



INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)  
(Deemed to be University Estd. u/s 3 of the UGC Act, 1956)

PALLAVARAM - CHENNAI

**NAAC ACCREDITED WITH 'A' GRADE**

*Marching Beyond 25 Years Successfully*

# **B.A ECONOMICS**

## **Curriculum and Syllabus**

**Effective from the Academic year  
2018 - 2019**

**Department of Economics  
School of Management Studies  
and Commerce**

## PROGRAM EDUCATIONAL OBJECTIVES(PEO)

- PEO1: Program enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the obstacles involved in the process of economic development.
- PEO2: Exhibits theoretical and practical knowledge of economic concepts and theories to explain and understand the business and economic phenomena in the domestic and global context.
- PEO3: Acquaint with statistical, mathematical methods to be applied to obtain solutions to pertinent questions by using qualitative and quantitative reasoning. Application of Statistical techniques to analyze and interpret data for more authentication.
- PEO4: Equips knowledge of the discipline of Economics including concepts, fundamental theories, fiscal and monetary policies to overcome the problems of inflation and deflation.
- PEO5: Publish research findings and innovations in national, international conferences and seminars, project presentations, and publication of research articles in peer reviewed and indexed conferences and journals.

## PROGRAM OUTCOME (PO)

- PO1: **Logical / Analytical reasoning:** Learners will effectively visualize, conceptualize, articulate, and solve complex problems or address problems that do not have a clear answer, with available information, through experimentation and observation, using microeconomic and macroeconomic theories as well as calculus and statistical tools
- PO2: **Conceptualizing:** Learners are capable to apply economic analysis for day to day problems by helping them to understand events, identify proposals to solve the issues, evaluate specific policy proposals and implement the policies in an effective manner.
- PO3: **Integrative Knowledge:** Students will broaden their global and disciplinary knowledge, enhancing their understanding of the world around them both within economy and beyond.
- PO4: **Applicability:** Students are provided with opportunity to focus on applied and policy issues in Economics by emphasizing quantitative and theoretical aspects of Economics.
- PO5: **Superintendence:** Students are equipped with skills to work as part of a team and lead others, ensuring them to prepare and navigate diverse audiences and situations.

- PO6: Specialization :** Learners to understand the economic functioning and conditions of our country in the context of past, present and future
- PO7: The Teacher and Society:** Application of reasoning for the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional teaching practice.

## **PROGRAMME SPECIFIC OUTCOME (PSO)**

- PSO1: Students will be able to apply supply and demand analysis to examine the impact of government regulation and it also enable them to explain determinants of demand and supply, responses of market and the benefits of exchange.
- PSO2: Course provides knowledge regarding the formulation of broad economic policies that maximize the level of national income, providing economic growth to achieve sustainability, full employment, price stability, external balance, increasing productivity in the long run
- PSO3: Demonstrate knowledge and understanding of the education management principle and apply these to teaching learning process.
- PSO4: Recognize the need for citizenship training and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
- PSO5: Communicate effectively on complex teaching activities with the teaching community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
- PSO6: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
- PSO7: Apply ethical principles and commit to professional ethics and responsibilities and norms of the teaching practice.
- PSO8: Recognize the impact of the professional teaching and learning solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

**BOARD OF STUDIES**  
**BOARD OF STUDIES IN ECONOMICS (UG)**  
**MEMBERS FOR A PERIOD OF THREE YEARS (17.03.2017 –**  
**16.03.2020)**

SI.NO	NAME	DESIGNATION	ADDRESS	ACTED
1.	Dr. S.N. SUGUMAR	Prof & HOD	Dept. of Economics, VELS University	Chair-person
2.	Dr. K. RAMESH	Associate Professor	Presidency College, Chennai	External Member
3.	Mr. N. SELVAKUMAR	Assistant Manager	Sales Manager Popular Vehicle and Services Ltd., Balaji Nagar, Chennai. 600100	External Member
4.	Dr. S. CHANDRACHUD	Professor	Dept. of Economics, VELS University	Internal Member
5.	Dr. S. JANSIRANI	Associate Professor	Dept. of Economics, VELS University	Internal Member
6	Dr. S. SURESH	Associate Professor	Dept. of Economics, VELS University	Internal Member
7	Dr. B. CHITHIRAIRAJAN	Associate Professor	Dept. of Economics, VELS University	Internal Member
8.	DR.S. SUDHA	Assistant Professor	Dept. of Economics, VELS University	Internal Member

**Department of Economics**  
**Curriculum**

SEM	CATEGORY	TITLE OF THE SUBJECT	HOURS	CREDITS	CA MARKS	END SEM MARKS	TOTAL MARKS
I	CORE	TAMIL/HINDI/FRENCH	5	4	40	60	100
I	CORE	ENGLISH	5	4	40	60	100
I	CORE	MICRO ECONOMICS - I	5	4	40	60	100
I	CORE	STATISTICS - I	5	4	40	60	100
I	DSEC	FINANCIAL INSTITUTIONS AND MARKETS - I	5	4	40	60	100
<b>Total</b>			<b>25</b>	<b>20</b>			
II	CORE	TAMIL/HINDI/FRENCH	5	4	40	60	100
II	CORE	ENGLISH	5	4	40	60	100
II	CORE	MICRO ECONOMICS - II	5	4	40	60	100
II	CORE	STATISTICS - II	5	4	40	60	100
II	DSEC	FINANCIAL INSTITUTIONS AND MARKETS -II	5	4	40	60	100
<b>Total</b>			<b>25</b>	<b>20</b>			
III	CORE	TAMIL/HINDI/FRENCH	5	4	40	60	100
III	CORE	ENGLISH	5	4	40	60	100
III	CORE	INDIAN ECONOMY I	4	4	40	60	100
III	CORE	MONETARY ECONOMY I	4	4	40	60	100
III	DSEC	OPERATION RESEARCH	4	4	40	60	100
III	GEC	PERSONALITY DEVELOPMENT	2	2	40	60	100
III	SEEC	ETHICS AND VALUES I	2	2	40	60	100
<b>Total</b>			<b>26</b>	<b>24</b>			

SEM	CATEGORY	TITLE OF THE SUBJECT	HOURS	CREDITS	CA MARKS	END SEM MARKS	TOTAL MARKS
IV	CORE	TAMIL/HINDI/FRENCH	5	4	40	60	100
IV	CORE	ENGLISH	5	4	40	60	100
IV	CORE	INDIAN ECONOMY II	4	4	40	60	100
IV	CORE	MONETARY ECONOMY II	4	4	40	60	100
IV	DSEC	HUMAN RESOURCE MANAGEMENT	4	4	40	60	100
IV	AEEC	ENVIRONMENTAL STUDIES	2	2	40	60	100
IV	SEEC	ETHICS AND VALUES II	2	2	40	60	100
<b>Total</b>			<b>26</b>	<b>24</b>			
V	CORE	FISCAL ECONOMICS I	5	4	40	60	100
V	CORE	MACROECONOMICS I	5	4	40	60	100
V	CORE	ECONOMIC THOUGHT	5	4	40	60	100
V	CORE	LABOUR ECONOMICS	5	4	40	60	100
V	CORE	HEALTH ECONOMICS	5	4	40	60	100
	GEC	PROJECT MANAGEMENT I	2	2	40	60	100
<b>Total</b>			<b>27</b>	<b>22</b>			
VI	CORE	FISCAL ECONOMICS II	5	4	40	60	100
VI	CORE	MACROECONOMICS II	5	4	40	60	100
VI	CORE	QUANTITATIVE ECONOMICS	5	4	40	60	100
VI	CORE	INTERNATIONAL ECONOMICS	5	4	40	60	100
VI	CORE	ENVIRONMENTAL ECONOMICS	5	4	40	60	100
	GEC	PROJECT MANAGEMENT II	2	2	40	60	100
<b>Total</b>			<b>27</b>	<b>22</b>			

**Grand Total 132**



## Course outcomes

CO1	Familiar with the definitions of economics
CO2	Understand the law of demand and law of supply
CO3	Understand the consumer behavior theories
CO4	Understand the theory of Production
CO5	Familiar with the market structure

## I SEMESTER

### Paper 4 CORE COURSE II – STATISTICS – I

**Objective:** To understand the fundamental elements of statistics and its important tools which are relevant for economics

#### **Unit I Introduction to Statistics, collection and classification of data 12**

Definitions – meaning – functions – limitations of statistics. Collection of data – Primary data – methods of data collection – secondary data – sources of secondary data. Classification of data – meaning and types – tabulation – difference between classification and tabulation

#### **Unit II Classification of Data 12**

Diagrammatic representation – bar diagram, simple bar diagram, multiple bar diagram, component bar diagram, percentage bar diagram, Pie diagram, Pictogram

#### **Unit III Graphic Representation 12**



Techniques of constructing graphs, graphs of one variable – graphs of two or more variables. Graphs of frequency distributions – histogram – frequencies polygram – smooth frequency curve – cumulative frequency curve or ogives.

