Pre-requisite		This course deals with the interrelationships among the various macroeconomic variables and the way they impact upon the working of the economy as a whole, thereby determining the course of the economy.	Syllabus Version	2021-22

Advanced macro economics analysis founds the functional relationship and essential for the proper comprehension of the different policies and issues at aggregate level.

Course Outcomes

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

- **CO1:** Understand the basic concepts of macro economics.
- **CO2:** Gain knowledge on circular flow and national income.
- **CO3:** Exposure to theories of income and employment.
- **CO4:** Familiar with consumption function.
- **CO5:** Be aware of consumption theories.
- Unit I Introduction to Macro Economics: Meaning Nature and Scope Importance Limitations Partial Equilibrium and General Equilibrium Economic Static and Dynamic Comparative Static and Dynamic Stocks and Flows Distinction between Micro and Macro Economics.
- Unit II
 Circular Flow and National Income: Meaning of Circular flow of National Income - Two Sector Model - Three Sector Model - Four Sector Model -Importance - Meaning of National Income - Concepts - Measurement -Importance of National Income - Difficulties in the Measurement of National Income.
- Unit III Theories of Income and Employment: J.B. Say's Law Classical Theory of Income and Employment - Keynesian Theory of Income and Employment -Principle of Effective Demand - Aggregate Supply - Aggregate Demand.
- Unit IV Consumption Function: Meaning Propensity to Consume: Average Propensity to Consume Marginal Propensity to Consume Propensity to Save: Average

Propensity to Save - Marginal Propensity to Save - Importance of Consumption Function.

Unit - V Theories of Consumption: Absolute Income Theory of Consumption - Relative Income Theory of Consumption - Life Cycle Theory of Consumption - Permanent Income Theory of Consumption.

Text Books:

1.	Macro Economic Theory	-	M.L. Jhingan
2.	Macro Economics: Theory and Policy	-	Dwivedi
3.	Macro Economics: Theory and Policy	-	H.L. Ahuja
4.	Macro Economics	-	G.S. Gupta
5.	Macro Economic Theory	-	M.C. Vaish
6.	Macro Economics	-	M.L. Seth

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	1
CO2	9	3	3	3	1	9	1
CO3	9	3	3	1	9	1	3
CO4	9	3	9	3	1	1	1
CO5	9	9	3	1	9	9	1
Total	45	27	27	17	29	23	7
Weightage	5.56	3.53	3.51	2.25	3.72	3.00	0.95

Course Outcome Vs Programme Outcome

Semester	Ι	Major Paper - 3	Hrs	Credit
Course Code 21PEC3 INDIAN ECONOMY		7	5	
Pre-requisite		The course deals with the features of Indian economy and foreign trade.	Syllabus Version	2021-22

This paper is highly useful for students to know the contemporary Indian economic development policy issues, challenges and reforms.

Course Outcomes

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

CO1: Acquainted with the features of Indian economy.

CO2: Understand the performance of agricultural and industrial sector before and after reforms.

CO3: Exposure to Indian financial sector reforms.

CO4: Familiar with NITI Aayog and merits and demerits of demonetization.

CO5: Understand the concept of foreign trade and SZEs.

- Unit I Features of the Indian Economy: Economic System: Capitalism Socialism -Mixed Economy - Economic Growth and Development - Determinants of Economic Growth - Features of Indian Economy.
- Unit II Agricultural and Industrial Sectors: Performance of Agricultural Sector -Factors Determining Agricultural Growth - Agricultural Mechanization - Green Revolution - Agriculture Labour - Rural Development and Modernization -Industrial Growth Before and after Reforms - Dualism in Indian Manufacturing -Performance of Public Sector Enterprises.
- Unit III Indian Financial Sector Reforms: Financial Repression Protectionism -Revolution of Equity Market - Entry of Private Banks - The RBI Amendment Act, 2006 - Institution building of IRDA and PFRDA - Financial Innovations.
- Unit IV NITI Aayog and Demonetization: History of NITI Aayog Structure -Objectives - Functions - Demonetization: Meaning - Merits and Demerits - GST: Meaning - Importance - Effects on Indian Economy.
- Unit V Foreign Trade: Importance of Foreign Trade Composition of Foreign Trade Foreign Trade Policy Objectives and Strategies Special Economic Zones Salient Features of SEZs Performance Disadvantages. Foreign Exchange Reserves FEMA and FERA.

Text Books:

1.	Indian Economy (Wishwa Prakashan, New Delhi)	-	Agarwal, A.N.
2.	Dilemmas of Growth: Indian Experience (Sage Publications, New Delhi)	-	Pantwala, S
3.	The Indian Economy (Sultan & Chand, New Delhi)	-	Dhingra, C
4.	The Indian Economy Problems and Prospects (Viking, New Delhi)	-	Jalan, B
5.	Indian Economy (S.Chand & Co., New Delhi)	-	Datt, Rudder and K.P.M. Sundharam

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	1	1	1	3	3	3
CO2	9	3	1	9	3	0	3
CO3	9	1	9	1	3	3	3
CO4	9	3	9	9	1	1	3
CO5	9	3	1	1	1	1	1
Total	45	11	21	21	11	8	13
Weightage	5.56	1.51	2.82	2.87	1.47	1.10	1.84

Course Outcome Vs Programme Outcome

Semester	Ι	Elective Paper - 1	Hrs	Credit
Course Code	21PECE1	STATISTICS FOR ECONOMIST - I	7	5
Pre-requisite		Basic knowledge in statistical methods and tools.	Syllabus Version	2021-22

This course provides basic knowledge in statistical methods to the students and the scholars involved in social science research activities.

Course Outcomes

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

CO1: Familiar with central tendency and dispersion.

CO2: Gain knowledge in correlation and regression analysis.

CO3: Exposure to measure changes in the standard of living as well as the price level.

CO4: Deep knowledge in time series.

CO5: Understand the basic concepts of probability.

- Unit I Measures of Central Tendency and Dispersion: Meaning Advantages of Central Tendency - Types of Averages: Mean - Median - Mode - Geometric Mean
 - Harmonic Mean. Meaning of Dispersion - Advantages of Dispersion - Range -Quartile Deviation - Mean Deviation - Standard Deviation - Co-efficient of Variation.
- Unit II Correlation and Regression Analysis: Correlation: Meaning Types of Correlation - Scatter Diagram - Karl Pearson's Co-efficient of Correlation -Spearman's Rank Correlation. Regression: Meaning of Regression - Regression in two Variables - Uses of Regression.
- Unit III Index Numbers: Meaning Uses of Index Numbers Problems in the Construction of Index Numbers - Constructing Weighted Aggregative Index Numbers - Tests of Adequacy of an Index Numbers - Consumer Price Index Numbers.
- Unit IV Time Series: Definition Uses of Time Series Components of Time Series -Measurement of Trend: Graphic Method - Semi-Average Method - Moving Average Method - Method of Least Squares - Measurement of Seasonal Variation: Method of Simple average.

