

MANNAR THIRUMALAI NAICKER COLLEGE
PASUMALAI, MADURAI- 625 004

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

(Re-accredited with 'A' Grade by NAAC)



B.A., ECONOMICS
SYLLABUS AND REGULATIONS

UNDER
CHOICE BASED CREDIT SYSTEM (CBCS)
(For those who joined during 2018-2019 and after)

Eligibility for Admission

Candidates who have passed +2 Examination conducted by the board of Higher Secondary Education, (Academic / Vocational) conducted by the Government of Tamil Nadu or any other state or its equivalent qualification.

Duration of the course

The duration of the course shall be three academic years comprising six semesters with two semesters in each academic year.

Subjects of Study

The main subjects of study offered for B.A (Economics) Degree Course shall consist of following:

Part I : Tamil

Part II : English

Part III :

1. Core Subjects
2. Allied Subjects
3. Electives

Part IV :

1. Non Major Electives
2. Skill Based Subjects
3. Environmental Studies
4. Value Education

Part V :

Extension activities

The Scheme of Examination

The components for continuous internal assessment are:

Two tests and their average	--15 marks
Seminar /Group Discussion	--5 marks
Assignment	--5 marks
Total	--25 marks

**Pattern of the questions paper for the continuous Internal Assessment
(For Part I, Part II, Part III , NME & Skilled Paper in Part IV)**

The components for continuous internal assessment are:

Part –A	
Six multiple choice questions (answer all)	6 x 01= 06 Marks
Part –B	
Two questions (‘either or ‘type)	2 x 07=14 Marks
Part –C	
One question out of two	1 x 10 =10 Marks

Total	30 Marks

Pattern of the question paper for the Summative Examinations:

Note: Duration- 3 hours

Part –A	
Ten multiple choice questions	10 x 01 = 10 Marks
No Unit shall be omitted: not more than two questions from each unit.)	
Part –B	
Five Paragraph questions (‘either or ‘type)	5 x 07 = 35 Marks
(One question from each Unit)	
Part –C	
Three Essay questions out of five	3 x 10 =30 Marks
(One question from each Unit)	

Total	75 Marks

The Scheme of Examination (Environmental Studies and Value Education)

Two tests and their average	--15 marks
Project Report	--10 marks*

Total	--25 marks

** The students as Individual or Group must visit a local area to document environmental assets – river / forest / grassland / hill / mountain – visit a local polluted site – urban / rural / industrial / agricultural – study of common plants, insects, birds – study of simple ecosystem – pond, river, hill slopes, etc.

Question Paper Pattern

Pattern of the Question Paper for Environmental Studies & Value Education only) (Internal)

Part –A

(Answer is not less than 150 words)

Four questions ('either or 'type) 4 x 05=20 Marks

Part –B

(Answer is not less than 400 words)

One question ('either or 'type) 1 x 10=10 Marks

Total -----
30 Marks

Pattern of the Question Paper for Environmental Studies & Value Education only) (External)

Part –A

(Answer is not less than 150 words)

Five questions (either or type) 5 x 06 =30 Marks

(One question from each Unit)

Part –B

(Answer is not less than 400 words)

Three questions out of Five 3 x 15 = 45 Marks

each unit (One question from each Unit) -----

Total 75 Marks

Minimum Marks for a Pass

40% of the aggregate (Internal +Summative Examinations).

No separate pass minimum for the Internal Examinations.

27 marks out of 75 is the pass minimum for the Summative Examinations.

PROGRAMME SPECIFIC OUTCOMES

- PSO1:** To equip the students with specific knowledge and skills for junior and middle positions of responsibilities in industrial and commercial organization.
- PSO2:** To organize instructions on the lines of professional course by adopting participative methods of learning .
- PSO3:** To enable the students to know how to make a national choice using economic principles and to frame and solve problems in Economics, using concepts such as optimization equilibrium.
- PSO4:** To assist the graduates to develop the conceptual models of behavior to predict responses to changes in policy and market conditions and to provide instruction for analyzing data with the help of statistical tools.

