ARYABHATTA KNOWLEDGE UNIVERSITY

Course Structure and Syllabus

BACHELOR IN BUSINESS ECONOMICS

Applicable to students seeking admission to the
Bachelor in Business Economics course
in the academic year 2014-15 and later

INDEX

PREFACE

The underlying philosophy of the Bachelor of Business Economics course is to develop theoretical and analytical skills of the students so that they may be absorbed in the corporate world or be able to pursue higher studies at the Master's level in Business Economics and Economics. In the rapidly changing globalized market scenario, the need was felt to equip students with the capability to understand and handle the dynamic of economics and the business world.

In order to achieve the above-mentioned objectives, a comprehensive syllabus comprising topics relating to economics, quantitative techniques, business, and analytics has been developed in the three-year, six-semester module, giving wider coverage to the course contents, better organization to enable easier assimilation of the same by the students, and a more professional touch to the course.

The papers have been designed to include recent changes and developments and current trends in the subjects concerned. The papers in computer applications have been designed to introduce the student to packages required for statistical analysis and to enable the student to implement the techniques through computers, thus supplementing the quantitative papers. The core economics papers are rationalized in their structure and sequencing wherein a broad idea of microeconomic concepts, macroeconomic theories, and economic thoughts is introduced. It is followed by a more detailed and in-depth knowledge of the subject in the third and fourth semesters. There is a substantial infusion of quantitative techniques component in the syllabus to equip students with essential tools for business and economic analysis. In this regard Econometrics and Operations Research have been included as integral papers. The course aims to expose students to the areas of finance, marketing and the legal structure within which businesses operate. Thus, a fine balance has been maintained between the economic theory and practical business components.

DETAILED SYLLABUS

SEMESTER – I

PAPER – BBE 101: MICRO-ECONOMIC ANALYSIS – 1

UNIT 1: BASIC CONCEPTS   (09)
Positive and normative economics; constructing a model, scientific method; concepts of opportunity cost, rate of growth, elasticity, and of total, average and marginal functions.

UNIT 2: CONSUMER DEMAND   (09)
Cardinal Theory: Derivation of demand in case of one or more goods; ordinal theory: budget sets and preferences under different situations. Indifference curves and the rate and elasticity of substitution. Consumer equilibrium; effects of change in prices and income; Engels curve. Derivation of demand curve. Income and substitution effects: Hicks and Slutsky. Applications of indifference curves to other economic problems. Market demand: Elasticity, shifts and movement; inverse demand function. Revenue and expenditure, elasticity and marginal revenue; income elasticity of demand; consumer surplus. Revealed preference theory: WARP, SARP and the derivation of demand curve.

UNIT 3: PRODUCTION   (09)
Production Functions: Single variable – average and marginal product, variable proportions, stages of production. Two variables – isoquants, returns to scale and to a factor; factor prices; cost minimization and output maximization; elasticity of substitution. Expansion path and the cost function.

UNIT 4: COST   (09)
Concept of economic cost; short run and long run cost curves; increasing and decreasing cost industries; envelope curve; L-shaped cost curves; economies of scale. Prices as Parameters: Firm equilibrium and profit; short and long-run supply function; taxes and subsidies.

UNIT 5: MARKETS   (08)
Perfect competition: Equilibrium of the market. Long-run industry supply; producer and consumer surplus; effects of taxes and subsidies.

Suggested Readings

1. Varian, Hal R.: Intermediate Microeconomics (Sixth edition)
2. Bernheim, B. Douglas & Whinston, Michael D.: Microeconomics [TMH, 2009]
3. Pindyck, Robert S. & Rubinfeld, Daniel L.: Microeconomics Sixth Edition [PHI]
4. Browning, Edgar K. & Zupan,: Microeconomic Theory and Applications

PAPER – BBE 102: MATHEMATICS FOR BUSINESS AND ECONOMICS

UNIT 1: BASIC CONCEPTS   **(09)**
   Number system, Logic, Equations and Inequalities. Set theory; types of relations in economics; functions, types, domain and range.