 Unit - V Probability: Definition and Concepts - Addition and Multiplication Theory of Probability (statement & simple problems) - Bay's Theorem - Conditional Probability - Mathematical Expectations.

Text Books:

1. Economics	and Business Statistics	-	P.A. Navanitham
2. Statistical M	lethods	-	S.P. Gupta
3. Statistics		-	R.S.N. Pillai & Bagavathi
4. Fundamenta	als of Applied Statistics	-	S.C. Gupta & V.K. Kapoor

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	1	1	1	3	1
CO2	9	3	3	1	1	9	1
CO3	9	9	3	1	9	1	3
CO4	9	1	3	1	1	1	1
CO5	9	1	1	3	9	3	3
Total	45	17	11	7	21	17	9
Weightage	9	3	1	1	1	3	1

Course Outcome Vs Programme Outcome

Semester	Ι	Elective Paper - 1	Hrs	Credit
Course Code	21PECE1	ECONOMETRIC METHODS	7	5
Pre-requisite		The practice of combining economic theory with data to make statistical inferences and predictions.	Syllabus Version	2021-22

Econometrics is the use of statistical techniques to understand economic issues and test theories. Without evidence, economic theories are abstract and might have no bearing on reality. Econometrics is a set of tools we can use to confront theory with real-world data.

Course Outcomes

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

- CO1: Well known about dynamic econometric model.
- **CO2:** Basic knowledge on dummy variables concept.
- **CO3:** Knowing the simultaneous equation models.
- **CO4:** Familiar with estimation of least square.

CO5: Exposure to time series econometrics.

- Unit I Dynamic Econometric Model: Auto-Regressive Model Distributed Lag Model - Koyck's Partial Adjustment - Adaptive Expectation - Almon Model.
- Unit IIDummy Variables: Meaning and Uses of Dummy Variables Seasonal Analysis- Dummy Independent and Dependent Variables Probit, Logit and Tobit Models.
- **Unit III** Simultaneous Equation Model: Structural Model Reduced Form Model -Recursive Model - Simultaneity Bias - Identification Problem - Rules for Identification and Choice of Econometric Methods.
- Unit IV Simultaneous Equation Methods: Indirect Least Squares Method of Estimation
 Methods of Instrumental Variables Two Stage Least Squares Method Generalized Least Squares.
- Unit V Time Series Econometrics: Stochastic Process Stationary and Non Stationary Stochastic Process - Unit root Stochastic Process- Trend Stationary and Difference Stationary Stochastic Process - Integrated Stochastic Process -Properties - Unit Root Tests - Co-integration - Economic Applications.

References:

1.	Text Book of Econometrics [McGraw-Hill, New Delhi, 2005].	-	Gujarathi, D.N.
2.	Applied Econometrics [Oxford and IBH, New Delhi, 1995]	-	Kalirajan, K.P.
3.	Econometric Theory and Applications [Prentice Hall of India, New Delhi, 1994]	-	Suresh, J. Ghosh
4.	Text Book of Econometrics [Tata McGraw-Hill, New Delhi, 2002]	-	Apte, P.G.
5.	Theory of Econometrics [MacMillan, New Delhi, 2008]	-	Koutsyiannis, A.

PO1 PO2 PO3 **PO4 PO5 PO6 PO7** CO1 CO2 **CO3 CO4 CO5** Total 5.56 1.04 1.07 Weightage 2.81 3.56 2.53 1.42

Course Outcome Vs Programme Outcome

Semester	II	Major Paper - 4	Hrs	Credit
Course Code21PEC4ADVAN ECON		ADVANCED MICRO ECONOMICS - II	6	5
Pre-requisite		Application of micro economic behaviour and models.	Syllabus Version	2021-22

The main objective of this paper is to study the concept of micro economics in advanced manner and to impart an understanding about the behaviourial pattern of economic activities.

Course Outcomes

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

CO1: Understand the difference between factor pricing and product pricing.

CO2: Familiar with the theories of distribution.

CO3: Exposure to general equilibrium analysis.

CO4: Familiar with welfare economics.

CO5: Aware of new welfare economics.

- Unit I Factor Pricing: Difference between Factor Pricing and Product Pricing Factor Pricing under Perfect Competition - Factor Pricing under Imperfect Competition -Euler's Product Exhaustion - Product Exhaustion Theorem.
- Unit II Theories of Distribution: Ricardian Theory of Distribution Marxian Theory of Distribution Marginal Productivity Theory of Distribution Kalecki's Theory of Aggregate Income Distribution Kaldors Theory of Distribution.
- Unit III General Equilibrium Analysis: Concept Partial and General Equilibrium Analysis Walrasian General Equilibrium Model 2x2x2 General Equilibrium Model Constraints to General Equilibrium Existence , Uniqueness and Stability of Equilibrium.
- Unit IVWelfare Economics: Nature and Scope Value Judgment in Welfare Economics
- Pigovian Welfare Conditions Externalities Conditions of Pareto optimality.
- **Unit V** New Welfare Economics: Kaldor-Hicks Welfare Criterion: Compensation Principles - Scitovsky Double Criterion of Welfare - Arrow's Impossibility Theorem.

Text Books:

1.	Modern Micro Economics	-	A. Koustsoyiannis
2.	Advanced Micro Economy	-	M. Maria John Kennedy
3.	Advanced Economic Theory	-	M.L. Jhingan
4.	Advanced Economic theory	-	H.L. Ahuja

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C01	9	3	3	9	1	9	1
CO2	9	1	3	9	1	3	1
CO3	9	9	3	3	3	3	1
CO4	9	9	9	1	3	9	3
CO5	9	1	9	1	1	1	3
Total	45	23	27	23	9	25	9
Weightage	5.56	3.52	4.12	3.63	1.35	3.83	1.50

Course Outcome Vs Programme Outcome

Semester	II	Major Paper - 5	Hrs	Credit
Course Code	21PEC5	ADVANCED MACRO ECONOMICS - II	6	5
Pre-requisite		exposure to some later developments in trade cycle and IS-LM curve model.	Syllabus Version	2021-22

Macro economics founds the functional relationship and essential for the proper comprehension of the different policies and issues at aggregate level. It is more scientific and blends itself with same empirical economic knowledge.

Course Outcomes

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

CO1: Gain insight into investment function.

CO2: Exposure to demand and supply of money.

CO3: Understand the concept of multiplier and accelerator.