COURSE PATTERN
(For those who joined in 2018-2019 and after)

Study component	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	Total Hours	Total Credits	No.of Courses	Total Marks
Part : I Tamil	6(3)	6(3)	6(3)	6(3)	---	---	24	12	4	400
Part : II English	6(3)	6(3)	6(3)	6(3)	---	---	24	12	4	400
Part:III Core Subjects	4(4) 5(4)	4(4) 5(4)	5(4) 5(5)	5(4) 5(4)	6(5) 6(5) 6(5)	6(5) 6(5) 6(5)	74	63	16	1600
Allied Subjects	5(4)	5(4)	4(4)	4(4)	---	----	18	16	4	400
Elective Subjects	--	---	---	---	5(4) 5(4)	5(4) 5(4)	20	16	2	200
Part :IV Skill Based Subject	2(2)	2(2)	2(2)	2(2)	2(2)	2(2)	12	12	6	600
Environmental Studies	2(2)						2	2	1	100
Value Education		2(2)					2	2	1	100
Non-Major Elective			2(2)	2(2)			4	4	2	200
Extension activity				0(1)				1	1	100
Hours	30	30	30	30	30	30	180	140	41	4100
Credits	(22)	(22)	(23)	(23)	(25)	(25)				

SEMESTER – III							
Subject code	Title of the Paper	Number of courses	Hours/ Week	Credits	Maximum Marks		
					Internal	External	Total
18UTAG31	Tamil-III காப்பிய இலக்கியமும் சிறுகதையும்	1	6	3	25	75	100
18UENG31	English-III Exploring Language Through Literature – III	1	6	3	25	75	100
18UECC31	Monetary Economics	1	5	4	25	75	100
18UECC32	Mathematics for Economics -I	1	5	5	25	75	100
18UECA31	Economic Thinkers	1	4	4	25	75	100
18UECS31	Basics of Share Market	1	2	2	25	75	100
18UECN31	Elementary Statistics-I	1	2	2	25	75	100
	Total	7	30	23	175	525	700

SEMESTER – IV							
Subject code	Title of the Paper	Number of courses	Hours /Week	Credits	Maximum Marks		
					Internal	External	Total
18UTAG41	Part – I Tamil: பழந்தமிழ் இலக்கியமும் புதினமும்	1	6	3	25	75	100
18UENG41	Part – II English: Exploring Language Through Literature-IV	1	6	3	25	75	100
18UECC41	International Economics	1	5	4	25	75	100
18UECC42	Mathematics for Economics -II	1	5	4	25	75	100
18UECA41	Economics of Gender and Development	1	4	4	25	75	100
18UECS41	Economics for Competitive Examinations	1	2	2	25	75	100
18UECN41	Elementary Statistics-II	1	2	2	25	75	100
18UEAG40/ 18UEAG44	Extension Activities	1	-	1	100	-	100
	Total	8	30	23	275	525	800



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Programme : UG

Semester : III

Subject Code: 18UECC31

Part III : Core

Hours : 05

Credits : 04

MONETARY ECONOMICS

Course outcomes

CO1: To have a clear and critical understanding of Indian Monetary system and policies involved in money supply and demand.

CO2: To enable the students to understand the concept and methods of monetary management in the Economy.

CO3: The circulation of money; its effects on the general price level and the consequent various banking policies be made understood.

CO4: To enhance the different views of Quantity theory of Money.

UNIT – I Evolution and Functions Of Money

Barter System – Definition of Money – Evolution– Classification –Functions and Significance of money – Defects - Gold Standard – Causes for breakdown of Gold Standard- Gresham’s Law- Paper Currency Standard – Systems of Note Issue.

UNIT – II Theories of Money

Fisher’s Quantity Theory of Money – Cambridge Equations – A Comparison between Fisher’s and Cambridge Equation –Milton Friedman Quantity Theory of Money- Keynes Reformulation Quantity Theory of Money.

UNIT – III Inflation and Deflation

Inflation: Meaning– Types – Causes and Effects – Inflationary Gap – Measures to Control Inflation – Current trends in the Rate of Inflation.

Deflation: Meaning– Causes and Effects – Measures – Phillips Curve.