UNIT 2: FUNCTIONS   **(09)**
   Real valued functions: Linear, polynomial, hyperbolic, logarithmic, power and their applications. Roots of polynomials. Limit of a real valued function. Continuity and differentiability.

UNIT 3: SINGLE VARIABLE DIFFERENTIATION   **(09)**
   Rates of change and the tangent. Applications of continuity and differentiability. Stationarity, convexity and concavity of functions. Global and local extrema and points of inflexion. Applications to Economics.

UNIT 4: FUNCTIONS OF TWO VARIABLES   **(09)**
   Geometric representation. Level curves. Partial derivatives. Homogenous and homothetic and CES functions. Euler's theorem. Generalized chain rule and implicitly defined functions. Differentials. Convex sets. Concavity and convexity. Local maxima and minima. Optimization of functions with a single equality constraint.

UNIT 5: LINEAR ALGEBRA   **(08)**
   Matrices: operations of addition, multiplication, transpose. Row/column operations. Matrix types: symmetric, orthogonal, idempotent. Determinants and inverse. Linear independence, Rank and solutions to linear simultaneous equations. Applications.

Suggested Readings:

   1. Sydsaeter, Knut & Hammond, Peter J.: Mathematics for Economic Analysis [Pearson Education]
   2. Chiang, A.C.: Fundamental Methods of Mathematical Economics [TMH]
   3. Allen, R.G.D.: Mathematical Analysis for Economics [Macmillan]
   4. Yamane, Taro: Mathematics for Economists – An elementary survey [PHI]

PAPER – BBE 103: BUSINESS COMMUNICATION

UNIT 1: INTRODUCTION TO BUSINESS COMMUNICATION   (12)
Basic form of Communication – Downward, upward and Horizontal communication, Process of communication. Corporate Communication – Formal and informal communication network, Grapevine – single strand, gossip, cluster, Probability, Importance of Grapevine, Miscommunication or Barrier to communication – Wrong choice of medium, Physics barriers, Semantic barriers, different Comprehension of reality, Socio-psychological barriers. Principles of Communication - 7c's concept.

UNIT 2: WRITING SKILLS   (16)
Planning business messages, Business letters, Memo formats, Request letters, Good newsletters, Bad newsletters, Persuasive letters – AIDA, Sales letters, collection letters. Detailed Project Report Writing and presentation

UNIT 3: ORAL PRESENTATION   (16)
Principles of oral presentations, Factors effecting presentations. Non – Verbal communication – Appearance, Body language, Para language, Time, Space, Silence. Effective Listening – factors affecting listening, Improving listening.

Suggested Readings:

1. Ronald E. Duleck, John S.Fielden: Principles of Business Communication
2. Murphy and Hiderbrandt: Business Communication
3. Bovee Thill: Business Communication Today, McGraw Hill
4. Malra Treece, Allyn and Bacon: Successful Communication
5. Randall E. Majors Harper & Rom: Business Communication
6. Harpert & Row Western: Guide to Effective Letter Writing
7. Mary Ellen Guffoy: Business Communication
8. Fred Luthan: Organizational Behavior
9. C.B. Mmoria: Industrial Relation

PAPER – BBE 104: INFORMATION TECHNOLOGY FOR BUSINESS AND ECONOMICS (PRACTICAL)

UNIT 1: Fundamental and computer Application   **(06)**

Computer application, Hardware, Software, Languages of computer, Operating system.

UNIT 2: MS-Word   **(06)**

File, Edit, Format, Drawing, Tools, Tables, Practicing on Cut-Copy Paste, merger, Letter Writing, Page Setup.

UNIT 3: MS-Excel   **(12)**

Creating Worksheet, Entering and Editing Test, Numbers and formulas cells lookup tables, auto fill. Rearranging work sheets: Moving, copying, sorting, inserting deleting cells, deleting & parts of work shared, reaction at formulas to worksheet design changes. Excel formatting: Excel page setup. Auto format, manual format using styles; format painter. Changing font sizes and attributes. Wrapping text, using border buttons and command. Working with graphics: Creating and placing graphic objects, resizing positioning graphic.