CO4: Familiar with trade cycle and IS-LM curve model.

CO5: Deep knowledge in monetary and fiscal policy.

- Unit I Investment Function: Meaning of Investment Types Determinants of the level of Investment Marginal Efficiency of Capital Marginal Efficiency of Investment Relationship between MEC and MEI.
- Unit II Demand and Supply of Money: Demand For Money The Classical Approach: Fisher's Version - The Keynesian Approach - The Post-Keynesian Approach: Baumol - Tobin - Supply of Money - Definition - Determination of Money Supply - High Powered Money.
- Unit III Multiplier and Accelerator: Meaning of Multiplier Working of Multiplier Leakages Importance Criticisms Employment Multiplier Investment Multiplier Static and Dynamic Multiplier Balanced Budget Multiplier Foreign Trade Multiplier Meaning of Accelerator Working Limitations Multiplier and Accelerator Interaction.
- Unit IV Trade Cycle and IS-LM Curve Model: Meaning of Trade Cycle Features -Phases - Keynes's Theory of Trade Cycle - Samuelson's Theory of Trade Cycle -Hick's Theory of Trade Cycle - Goods Market and Money Market - Derivation of IS Curve - Shift in IS Curve - Derivation of LM Curve - Shift in LM Curve -Intersection of IS and LM Curve.

 Unit - V Monetary and Fiscal Policy: Meaning of Monetary Policy - Objectives -Instruments - Limitations - Objectives of Fiscal Policy - Role of Fiscal Policy in Developing Countries - Instruments - Limitations - Monetary and Fiscal Policy Mix to Control Inflation and Unemployment.

Text Books:

1.	Macro Economic Theory	-	M.L. Jhingan
2.	Macro Economics: Theory and Policy	-	H.L. Ahuja
3.	Keynes Post Keynesian Economics	-	R.D. Gupta
4.	Introduction of Keynesian Economics	-	M.L. Seth, R. Cauvery, Sudha Nayak

5. Macro Economics

M. Girija & R. Meenakshi

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	3	1	1	3	9
CO2	9	9	3	1	1	9	3
CO3	9	9	3	3	1	3	9
CO4	9	3	1	1	1	3	3
CO5	9	9	1	1	1	9	3
Total	45	33	11	7	5	27	27
Weightage	5.56	5.14	1.77	1.17	0.80	4.25	4.64

Course Outcome Vs Programme Outcome

_

Semester II		Major Paper - 6	Hrs	Credit
Course Code	21PEC6	HEALTH ECONOMICS	6	5
Pre-requisite		The course enables the policy makers to take decision on how to acquire resources for the health sector, and how best to use the scarce resources for the production of health services.	Syllabus Version	2021-22

To enable the students to know how scarce resources are allocated among alternative uses for the care of sickness and the promotion, maintenance and improvement of health.

Course Outcomes

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

CO1: Know the role of health in economic development.

- **CO2:** Understand the basic concept of Human Development Index.
- **CO3:** Familiar with capital formation in health care.
- **CO4:** Exposure to micro economics of health services.

CO5: Know the significance of health in LDCs.

- Unit I Introduction: Definition of Health Economics Nature and Significance Area Focus on Health Economics - Role of Health in Economic Development - Health Related Goods and Services.
- Unit II Health and Development: Income and Health Linkages Concept of Well Being
 Physical Quality of Life Index Human Development Index Poverty and
 Health Occupational Health Hazards Fertility Mortality and Life Expectancy
 Nutrition and Health Malnutrition Under Nutrition.
- **Unit III Health Care Finance:** Economics of Public Health Education and Health Health Care Planning Need for Planning Health Insurance Health Care Finance Capital Formation in Health Care.
- **Unit IV** Micro Economics of Health Services: Demand for Health Services Preference for Health Care and Health Cure Income and Price Effects- Physician as a Price Discriminating Monopolist Health Production Function.
- Unit V Health in Developing Countries: Significance of Health in LDCs Measuring the Burden of Disease - Concept of Disability Adjusted Life Years (DALYs) and Quality-Adjusted Life Years (QALYs) - Challenges for the future.

Text Books:

1.	Health Issues and Challenges	-	Dhandapani. C
2.	Hand Book of Health Economics	-	Gulyr.A.J
3.	Health Management	-	Preethi Oberoi
4.	The Economics of Health Care: An Introductory Text	-	Alistair McGuire, John Henderson and Gowin Money

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	9	9	9	3	9
CO2	9	3	1	9	3	9	3
CO3	9	3	1	3	9	1	1
CO4	9	1	9	9	1	1	1
CO5	9	1	9	1	9	9	9
Total	45	11	29	31	31	23	23
Weightage	5.56	1.81	4.79	5.33	5.07	3.75	4.11

Course Outcome Vs Programme Outcome

Semester	II	Elective Paper - 2	Hrs	Credit
Course Code	21PECE2	STATISTICS FOR ECONOMIST - II	6	5
Pre-requisite		Application of advance statistical methods in social science research activities.	Syllabus Version	2021-22

This paper provides advance knowledge in statistical methods to the students and the scholars involved in social science research activities.

Course Outcomes

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

CO1: Exposure to probability distribution.

CO2: Familiarity with testing of hypothesis.

CO3: Deep knowledge in Chi-square test and analysis of variance.

CO4: Familiarity with statistical quality control.

CO5: Understand the various sources of Indian statistics.

- Unit I Probability Distribution: Random Variables Types of Random Variables Probability Distribution Binomial Distribution Poisson Distribution Normal
 Distribution (only definition, uses, properties without proof and simple problems).
- Unit II Tests of Hypothesis: Null and Alternative Hypothesis Type I and Type II Error
 One-tailed and Two-tailed Tests of Hypothesis Standard Error Point and Interval Estimation - Properties of a Good Estimator - Test of Significance for Attributes - Tests of Significance of Large and Small Samples - Student's t-test.
- Unit III Chi-square Test and Analysis of Variance: Definition of Chi-square test Uses
 Degree of Freedom Properties of Chi-square test F-test Meaning of Analysis of Variance - Techniques of Analysis of Variance - One way classification model - Two way classification model.
- Unit IV Statistical Quality Control: Control Charts Meaning types of control charts setting up a control procedure X Chart Control chart for C (no. of defects per unit) Control chart for P (fraction defective) Advantage and Limitations of Statistical Quality Control.

Unit - V Indian Statistics: Central Statistical Organisation - Agricultural Statistics - National Income and Social Accounting - Population Statistics - National Sample Survey Organisation - Industrial Statistics - Trade Statistics - Financial Statistics - Labour Statistics - Critical Appraisal of Indian Statistics.