UNIT – IV Supply of Money

Constituents of Money Supply – Approaches to the Definition of Money Supply – Velocity of Money – Theory of Money Supply – Money Supply in India – Demonetization and its impact on Small Scale Industries and Consumers

UNIT – V Trade Cycle

Meaning – Features – Phases– Theories of Trade Cycle–Sunspot – Hawtrey’s – Keynes – Effects – Control of Trade Cycle.

Text Book:

1. **Dr.S. Sankaran**, “Monetary Economics”, Margham Publications, 2017.
2. D.M.Mithani., “Money Banking Trade and Public Finance” Himalaya Publication, Mumbai, 2010.

Reference books:

1. Seth. M.L, “Monetary Economics”, Fourteenth revised edition, Lakshmi Narayan Agarwal Educational Publishers, Agra.
2. Suraj B.Gupta, “Monetary Economics”, 2014, S.Chand Company Private Limited, New Delhi.
3. Jhingan. M.L, “Monetary Economics”, Seventh Edition (2011), Vrinda Publications Private Limited, Delhi.



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Programme : UG	Part III : Core
Semester : III	Hours : 05
Subject Code: 18UECC32	Credits : 05

MATHEMATICS FOR ECONOMICS - I

Course Outcomes:

CO1: To familiarise the basic concepts of mathematics.

CO2: To solve the mathematical equations.

CO3: To applying mathematical tools on economics.

CO4: To equip the students in Mathematical and Graph theory's applications.

Unit- I Introduction

Basic Rules of Arithmetic Operations – Fractions (Common and Decimal) – Algebraic Symbolism (Brackets and Summation) – Exponents and Radicals.

Unit- II Functions and Logarithm

Mathematical Methods: Meaning, Simple Functions: Meaning - Graphs of the type - Straight Line – Quadratic – Exponential – Logarithmic- Parabola. Logarithm – Definition – Formulae (product, quotient, exponent) – Calculations using tables.

Unit-II Equations

Solving Equations: Linear and Quadratic Equations in one variable – Simultaneous Linear Equations in two and three variables – Homogeneous and Non-Homogeneous equations.

Unit- IV: Trigonometry, Permutation, Combination and LPP

- a) Trigonometric Ratios and Functions (Simple Cases)
- b) Permutations and Combinations (Simple Problems only)
- c) LPP – Formulation – Graphical Solution.

Unit- V Set Theory

Definition of a set – Types – Equality of sets – Universal set – Operations of sets: Union and Intersection of sets – Difference of sets – Complement of a set – DeMorgan law – Venn diagram.

Text Book:

1. Bose.D, “An Introduction to Mathematical Economics”, Himalaya PublishingHouse, 2007, Mumbai.

Reference Books:

1. Agarwal.H.S, Mathematical Approach to Economic Theory, Lakshmi Agarwal, 1976, Agra.
2. Allen. R.G.D, “Mathematical Analysis for Economics”, Macmillan, 1986, London.
3. Baldani, Bradfield and Turner, “An Introduction to Mathematical Economics”, Second Cengage Learning India Private Ltd., Reprint Edition, 2009, New Delhi.
4. Chiang, A.C. and Wainwright, K, “Fundamental Methods of Mathematical Economics”, McGrawHill Companies Inc. Fourth Edition, 2005, New Delhi.
6. Metha, B.C. and Madnani, G.M.K, Mathematics for Economists, Sultan Chand Sons, Ninth Reprint Edition, 2010, New Delhi.
7. Taro Yamane, Mathematics for Economists, Prentice Hall of India Pvt., Ltd., 1988, New Delhi.
8. Mehta and Madnani, “Mathematics for Economics” Sultan Chand & sons, New Delhi.



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Programme : UG

Semester : III

Subject Code : 18UECA31

Part III : Allied

Hours : 04

Credits : 04

ECONOMIC THINKERS

Course Outcomes:

CO1: To enrich and introduce the economists and their ideas.

CO2: To introduce heterogeneous Economic thought.

CO3: To compare and analyze present changes in economic ideas with origin.