**Unit IV Measures of Central Tendency 12**

Objectives and features of good average – mean – median – mode – harmonic mean – geometric mean – merits and demerits

**Unit V Measures of Dispersion and Skewness 12**

Dispersion – meaning – importance – range – quartile deviation – mean – standard deviation and coefficient of variation – Skewness – Pearson and Bowley’s coefficient

**Total Hours: 60**

**Text Book**

1. Gupta S.P., Statistical Methods, Sultan Chand & Sons, New Delhi.

**References**

1. Pillai, R.S.N. and Bhagavathi V.S., Statistics S. Chand & Company Ltd., New Delhi.
2. P.R Vittal., Business statistics, margham publications Chennai – 600 017

**Course outcomes**

- CO1 Familiar with the basics of statistics
- CO2 Able to calculate mean median and mode
- CO3 Run correlation with two variables
- CO4 Can use the simple regression model
- CO5 Distinguish between primary and secondary data and also familiar with how to collect data

## SEMESTER – I

### Paper 5

### FINANCIAL INSTITUTIONS AND MARKETS - I

**Objective:** To understand the basics of financial institutions and their role in economic growth and development

#### UNIT – I

12

Money market – meaning and scope – Components of Money Supply - Bank rate – Monetary Policy – Banking system in India.

#### UNIT – II

12

Banking and Financial System – Introduction – Definition - Types of Banks – RBI'S Regulations and Functions of Commercial Banks – Credit creation – Modern Functions of Banks.

#### UNIT- III

12

Capital Market – SEBI and its regulations – Non -banking Institutions in India – Stock exchange – meaning and scope.

#### UNIT- IV

12

Share market – Primary and Secondary market – Types of Equities – Types of Bonds – Bonds and Equities – Types of Investments – Share Market Indices.

#### UNIT – V

12

Insurance – Types and need – Life and General – Role of IRDA – Financial derivatives - Types- Health Insurance – meaning and significance

**Total Hours: 60**

#### **Text Books:**

1. Khan. M.Y (2015) **Indian Financial System**, Tata McGraw Hill, New Delhi.
2. Bhole (2015) **Financial Institutions and Markets**, Mc Graw Hill, New Delhi.

## **Course outcomes**

- CO1 Knowledge about the concept of financial institutions
- CO2 Aware of role of commercial and Central bank
- CO3 Familiarity with Able to distinguish capital market operation and money market operations
- CO4 Able to distinguish capital market operation and money market
- CO5 Understand the Different types of Insurance policy

## **SEMESTER – II**

### **Paper 1 - Languages – Tamil/English/French -II**

### **Paper 2 - English - II**

### **Paper 3**

### **MICRO ECONOMICS – II**

**Objective :** To understand the different types of cost and structure of market and theories of four factors of productions..

#### **UNIT I**

**12**

Cost: Types - Accounting Cost - Economic Cost – Classification of cost by Joel Dean – Short Run Cost Curves – Long Run Cost Curves – Revenue Curves – Total, Average and Marginal Revenue Curves – Relationship between AR and MR

#### **UNIT II**

**12**

Market Structure – Monopoly – Features – Price Discrimination - Kinds of Monopoly - – Simple Monopoly - Price and Output Determination under Monopoly – Discriminating monopoly

#### **UNIT III**

**12**

Monopolistic Competition – Features – Price and Output Determination – Oligopoly – Features – Types – Price Leadership – Kinked Demand Curve – Price Rigidity.

#### **UNIT IV**

**12**

Different Concepts of Rent – Ricardian Theory of Rent – Assumptions – Modern Theory of Rent – Quasi Rent - Wages - Real Wages – Nominal Wages – Marginal Productivity Theory of Wages.

## **UNIT V**

**12**

Interest and profit - Meaning – Classical, Neo-classical Theories of Interest – Keynes Liquidity Preference Theory – Theories of Profit – Break even analysis.

### **TEXT BOOKS:**

1. H.L. AHUJA – Principles of Micro Economics
2. H.S. AGARWAL – Micro Economics
3. M.L. SETH – Principles of Micro Economics
4. M.L. JHINGAN – Micro Economics

## **Course outcomes**

- CO1 Familiarity with cost and revenue concepts
- CO2 Awareness about monopoly market
- CO3 Understanding Monopolistic and Oligopoly market
- CO4 Understand the theories of rent and wages
- CO5 Understand the theories of Interest and Profit

## II SEMESTER

### Paper 4 CORE COURSE II – STATISTICS – II

**Objective :** To analyze the economic issues through statistical support by using different statistical tools.

#### **Unit I Correlation Analysis 12**

Meaning – importance – types – positive and negative – simple, partial and multiple – linear and non linear – scatter diagram – karlpearson’s coefficient – rank correlation.

#### **Unit II Regression Analysis 12**

Meaning – differences between correlation and regression – regression equation – graphing regression lines.

#### **Unit III Time-Series 12**

Definition – components – Secular trend – seasonal variation – cyclic variation – irregular variation. Measurement of trend – graphic method – semi average method – moving average method – method of least squares.

#### **Unit IV Probability 12**

Meaning – addition theorem – conditional probability – multiplication theorem – mathematical expectation – random variable and probability distribution.

#### **Unit V Theoretical Distribution 12**

Discrete probability distributions – binomial – obtaining binomial coefficient – properties and simple problems. Poisson – simple problems. Continuous probability distribution – normal distribution – properties and simple problems.

**Total Hours: 60**

#### **Text Book**

1. Gupta S.P., Statistical Methods, Sultan Chand & Sons, New Delhi.

#### **References**

1. Pillai, R.S.N. and Bhagavathi V.S., Statistics S. Chand & Company Ltd., New Delhi.
2. P.R Vittal., Business statistics, margham publications Chennai – 600 017

## **Course outcomes**

- CO1            can apply the tool of Karl Pearson rank correlation
- CO2            Will run the regression model
- CO3            Aware of probability analysis
- CO4            Distinguish between binomial and normal distribution
- CO5            Aware of distribution theories (Normal, Poisson)

## **SEMESTER – II**

### **Paper 5**

### **FINANCIAL INSTITUTIONS AND MARKETS – II**

**Objective :** To know more about the financial part of economic issues through capital budgeting, SEBI and other financial factors.

### **UNIT- I**

**12**

Capital Budgeting – Definition – Features – need and Objectives – Banks – Regulation of Working Capital and Finance.

**UNIT-II****12**

Negotiable Instruments- Structure – Characteristics – Primary and Secondary functions – Market Intermediaries, Stock Brokers, Underwriters, Depositories Credit Rating Agencies.

**UNIT- III****12**

Stock Market System – Trading, Listing, Regulation of Stock Market – Market Efficiency – NSE and BSE – Online Trading System – SEBI – Guidelines for Capital Issues – Pricing – Insider Trading – Investor Protection.

**UNIT- IV****12**

Derivative markets – Options and Futures – Trading System – Consumer Finance – Factoring – Leasing - Hire Purchase.

**UNIT- V****12**

An overview of Financial Market- Legal and Regulatory framework- Financial Sector Reforms – SCRA- Various segments of Financial Markets – Venture Capital Financing, Mutual Funds – Financial Information System (FIS).

**Total Hours: 60****Text Books:**

1. Khan. M.Y (2015) **Indian Financial System**, Tata McGraw Hill, New Delhi.
2. Bhole (2015) **Financial Institutions and Markets**, Mc Graw Hill, New Delhi.