Text Books:

1.	Statistical Methods: Concepts, Application and Computations	s -	Y. P. Agarwal
2.	Methods of Statistical Analysis	-	P.S. Grewal
3.	Statistical Methods	-	S. P. Gupta
4.	An Introduction to Statistical Methods	-	C. B. Gupta
5.	Statistics	-	R.S.N. Pillai & Bagavathi
6.	Economics and Business Statistics	-	P.A. Navanitham
7.	Fundamentals of Applied Statistics	-	S.C. Gipta & V.K. Kapoor

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	9	9	1	3	3
CO2	9	3	3	3	9	9	3
CO3	9	1	1	3	9	9	9
CO4	9	3	9	1	3	3	1
CO5	9	9	9	9	3	1	1
Total	45	19	31	25	25	25	17
Weightage	5.56	3.26	5.24	4.45	4.22	4.22	3.20

Course Outcome Vs Programme Outcome

Semester	II	Elective Paper - 2	Hrs	Credit
Course Code	21PECE2	COMPUTER APPLICATIONS IN ECONOMICS	6	5
Pre-requisite		This course provides the foundation for the computer application in Economics.	Syllabus Version	2021-22

To make the students to know the basic concepts of computer, usage of internet and its applications in economic analysis which will be useful to the social science research scholars in general and economic research scholars in particular.

Course Outcomes

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

CO1: Familiarity with MS Word and PowerPoint.

- **CO2:** Gain knowledge in MS Excel.
- **CO3:** Understand the basic concepts of graphs and charts.

CO4: Develop skill to analysis data.

CO5: Deep knowledge in non-parametric test.

- Unit I MS Word and PowerPoint: Basics of MS Word Formatting Text Working with Header, Footer and Footnotes Creation of Tables Using Auto Correct Basics of PowerPoint Working with Text, Graphics and Multimedia Creation PowerPoint Slide.
- Unit II MS Excel: Data Entry Formatting Cell Formula: Using Arithmetic and Relational Operators in a Worksheet - Advanced Formulas: Sum, Count, Average, Max, Min, Product - Using Auto Format.
- **Unit III Graphs and Charts:** Bar diagrams, Pie Charts, Area- Building Line Diagrams, Histograms, Scatter Plots- Frequency Graphs, Ogive, Lorenz Curve- Time Series.
- Unit IV Data Analysis I: 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, Partial Regression: Linear, Curve Estimation, Multiple Regression.
- Unit V Data Analysis II: Classification: K-Means Cluster, Hierarchical Cluster, Discriminant Function Non-parametric Test: Chi-square, Bi-nominal Time Series Exponential Smoothing, Auto regression, Seasonal Decomposition.

Text Books:

1.	Fundamentals of Computers (Prentice Hall of India, New Delhi)	-	V. Rajaraman
2.	Computer Fundamentals (BPB Publications, New Delhi)	-	P. K. Sinha
3.	Computer Application in Economics (Vrinda Publication, New Delhi)	-	K. Dhanasekaran
4.	Discovering Statistics Using SPSS for Windows Advanced Techniques for the Beginner	-	Andy Field

(Sage Publications, New Delhi).

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	3	3	3	3	9
CO2	9	9	9	3	3	9	3
CO3	9	9	1	1	1	3	1
CO4	9	1	1	3	1	3	9
CO5	9	9	1	3	1	9	1
Total	45	31	15	13	9	27	23
Weightage	5.56	5.46	2.67	2.45	1.62	4.70	4.51

Course Outcome Vs Programme Outcome

Semester	II	Extra Disciplinary Paper - 1	Hrs	Credit
Course Code	21PECED1	GENERAL STUDIES FOR COMPETITIVE EXAMINATIONS	5	5
Pre-requisite		The course deals with teaching and research aptitude, reasoning, data interpretation and environmental concepts.	Syllabus Version	2021-22

This paper would help the students to get adequate knowledge on general studies for all competitive examinations.

Course Outcomes

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

- **CO1:** Understand the concept of teaching and research aptitude.
- **CO2:** Able to read comprehension and communication.
- **CO3:** Gain knowledge on the concept of reasoning.
- **CO4:** Able to analysis and mapping of data.

CO5: Familiarity with environmental concepts and higher education system.

- Unit I Teaching and Research Aptitude: Teaching: Nature Objectives -Characteristics and Basic Requirements - Learner's Characteristics - Factors Affecting Teaching - Methods of Teaching - Teaching Aids - Evaluation Systems. Research: Meaning - Characteristics and Types - Steps of Research - Methods of Research - Research Ethics - Paper - Article - Workshop - Seminar - Conference and Symposium - Thesis Writing: Its Characteristics and Format.
- Unit II Reading Comprehension and Communication: A passage to be set with questions to be answered Communication: Nature Characteristics Types Barriers and Effective Classroom Communication.
- Unit III Reasoning (including Mathematical) Number Series Letter Series Codes Relationships Classification Logical Reasoning: Understanding the Structure of Arguments Evaluating and Distinguishing Deductive and Inductive Reasoning Verbal Analogies: Word Analogy Applied Analogy Verbal Classification Reasoning Logical Diagrams: Simple Diagrammatic Relationship Multi-diagrammatic Relationship Venn Diagram Analytical Reasoning.

- Unit IV Data Interpretation and ICT: Sources Acquisition and Interpretation of Data -Quantitative and Qualitative Data - Graphical Representation and Mapping of Data - Information and Communicating Technology (ICT): Meaning - Advantages
 - Disadvantages and Uses - General Abbreviations and Terminology - Basics of Internet and E-Mailing.
- Unit V Environment and Higher Education System: People and Environment Interaction Sources of Pollution Pollutants and their Impact on Human Life Exploitation of Natural and Energy Resources Natural Hazards and Mitigation Higher Education System : Governance Polity and Administration; Structure of the Institutions for Higher Learning and Research in India; Formal and Distance Education Professional/Technical and General Education -Value Education: Governance, Polity and Administration Concept Institutions and their Interactions.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	3	9	1	3	1
CO2	9	3	3	3	3	9	3
CO3	9	3	1	3	9	9	1
CO4	9	1	3	9	1	1	1
CO5	9	3	3	3	9	9	9
Total	45	13	13	27	23	31	15
Weightage	5.56	2.43	2.45	5.27	4.31	5.53	3.13

Course Outcome Vs Programme Outcome

Semester	III	Major Paper - 7	Hrs	Credit
Course Code	21PEC7	RESEARCH METHODOLOGY	6	5
Pre-requisite		The fundamental methods and techniques of academic research in social sciences.	Syllabus Version	2021-22

This paper would make the students to know the basic concepts and methods in research methodology. This paper helps the students to pursue further research such as M.Phil. and Ph.D. in economics.