CO4: To understand the differentiation between classical and new classical ideas.

Unit-I Introduction

Meaning – Nature and Importance of History of Economic Thought – Main Ideas of Mercantalism and Physiocrats.

Unit-II Classical Economic Thought

Adam Smith's Theory of Value – Free Trade – Taxation - Ricardo – Theory of Rent – International Trade, J.B.Say's Law of Market.

T.R.Malthus – Population Theory - Market Glut - Karl Marx – Ideas for Socialism.

Unit-III Neo Classical Economic Thought

Alfred Marshall – Theory of Value– Representative Firm – Quasi Rent.A.C.Pigou's – Concept of Economic Welfare.

Unit-IV Modern Economic Thought

Robertson – Definition and Laws of Economics- Value of Money.J.M.Keynes – Consumption Function – Marginal Efficiency of Capital - J.B.Clark's – Dynamic Theory of Profit.

Unit-V Indian Economic Thought

Thiruvalluvar – Naoroji – Nehru – V.K.R.V.Rao – Gandhi – Amartya Sen.

Text Book:

1. Loganathan.B, “History of Economic Thought”, S.Chand& Company Limited, 2016, New Delhi.

Reference Books:

1. Jhingan. M.L, “Economic History of India”, Vrinda Publications (p) Ltd House, 2017, New Delhi.
2. Girija and Manimekalai, “History of Economic Thought”, Virinda Publishers, 2000, New Delhi.
3. Sankaran.S. “History of Economic Thought”, Margham Publications, 2000, Chennai.
4. Theerthangarai, “History of Economic Thought”.



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Programme : UG

Semester : III

Subject Code: 18UECS31

Part IV : Skill

Hours : 02

Credits : 02

BASICS OF SHARE MARKET

Course Outcomes:

CO1: To have enough knowledge of the basics of stocks.

CO2: To understand the primary and secondary stock markets.

CO3: To familiarise with the concepts commodity and financial derivatives.

CO4: To read NIFTY and Sensex indices.

UNIT-I Introduction

Investment: Meaning – Importance – Factors influencing Investment. Stock Market: Meaning –History – Stock Trading and its Types.

UNIT- II Primary Market

Face value of shares – Debentures – Meaning – Types and Features – Difference between Shares and Debentures.

UNIT - III Secondary Market

Introduction– Difference between Primary and Secondary Market–Screen Based Trading – Internet Based Trading – Products in the Secondary Markets – Equity Investments– Debit Investments.

UNIT - IV Derivatives

Types of Derivatives -Optional Premium– Commodity Exchange– Commodity Derivative Markets– Difference between Commodity and Financial Derivatives.

UNIT – V B.S.E. and N.S.E

Organizational Structure –Index Construction –Sensex –NIFTY , SEBI: Functions.

Text Books:

1. Jitendra Gala, “Guide to Indian Stock Market”, Buzzing Stock Publishing House ‘3rd Edition 2007.
2. Reading: Investopedia, “The Five Biggest Stock Market Myths” Motley Fools Investing Basics “Getting started”.

Reference Books:

1. Angshuman Adhikari, “Basics of Indian Stock Market”, Kindle Edition, 2018.
2. Shoba Nahar, “ABCD of Indian Stock Market: Stock Market Beginners Guide”, Kindle Edition, 2017.
3. Robert T. Kiyosaki, “Rich Dad Poor Dad”, 1997, www.motsach.info.
4. Investopedia. “Margin Trading” Investopedia. “How Dividends Work for Investors”, www.investopedia.com.
5. Investopedia. “Investing 101” Investopedia. “ETF Strategies”, www.investopedia.com.



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Programme : UG	Part IV : NME
Semester : III	Hours : 02
Subject Code : 18UECN31	Credits : 02

ELEMENTARY STATISTICS - I

Course Outcomes:

CO1: To understand the significance and functions of statistics.

CO2: To classify and tabulate the different types of data.

CO3: To interpret diagrams

CO4: To become competent in calculation of Central Tendency.