**Course outcomes**

CO1            Aware of objectives of different types of financial institutions

CO2            Knowledge about the linkage of primary and secondary market.

CO3	Knowledge of provisions on investors protections
CO4	Able to distinguish factoring, leasing and HP
CO5	Able to do projections on financial information system

### SEMESTER – III

#### Paper 1 - Languages – Tamil/English/French -III

#### Paper 2 - English - III

#### Paper 3 **INDIAN ECONOMY - I**

**Objective :** To understand the features of Indian economy and all major sectors and their development

##### **Unit I** **12**

Features of Indian economy – Factors Responsible for Development – Development as Distinct from Growth- a Comparison between India and other Developed Economies.

##### **Unit II** **12**

Planning in India – Meaning, Process, and Approaches. Five year plans - Objectives in general and targets and performance.

##### **Unit III** **12**

Agricultural role in Indian Economy - problems of low productivity – Land Reforms – need and scope. The food problem and Green Revolution; Mechanization – Desirability and Feasibility.

##### **Unit IV** **12**

Agricultural Marketing- Regulated Markets- warehousing – Role of Agricultural Price Commission (APC) - Procurement Policy- Buffer Stock – Dual Pricing- Role of FCI – Agricultural Credit – Need and Sources.

##### **Unit V** **12**

Industry – importance – Role of Small Scale Industry- large scale industries (Iron & Steel, Cotton, Textiles, Sugar, Jute, Petro- chemicals, Tea, etc..) Industrial Sickness – causes and measures; Industrial Policy Resolutions (of 1956, 1985& 1991)

**Total Hours: 60**

#### **Reference books:**

1. Rudar Dutt & K.P.M Sundaram, Indian Economy,S. Chand& co.,



2. M.L Jhigan, Economics of Development & Planning, Konark Publishers, New Delhi.
3. RBI Bulletin, Primit Chandhury, The Indian Economy, Poverty and Development, Vikas Publishing House, New Delhi.
4. Velayutham, Foreign Trade, Theory & Practice, S. Chand & co.,

## **Course outcomes**

- CO1            Basic knowledge about Indian economy
- CO2            Familiar with features of growth and development concept.
- CO3            Aware of different five year plans
- CO4            Aware of features of agricultural sector and Agmark.
- CO5            Knowledge on significance of industries and their policies

## **Paper 4**

### **MONETARY ECONOMICS – I**

Objective:    To know the functions and role of money and various theories of demand for money.

#### **UNIT – I**

Money – Definition and Kinds of Money – Functions of Money – Role of Money in a Modern Economy – Socialist and Capitalist Economy – Qualities of good money materials – Gresham's Law

#### **UNIT – II**

The Classical Quantity theory of Money – The Cambridge Version of Quantity theory of Money – Superiority of Cash Balance Approach over Transaction Approach – Keynesian Theory of Demand for Money.

### UNIT –III

The Supply of Money – Sources of Money Supply – The Measures of Money Supply in India – The Theory of Money Supply – Monetary Expansion and the Money Multiplier – Money Supply and Price Level.

### UNIT – IV

Business Cycle – Characteristics of Business Cycle – Phases of Business Cycle – Types of Business Cycle – Business Cycle and Controlled Economies – Measures to Control Business Cycle.

### UNIT – V

Inflation – Meaning and measures of Inflation – Types of Inflation – Causes and Effects of Inflation – Inflation in India – Inflationary Gap – Stagflation and Stagnation – Meaning.

### Books for References

1. Jhingan, M.L – Monetary Economics
2. Sankaran, S – Monetary Economics
3. Vaish, M.C – Monetary Theory
4. D.N. Dwivedi – Macro Economics

### Course Outcomes:

- CO1 - Aware of functions and classifications of money
- CO2 - Knowledge on classical theory of demand for money
- CO3 - Knowledge on Supply of money
- CO4 - Aware of Characteristics and effects of trade cycle
- CO5 - Knowledge on causes and Types of inflation

### Paper 5

### OPERATIONS RESEARCH

**Objective :** To study the basics of linear programming and its applications in economics

**UNIT I INTRODUCTION TO OPERATION RESEARCH 12**

Introduction to OR – scope of OR in Business – Linear Programming problems – Formulation – Graphical method of solution.

**UNIT II LINEAR PROGRAMMING PROBLEMS 12**

Linear programming problems – Simplex method

**UNIT III TRANSPORTATION PROBLEMS AND ASSIGNMENT PROBLEMS 12**

Transportation problems – Assignment Problem

**UNIT IV NETWORK ANALYSIS 12**

Network Analysis: Introduction – Basic Terminologies – Critical Path Method – PERT – Float analysis

**UNIT V SEQUENCING AND GAME THEORY 12**

Sequencing Problems: Solution using Johnson's Algorithm – method. Game Theory: Introduction – Two person Zero Sum Games Mixed Strategies.

**Total Hours: 60**

**Text books:**

1. Resource management techniques by .Sundarasan, K.S. Ganapathy, Subramaniam, K. Ganesan – A.R. Publications – 2000.
2. Operations Research by S.D. Sharma – S. Chand & Co – 2000

**References:**

1. Operations research by HamdyTaha – Mcmillan Publishing company – New York – 1995
2. Operations research by S.D. Sharma – S. Chand & Co – 2001.

**Course outcomes**

CO –I	To introduce the meaning and scope of operation research
CO –II	To give practical exposure to Linear programming problems
CO –III	To give practical exposure to transportation and assignment problems
CO –IV	To helps to facilitates the learning of network analysis
CO –V	To give practical exposure to sequencing and game theory

**Paper 6 PERSONALITY DEVELOPMENT**

**Course Objective:** To make aware about the importance of personality and development in the business world. To make the students follow the good personality and create a good relationship with others.

**Unit 1 Personality Development – Introduction****12**

The Concept of Personality - Dimensions of Personality – Personality Development – Significance. The Concept of Success and Failure What is Success? – Hurdles in Achieving Success – Overcoming Hurdles – Factors Responsible for Success – What is Failure? – Causes of Failure – Do’s and Don’ts - Regarding Success and Failure.

**Unit 2 Attitudes and Values 12** Attitude – Concept – Significance – Factors Affecting Attitudes – Positive Attitude –

Advantages – Negative Attitude – Disadvantages – Ways to Develop Positive Attitude – Difference between Personalities Having Positive and Negative Attitude.

**Unit 3 Motivation****12**

Concept of Motivation – Significance – Internal and External Motives –Importance of Self-Motivation – Factors leading to De-motivation – Theories of Motivation.

#### **Unit 4 Self Esteem and Smart**

**12**

Term Self-Esteem – Symptoms – Advantages – Do's and Don'ts to Develop Positive Self-Esteem – Low Self-Esteem – Symptoms – Personality having Low Self-Esteem – Positive and Negative Self-Esteem. Developing Positive Personality – Analysis of Strengths and Weaknesses. Concept of Goal-Setting – Importance of Goals – Dream Vs Goal – Why Goal-Setting Fails? – Smart (Specific, Measurable, Achievable, Realistic, Time-Bound) Goals

**12**

#### **Unit 5 Body Language, Stress Management & Time Management**

Body Language – Assertiveness – Problem Solving – Conflict and Stress Management – Decision-Making Skills – Positive and Creative Thinking – Leadership and Qualities of a Successful Leader – Character Building – Team Work – Lateral Thinking – Time Management and Work Ethics.

**Total Hours: 60**

#### **Topics Prescribed for Workshop/Skill Lab: 12**

- A) Group Discussion
- B) Presentation Skill

#### **Course outcomes**

- CO –I To understand the concept of personality development techniques
- CO –II Familiar with positive attitudes and practice
- CO –III Knowledge about theories of motivation
- CO –IV How to improve the self-esteem and personality
- CO –V Aware of body language and stress & time management

**Paper 7**

**ETHICS AND VALUES – I**

**Course Objective:** To help the students to understand the significance of ethics and values in business and life. To understand ethical issues and not to fall prey to unethical practices and to be socially responsible

**Unit I Introduction: 12**

Need for Value education – Ethical reflection – What is ethics? - Swamy Vivekananda

**Unit II Approach to life: 12**

Approach to life – Happiness as goal – Historical perspective – Life in the past and present.