UNIT 4: MS-Power Point   **(08)**

Power Point templates, getting started. Creating presentation: Auto content wizard, inserting, deleting slides. Working with text: Editing and moving text, spell checking, finding and replacing text; formatting text-aligning text. Show Time: Arranging previewing and rehearsing slides, transition and Build effects, Deleting slides printing presentation elements creating overhead transparencies; sharing presentation tiles.

UNIT 5: MS-ACCESS   **(12)**

Preparation of database corresponding to management practices such as level information farm-level in formation. Agro-climatic zone information, etc. Creating database and tables: Creating database with and without wizards, access tables-wizard, field names, data types and properties, adding deleting, renaming and moving fields, resizing fields, primary key fields, indexing fields. Forms: The form wizard, saving modifying forms, designing forms. Entering and editing data: Typing, adding records, undo, correcting entries, global replacements moving records. Finding Sorting and Displaying Data: Queries and Dynasts, creating and using select queries, multiple search reformatting dynasts, multilevel sorting, showing all records after a query Cross tab queries. Printing Reports, Forms Letters and labels: Simple table, form and database printing. Manual reporting and modifying properties in reports, saving printing, mailing labels, changing label design.

PROJECT: Students will have to submit one project each in MS-Word, MS-Excel, MS-PowerPoint, and MS-Access.

Suggested Readings
1. Sinha, P.K.: "Computer Fundamentals", [BPB Publications].
2. Bott, Ed & Woody Leonbard: "MS-Office 2013", [PHI].
3. Walkenbach, John: "MS-Office 2013 Bible", [John Wiley].

SEMESTER – II

PAPER – BBE 201: MICRO-ECONOMIC ANALYSIS – 2

UNIT 1: MARKETS WITH IMPERFECT COMPETITION (14)
Monopoly: Equilibrium; supply; multiplant firm; monopoly power; dead-weight loss; price discrimination; bundling; two-part tariffs. Monopolistic Competition: Product differentiation; equilibrium of the firm in the industry with entry of new firms and with price competition. Comparison with pure competition. Oligopoly and Game Theory: Cournot model and reaction curves; Bertrand model; quantity leadership; price leadership; Non collusive stable equilibrium; simultaneous quantity setting; collusion; cartels; Concepts of Game Theory: Dominant strategies and Nash Equilibrium; Mixed strategies; Prisoner's Dilemma. Specification of oligopoly models in game theoretic terms.

UNIT 2: FACTOR MARKETS (08)
Factor pricing in the case of single and many variable factors; demand for labor in a product market with perfect competition and monopoly. Monopsony, bilateral monopoly and role of labor unions. Economic rent and quasi rent.

UNIT 3: GENERAL EQUILIBRIUM (08)
Edgeworth box; Two good, Two factor, Two consumer analysis and Pareto optimality conditions; market trade; Walras Law; Relative prices; Equilibrium and efficiency; Grand Utility possibility frontier. Implication of first and second welfare theorem;

UNIT 4: WELFARE (08)
Social welfare function; welfare maximization; Fair allocation; Envy and equity. Arrow's Impossibility Theorem.

UNIT 5: MARKET FAILURE (06)
Asymmetric information and signaling. Joint production and consumption and externalities. Common property resources and public goods.

Suggested Readings

1. Varian, Hal R.: Intermediate Microeconomics (Sixth edition)
2. Bernheim, B. Douglas & Whinston, Michael D.: Microeconomics [TMH, 2009]
3. Pindyck, Robert S. & Rubinfeld, Daniel L.: Microeconomics Sixth Edition [PHI]
4. Browning, Edgar K. & Zupan,: Microeconomic Theory and Application
5. Chamberlin,E.H., The Theory of Monopolistic Competition
6. Robinson Joan, The Economics of Imperfect Competition

PAPER – BBE 202: ECONOMICS OF MONEY, BANKING, AND FINANCE

UNIT 1: Introduction, Value of Money & Monetary Standards   (12)
Definition of money; evolution of money; functions of money; forms of money; qualities of a good money material; Fisher's quantity theory of money; Cambridge equation; savings investment theory; paper currencies standard; systems of note issue; Gresham's law; Indian currency system.

