

A.D.M College For Women (Autonomous) Nationally Accredited with 'A' Grade by NAAC (Cycle-III)

Nationally Accredited with 'A' Grade by NAAC (Cycle-III) Nagapattinam -611 001 TamilNadu.



M.A. Economics

Employability

Entrepreneurship



Skill Development

Name of the Programme	Course Code	Title of the Course	Employability	Entrepreneurship	Skill development
M.A., Economics	PGED	CC-Mathematical methods for Economic Analysis	✓		
	RGEH	CC-Statistical Methods for Economic Analysis	✓		
	PGEE2	CC-Environmental Economics		√	
	PGEI	MEI-Research Methodology			✓
	PGEE3a	EC-Computer Application in Economics			√
	PGEM	CC-Agricultural Economics		√	

Semester – I/Core Course – I (CC)	Mathematical Methods for	Course Code :PGED
	Economic Analysis	
Instruction Hours: 6	Credits: 5	Exam Hours: 3
Internal Marks: 25	External Marks: 75	Total Marks: 100

Cognitive	K - 1 Acquire / Remember										
Level	K - 2 Understand										
	K - 3 Apply										
	K - 4 Analyze										
	K - 5 Evaluate										
	K - 6 Create										
Course	The Course aims										
Objectives	To create the awareness among the students about the concepts	s and techniques									
	of Mathematical methods.										
	To inculcate the applications of Mathematical Techniques in E	conomics.									
	To know the types of matrix and Algebra.										
	To enable the students to understand the cramers rule.										
	To examine input Output model										
UNIT	Content	Hours									
I	BASIC CONCEPTS										
	Constants, Variables, Parameters, Coefficient, Functions - Inverse,	10									
	General and Specific Functions- Types of Functions- Linear and	18									
	Non- linear. Uses of Mathematics in Economics. (Only Theory).										
II	DIFFERENTIAL CALCULUS										
	Differentiation – Definition, sign of Derivatives, Rules of										
	,,,,,										
	Differentiation – Basic rule, power rule, power of power rule,										
		18									
	Differentiation – Basic rule, power rule, power of power rule,	18									
	Differentiation – Basic rule, power rule, power of power rule, Addition and Subtraction rule and Quotient rule. Differentiation of	18									

	the functions like $Z = f(x, y) = 10xy-5xy+6x-11y+1000$. Simple	
	problems	
III	MATRIX ALGEBRA	
	Matrix – Definition – Types, Addition and Subtraction of 2 or more	
	matrices, Scalar multiplication of a matrix, Multiplication of 2	18
	matrices, (up to 3x3 order) Singular matrix, Non – Singular matrix,	
	Uses of matrices – Simple problems.	
IV	SOLVING SIMULTANEOUS EQUATIONS	
	Determinants – Definitions, Minors and Co-factors of each element	
	of a determinant (Simple problems No properties of	18
	determinants). Solving simultaneous equations using Cramer's rule	
	up to 3x3 order – Simple problem	
V	INPUT - OUTPUT MODEL	
	Leontief's Input - Output model - Definition, Assumptions, Input	
	Output transaction, Matrix Closed and Open Input - Output models,	18
	Uses of Input – Output model, Limitations of Input – Output model	
	(Only theory).	
Unit VI	Self Study	
	Differential Calculus and its Applications- State Optimization	
	Problems and their application.	

Text Book:

- 1. Chiang,AC -Fundamental methods of Mathematical Economics MC Graw Hill, New Delhi, 1975.
- 2. Metha BC and MadnaniG.M. Mathematics for Economists, Sultan Chand & Sons Publisher, New Delhi, 1973

Reference Books:

- Allen R.G.D Mathematical Analysis of Economist, Macmillan press and ELBS, Landon, 2001.
- Dr.Agarwal H.S A mathematical approach to Economic Theory LakshmiNarayanaAgarwal, Educational publications, Agra, 2001.

3. BadalMukherji and pandit -Mathematical Methods for Economic Analysis, Allied Publisher Pvt, New Delhi, 2005.

Courses outcomes

CO1:Understand the concepts of parameters co efficient and it functions

CO2:Know the definitions and signs of derivatives.

CO3:Understand the matrix and algebra.

CO4:Explaincramers' rule.