**Unit III Kinds of Values: 12**

Kinds of values – Living Excellence – Antony Robbins – Concern for others – Student’s definition - Why concern.

**Unit IV Goals and human rights : 12**

Use goals to help you grow – David J Schwartz – essential characteristics of human rights – H.Victor Conde

**Unit V Influence of Science and technology in Social Life 12**

Social relevance of Science and technology - Economic awareness – Economic features – status of women – Mass media and values

**Total Hours: 60**

**Textbook:**

1.Touchstone – synergy of values – University of Madras

**Reference book :**

2. In harmony – Value Education at college Level – Dept. of Ethics and Religious Studies - Loyola College – Madras

**Course outcomes**

CO –I Aware of the significance of value of life

CO –II Knowledge about the kinds of values and approach to life

CO –III Familiar with prospective life style

CO –IV How to set goals in life

CO –V Role of science and technology in day to day life

## SEMESTER – IV

### Paper 1 - Languages – Tamil/English/French -IV

### Paper 2 - English - IV

### Paper 3

### INDIAN ECONOMY - II

**Objective :** To understand the different concepts of national income and recent issues like LPG, IMF, IBRD and WTO.

#### Unit I

12

Industrial finance - need and sources of credit - Financial Institutions (IFCI,SFC, ICICI, IDBI, SIDBI, IIBI, EXIM bank) Foreign Capital-various forms ( Public vs. Private and Loans vs, Investments) FDI and FII.

#### Unit II

12

Privatization and Economic Reforms; Public vs. Private Sector- New Economic Policy (Liberalization, Privatization and Globalization); Economic Reforms phase-I (1985-1990); phase II 1991& after; (reforms pertain to the following policies: Fiscal, Monetary, Pricing, Industrial, Trade, public Sector, External and Foreign Investment) Common Minimum Programme (CMP).

#### Unit III

12

Human Resource and Economic Development; Unique demographic features in India (growth rate, density, sex wise and age wise distribution, etc.,) New Population Policy (Integration of Economic and Population Planning). Unemployment and Poverty: - Remedial measures and Govt. schemes like IRDP, Micro Finance, etc., Business Process Outsourcing (BPO) - The Problems and Benefits to India.

**Unit IV** 12 Labour Economics; Trade Unions – Industrial Relations- (Industrial Disputes)-

Mechanization and labour problems – Labour Legislation- Social Security Schemes – recent policy changes- contributory pension schemes, etc.,

#### Unit V

12

Foreign Trade and Balance of Payments – Position, Problems and measures to improve balance of payments- India in the Global Market. Functions of IMF, IBRD and WTO.

**Total Hours: 60**

#### Reference books:

1. Rudar Dutt & K.P.M Sundaram, Indian Economy,S. Chand& co.,
2. M.I Jhigan, Economics of Development & Planning, Konark Publishers, New Delhi.
3. Dr. S. Sankaran, Indian Economy, Margham Publications, Chennai.
4. RBI Bulletin, Pramit Chandhury, The Indian Economy, Poverty and Development, Vikas Publishing House, New Delhi.
5. Velayutham, Foreign Trade, Theory & Practice, S. Chand & co.,

**Course outcomes**

- CO1 Knowledge about the significance and need for industrial finance
- CO2 Knowledge about the New economic policy - 1991.
- CO3 Aware of human resource and economic development
- CO4 Knowledge on the objectives of trade unions
- CO5 Familiar with infrastructure of Indian economy



## **Paper 4**

### **MONETARY ECONOMICS – II**

**Objective:** To understand the modern theories of demand for money, monetary policies , structure of Indian banking system and other banking institutions and banking policies of India

#### **UNIT – I**

Modern theory of Demand for Money – Keynesian Approach – Friedman’s restatement quantity theory of Money – Gurley and Shaw’s approach

#### **UNIT – II**

Interest – Meaning – Classical, Neo-classical, and Keynesian Theory of Interest – Liquidity Preference and Liquidity Trap.

#### **UNIT – III**

Monetary Policy – Meaning –Objectives – Instruments of Monetary Policy – Bank Rate, Repo Rate, Reverse Repo Rate, SLR, CRR – Role of Monetary Policy and Economic Development of India

#### **UNIT – IV**

Commercial Bank – Structure and Functions – Credit Creation – Central Bank – Nature and Principles of Central Banking – Functions of RBI in India – Organisation and Management – RBI and Monetary Policy.

#### **UNIT – V**

Lead Bank Scheme – Objectives and Criticism of Lead Bank Scheme – Performance of Nationalised Banks – Recommendations of National Committee on Financial System – Role of NABARD and SIDBI in Agricultural Development – Industrial Reconstruction Bank of India.

**Books for References:**

1. Gupta, S.B - Monetary Economics
2. Sethi, T.T - Monetary Economics
3. Kishore, G. Kulkarni - Modern Monetary Theory

**Course Outcomes:**

- CO1 - Aware of Modern theory of demand for money
- CO2 - Knowledge on the significance of the rate of interest.
- CO3 - Knowledge on the objectives and tools of monetary policy
- CO4 - Knowledge on function of commercial banks and RBI
- CO5 - Aware of Lead Bank Scheme, NABARD, SIDBI and IRBI

**Paper 5**

**HUMAN RESOURCE MANAGEMENT**

**Objective :** To understand the significance, role and planning & development of HRM

**Unit - I Introduction to HRM 12** Definition and concept of HRM – evolution from Personnel Management- Importance and functions of HRM – Activities and role of HR manager – Challenges of HRM

**Unit - II Human Resources Planning 12**  
Definition and objectives of Human Resource planning- process of Human Resource planning factors influencing estimation of Human Resources.  
Concept of Recruitment-Recruitment policy-Sources of Recruitment-Selection procedure – Promotion and demotion policy- Recruitment process outsourcing (RPO)

**Unit - III Training and Development 12** Meaning and Definition- Need-Objectives- Importance of Training-Training Methods-Evaluation of Training Programme Concept of Management Development Management Development Process and methods Evaluation of Management Development Programme

**Unit - IV Performance Appraisal 12**  
Concept and objectives of performance Appraisal- Process Performance Appraisal Methods- Uses and limitations of Performance Appraisal

**Unit - V Contemporary Issues 12**  
Talent management - Workplace Stress – women at work – violence at workplace – the Moonlight effect Flexibility and Change - Managing Knowledge and Learning - Managing an International Workforce - Developing HR Strategies – HR in electronic era.

**Total Hours: 60**

**Text Books:**

- 1) V. P. Michael, Human Resource Management & Human Relations, Vikas Publishing House, 2007
- 2) P. C. Pardeshi, Human Resource Management. Nirali Prakashan pub, 2013
- 3) C. B. Mamoria, Personnel Management, Himalaya Publishing, 2005
- 4) Rao, V.S.P, Human Resource Management- Text and Cases, Excel Books, 2001

## References Books:

1. Monappa & Saiyaddin: Personnel Management, McGraw Hill, 2011
2. Dessler.G: Human Resource Management, Pearson publisher, 2005
3. R.Wayne Mondy & Rober M.Noel: Human Resource Management, Pearson publisher, 2001
4. L.M.Prasad , Human Resource Management., sultan chand, 2<sup>nd</sup> edition, 2005

## Course outcomes

- |     |  |
|-----|--|
| CO1 | Basic knowledge about HRM concepts               |
| CO2 | Familiar with HRM and resource planning.         |
| CO3 | Knowledge on training and development process    |
| CO4 | Knowledge on objectives of performance appraisal |
| CO5 | Awareness about recent issues on HRM             |

## ENVIRONMENTAL STUDIES

**Objective :** To be aware of natural resources and eco system. Also to understand the value of biodiversity and various kinds pollutions.

### UNIT I INTRODUCTION 12

The multidisciplinary nature of Environmental of studies – Definition - Scope and Importance - Need for Public Awareness.

### UNIT II NATURAL RESOURCES 12

Natural resources and associated problem - Renewable and Non- Renewable resources:- Forest Resources-Mineral Resources-Food Resources - Energy Resources - Land Resources: Role of an individual in conservation of natural resources- Equitable use of resources of sustainable lifestyles.