UNIT 2: Trade Cycle & Money Supply, Inflation & Deflation   (12)
Meaning, causes, effects & control of trade cycle; theories of trade cycle: Hicks, Hansen, Hawtrey, and Keynes. Components of money supply; determinants of money supply; velocity of circulation of money; demand for money: classical view; Keynesian view; liquidity demand for money; neutrality of money. Meaning of inflation; causes, types, effects, and inflationary measures; inflationary gap; meaning of deflation: causes, types, and effects; deflationary Gap.

UNIT 3: Commercial Banking and Central Banking   (12)
Functions and types of commercial banks; role of commercial banks in economic development; credit creation; nationalization of commercial banks; objectives and performance. Functions of a central bank; role of a central bank in a developing economy; objectives and methods of credit control; limitations; meaning & objectives of monetary policy.

UNIT 4: Reserve Bank of India & Money Market & Capital Market (08)
Recent trends in the monetary policy of RBI. Promotional functions towards agricultural and industrial development in India. Meaning of money market; features; constituents; features of a developed money market; status of Indian money market; capital market: meaning and features; importance; contrast between capital market and money market.

Suggested Readings:

1. K.P.M. Sundharam, Money, Banking, Trade and Finance – Sultan Chand & Sons., New Delhi.
2. M.L. Seth, Money, Banking, International Trade and Public finance – Lakshmi Narayan Agarwal Publishers.
3. D.M. Mithani, Money, Banking, International Trade and Public Finance – Himalaya Publishing House.
4. M.C. Vaish, Money, Banking Trade & Public Finance – New Age International (P) Ltd.
5. M.L. Jhingan, Monetary Economics – Vevida Publications (P) Ltd., Delhi.

PAPER – BBE 203: STATISTICS FOR BUSINESS AND ECONOMICS

UNIT 1: INTRODUCTION   (04)
Data types and scale. Sources. Sample and population. Sigma notation.

UNIT 2: UNIIVARIATE ANALYSIS   (10)
Measures of central tendency, absolute and relative measures of dispersion, moments. Measures of skewness and kurtosis. Applications.

UNIT 3: MULTIVARIATE ANALYSIS   (10)
Correlation: simple, multiple and partial; linear and non-linear. Causation and correlation. Use of raw and grouped data. Probable errors. Rank Correlation.
Regression Analysis: Principle of least squares and regression lines. Regression equations and estimation, derivation of normal equations. Sums of squares. Standard Error of Estimates. Regressions with time series data. Estimation of growth rate.

UNIT 4: PROBABILITY AND DISTRIBUTIONS   (12)
Review of counting rules. Defining probability. Types of events. Joint and conditional probability. Addition and multiplication rules. Bayes' theorem. Probability distributions. Discrete and continuous random variables. Mass and density functions and cumulative probabilities. Joint probability distributions, marginal and conditional distributions. Mathematical expectation and variance. Theoretical distributions: discrete: uniform, Bernoulli, binomial and Poisson; continuous: uniform, exponential and Normal. Sample and complete enumeration. Methods of sample selection: random, stratified, multistage cluster. Sample measures and the degrees of freedom.

UNIT 5: ESTIMATION & FORECASTING   (08)
Testing of Hypotheses; Null & Alternative hypotheses; Critical Value & P-value approach; Type I and Type II errors. Tests of Independence and Homogeneity. Hypothesis Test Conclusions.

Suggested Readings

1. Karmel, P.H. & Polasek, M.: Applied Statistics for Economists.
2. Spiegel, M.R.: Theory & Problems of Statistics, Schaum's Outline series, McGraw Hill Pub. Co.
3. Spiegel, M.R.: Probability and Statistics.
4. Freund: Mathematical Statistics.

PAPER – BBE 204: SPREADSHEETS FOR BUSINESS & ECONOMICS – 1
   (PRACTICAL)

UNIT 1: INTRODUCTION TO SPREADSHEETS   (10)
   MS-Excel (2013), LibreOffice (4.0) Calc; Concept of Cells; Cell Reference – absolute and relative. Data Input and Formating. Formula setting. Matrix Multiplication and Inverse, Value of Determinant.