CO5:Understand input output model

Mapping of Course outcomes with Programme outcomes/ Programmes Specific outcomes

CO / PO	PO							PSO		
	1	2	3	4	5	1	2	3	4	5
CO1	S	S	S	M	S	S	S	S	S	S
CO2	S	M	S	M	S	S	S	S	S	S
CO3	S	S	S	M	S	S	S	S	S	S
CO4	S	M	S	M	S	S	S	S	S	S
CO5	S	S	S	M	S	S	S	S	S	S

Semester – I/Core Course – VIII	STATISTICAL METHODS	Course Code :
	FOR ECONOMIC ANALYSIS	PGEH
Instruction Hours : 6	Credits: 5	Exam Hours: 3
Internal Marks : 25	External Marks : 75	Total Marks : 100

Cognitive Level Course Objective	 K - 1 Acquire / Remember K - 2 Understand K - 3 Apply K - 4 Analyze K - 5 Evaluate K - 6 Create 1. The main objective is to teach the students to use the technique statistical analysis in order to understand Economic Problems. 2. To teach the students to frame and test the hypothesis 	es and
UNIT	Content	Hour
I	UNIT I: MEASURES OF AVERAGES AND DISPERSIONS Measures of Averages, Definition, Characteristics of a good Measure of Average – Mean, Median and Mode – Definition, Merits and Demerits (Simple Problems). Measures of Dispersions Definition, Characteristics of a good measure of dispersion – Standard Deviation – Definition, Merits and Demerits, Coefficient of Variation, (Simple Problems)	18
II	. UNITII: CORRELATION ANALYSIS Correlation Analysis - Definition, Types, Methods of Finding Correlation Co-efficient – Scatter Diagram, Karl Pearson, Spearman's Rank Correlation Co-efficient, Concurrent Deviations Method -Properties of Correlation Co-efficient.(Only statement With out proof) (Simple Problems)	18
III	UNIT III: REGRESSION ANALYSIS Regression Analysis —Definition, Types, Regression Equation X on Y and Regression Equation Y on X - Properties of Regression Co- Efficient- (With out proof) - Difference Between Correlation and Regression Analysis. (Simple Problems)	18
IV	. UNIT – IV: SAMPLING METHODS Sampling- Definition, Uses of sampling. Random Sampling- Simple Random Sampling Stratified Random Sampling, Systematic Random Sampling – Definition, Merits	18

	and Demerits, Non-random sampling - Purposive ,Quota and	
	Judgement sampling.(Only Theory).	
V	UNIT – V: TESTING OF HYPOTHESIS	18
	Sampling distribution of Means, Standard Error-	
	Uses of Standard Error – Testing of Hypothesis – Test Procedure –	
	Type I error, Types II error - One Tailed & Two Tailed Tests, - t -	
	test- Testing Significance of Single Mean and Difference Between	
	Two Means, Chi square test- Testing the Independence of Two	
	Attributes, (Simple Problems).	
Unit VI	Self study	
	Skewness- measures of skewness- karl pearson, Bowley and Kelly -	
	moments-kurtosis.(theory only)	

TEXT BOOKS:

1. Gupta S.P - Statistical methods, Sultan Chand and Son's

New Delhi (2014)

2. Gupta, S.C - Fundamentals of Applied Statistics, Sultan

Chand and son's New Delhi (2005)

REFERENCES:

1. Nagar AL and Das RK - Basic statistics Oxford University

Press New Delhi.

2. Salvatore Dominick - Statistics and Econometrics Mc. Graw Hill Co.,

New Delhi.

3. Morris Carl. N and John E Rolph - Introduction to Data Analysis and

Statistical Inference Prentice, Hall Inc. Engle

wood Cliffs, New Jersey 07632

4. Speigal MR - Theory and problems of Statistics, Mc Graw hill

Book Company.

5. Crozton Cowden and Klein - Applied General Statistics, Prentice hall of

India New Delhi.

6.Chou Y - Statistics Analysis Holy Reinhart and Winston,

New Delhi.

Courses outcomes

CO1:Understand the concepts of parameters co efficient and it functions

CO2:Know the definitions and signs of derivatives.

CO3:Understand the matrix and algebra.

CO4:Explain cramers' rule.