### UNIT III ECO SYSTEM 12

Concepts of an Ecosystem - Structure and Functions of an Ecosystem - Procedures, Consumers and Decomposers - Energy flow in the ecosystem - Food chains, Food webs and ecological pyramids - Introduction, types, Characteristics features - Structures and functions of

the following ecosystem :Forest ecosystem, Grass land ecosystem, Desert ecosystem, Aquatic ecosystem.

#### **UNIT IV BIODIVERSITY AND ITS CONSERVATION**

**12**

Introduction - Definition, genetic, species and ecosystem diversity - Bio-geographical classification of India - Value of Bio-diversity - Bio-diversity at global, National and Local levels - India s a mega-diversity nation - Hot-Spots of diversity - Threats to diversity: Habitats loss, poaching of Wild life, man wild life conflicts - Endangered and Endemic species of India In-Situ conversation of Bio-diversity.

#### **UNIT V ENVIRONMENTAL POLLUTION AND HUMAN RIGHTS**

**12**

Definition - Causes, effects and control measures of : Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear pollution - Soil pollution management: Causes, effects and control measures of urban and industrial wastes - Role of an individual in prevention of pollution - Pollution – Case studies -Disaster Management – Flood, earthquakes, cyclone of landslides Environment and human health - Human rights - Value education - HIV/AIDS - Women and child welfare - Role of information technology in Environment and Human health - Case study.

**Total Hours: 60**

#### **Text book:**

1. Dr. Shradhasinha, Dr.Manishashukula, Dr. Ranjana Shukla, “Environmental studies, Kurukshetra University. August 2014.

#### **References:**

1. Dr. N. Arumugam, Prof.V. Kumaresan, “Environmental studies”, Saras Publication, 2014.
2. Thangamani&ShyamalaThangamani, “Environmental studies”,Kurukshetra University. August 2013.

#### **Course Outcomes**

CO-1 Understand key concepts from environment studies , political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.

CO-2 To understand and appreciate concepts and methods from renewable and non-renewable sources and their application in environmental problem solving.

CO-3 Students can acquire knowledge on ecosystem, Food Chains, and historical context of environmental issues and the links between human and natural systems.

CO-4 Students understand critically on Bio-diversity , threats for Bio-diversity and their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

CO-5 To understand environmental pollution and human rights

## **ETHICS AND VALUES – II**

**Course Objective:** To help the students to understand the significance of ethics and values in business and life. To understand ethical issues and not to fall prey to unethical practices and to be socially responsible

**Unit I Introduction: 12**

Need for value education and its role in socio-economic-political development.

**Unit II Approach to life: 12**

Views and messages of Swamy Vivekananda on value education and ethics.

**Unit III Theories of Values and ethics: 12**

Theories of values & ethics and its impact on economic development and social life.

**Unit IV Goals and human rights : 12**

Compatibility of human life and ethics & values. Religion and values & ethics – Goals of human life.

**Unit V Science and technology and ethics 12**

Social responsibilities of innovators, entrepreneurs and traders – Professional ethics – Doctors. Professors, engineers, lawyers. Politicians, public servants and civic sense of individuals.

**Total Hours: 60**

**Textbook:**

1. Touchstone – synergy of values – University of Madras Reference book

2. In harmony – Value Education at college Level – Dept. of Ethics and Religious Studies - Loyola College – Madras.

### **Course outcomes**

- CO –1          Aware of significance of values in social and political life
- CO –2          Familiar with views of Swami Vivekananda on Values
- CO –3          Familiar with Theories of values
- CO –4          Aware of modern science and values
- CO –5          Role of individual in social life

## **SEMESTER V**

### **Paper 1**

### **FISCAL ECONOMICS –I**

**Objective :** To understand the fundamental elements of theories of taxation, public expenditure and revenues

#### **UNIT – I** **12**

Introduction – Definition and Meaning –Scope of Public Finance – Need for Government Activity- Distinction between Private and Public Finance

#### **UNIT – II** **12**

Public Expenditure - Causes and Effects of Public Expenditure with reference to India – Relationship of Public Finance with other subjects.

#### **UNIT – III** **12**

Main Sources of Public Revenue; Classification of Public Revenue – Public Receipts of Government of India – Revenue Receipts and Capital Receipts.

#### **UNIT – IV** **12**

Taxation - Definition – Characteristics – Classification of a Tax – Direct and Indirect Taxes –Canons of Taxation.

#### **UNIT – V** **12**

Personal Income Tax – Categories of Income Tax – Taxable Income of an Individual – Capital Gains Tax- Excess Profit Tax- Expenditure Tax- Wealth Tax - Property Tax – Estate Duty- Sales Tax- Value Added Tax.

**Total Hours: 60**



**BOOKS FOR REFERENCE:**

- 1. Tyagi.B.P.: Public Finance.**
- 2. Dr.S.Sankaran: Fiscal Economics**
- 3. Sundaram .K.P.M: Fiscal Economics**

**Course outcomes :**

- CO1            Aware of nature and scope of fiscal economics
- CO2            Knowledge about causes and effects of public expenditure
- CO3            Knowledge on classification of public revenue
- CO4            Aware of theories of taxation
- CO5            Able to understand property tax, wealth tax, estate duty and  
GST

**Paper 2**

**MACRO ECONOMICS - 1**

**Objective :** To understand macroeconomic concepts like National income accounting, consumption functions and determinants of investments.

**UNIT-I**

**12**

Nature, scope and importance of Macroeconomics- limitation-variables- Dependent and Independent – endogenous-exogenous-stock and flow-circular flow of income- four sector model

**UNIT-II**

**12**

National Income- Definition- Concepts- GNP- GDP-NNP- Personal Income- Real Income- Disposable Income- Per capita Income-Measurement of National Income- Income Method- Expenditure Method- Product Method- Difficulties in the measurement of National Income

**UNIT-III**

**12**

Classical Theory of Income and employment- Say's Law of Market- Assumption- Implications of the Law

**UNIT-IV**

**12**

Consumption function- Meaning- Determining Consumption Function- Subjective and Objective Factors- Keynes's psychological Consumption function - Theories of Consumption Function-Absolute Income Theory- Relative Income Theory- Permanent Income Theory- Life Cycle Hypothesis

**UNIT-V**

**12**

Investment Function-Meaning- Types-Determinants of Investments- MEC- Factors affecting MEC- MEI- Keynesian Model of Income and Employment Determination

**Total Hours: 60**

**Books for Reference**

1. M.L.Jhingan, "Macro Economic Theory"
2. Vaish. M.C "Macro Economic Theory"
3. Sankaran. S "Macro Economics"
4. Brooman, "Macro Economics"
5. Derberg and Mc. Dougal, "Macro Economics"

## **Course outcomes**

CO1          Aware of scope and nature of macroeconomics

CO2          Knowledge on different concepts of national income

CO3	Aware of classical theory of income and employment
CO4	Familiar with the consumption functions and MEC
CO5	Aware of investment functions and determinants

### **HISTORY OF ECONOMIC THOUGHT**

#### **Paper 3**

**Objective :** To know the biography and economic views of Indian and world economists

<b>Unit I</b>	<b>12</b>
Nature and Significance of the History of Economic thought    Mercantilism Physiocracy	
<b>Unit II</b>	<b>12</b>
Classical school – Adam Smith –T.R. Malthus – D Ricardo – J.S Mill – J.B. say.	
<b>Unit III</b>	<b>12</b>
Role of Socialism – Karl Marx – Different schools of Socialism, utopian – Christian – Fabian – Syndicalism – Guild Socialism	
<b>Unit IV</b>	<b>12</b>
Historical school – List – Veblen and institutional school – Marginal school and Austrians School	
<b>Unit V</b>	<b>12</b>
Indian Economic Thought - D. Naoroji – Rajaji– Gokhale – M.K Gandhi – B.R. Ambedkar – E.V.R Periyar	
<b>Total Hours: 60</b>	