Course Outcomes

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

- **CO1:** Familiar with various concepts of research methodology.
- CO2: Know about research problem and design.
- **CO3:** Be aware of collection and analysis of data.
- **CO4:** Understand the sampling techniques and test of hypothesis.

CO5: Gain knowledge on report writing and plagiarism.

- Unit I Introduction: Meaning of Research Types of Research Scope of Research in Economics Significance of Research in Economics Qualities of a Good Research. Literature Review: Review of Literature Need for Reviewing Literature, Sources of Literature.
- Unit II Research Problem and Design: Formulation of Research Problem Sources of Research Problem - Meaning of Research Design - Definition - Concepts - Need for Research Design - Steps in Research Design.
- Unit III Collection and Analysis of Data: Method of Collecting Primary Sources of Secondary Data - Preparation of Master Table - Data Processing - Analytical Tables - Scaling Techniques - Analysis of Data - Interpretation of Data.
- Unit IV Sampling Techniques and Test of Hypothesis: Meaning of Sampling Essential of Good Sampling Methods of Sampling Random and Non-Random Sampling
 Simple Random Sampling Systematic Sampling Convenience Sampling Quota Sampling Meaning of Hypothesis Formulation of Hypothesis Types of Hypothesis Null and Alternative Hypothesis Testing of Hypothesis.
- Unit V Report Writing: Structure of Research Report Problems of Report Writing -Qualities of a Good Report - Contents of the Report - Research Ethics - Dealing with Plagiarism/Similarity in Report Writing.

. Reference Books:

1.	"Methodology of Research in Social Sciences (Himalaya publishing House, Mumbai)	-	Krishnaswamy, O.R.
2.	Research Methodology, Methods and Techniques (New Age International Publication, New Delhi)	-	Kolthari, C.R.
3.	Research Methodology (Kitab Publication, Allahabad)	-	Saravanavel, P.
4.	Research Methodology in Social Sciences (Deep and Deep Publications, Mumbai)	-	Thakur, Devendra

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	3	3	9	3	9
CO2	9	9	3	3	3	9	3
CO3	9	3	1	1	9	3	9
CO4	9	1	9	1	3	3	1
CO5	9	9	9	3	3	9	9
Total	45	31	25	11	27	27	31
Weightage	5.56	5.94	4.90	2.30	5.23	4.97	6.65

Course Outcome Vs Programme Outcome

Semester	III	Major Paper - 8	Hrs	Credit
Course Code	21PEC8	MATHEMATICAL ECONOMICS	6	5
Pre-requisite		Application of mathematical methods to represent theories and analyze problems in economics.	Syllabus Version	2021-22

The objective of this paper is to introduce the basic techniques of mathematics relating to economics and to get an insight into economic problems with the help of mathematical tools.

Course Outcomes

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

CO1: Familiar with the concept of differential calculus and derivatives.

CO2: Know the applications of differential calculus in economics.

CO3: Understand the concept of consumer behavior and production function.

CO4: Gain knowledge about market structure.

CO5: Become familiar in solving linear programming problems.

- **Unit I Differential Calculus and Derivatives:** Rules of Differentiation Order Conditions for Maxima and Minima Partial Derivatives.
- Unit II Application of Differential Calculus: Revenue Function Cost Functions -Profit Function - Elasticity of Demand - Relationship between Total Revenue, Average Revenue, Marginal Revenue and Elasticity of Demand.
- Unit III Consumer Behaviour and Production: Utility Function Indifference Curve -Consumer Equilibrium - Price Effect - Income Effect - Substitution Effect -Production Function - Homogeneous Production Function - Cobb-Douglas Production Function - Properties.
- **Unit IV Market Equilibrium:** Determination of Price and Output under Perfect Competition - Monopoly - Discriminating Monopolist - Multiple Plant Monopolists - Cournot Duopoly.
- Unit V Linear Programming Problem: Meaning Mathematical Formulation of LPP -Matrix form of LPP - Feasible Region - Feasible Solution - Optimal Solution -Graphical Method of Solving LPP.

Text Books:

1.	Mathematical Analysis for Economics	-	Allen, R.G.D.
2.	Modern Micro Economics	-	Koutsoyiannis, A.
3.	Mathematics for Economists	-	Metha and Madnani
4.	An Introduction to Mathematical Economics	-	Bose, D.
5.	Fundamental Methods of Mathematical Economics	-	Alpha C Chiang
6.	Mathematics for Economics	-	Tara Yamne

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	1	9	9	9	3	9
CO2	9	9	1	1	3	6	3
CO3	9	1	1	1	9	1	1
CO4	9	3	9	9	1	1	1
CO5	9	1	1	1	1	9	9
Total	45	15	21	21	23	20	23
Weightage	5.56	3.05	4.32	4.63	4.66	3.86	5.18

Semester	III	Major Paper - 9	Hrs	Credit
Course Code	21PEC9	INDUSTRIAL ECONOMICS	6	5
Pre-requisite	•	Relation between industrialization and economic development.	Syllabus Version	2021-22

The objective of this paper intends to provide knowledge to the students on the basic issues as productivity, efficiency, capacity utilization and debate involved in industrial development.

Course Outcomes

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

CO1: Understand the role of industrialization in economic growth.

CO2: Familiar with industrial organization and ownership pattern.

CO3: Exposure to the theories of industrial location.

CO4: Aware of industrial policy and legislation.

CO5: Understand the concept of industrial productivity and finance.

- Unit I Industrialization and Economic Development: Meaning Characteristics -Classification of Industrialization - Industrialization and Economic Growth -Determinants of Industrial Growth - Factors inhibiting Industrialization.
- Unit II Industrial Organization and Ownership Pattern: Meaning Organizational Forms - Public Sector Enterprises - Private Sector - Joint Sector - Productive Cooperatives - Consumer Co-operatives - Credit Co-operatives.
- Unit III Theories of Industrial Location: Weber's Theory of Location Sargant Florence's Theory - Factors Influencing Industrial Location - Balanced Regional Development of Industries - Need for Balanced Regional Development in India.
- Unit IV Industrial Policy and Legislation: Industrial Policy 1991 Impact of Liberalization, Privatization and Globalization on Industrial Sector Social Security Measures in India Wages and Problem of Bonus.
- Unit V Industrial Productivity and Finance: Measurement of Productivity Tools of Productivity Factors Influencing Industrial Productivity. Need for Finance - Types of Institutional Finance for Industries - IFCI - ICICI - IDBI - SFCs - SIDC -NIDC - Commercial Banks etc.