Unit-I Introduction

Statistics: Meaning – Definition – Functions – Significance and Limitations. Primary Data: Meaning – Methods of Collecting Primary Data – Secondary Data: Meaning – Sources of Secondary Data.

Unit-II Classification

Meaning – Objectives – Rules – Types. Frequency Distribution: Univariate Frequency Distribution – Individual, Discrete, Continuous – Bivariate Frequency Distribution

Unit-III Tabulation

Meaning – Objectives – Difference between Classification and Tabulation – Parts of Tables – Rules - Types of Tables.

Unit-IV Diagrammatic Presentation of Data

Meaning – Importance – Types of Diagrams (One-Dimensional and Two-Dimensional Diagrams Only)

Unit- V Measures of Central Tendency

Mathematical Averages – Simple Arithmetic Mean, Geometric Mean, Harmonic Mean (Simple Problems Only) – Positional Averages: Median, Mode.

Text Book:

1. Pillai, R.S.N, and Bagavathi.V, **Statistics**, S.Chand& Co., Ltd., New Delhi, 2007.

Reference Books:

1. Gupta, S.C, **Fundamentals of Statistics**, Himalaya Publishing House, 2005, Mumbai.
2. Gupta, S.P, **Statistical Methods**, Sultan Chand and Sons, 2005, New Delhi.
3. Sancheti, D.C., and Kapoor, V.K, **Statistical Methods and Applications**, Sultan Chand and Sons, 2004, New Delhi.



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Programme : UG

Semester : IV

Subject Code: 18UECC41

Part III : Core

Hours : 05

Credits : 04

INTERNATIONAL ECONOMICS

Course Outcomes:

CO1: To get practical knowledge of the concepts of International Trade.

CO2: To understand the free trade and terms of trade concepts.

CO3: To familiarise in the problems and co-operation of International Trade.

CO4: To have practical knowledge of Foreign Exchange Rates.

Unit-I Introduction

Meaning – Nature and Scope of International Economics – Importance – Difference between Internal and International Trade- Advantages of International Trade.

Unit-II Theories of Foreign Trade

Absolute Cost Theory – Comparative Cost Advantage Theory – Reciprocal Demand Theory – Modern Theory.

Unit: III Terms of Trade

Meaning – Types – Factors affecting Terms of Trade –Terms of Trade in underdeveloped / developing countries – Free Trade – Arguments for and against of Free Trade – Different protection measures – Free Trade versus Protection.

Unit: IV Foreign Exchange

Meaning – Importance of Foreign Exchange Rate – Mint Parity Theory – Purchasing Power Parity Theory – Balance of Payments and Balance of Trade , Types and Causes of Disequilibrium – Methods of Correcting Disequilibrium.

Unit-V International Financial Institutions and Regional Economic Cooperation.

Objectives and Functions of IMF – IBRD – ADB – WTO ; European Union – SAARC – BRICS (Short Answers Only).

Text Book:

1. Jhingan, M.L, International Economics, Vrinda Publications Pvt. Ltd. 2005, New Delhi.

Reference Books:

1. Mannur, H, “International Economics”,Vikas Publishing House Pvt. Ltd, 1998, New Delhi.
2. Mithani, D, “InternationalEconomics”, Himalaya Publishing House, 1998, New Delhi.
3. Velayutham, T, “Foreign Trade -Theory and Practice”, Wheeler Publishing House, 1998, New Delhi.
4. Cherunilam.F, International Economics, Tata McGraw Hill Education, Second Edition, 1997, New Delhi.



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Programme : UG	Part III : Core
Semester : IV	Hours : 05
Subject Code :18UECC42	Credits : 04

MATHEMATICS FOR ECONOMICS – II

Course Outcomes:

CO1: To know the basic concepts of Matrix and Analytical Geometry

CO2: To apply the differential calculus on economic theories.

CO3: To apply the integral calculus on economics problems.

CO4: To find TR & TC, MR & MC.

Unit- I Introduction

Matrix – Meaning- Type - Operations (Addition, Subtraction and Multiplication of Matrix)
– Determinants – Definition- Properties – Transpose of a Matrix – Inverse of a Matrix – Cofactor & Adjoint Matrix- Solving simultaneous linear equation by Inverse Matrix method and Cramer's Rule method.