#### **REFERENCE**

1. E. Roll – History of Economic Thought.
2. A. Grey –Development of Economic Doctrines.

3. L.H. Haney – History of Economic Thought.
4. Dr. Shanmuga Sundaram – Indian Economic Thought Development and Policies.
5. V.B.Singh - From Naoroji to Nehru.
6. Srivatsava – History of Economic Thought
7. T.N. Hajela - History of Economic Thought
8. Sankaram . S – A History of Economic Thought

### **Course outcomes**

- CO1            Aware of nature and scope of economic thought
- CO2            Knowledge about classical economists, Adamsmith, Malthus, Ricardo J.S.Mill, and J.B Say
- CO3            Knowledge on socialism and different schools of socialism
- CO4            Able to distinguish between Historical school, Institutional schools and Marginal schools
- CO5            Aware of Indian economic thoughts – Nehruji, Gokhale, M.K. Ghandhi, B.R. Ambethkar and E.V.R. Periyar

### **Paper 4**

### **LABOUR ECONOMICS**

**Objective :** To study the labour issues with reference to Indian scenario and labour relations in India

#### **UNIT – I**

**12**

Introduction - Labour Economics – Meaning – Definition – Concept – Nature, Scope and Importance – Labour as a unique factor of production

#### **UNIT – II**

**12**

Labour Market - Concept of labour Market and its features –Determinants of the supply and the demand for labour – Organized and unorganized labour - Major issues in the Indian Labour market – labour absenteeism and labour turnover – Labour Productivity in India

**UNIT – III****12**

Trade Union - Meaning – Definition – Labour movement and the trade union – Origin and growth of trade union – Functions and role of trade unions

**UNIT – IV****12**

Wage – Methods of Wage Payment – theories of wages – Wage fund theory – Subsistence theory of wages – Marginal productivity theory of wages – exploitation theory of wages – bargaining theory – demand and supply theory – Wage policy – objectives and importance – Minimum Wage – Fair wage – Living wage

**UNIT V****12**

Labour Unions in India- Growth, Pattern, Structure and Achievements of Labour Union in India - Causes of Industrial Disputes and their settlement and preventive mechanism - Social Security – Meaning – Significance – Need for social security – Growth and Development of Social Security in India - Labour Market reforms

**Total Hours: 60****Reference:**

- Jiwitesh Kumar Singh, (1998), Labour Economics – Principles, Problems and Practices. Deep and Deep Publications Pvt Ltd, New Delhi.
- Bhagoliwal T.N (2000), Economics of Labour and Industrial relations. Sahitya Bhavan, Agra.
- McConnel C.R. and S.L. Brue (2002), Contemporary Labour Economics, McGraw Hill, New York.
- Mittal and Sanjay Prakash Sharma (2000), labour Economics, RSBA Jaipur

**Course outcomes**

- CO1            Aware of nature and scope of labour economics
- CO2            Aware of labour market and its features.
- CO3            Knowledge on growth, functions and role of trade unions
- CO4            Aware of theories of wages
- CO5            Knowledge on Social Security System

**Paper 5**

**HEALTH ECONOMICS**

**Objective :** To understand fundamental elements of health economics and demand and supply of healthcare products and services and health policies

**UNIT-I**

**12**

Health Economics-Definition and Scope- Health Indicators-Birth Rate -Death Rate-Fertility Rate-Mortality-Morbidity- Disability-Life style Status.

**UNIT-II**

**12**

Determinants of health – Components of Health Programmes Spatial Distribution of Health Care Facilities- Pricing of Health Services -Multiple Services of a Hospital.

**UNIT-III**

**12**

Demand for Health and Health Services- Health Insurance- Need for Health Insurance for the poor, disabled and aged- Demand for Medical Care- Consumer Incentive in Health Care- Inter-Relationship between nutrition-Health and Education.

**UNIT-IV**

**12**

Health Education- Health awareness- Indian System of Medicine- Siddha-Homeopathy-Unani and Ayurveda- Public Expenditure on Health- Resource allocation in Health Sector-Medical Tourism- Impact on Indian Economy.

**UNIT-V**

**12**

Provision of Health Services by the government -Private benefits and cost of providing health services- - Village Health Sanitation and Nutrition -Family Planning - A Review of Indian National Health Policy in providing health care and financing of Health Services.

**Total Hours: 60**

### **Books References:**

- Dr.D.Amutha – Health Economics
- Pushpalata Pattnaik- Health Economics
- Jay Bhattacharya- Health Economics
- Frank A. Sloan – Health Economics
- James W.Henderson- Health Economics

### **Course outcomes**

CO1	Aware of nature and scope of health economics
CO2	Knowledge about determinants of health
CO3	Knowledge on demand for and supply of health care products and services
CO4	Aware of health education and their importance
CO5	Familiar with National health policy and financing health services

### **Paper 6**

### **PROJECT MANAGEMENT**

**Course Objective:** To initiate students into the starting of a project and to help them to execute the project successfully. To give theoretical knowledge for a rich experience.

#### **Unit I Introduction: 12**

Project – Meaning – definition – Characteristics of project – scope of the management – Benefits of project management.

#### **Unit II Project selection: 12**

Macro parameters in project selection, Different consideration for project under private, public and joint sector

#### **Unit III Project Appraisal 12**

Project appraisal – different types of appraisal – technical, economic, organizational, managerial, commercial and financial



**Unit IV Project financing**

**12**

Project financing - pattern of financing – sources of finance - impact of taxation, public loans small savings.

**Unit V Project Administration (CPM)**

**12**

Project administration – progress payment – expenditure planning, project scheduling and network planning use of Critical Path Method (CPM)

**Total Hours: 60**

**Text book:**

1. C.B. Gupta, “Project Management”. A.P.H Publishing Corporation, New Delhi, 2000

**Reference Book:**

2. Judith Dwyer, Pauline Stanton, “Project Management”, Valerie Thiessen, First published in 2004.

**Course outcomes**

- CO1 Familiar with nature and scope of project management
- CO2 Knowledge about Project evaluation
- CO3 Knowledge on Project finance
- CO4 Aware of Project administration and practice
- CO5 Familiar with procedure of project selection

**Paper 1**

**FISCAL ECONOMICS -II**

**Objective :** To understand classification of public debt and different types of budget

**UNIT – I**

**12**

Definition, Classification, Sources of Public debt; Redeemable and Irredeemable Debts- Funded and Unfunded Debts - Management of Public Debt.

**UNIT – II** **12**

Meaning and Definitions of Budget; Importance of the Budget –Budgetary Policy, Balanced and Unbalanced Budget – Zero Base Budgeting in India.

**UNIT – III** **12**

Principles of Federal Finance- Conflicts between the Centre and the States in Federal Finance- Finance Commissions – Acceptance of Recommendations of the Eleventh and Twelfth Finance Commission

**UNIT – IV** **12**

Fiscal Policy – Objectives – Components of Fiscal Policy- Instruments of fiscal policy- deficit financing policy-Railway finances since 1924-25 – Financial Results of Railways.

**UNIT – IV** **12**

Local Finance- GRAM Panchayats ( Village Panchayats) – Municipalities – Finances of Local Bodies – Non – Tax Revenue – Abolition of Octroi Duties – Causes for Abolition of Octroi.

**Total Hours: 60**

**Books for Reference:**

1. Sundaram .K.P.M: Fiscal Economics
2. Cauvery & Others: Fiscal Economics.
3. Bhatia: Public Finance.
4. Chellaiah .R: Fiscal Policy in under developed Counties.
5. U.R.Hicks : Public Finance.

**Course outcomes:**

- |     |   |
|-----|---|
| CO1 | Aware of sources and classification of public debts   |
| CO2 | Knowledge about different types of budget             |
| CO3 | Knowledge on central-state relations                  |
| CO4 | Familiar with objectives and tools of fiscal policies |
| CO5 | Aware of local finance and problems of local bodies   |

## Paper 2

### MACRO ECONOMICS – II

Objective: To understand the Keynesian economics like General Equilibrium, ISLM model, Income and Employment determinations and macroeconomic policies.