CO5:Understand input output model

CO/		PO						PSO		
PO										
	1	2	3	4	5	1	2	3	4	5
CO1	S	S	S	M	S	S	S	S	S	S
CO2	S	M	S	M	S	S	S	S	S	S
CO3	S	S	S	M	S	S	S	S	S	S
CO4	S	M	S	M	S	S	S	S	S	S
CO5	S	S	S	M	S	S	S	S	S	S

Semester – ELECTIVE COURSE-II	ENVIRONMENTAL ECONOMICS	Course Code :PGEE2
Instruction Hours: 6	Credits: 5	Exam Hours: 3
Internal Marks : 25	External Marks: 75	Total Marks: 100

Cognitive	K - 1 Acquire / Remember	
Level	K - 2 Understand	
	K - 3 Apply	
	K - 4 Analyze	
	K - 5 Evaluate	
	K - 6 Create	
Course	The course aims	
Objective	1. To make the students familiarize with Economics on Natural Reso	ource
	2. To make them aware of policy instruments for controlling pollution	on
UNIT	Content	Hours
I	UNIT I : NEXUS BETWEEN ECONOMICS &	18
	ENVIRONMENTS	
	Material balance principle – Externalities & Market inefficiency	
	- Property Right & Externality - Non Convexities and	
	Externalities - Pareto Optional Provision of Public Goods -	
	Common Property Resources.	
II	UNIT-II: THE THEORY OF ENVIRONMENTAL POLICY	18
	Coase's Bargaining Solution and Collective Action-	
	Monitoring and Enforcement of Environmental Regulation Global	
	Environment – Externalities on Climate Change.	
III	UNIT III: NATURAL RESOURCE MANAGEMENT AND	18
	SUSTAINABLE DEVELOPMENT	
	Optimal Use of Exhaustible and Renewable Resources -	

	Environment and Development- Trade off Concept of Sustainable	
	Development – Issues in Bio- Diversity.	
IV	UNIT – IV: MEASUREMENT OF ENVIRONMENTAL VALUE	18
	User Values, Option Values and Non-Use Values,	
	Valuation Methods - Hedonic Property Values - Contingent	
	Valuation Methods.	
V	UNIT – V: ENVIRONMENTAL AND NATURAL RESOURCE	18
	PROBLEMS IN INDIA	
	Mechanism for Environment Regulation in India - Legal	
	Measures - Environmental Laws and their Implementation - Policy	
	Instruments for Controlling Pollution Joint Forest Management	
	-Social Forestry.	
Unit -VI	Self Study	
	Environmental Awareness-Dilemma of Environmental Ethics and	
	practical problems-Plastic ban economics Vs environment	

TEXT BOOKS:

1. M.L Jhingan - Environmental economics Vrinta Publications 2007

2. Fisher A.C - Resource and Environmental economics

3. Eugine . T - Environmental Economics

4. Sankaran.S -Environmental Economics

5. Karpagam.S -Environmental Economics

REFERENCES:

1. Agarwal S.K -Environmental Issues and Themes

2. SumiKrishna - Environmental policies people's lives and

Development choices, sage- publications

3. Sandhya Venkatraman - Environment and development Sage- publications

New Delhi.

4. Neela Mukherjee

- Participatory appraisal of Natural resources,

Rewat publications, New Delhi.

5. Baumol W.J W.E Oates

- The theory of Environment policy

6. Sanker U

- Environmental Economics

Course Outcomes

On completion of the course students should be able to

CO1:The learn concepts and significance of environment Economics.

CO2:The understand course and familiarizes the sustainable development..

CO3:Know the awareness of Global warming

CO4:Know the measurement of environmental values.

CO5:The basic skills in environmental legal policy.

CO /	PO					PSO				
PO										
	1	2	3	4	5	1	2	3	4	5
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S

Semester – 3/Core Course –	RESEARCH	Course Code :PGEI
8 (CC)	METHOLOGY	
Instruction Hours: 6	Credits: 5	Exam Hours: 3
Internal Marks : 25	External Marks: 75	Total Marks: 100