Text Books:

1.	The Growth of Industrial Economics	-	W. Hoffman
2.	Industrial Economy of India	-	S.C. Kuchhal
3.	Industrial Economics	-	R. Barthwal
4.	Indian Industrial Economy	-	K.V Sivayya & V.B.M. Das

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	9	9	9	3	1
CO2	9	3	1	3	3	9	1
CO3	9	1	1	3	1	1	1
CO4	9	1	1	1	1	1	3
CO5	9	1	1	1	3	3	1
Total	45	9	13	17	17	17	7
Weightage	5.56	1.97	2.86	3.99	3.65	3.47	1.72

Course Outcome Vs Programme Outcome

Semester	III	Major Paper - 10	Hrs	Credit
Course Code	21PEC10	INTERNATIONAL ECONOMICS	6	5
Pre-requisite		The course deals with theories of international trade and foreign trade policy.	Syllabus Version	2021-22

This paper is mainly concerned with the theories of international trade. It provides some basic knowledge of international economics to the students in a rigorous and comprehensive manner.

Course Outcomes

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

- CO1: Familiar with various theories of international trade.
- CO2: Familiar with trade policy and its analysis.
- CO3: Have an elementary understanding of state trading and exchange control.
- CO4: Understanding international monetary system and its importance
- CO5: Gain knowledge on globalization and foreign aid.
- Unit I Theories of International Trade: Internal and International Trade Absolute Cost Advantage and Comparative Cost Advantage Mill's Theory of Reciprocal Demand Heckscher-Ohlin Theory Leontief Paradox Samuelson Theory Intra-Industry Trade Theory Kravis Theory of Availability.
- Unit II
 Trade Policy: Free Trade Vs Protection Tariffs: Meaning Types Effects of Tariff Quotas: Meaning Types Effects of Import Quotas. Dumping: Essential Conditions Effects of Dumping on Importing and Exporting Countries Anti-Dumping Measures.
- Unit III State Trading and Exchange Control: Objectives Merits and Demerits of State Trading - State Trading in India. Exchange Control: Meaning - Objectives -Features - Methods - Merits and Demerits.
- Unit IV International Organization and Monetary System: Liquidity Problem Role of IMF - Special Drawing Rights - SAARC - UNCTAD - BRICS - ASEAN -NAFTA - GATT.

Unit - V Globalization and Foreign Aid: Meaning - Strategy - Impacts - Case for and against Globalization - Foreign Aid: Types - Role of Foreign Aid in Economic Development.

Cherunelam

M.L.Jhingan

Desai

Text Books:

- 1. International Economics D.M. Mithani
- 2. International Economics -
- 3. International Economics Charles Van
- 4. International Economics
- 5. International Economics
- 6. International Economics M.C Vaish Sudhma Singh

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	9	9	9	3	1
CO2	9	1	3	1	3	9	1
CO3	9	1	1	1	9	1	9
CO4	9	3	9	3	1	1	1
CO5	9	3	1	3	3	3	3
Total	45	11	23	17	25	17	15
Weightage	5.56	2.61	5.32	4.27	5.61	3.68	3.99

Course Outcome Vs Programme Outcome

_

Semester	III	Elective Paper - 3	Hrs	Credit
Course Code	21PECE3	HUMAN RESOURCES MANAGEMENT	5	5
Pre-requisite		Provides wide knowledge about recruitment, selection, leadership, industrial relation and collective bargaining and employee welfare.	Syllabus Version	2021-22

The paper is to impart to the students to understanding the role of HRM, the selection process and various test of interviews. It is also very to learn more knowledge about the various bargaining system and human resource agencies.

Course Outcomes

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

- CO1: Understand about human resources and its functions.
- CO2: Familiar with concept of recruitment and selection.
- CO3: Gain knowledge on leadership.
- CO4: Understanding industrial relation.
- CO5: Know about bargaining system and human resource agencies.
- Unit I Human Resource Management: Definition Objectives Functions Scope -Importance - HRM in India - Evolution of HRM - Human Resource Planning - Job Analysis, Job Description and Job Specification.
- Unit II Recruitment and Selection: Sources of Recruitment Selection Process Test Types - Interview Types - Career Planning Vs Manpower Planning and Succession Planning - Process - Career Development - Placement and Induction.
- Unit III Leadership: Definition Need of Leadership Functions of a Leader Qualities of Leadership Types of Leader Techniques of Leadership Characteristics of Leadership Leadership Style.
- Unit IV Industrial Relations: Meaning and Characteristics of Industrial Relations -Nature of Trade Unions - Problems of Trade Union - Measures to strengthen Trade Union Movement in India - Causes for Industrial Disputes - Settlement of Industrial Disputes.

Unit - V Human Resources and Collective Bargaining: Collective Bargaining - Features
 - Pre-requisite of Collective Bargaining - Agreement at different levels - Workers
 Participation in Management - Objectives for Successful Participation.

Text Books:

1.	Personnel and Human Resource Management	-	P.Subba Rao
2.	Human Resource and Personnel Management	-	K.Aswanthappa
3.	Human Resource Management	-	Pattanayak
4.	Human Resource Management	-	C.B. Gupta
5.	Principles of Management	-	T. Ramasamy

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	9
CO2	9	9	1	9	3	9	3
CO3	9	3	1	3	9	1	1
CO4	9	3	9	9	1	1	1
CO5	9	1	3	1	9	9	9
Total	45	25	23	31	31	23	23
Weightage	5.56	6.22	5.61	8.07	7.18	5.23	6.50

Course Outcome Vs Programme Outcome

Semester	III	Elective Paper - 3	Hrs	Credit
Course Code	21PECE3	ECONOMICS OF CLIMATE CHANGE	5	5
Pre-requisite			Syllabus Version	2021-22

- 1. To analyse how changes in the climate, such as temperature, precipitation and run-off, affect our potential.
- 2. To describe synergies and conflicts between national and international measures that aim to reduce emissions of greenhouse gases and other air pollutants.

Course Outcomes

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

- **CO1:** Understand the causes and impact of climate change.
- **CO2:** Exposure to economic policies for climate change mitigation.
- **CO3:** Knowledge on adapting to climate change.
- **CO4:** Familiar with the fundamentals for natural resource management.

CO5: Know the national and international policies for "climate smart".

- Unit I Introduction: Greenhouse Gas Emissions and Rising Global Temperature -Climate Change and Economy Transmission Mechanisms - Impact of Climate Change on Human Well-Being - Impact of Climate Change on Developed and Poor Economies.
- Unit II Economic Policies for Climate Change Mitigation: Need for Climate Change Mitigation Concept of "Market Failure" and how it causes Climate Change Using Prices and Markets For Climate Change Mitigation: Taxes, Carbon Emissions Trading ('Cap-And-Trade') and Regulations Promoting Green Technology Ethics of Climate Change: Limits of Cost-Benefit Analysis.
- Unit III Adapting to Climate Change: Case for Adaptation to Climate Change Adaptive Management of Risk: Managing Physical, Financial and Social Risks International Action and Adaptation in Developing Nations.
- Unit IV Natural Resources Management: Fundamentals for Natural Resource Management - Economics of Water Use in Context of Climate Change - Climate Change and Efficient Management of Agriculture and Fisheries - Sustainable Energy.