UNIT – I	12
Keynesian Theory of Income Determination – Concepts and Functions – Income Determination in a Two Sector Model – Static and Dynamic Multiplier	
UNIT – II	12
Post-Keynesian theories of Demand for Money – Baumol’s approach to Transaction Demand for Money – Tobin’s theory of Speculative Demand for Money – Friedman’s Quantity theory of Money	
UNIT – III	12
General Equilibrium – Meaning – Product and Money Market – The IS-LM model in a Two sector Framework – Don Patinkin’s analysis	
UNIT – IV	12
Post-Keynesian Macro Economics – Aggregate Demand – Supply Model – The Modern Monetarism – Keynesian vs Monetarist Debate – The New Classical Macro Economics – The Supply side Economics	
UNIT – V	12
Macro Economic Policies – Meaning and Scope - Objectives of Macro Economic Policy- Objectives and Instruments of Monetary and Fiscal policies – Limitations of Monetary and Fiscal Policies	

#### Books for References

1. M.L. Jhingan – Macro Economics
2. H.L.Ahuja – Macro Economics Theory and Policy
3. Chandana Ghish & Ambar Ghosh – Macro Economics
4. Olivier Blanchard – Macro Economics
5. D.N. Dwivedi – Macro Economics – Theory & Policy, Tata Mcgraw Hill Publishing Company Ltd.

## **Course outcomes**

- CO1            Aware of Keynesian theory of Income determination.
- CO2            Knowledge on the modern theories of demand for money namely  
Boumal, Tobin and Friedman analysis.
- CO3            Familiar with General Equilibrium – IS-LM model and Don  
Patinkin analysis.
- CO4            Familiar with the debate between monetarists Vs Fiscalists and  
supply side economy.
- CO5            Familiar with the objectives and tools of macroeconomic policies.

## QUANTITATIVE ECONOMICS

### UNIT – I

Introduction to Quantitative Economics – Meaning and Scope – Variables, Constants and Functions – Meaning, Types of Variables, Major Macro Economic Variables – Estimation of GNP, National Income, Investment, Savings and Consumption

### UNIT – II

Rules of Differentiation and its application in Economics – Constant Factor Rule – The Sum Rule – Subtraction Rule - The Product Rule and Quotient Rule – Cost and Revenue Functions – Estimation of TC, AC, MC, TR, AR, MR and the Estimation of Profit.

### UNIT – III

Matrix and its application in Economics – Meaning and Types – Row Matrix, Column Matrix, Rectangular Matrix, Square Matrix, Diagonal Matrix, Scalar Matrix, Identity Matrix, Triangular Matrix, Null or Zero Matrix – Properties of Matrix Multiplication – (1)  $AB = BA$ , (2)  $(AB)C = A(BC)$ , (3)  $A(B + C) = A.B + A.C$  – Introduction to W. Leontief input output analysis.

### UNIT – IV

Regression and Correlation – Meaning and Estimations – Difference between Regression and Correlation – Application in Economics

### UNIT – V

Introduction to Econometrics – Meaning, Scope and Limitations – Assumptions of OLS Method – Estimation of  $\alpha$  and  $\beta$  with two variable model.

### Books for Reference

- 1 L.M.T Stafford – Mathematics for Economist
- 2 S.P.Gupta - Statistical Methods

### 3 Damodar N. Gujarati –Basic Econometrics

- CO1 - Basic understanding on macroeconomic variables and its types
- CO2 - Knowledge about differentiation and its uses in economics
- CO3 - Knowledge about matrix analysis
- CO4 - Understanding the concepts of Correlation and Regression
- CO5 - Knowledge on basic elements of Econometrics.

### **INTERNATIONAL ECONOMICS**

Objective: To understand fundamental elements and need for International Trade

#### **UNIT – I**

International Trade - Definition – Need – Types of International Trade – Difference between Internal and International Trade – Importance of International Trade in Global Context

#### **UNIT – II**

Theories of Foreign Trade – Absolute, Comparative and Equal Cost Differences (Adam Smith, Ricardo, Haberler's, and Heckscher and Ohlin's Theories only)

#### **UNIT – III**

Balance of Payment and Balance of Trade – Meaning – Causes of Disequilibrium – Exchange Rates – Fixed and Floating Exchange Rates and their merits and demerits.

#### **UNIT – IV**

International Trade Policies – SAARC – BRICs – South-South Co-operation

#### **UNIT – V**

International Trade and Financial Organisation – WTO, IMF and World Bank and their objectives and role of Foreign Trade and economic development of developing countries.

#### **References**

1. Robert, J, Thomson – International Economics (2008).
2. Dominck Salvatore, International Economics, Tata Mcgraw – Hill Publishing Company Ltd, 2005.
3. Peter B. Kenen, International Economics, Cambridge University Press, 1996.

**Course Outcome:**

- CO1 - Aware of the gains of International Trade
- CO2 - Knowledge about theories of International Trade
- CO3 - Knowledge on BOP and BOT
- CO4 - Aware of objectives of SAARC, BRICs and South-South Co-operation
- CO5 - Aware of WTO and role of IMF and World Bank

**Paper 5**

**ENVIRONMENTAL ECONOMICS**

**Objective :** To know the importance of environmental factors which influencing the economy and to understand the concepts of global economy, environmental pollution and Green house effect.

**UNIT- I Definition- Role and Significance of Environmental Economics 12**

Introduction- Economics and Environment- Definition and role of Environmental Economics- Scope and significance of Environmental Economics- Integration of Conservation and Development.

**UNIT- II Energy Economics 12**

Energy- Sources of Energy- Classification- Renewable non-renewable sources of energy- Conventional and non- conventional energy sources- Direct and Indirect- Patterns of energy consumption- Atomic energy- Energy policy and Environmental quality.

**UNIT- III Global Warming and Green House Effect 12**

Global Warming- Effects- depletion of Ozone Layer- Green House Effect-Contribution of India towards global warming- Programmes in India- Climate change conservation.

**UNIT- IV Environmental Pollution 12**

Introduction- Classification of Pollution- Air Pollution- Water Pollution- Noise Pollution- Land Pollution- Soil Pollution- Industrial pollution, Identification of Sources- Control of Pollution.

**UNIT- V Population and Urbanization Impact on Environmental Quality 12**

Malthusian Prediction- Increase in Population- Effects of over population and Urbanization- Problems and Impact- Indian Environmental Policy and performance.

**Total Hours: 60**

**Books of Reference**

Dr. Karpagam -Environmental Economics

Pearce. G.W- Environmental Economics

Kneese, A.V. – Economics of Environment

Burrows Paul- The Economic Theory of Pollution Control

**Course outcomes**

CO1            Aware of nature and scope of environmental economics

CO2            Knowledge about sources and classification of energy.

CO3            Knowledge on Global warming and climate change and their effects

CO4            Aware of different types of pollutions

CO5            Aware of Indian environmental policies and performances



**Paper 6 VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES  
DEPARTMENT OF ECONOMICS  
B.A ECONOMICS DEGREE**

**Project work**

**Regulation for Project Work and Viva-Voce Examination**

- I. Each student has to undertake a project individually.
- II. Maximum 8 students under the supervision of a faculty.
- III. The students must undergo project work in the V semester vacation in any of the private and public limited companies.
- IV. The candidates should submit the consent certificate from the organization for having undertaken the project work.
- V. The project report must be typed and hardbound.
- VI. The project work must be submitted at the end of VI semester.
- VII. Failure to submit the project report or failure to appear at the Viva-voce examination will be treated as "Absentees" in the Examination and the absentees has to submit the Project Report and appear at the viva-voce examination in the subsequent years.
- VIII. No marks will be allotted on the project report, unless a candidate appears at the Viva-voce Examination and submits his/her Project report.
- IX. Evaluation of the Project work to be done jointly by one internal expert and one external expert with 40 – 60 weightage.
- X. A Candidate has to qualify in the Project Work individuality and the minimum marks to qualify in the project work is 40% (Report + Viva-voce)
- XI. Marking scheme for the Project Report and Viva-voce Examination:

**Project Report – 40 marks**

**Chapter 1: Introduction – 10 marks**

**Chapter 2 : Conceptual framework/ Review of Literature – 10 marks**

**Chapter 3 : Analysis and Interpretation – 10 marks**

**Chapter 4 : Conclusion, Findings & Recommendations – 10 marks**

**Evaluation Procedure for Viva- Voce (60 marks)**

**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)****B.SC INFORMATION TECHNOLOGY****COURSES OF STUDY AND SCHEME OF ASSESSMENT****(TOTAL NO OF CREDITS: 140)**