UNIT 2: MS-EXCEL AS DATABASE   (10)
   Linking up of Data Cells in the same worksheet; linking up of data across worksheets. Standard and custom filters; what-if analysis; if-only analysis.

UNIT 3: FINANCIAL AND STATISTICAL FORMULA   (24)
   Preparation of financial statements using Excel – Balance Sheet; Bank Reconciliation Statements; Cash Flow Analysis; Ratio Analysis.

PROJECT: Students will have to prepare Cash Flow Statement and perform Ratio Analysis calculations (on MS-Excel or LibreOffice Calc) of five publically listed companies of their choice.

Suggested Readings:

   1. Walkenbach, John: "Microsoft Excel 2013 Bible", John Wiley.

SEMESTER – III

PAPER – BBE 301: PUBLIC FINANCE

UNIT 1: INTRODUCTION   (07)
Meaning, nature and scope of public finance; private finance v/s public finance; principles of public finance; the principle of maximum social advantage.

UNIT 2: PUBLIC REVENUE AND PUBLIC EXPENDITURE   (15)
Sources of public finance; central and state government; cannons of taxation; objectives of taxation; direct and indirect taxes; proportional, progressive, and regressive system of taxation; incidence of taxation; import, shifting and incidence of specific taxes; taxable capacity; specific taxes; income tax - personal and corporate; excise duty; capital gains tax; custom duties; value added tax (VAT); modified value added tax (MODVAT); sales tax; agricultural income tax; property tax; wealth tax; expenditure tax; estate duty; gift tax; meaning of public expenditure, importance and objectives; cannons of public expenditure; effects of public expenditure; growth of public expenditure; control of public expenditure.

UNIT 3: PUBLIC DEBT   (07)
Meaning, forms, and need; classification and burden of public debt; methods of redeeming public debt; role of public debt in a developing economy; causes of growth of public debt in India.

UNIT 4: FISCAL POLICY AND FINANCIAL ADMINISTRATION   (15)
Meaning, objectives, and instruments of fiscal policy; fiscal policy in a developing economy; meaning of financial administration, instruments, importance and principles of budgeting; characteristics of a good budget; preparation of a budget; budgeting in India; meaning of deficit financing; objectives, need, effects, and limitations; deficit financing in India.

Suggested Readings:

1. D.M. Mithani, Modern Public Finance: Theory and Practice, Himalaya Publishing House, Mumbai.
2. K.P.M. Sundharam, Public Finance, Sultan Chand & Sons, New Delhi.
3. R.C. Agarwal, Public Finance, Lakshmi Narain Agarwal, Agra.
4. S. Sankaran, Fiscal Economics, Margham Publication, Chennai
5. P. Tyagi, Pubilc Finance, Jai Prakash Nath & Co., Meerut

PAPER – BBE 302: MACRO-ECONOMIC ANALYSIS

UNIT 1: National Income Accounting (07)

Accounting structure, key concepts in accounting for both closed and open economies – gross national product, gross domestic product, net national product, national income, savings and investment, balance of payments, circular flow of income, computational problems – expenditure approach, income approach and value added approach for measurement, input-output tables.

UNIT 2: Keynesian Models (15)

Simple Keynesian Model, assumptions, concepts of involuntary unemployment, liquidity preference, paradox of thrift, investment function, IS-LM model: two sector model, goods and money market equilibrium, multiplier, liquidity trap, complete Keynesian model – three sector model, role of government in terms of monetary and fiscal policy.

UNIT 3: Keynesian Models versus Classical Models (15)

Says Law, quantity theory of money, price flexibility and full employment, Clower's and Patinkin's money demand functions, equilibrium concept in classical model, synthesis between classical models and Keynesian models, interpretation and policy analysis.

UNIT 4: Expectations and Macroeconomic Adjustments (07)

Expectations formations – Adaptive and rational expectations hypothesis, partial adjustment model, Lucas critique, Phillips curve, inflation targeting, interest rate rules, effects of spending.