Unit - V Local and Global Action: Economic Incentives for "Climate Smart" Individual Action - Role of Firms in Climate Change Adaptation and Mitigation - National and International Policies for "Climate Smart" Innovation and Technology Diffusion.

References:

- 1. Nicholas Stern (2010), A Blueprint For A Safer Planet London: Vintage Books.
- United Nations Development Programme (2007), Human Development Report 2007/2008: Fighting Climate Change (Available online http://hdr.undp.org/en/reports/global/hdr2007-2008/)
- 3. The World Bank (2010), World Development Report 2010: Development and Climate Change (Available online http://econ.worldbank.org)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	3	3	9	9	3	9
CO2	9	9	1	9	3	9	3
CO3	9	3	1	3	9	1	1
CO4	9	1	9	9	1	1	1
CO5	9	9	3	1	3	3	3
Total	45	25	17	31	25	17	17
Weightage	5.56	6.54	4.45	8.38	6.07	4.13	5.21

Course Outcome Vs Programme Outcome

Semester	IV	Major Paper - 11	Hrs	Credit
Course Code	21PEC11	PUBLIC FINANCE	6	5
Pre-requisite		The course deals with recent tax structure in India	Syllabus Version	2021-22

- 1. The learning objective of this paper is to impart to the students to get through understanding of the role and functions of the Government in a modern economy.
- 2. To introduce to the students the nature and theories of public goods. To make the students aware of the recent trends in taxations and budgetary policy.

Course Outcomes

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

- **CO1:** Under the nature and scope of public finance.
- CO2: Know the causes for the growth of public expenditure and sources of public revenue.

CO3: Deep knowledge on public debt and budget.

CO4: Exposure to fiscal and monetary policy.

CO5: Familiarity with principles of federal finance.

- Unit I Introduction: Nature and Scope of Public Finance Public and Private Finance Public Goods Private Goods Merit Goods Market Failure Problem of
 Allocating Resources Principle of Maximum Social Advantage.
- Unit II Public Expenditure and Revenue: Public and Private Expenditure Causes for the Growth of Public Expenditure Types of Public Expenditure Reforms in Public Expenditure Sources of Public Revenue Tax Revenue and Non-Tax Revenue Canon's of Taxation Direct and Indirect Taxes MANVAT MODVAT VAT GST.
- Unit III Public Debt and Budget: Meaning of Public debt Classification Importance -Burden and Effects, Public debt in India - Control of Public debt - Meaning of Budget - Objective - Requirements of a good budget - Performance of Budgeting - Zero Base Budgeting.
- Unit IV Fiscal and Monetary Policy: Fiscal Policy Fiscal and monetary policies Fiscal deficit and its Measurement Fiscal Policy for Stabilization Fiscal Policy and Liberalization Meaning and Significance of Budgetary Account Revenue Account Capital Account.

Unit - V Fiscal Federalism: Fiscal Federalism - Principles of Federal Finance - Fiscal Federalism in India - Assignment of Functions and Sources of Revenue - Finance Commission and Planning Commission - Resource Transfer Mechanism in India - Transfer of Resources from Union and State to Local Bodies - Union State Financial Relations - Problem of State Indebtedness.

Text Books:

1.	Public Expenditure	-	J. Burkhed & J. Mincer.
2.	Public Finance in Theory and Practice	-	R.A. Musgrave & P.A. Musgrave
3.	Public Expenditure	-	J. Burkhed & J. Mincer
4.	Public Finance	-	H L Rhatia
5.	Public Finance	-	KPM Sundaram
6.	Public Finance	-	Sarena & Mathur
7.	Public Expenditure	-	J. Burkhed & J. Mincer
8.	Public Finance	-	M. Maria John Kennedy

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	1	9	3	3	3	3
CO2	9	1	1	1	3	9	3
CO3	9	3	1	3	9	9	1
CO4	9	3	9	9	1	1	1
CO5	9	1	3	1	9	9	3
Total	45	9	23	17	25	31	11
Weightage	5.56	2.60	6.39	4.97	6.38	7.79	3.77

Course Outcome Vs Programme Outcome

Semester	IV	Major Paper - 12	Hrs	Credit
Course Code	21PEC12	ECONOMICS OF DEVELOPMENT AND PLANNING	6	5
Pre-requisite		The course deals with models of economic growth and development.	Syllabus Version	2021-22

- 1. The objective of this paper is to understand the relevance of economics in growth and development perspectives.
- 2. This will enable the students to study functional growth models relevant to economic development.

Course Outcomes

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

- **CO1:** Understand the various theories of economic development.
- **CO2:** Gain knowledge on various growth models.
- **CO3:** Need for planning in India.
- **CO4:** Understand the sustainable development.
- **CO5:** Gain knowledge on the choice of technique and transfer of technology.
- Unit I Theories of Economic Development: Nurkse's Theory of Disguished Unemployment - Lewi's Theory of Unlimited Supplies of Labour - Critical Minimum Effort Theory - Nelson's Low-level Equilibrium Trap - The "Big Push" Theory - Dualistic Theories.
- Unit II Growth Models: Harrod-Domar Models Kaldor Model of Distribution Joan Robinson's Model of Capital Accumulation - Meade's Model of Economic Growth - Mahalanobis Model.
- Unit III Economic Planning: Meaning Need for Planning in UDCs Planning in a Mixed Economy - Plan Formulation and Requisites for Successful Planning -Planning under Capitalism and Socialism - Planning in a Mixed Economy.
- Unit IV Sustainable Development: Meaning Objectives Environmental Problems -Causes of Environmental Degradation - Policies of Sustainable Development -Measuring Sustainable Development.

 Unit - V
 Choice of Techniques and Transfer of Technology: Choice of Techniques: Labour Intensive Techniques - Capital Intensive Techniques. Transfer of Technology: Need for Transfer of Technology - Channels for technology Transfer- Problems in Technology Transfers - Appropriate Package of Technology Transfers.