Code No.	Course	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	SEE	Total
<b>SEMESTER 1</b>								
LANG	Tamil I/ Hindi / French	5	0	0	5	40	60	100
ENG	English I	5	0	0	5	40	60	100
CORE	Programming in C	5	0	0	5	40	60	100
CORE	Mathematics - I	4	0	0	4	40	60	100
CORE	Programming in C Lab	0	0	4	2	40	60	100
CORE	MS Office Lab	0	0	4	2	40	60	100
		19	0	8	23			
<b>SEMESTER 2</b>								
LANG	Tamil II / Hindi / French	5	0	0	5	40	60	100
ENG	English II	5	0	0	5	40	60	100
CORE	Programming in C++	5	0	0	5	40	60	100
CORE	Mathematics II	4	0	0	4	40	60	100
CORE	Programming in C++ Lab	0	0	4	2	40	60	100
CORE	Visual Basic Programming Lab	0	0	4	2	40	60	100
		19	0	8	23			

CA - Continuous Assessment

SEE - Semester End Examination

**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**  
**B.SC INFORMATION TECHNOLOGY**  
**COURSES OF STUDY AND SCHEME OF ASSESSMENT**

Code No.	Course	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	SEE	Total
<b>SEMESTER 3</b>								
LANG	Tamil III / Hindi / French	5	0	0	5	40	60	100
ENG	English – III	5	0	0	5	40	60	100
CORE	Programming in Java	5	0	0	5	40	60	100
CORE	Statistical & Numerical Methods	4	0	0	4	40	60	100
CORE	Programming in Java Lab	0	0	4	2	40	60	100
CORE	Multimedia Lab	0	0	4	2	40	60	100
SEC	Soft Skill – I	2	0	0	2	40	60	100
		21	0	8	25			
<b>SEMESTER 4</b>								
LANG	Tamil IV / Hindi / French	5	0	0	5	40	60	100
ENG	English IV	5	0	0	5	40	60	100
CORE	Web Technology	4	0	0	4	40	60	100
CORE	Operating Systems	4	0	0	4	40	60	100
CORE	Unix Lab	0	0	3	2	40	60	100
CORE	Web Technology Lab	0	0	3	2	40	60	100
AECC	Environmental Studies	2	0	0	2	40	60	100
SEC	Soft Skill – II	2	0	0	2	40	60	100
		22	0	6	26			

CA - Continuous Assessment

SEE - Semester End Examination

**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**  
**B.SC INFORMATION TECHNOLOGY**  
**COURSES OF STUDY AND SCHEME OF ASSESSMENT**

Code No.	Course	Hour / Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	SEE	Total
<b>SEMESTER 5</b>								
DSE	Discipline Specific Elective – 1	4	0	0	4	40	60	100
DSE	Discipline Specific Elective – 2	4	0	0	4	40	60	100
DSE	Discipline Specific Elective - 3	4	0	0	4	40	60	100
DSE	Discipline Specific Elective – 4	3	0	4	3	40	60	100
DSE	Discipline Specific Elective Lab	0	0	4	2	40	60	100
GE	Generic Elective -1	2	0	0	2	40	60	100
SEC	NSS	2	0	0	2	40	60	100
		19	0	8	21			

**SEMESTER 6**

DSE	Discipline Specific Elective - 5	4	0	0	4	40	60	100
DSE	Discipline Specific Elective – 6	4	0	0	4	40	60	100
GE	Generic Elective -2	2	0	0	2	40	60	100
SEC/VA C	Quantitative Aptitude	2	0	0	2	40	60	100
	Project Work	0	0	0	10	40	60	100
		12	0	0	22			

CA - Continuous Assessment

SEE - Semester End Examination

### **List of Discipline Specific Elective (DSE)**

<b>Subject code</b>	<b>Title of the Paper</b>
DSE 1	Data Structures
DSE 2	Digital Logic Fundamentals.
DSE 3	Pre Processor Hypertext Programming
DSE 4	Pre Processor Hypertext Programming Lab.
DSE 5	Database Management Systems.
DSE 6	DBMS Lab.
DSE 7	Dot.Net Technology
DSE 8	Dot.Net Technology Lab
DSE 9	Software Engineering.
DSE 10	Data Communications and Networks
DSE 11	Artificial Intelligence
DSE 12	Compiler Design.
DSE 13	Organizational Behaviour.

### **List of Generic Elective (GE)**

<b>Subject Code</b>	<b>Title of the Paper</b>
GE 1	HTML & CSS
GE 2	Flash
GE 3	Internet Basics.
GE 4	Advanced Excel
GE 5	SQL
GE 6	Client side Scripting Languages
GE 7	Consumer Affairs
GE 8	Disaster Management

### **List Of Languages**

<b>Subject Code</b>	<b>Title of the Paper</b>
18LEN001	Foundation Course English I
18LTA001	Foundation Course Language I
18LHN001	Hindi Paper – I
18LFR001	French Paper - I
18LEN002	Foundation Course English II
18LTA002	Foundation Course Language II
18LHN002	Hindi Paper – II
18LFR002	French Paper - II
18LTA003	Foundation Course Language III
18LHN003	Hindi Paper – III
18LFR003	French Paper - III
18LTA004	Foundation Course Language IV
18LHN004	Hindi Paper – IV
18LFR004	French Paper – IV

### **List of Skill Enhancement Course (SEC)**

<b>Subject Code</b>	<b>Title of the Paper</b>
SEC-1	Soft Skill -I
SEC-2	Soft Skill - II
SEC-3	Personality Development
SEC-4	National Service Scheme (NSS).
SEC-5	Ethics. Quantitative Aptitude.

### **List of Ability Enhancement Compulsory Course(AECC)**

AECC1	Environmental Science
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## **PROGRAMMING IN C    4    0    0    4**

### **COURSE OBJECTIVE**

- This course introduces the basic concepts of programming in C.
- This subject deals various methods programming using the C languages.
- On successful completion the students should have programming ability on C.

#### **UNIT 1        INTRODUCTION    13**

Fundamental Character Set – Identifier and keywords – Datatypes – Constants – Variables – Declarations – Expressions – Statements – Arithmetic, Relational and logical, Assignment, Unary, and conditional Operators – Bit-wise operators– Library Functions.

#### **UNIT 2        INPUT, OUTPUT FUNCTIONS AND CONTROL STRUCTURES    12**

Data input/output functions – Simple C programs - Flow of control: Conditional control statement - Conditional Execution, Looping, Multiple branching - Unconditional control Statement - break, continue, goto statements, Comma operator.

#### **UNIT 3        FUNCTIONS AND STORAGE CLASSES        11**

Functions : Defining a Function – Function Prototype – Passing arguments to a Function – Recursion – Storage Classes : Automatic, External, Static, Register Variable.

#### **UNIT 4        ARRAYS, STRINGS, STRUCTURES AND UNION    11**

Arrays : Defining an array- Processing an array – Types of Arrays – Arrays and Strings- Structures – Unions.

#### **UNIT 5        POINTERS AND FILES    13**

Pointers : Declaring Pointer Variables– Accessing the address of a variable- Initialization of Pointer variable - Files : File declaration- Opening a File- Closing a File.

**TOTAL HOURS: 60**

### **COURSE OUTCOME**

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

- CO1:    Define the various operators and library functions in C.
- CO2:    Write programs using the various control structures.
- CO3:    Define and pass arguments to functions.
- CO4:    Solve problems using arrays and strings.
- CO5:    Discuss pointers and file operations.

### **TEXT BOOK**

1. E. Balaguruswamy, Programming in ANSI C, TMH publishing Company LTD,2008.

### **REFERENCE BOOKS**

1. H. Schildt, The Complete Reference, 4th Edition, TMH,2004.
2. Gottfried, B.S, Programming with C, fourth edition, TMH Pub.Co.Ltd, 2004.

3. Kanetkar Y, Let us C, BPB publications with ANSI & Turbo C, First edition, Pearson Education, New Delhi, 2008.