Cognitive	K - 1 Acquire / Remember				
Level	K - 2 Understand				
	K - 3 Apply				
	K - 4 Analyze				
	K - 5 Evaluate				
	K - 6 Create				
Course	The course aims				
Objective	To define research, explain and apply research techniques in Eco	nomics			
	To propose a research study and justify the theory as well as the				
	methodological decisions, including Research Problem and Hypot	thesis			
	To learn the sample design and to develop the skills for sampling	and			
	sampling techniques used to collect survey data				
	To learn the Data Collection method and the Data Source based on the				
	selected topic				
	To learn the significance of Report writing and mechanics of these	is			
	writing				
UNIT	Content	Hours			
I	TYPES OF RESEARCH	18			
	Research - Meaning and Definitions, Types of Research - Features-				
	Facts - Theory - Concepts - Causality - Objectivity in Research.				
II	RESEARCH PROBLEM AND HYPEOTHESIS	18			
	Choice of the Research Problem - Factors involved in the choice -				
	Review of Literature - Characteristics of a Good Hypothesis				
III		18			
	Census Method - Sampling Method - Methods of Sampling: Random				

	sampling method - Judgement Method - Stratified, Systematic, Quota	
	and Multistage sampling Method - Sampling and Non Sampling errors	
	-Methods of reducing both Sampling size - Scaling techniques -	
	Research design.	
IV	DATA SOURCE	18
	Merits and Demerits - Methods of collecting Primary data - Schedule	
	methods - Observation Methods - Interview method -Questionnaire	
	Method- Qualities of a good Questionnaire - Secondary data - Merits	
	and Demerits -Sources of Secondary data- Published and Unpublished.	
V	RESEARCH REPORT WRITING	18
	Meaning of analysis -Editing -Coding - Classification of Research -	
	Statistical and Mathematical tools of Analysis -Research Report	
	writing.	
Unit -VI	Self study	
	Research process- Data Types Qualitative and Quantitative Research – Types	
	of research Report	

Text books:

1. Bajbai,S.R.	- Methods of social Survey and Research Kitab
	Mahal, Kanpur. 1976.
2. Kothari C.R	- Research Methodology, New age Publications,
	2014.
3. Wilkinson and Bhandarkar	- Methodology and techniques of Social research
	Himalaya Publishing House, Mumbai, 1994.
4. P.Saravanavel	- Research Methodology KitabMahalagencies,
	Allahabad,2007.

Reference Books:

1. Goode W.J and Hatt P.K	- Methods in Social Research, MCGraw- Hill		
	London,1965.		
2. Bhatnaga P	- Research Methods and Measurements in		
	Behaviour and Social, New Delhi, Agra, Cole		
	Publishing Academy.		

3. Gupta, S.P

- Statistical Methods , Sultan Chand &Co , NewDelhi, 1992.

Web-Resources:

- 1.<u>http://dare.nic.in</u>
- 2..http://planningcommission.gov.in

Course Outcomes

On completion of the Course, Students should be able to

CO1:Understand the research and apply research techniques in Economics

CO2:Understand a research study and justify the theory as well as the methodological decisions, including Research Problem and Hypothesis

CO3:know the sample design and to develop the skills for sampling and sampling techniques used to collect survey data

CO4:Collect the Data based on the selected topic

CO5:know Report writing and mechanics of thesis writing

CO/	PO						PSO			
PO										
	1	2	3	4	5	1	2	3	4	5
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	M	S	S
CO3	S	S	M	S	M	S	S	S	M	S
CO4	S	S	S	S	S	S	S	M	M	S
CO5	S	S	S	M	S	S	S	S	S	S

Semester – 3/ core course – (EE)	Computer Applications in	Course Code :PGEE3a	
	Economics		
Instruction Hours: 6	Credits: 4	Exam Hours: 3	
Internal Marks : 25	External Marks: 75	Total Marks: 100	

Cognitive Level	K - 1 Acquire / Remember	
	K - 2 Understand	
	K - 3 Apply	
	K - 4 Analyze	
	K - 5 Evaluate	
	K - 6 Create	
Course	The course aims	
Objective	Make the students to use internet in higher study and Research work.	
	To Know the concepts of social networking sites	
Unit	Content	Hour
Unit -1	INTRODUCTION TO COMPUTER	18
	Evolution, Generations and Classification of computers - Hardware and	
	Software - C.P.U and its Functions - Input and Output devices - Application of	
	computers in Economics and Business	
Unit –II	WORLD WIDE WEB	18
	Internet Basics - Browsing internet - Using search engines - Opening E-mail	
	ID. Sending and Checking E -mail - Downloading text from internet	

Text Book:

- 1. Rajaraman.V-Fundamentals of computers, Prentice Hall of India, New Delhi. (1996)
- 2. Sinha Computer Fundamentals PB, Publications, New Delhi. (1992)
- 3. K Danasekaran Computer Applications in Economics Vrinta publications (2010)

Reference Book;

- 1. Rajaraman.V-Fundamentals of computers, Prentice Hall of India, New Delhi. (1996)
- 2. Sinha Computer Fundamentals PB, Publications, New Delhi. (1992)
- 3. K Danasekaran Computer Applications in Economics Vrinta publications (2010)

Web-Resources:

- 1.www.spss.com
- 2.www.ats.ucla.edu
- 3. www.utexas.edu
- 4.www.indiana.edu

Course Outcomes.