Text Books:

1.	Economics of Development and Planning	-	M.L. Jhingan
2.	Economics of Development and Planning	-	A.N. Agarwal & Kundan Lal
3.	Economic Planning	-	M.L. Seth
4.	Economic of Growth and Development	-	Mirsa and Puri

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	3	1	1	3	1
CO2	9	9	1	9	3	9	3
CO3	9	1	1	1	9	3	9
CO4	9	3	9	9	9	3	3
CO5	9	1	3	3	3	9	1
Total	45	23	17	23	25	27	17
Weightage	5.56	6.39	4.80	6.61	6.38	6.85	5.70

Course Outcome Vs Programme Outcome

Semester	IV	Major Paper - 13	Hrs	Credit
Course Code	21PEC13	ECONOMICS FOR IES /NET /SET	6	5
Pre-requisite		Basic economic concepts related to competitive examinations.	Syllabus Version	2021-22

To assist the students to understand the concepts in economics and to help the students to prepare for IES / NET / SET.

Course Outcomes

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

CO1: Familiar with the concepts of micro and macro economics.

CO2: Knowledge on economic models and public finance.

CO3: Exposure to the concepts of monetary economics.

CO4: Understand the features of Indian economy.

CO5: Gain knowledge on quantitative economics.

Unit - I Micro and Macro Economics: Theory of Demand - Demand Functions -Consumer Behaviour - Under Conditions of Uncertainty - Theory of Production -Collusive and Non-Collusive Oligopolies - Different Models of Objectives of the Firm - Baumol, Morris and Williamson Factor Pricing - General Equilibrium and Welfare Economics.

> Keynesian and Post-Keynesian Approaches to theory of Output and Employment; Concept of Investment Multiplier; Consumption Hypotheses - Theories of Investment and Accelerator - Theories of Demand for Money - Keynesian and Post-Keynesian - Different Approaches to Money Supply - Money Supply -Components and Determinants - Money Multiplier - Output - Price Determination (Aggregate Supply and Aggregate Demand Curve Analysis) Fleming-Mundell Open Economy Model.

 Unit - II
 Development and Public Finance: Development and Growth - Role of Institutions - Theories of Growth and Development - Models of Growth of Joan Robinson and Kaldor Technical Progress - Hicks - Harrod - Production Function Approach to the Determinants of Growth: Endogenous Growth: Role of Education - Research and Knowledge - Explanation of Cross Country Differentials in Economic Development and Growth. Theories of Development -Classical - Marx - Schumpeter and Structural Analysis of Development -Imperfect Market Paradigm - Lewis Model of Development - Ranis-Fei Model - Dependency Theory of Development - Factors in Economy Development -Natural Resources - Population - Capital - Human Resource Development and Infrastructure - Trade and Development - Trade as Engine of Growth.

Theories of Taxation - Types - Incidence and Effects - Theories of Public Expenditure - Effects on Savings - Investment and Growth Burden of Public Debt - Union Finance - Trends in Revenue and Expenditure of the Government of India - State Finance - Trends in Revenue and Expenditure of the State Governments - Public Debt - India's Public Debt Since 1951 - Growth Composition - Ownership pattern and Debt Management - Union-State Financial Relations - Horizontal and Vertical Imbalances; the Finance Commissions - Fiscal Policy and Fiscal Reforms in India.

Unit - III Monetary Economics: Monetary Approach and Adjustment in the Balance of Payments - Multilateralism and World Trading System - The Political Economy of Imposition of Non-tariff Barriers - International Trade Under Conditions of Imperfect Competition in Goods Market - Theory of International Reserves -Theory and Impact in the Developed and Developing Countries - WTO and its Impact on the Different Sectors of the Economy.

> Components of Money Supply - Role - Constituents and Functions of Money and Capital Markets - RBI - Recent Monetary and Credit Policies - Commercial Banks and Cooperative Banks - Specialized Financial and Investment Institutions - Non-Bank Financial Institutions and Regional Rural Banks.

 Unit - IV
 Indian Economy: Industrial Structure and Economic Growth - Pattern of Industrialization - Public and Private; Large and Small Industries - Theories of Industrial location - Indian Experience - Industrial Productivity - Measurement -Partial and Total Trends - Industrial Finance in India - Industrial Labour -Problems - Policies and Reforms in India - Economic Reforms and Industrial Growth.

> Population and Economic Development - interrelation between Population -Development and Environment - Sustainable Development - Malthusian Theory of Population - Optimum Theory of Population - Theory of Demographic Transition - Population as 'Limits to Growth' and as 'Ultimate Source' - Concepts of Demography - Vital Rates, Life Tables, Composition and Uses - Measurement of Fertility - Total Fertility Rate - Gross and Net Reproduction Rate - Poverty in India - Absolute and Relative - Analysis of Poverty in India - Environment as Necessity - Amenity and Public Goods - Causes of Environmental and Ecosystem Degeneration - Policies for Controlling Pollution - Economic and Persuasive -Relation between Population - Poverty and Environmental Degradation - Micro Planning for Environmental and Eco-Preservation - Water Sheds, Joint Forest Management and Self-Help Groups - Role of State in Environmental Preservation - Review of Environmental Legislation in India.

> Role of Agriculture in Indian Economy - Share of Agriculture - Interrelationship between Agriculture and Industry - Institutional Aspects - Land Reforms - Green

Revolution - Technological Aspects - Agricultural Inputs and Shifts in Production Function - Capital Formation in the Rural Sector - Savings, Assets and Credits -Strategies for Rural Development - Regional Disparities in Indian Agriculture -Co-operative Movement in India- Organization - Structure and Development of Different Types of Co-operatives in India.

 Unit - V
 Quantitative Economics: Application of Differential and Integral Calculus in Theories of Consumer Behaviour - Production and Pricing under Different Market Conditions - Input-output Analysis and Linear Programming - Application of Correlation and Regression - Testing of Hypothesis in Regression Analysis.

Book for Reference:

1.	Objectives Economics for Competitive Examinations	-	Maria John Kennedy, Himalaya Publishing House, Mumbai
2.	Advanced Micro Economic Theory	-	Maria John Kennedy, Himalaya Publishing House, Mumbai
3.	Economics of Development & Planning	-	Jhingan, M.L., Konark Publication, New Delhi
4.	Public Finance	-	Tyagi, B.P., Jai Prakash Nath & Co, Meerut
5.	Indian Economy	-	Misra & Puri, Himalaya Publishing House, Mumbai
6.	Statistical Methods	-	Gupta, S.P. Sultan Chand & Sons, New Delhi
7.	Money, Banking & International Trade	-	Jhingan, M.L., Virinda Publication, New Delhi

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	9	9	9	9	9	3	1
CO2	9	3	1	1	3	9	3
CO3	9	1	3	1	9	3	3
CO4	9	1	9	3	3	3	3
CO5	9	9	1	3	1	1	3
Total	45	23	23	17	25	19	13
Weightage	5.56	6.39	6.39	4.97	6.38	4.92	4.42

Course Outcome Vs Programme Outcome