Unit –II Analytical Geometry of Two Dimensions

Straight Line: Distance between two points – Equations of a straight line: Two point form, point-slope form, Slope - Intercept form .Point of Intersection of two lines – Concurrent lines- Parallel lines- Perpendicular lines.

Unit- III Differential Calculus

Limits and Continuity - Basic rules of differentiation – First and second order derivatives
Calculations using addition, subtraction, product, quotient and function of function rule – Finding out MR and MC from TR and TC – Optimum Values of functions of One variable.

Unit- IV Partial Differentiation And Total Differentiation:

First and second order partial derivatives – Total Differentiation (Simple Problems) – Euler's Theorem.

Optimum values of functions of two variables.

Unit- V Integral Calculus

Meaning / Definition – Basic rules of integration – Calculation (Simple Problems) – Definite Integral – Estimation of TR and TC from MR and MC – Calculation of Consumer's Surplus and Producer's Surplus.

Text Book:

1. Bose. D, "An Introduction to Mathematical Economics", Himalaya Publishing House, 2007, Mumbai.

Reference Books:

1. Agarwal, H.S, Mathematical Approach to Economic Theory, Lakshmi Agarwal, 1976, Agra.
2. Allen, R.G.D, Mathematical Analysis for Economics, Macmillan, 1986, London.
3. Baldani, Bradfield and Turner. An Introduction to Mathematical Economics, Cengage Learning India Private Ltd., New Delhi, Second Reprint Edition, 2009.
4. Chiang, A.C. and Wainwright, K, Fundamental Methods of Mathematical Economics, Fourth Edition, McGrawHill Companies Inc. 2005, New Delhi.
6. Metha, B.C. and Madnani, G.M.K, Mathematics for Economists, Sultan Chand Sons, Ninth Reprint Edition, 2010, New Delhi.
7. Taro Yamane, Mathematics for Economists, Prentice Hall of India Pvt., Ltd., New Delhi, 1988.
8. Mehta and Madnani, " Mathematics for Economics" Sultan Chand & sons, New Delhi,2005.



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Programme : UG	Part III : Allied
Semester : IV	Hours : 04
Subject Code : 18UECA41	Credits : 04

ECONOMICS OF GENDER AND DEVELOPMENT

Course Outcomes:

- CO1:** To understand the present status of women.
CO2: To understand the issues regarding the various aspects of women and development.
CO3: To evaluate sources of socio-economic information for analyzing the impact of the gender factor on demographic processes and economic development.
CO4: To understand the importance of women and workmen's participation.

UNIT- I Introduction

Gender - Nature and Scope – Importance, Types of Gender - Gender Roles and Division of Labour.

UNIT- II Demographic Profile

Age Structure – Sex ratio – Causes of declining Sex ratio – Access to Nutrition, Health, Education, Social and Community Resources.

UNIT- III Work Participation Rate

Work Participation Rate ; Meaning - Factors influencing– Women Work Participation rate in Indian Economy – Visibility of Women Participation – Case Studies – Marginalization of women-Sexual Harassment-Market Bias.

UNIT- IV Social Security & Social Protection for Women and Transgender

Social Security- entitlements access to credit-legislation for women's entitlements, property rights-Schemes for safety net for women-need for unions.

UNIT –V Gender Planning and Development Policies:

Gender Equity Index – Gender Inequality Index – Gender Related Development Index- Paradigm shift from Women’s wellbeing to Women’s Empowerment – Democratic decentralization - Empowerment through Self-Help group- Future policies for women empowerment.

Text Book:

1. Lourdes Beneria, “Gender, Development & Globalisation”, Routledge Publishing House, 2nd Edition, 2015.

Reference Books:

1. Boserup, E, “Women’s Role in Economic Development”, George Allen and Unwin – London, 1970.
2. Desai N. and M.K.Raj (Eds), “Women and Society in India”, SNDT University, Bombay, 1979.
3. Kridhnaraj M. R.M.Sudarshan and A.Shariff, “Gender, Population and Development, Oxford University Press, New Delhi, 1999.
4. Holmes M (2007) “What is Gender”. Sage Publications, New Delhi.