On completion of the course students should be able to

CO1:Use internet in higher study and Research work

CO2:Understand the concepts of social networking sites

CO / PO	PO		PS	SO
	1	2	1	2
CO1	S	S	S	S
CO2	S	S	S	S
CO3	S	S	S	S
CO4	M	M	S	S
CO5	S	S	S	S

Semester – 4/ core course – (CC)	Agricultural Economics	Course Code :PGEM
Instruction Hours: 6	Credits: 5	Exam Hours: 3
Internal Marks : 25	External Marks: 75	Total Marks: 100

Cognitive	K - 1 Acquire / Remember							
Level	K - 2 Understand K - 3 Apply K - 4 Analyze K - 5 Evaluate							
	K - 6 Create							
Course	The course aims							
Objective	To know the nature of Agricultural Economics.							
	To understand the concept of Cropping Pattern.							
	To understand the sources of Agricultural Finance.							
	To know the channels of Agricultural Marketing							
	To understand the promotional strategies in Agriculture							
Unit	Content	Hour						
Unit -1	NATURE OF AGRICULTURAL ECONOMICS							
	Nature and Scope of Agricultural Economics -Features of Indian							
	Agriculture - Inter relationship between Agriculture and industry-							
	Significance of Agriculture in India - Inter sectoral Linkage - Agri and							
	Agro based Industries.							
Unit –II	CROPPING PATTERN							
	Meaning - Factors - Productivity Trends in Area Production - Productivity							
	and strategies -Crop Insurance- sea farming							
Unit –III	AGRICULTURAL FINANCE	18						
	Meaning -Needs - Types - Source - Role of Co-operatives, Commercial							
	Bank - NABARD in rural Finance -Problems - Institutional - Non -							
	Institutional Finance							
Unit –IV	A COLCUL MUDAL ANA DIZEMINO	18						
Unit –IV	AGRICULTURAL MARKETING	10						
Unit –IV	Marketed and marketable surplus - Marketing of Agro- based Industrial	16						
Unit –IV		10						

	TNCSC- Agricultural Pricing Policy Marine Products Market							
Unit –V	PROMOTIONAL STRATEGIES							
	Organic- In-organic fertilizers- Compost manure - Bio-fertilizer -							
	Recycling of Agricultural Products - Value Addition of Agricultural							
	Commodities - Cold storage - Prospects of Agricultural Business in India -							
	Marine Producers Cartels- MNCs in Fisheries Business							
Unit -VI	Self study							
	Agricultural Policy vision - Brief comment and assessment of the							
	Agricultural policy- Farmer suicide in India.							

Text Book:

1.B.P. Vasant Desai - Agricultural Economics, Rural development, Jai Prakash North

Publication.1996.

2. V. Natakarani - Agricultural Prices and Development with stability

3.S.Sankaran - Indian Economy, Margham Publication, Chennai – 2015

Reference Book:

1. Government of India - Agricultural Marketing Reports

2. RuddarDutt and K.P.M.Sundaram - Indian Economy S.Chand Ltd, NewDelhi 2015.

Web- Resources:

- 1. http://dare.nic.in
- 2. http://ari.gov.in
- 3. http://aquaculture.tn.nic.in
- 4. http://agricoop.nic.in
- 5. http://drdpat.bih.nic.in
- 6. http://www.nddb.org

Course Outcomes:

On completion of the course students should be able to

CO1:Know the nature of Agricultural Economics

CO2:Understand the concepts of Cropping Pattern

CO3:Understand the sources of Agricultural Finance

CO4:know the channels of Agricultural Marketing\

CO5:Understand the promotional strategies in Agriculture

CO / PO	PO				PSO					
	1	2	3	4	5	1	2	3	4	5
CO1	S	S	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S	S	S