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Programme : UG	Part IV : Skill
Semester : IV	Hours : 02
Subject Code: 18UECS41	Credits : 02

ECONOMICS FOR COMPETITIVE EXAMINATIONS

Course Outcomes:

- CO1:** To understand the basic concepts of Economics.
CO2: To gain study skills: Learning & Writing.
CO3: To develop analytical Critical outlook of life.
CO4: To understand how to study for competitive exams

Unit-I Micro Economics

Consumer Equilibrium – Firm Equilibrium – Production function - Market Morphology.

Unit-II Macro Economics

National Income – Methods of Measurement - Consumption Function – Investment Function – Effective Demand.

Unit-III Monetary and Fiscal Economics

Quantity Theory of Money – Money Supply – Banking Systems – Monetary Policy, Fiscal Policy.

Unit- IV International Economics

Terms of Trade – Balance of Payments – Exchange Rate – Major currencies in the World Economy.

Unit-V Indian Economy

Performance of Indian Economy during Plan Periods; Primary, Secondary and Tertiary Sector.

Text Book:

1. Jhingan. M.L Advanced Economic Theory, Vrinda Publications(P) Ltd, 2016, New Delhi.

References:

1. Ahuja. H.L, “Modern Micro Economics”, Sultan Chand and Sons, 2006, New Delhi.
2. Dornbusch, Fischer and Startz, “Macroeconomics”, McGraw Hill, 1th edition, 2010.
3. Jhingan. M.L, “Monetary Economics”, Vrinda publications private limited, Seventh edition (2011), Delhi.
4. Mithani, D.M., “Money, Banking, International trade & Public finance”, Himalaya Publishing House, 2016.
5. Paul Krugman, Maurice Obstfeld, and Marc Melitz, *International Economics: Theory and Policy*, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
6. Dutt and Sundaram, “Indian Economy”, S.Chand Company Limited, New Delhi, 2013.
7. Uma Kapila, “Indian Economy, Policy and Performance” Himalaya Publishing House, 2017, Mumbai.



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Programme : UG	Part IV : NME
Semester : IV	Hours : 02
Subject Code: 18UECN41	Credits : 02

ELEMENTARY STATISTICS - II

Course Outcomes:

After completing the course, the students

CO1: To compare data sets using dispersion measures.

CO2: To estimate the relationship between the variables.

CO3: To calculate different index numbers.

CO4: To understand index numbers and the components of time series.

Unit- I Dispersion

Meaning – Purpose of Measuring Variation – Methods of Measuring Dispersion: Range, Coefficient of Range, Mean Deviation, Coefficient of Mean Deviation, Standard Deviation.

Unit-II Correlation

Meaning – Usefulness – Types of Correlation – Karl Pearson’s coefficient of correlation – Spearman’s Rank Correlation (Simple Problems).

Unit- III Regression (Theory Only)

Meaning – Definition – Uses – Significance – Difference between Correlation and Regression – Limitations of Regression Analysis.

Unit- IV Index Numbers

Meaning – Uses – Characteristics of Index Numbers – Simple Aggregate Method and Simple Average of Price Relative Method: Laspeyre’s Method, Paasche’s Method, Bowley’s Method, Fisher’s Ideal Method and Marshall-Edgeworth’s Method.

Unit- V Time Series (Theory Only)

Meaning – Uses – Components of Time Series: Secular Trend, Seasonal Variation, Cyclical Fluctuations and Random.

Text Book:

1. Pillai, R.S.N and Bhagavathi, V, **Statistics** S.Chand and Co., Ltd., 2007, New Delhi.

Reference Books:

1. Gupta, S.C, **Fundamentals of Statistics**, Himalaya Publishing House, 2005, Mumbai.
2. Gupta, S.P, **Statistical Methods**, Sultan Chand and Sons, 2005, New Delhi.
3. Sancheti, D.C and Kapoor, V.K, **Statistical Methods and Applications**, Sultan Chand and Sons, 2004, New Delhi.