Suggested Readings

1. Scarth, W. (2007): "Macroeconomics: An Introduction to Advanced Methods", third edition, Thomson.
2. D'Souza, E. (2008): "Macroeconomics", Pearson Education: New Delhi.
3. Blanchard, O. (2006): "Macroeconomics", fourth edition, Pearson Education: New Delhi.
4. Mankiw, N. Gregory (2005): "Macroeconomics", fifth edition, Worth Publishers.

PAPER – BBE 303: RESEARCH METHODOLOGY

UNIT 1: INTRODUCTION   **(05)**
Terminology: Data and Information, Validity and Reliability, Deduction and Induction, Quantitative and Quantitative Methods. Research Project: Choice of Topic, Writing a Research Proposal – Objective, Hypothesis, Methodology, Timeframe.

UNIT 2: SURVEY METHODS   **(14)**
Survey Design – Sampling, Qualitative Data, Quantitative Data, Scaling Technique. Research Methods: Interview Method, Observational Method, Questionnaires, Case Studies, Action Research, Documentary Sources.

UNIT 3: DATA ANALYSIS   **(15)**
Types of Research Data, Frequency Distributions, Bar Charts, Histograms, Pareto Charts; Statistical Tools of Data Analysis: Mean, Median, Mode, Correlation and Regression.

UNIT 4: REPORT WRITING   **(10)**
Formatting, Title Page, Abstract, Body, Introduction, Methods, Sample, Measures, Design, Results, Conclusions, References, Tables, Figures, Appendices. Presentation of Report: Skills and Methods.

Suggested Readings:

1. Taylor, Bill, Sinha, G and Ghoshal, Taposh: Research Methodology, Prentice Hall of India.
2. Trochim, W.M.K.: Research Methods, Biztantra.
3. Kumar, M.S. & Prakash, M.: Project Work – Guidelines, Himalaya Publications.
4. Kothari, C.R.: Research Methodology – Methods and Techniques, Wiley Eastern.
5. Sadhu, A.N. & Singh, A: Research Methodology for Social Sciences, Sterling.

**PAPER – BBE 304: SPREADSHEETS FOR BUSINESS & ECONOMICS – 2
(PRACTICAL)**

UNIT 1: PIVOT TABLES   (10)
   Introduction and uses.

UNIT 2: SOLVER PLUG-IN   (14)
   Solving Linear Programming problems using MS-Excel.

UNIT 3: ADVANCED TECHNIQUES   (20)
   Monte-Carlo Simulation; Goal Seek; Sensitivity Analysis using MS-Excel.

PROJECT: Students will have to solve one Linear Programming problem, perform Sensitivity Analysis of it and write a short report on it.

Suggested Readings:

1. Walkenbach, John: "Microsoft Excel 2013 Bible", John Wiley.

PAPER – BBE 305: COMPUTATIONAL TECHNIQUES FOR BUSINESS & ECONOMICS: SAGE (PRACTICAL)

UNIT 1: INTRODUCTION   (04)
Using SAGE as a powerful calculator; Symbolic mathematics; Linear algebra; solving an ordinary differential equation; Graphics: visualizing a three-dimensional surface; Typesetting mathematical expressions; Installing SAGE: On Windows - Downloading VMWare Player, extracting SAGE, launching the virtual machine; On Linux – Installing a binary version of SAGE, running SAGE from user account.

UNIT 2: GETTING STARTED WITH SAGE   (05)
How to get help with SAGE; Starting SAGE from the command line; using the interactive shell; doing calculation on the command line. Command history; tab completion; interactively tracing execution. Using the notebook interface: starting the notebook interface; doing calculations; getting help. Working with cells. Working with code. Closing the notebook interface. Operators and variables: arithmetic, numeric, integers & rational numbers, real & complex numbers. Symbolic expressions; Strings. Functions: Built in functions, calling functions, numerical approximations, reset & restore functions. Objects.

UNIT 3: VECTORS, MATRICES, AND LINEAR ALGEBRA   (15)
Vectors and Vector Spaces: creating a vector space, creating and manipulating vectors, operators and methods. Matrices & Matrix Spaces: solving a system of linear equations, creating matrices and matrix spaces, accessing and manipulating matrices, other matrix methods; eigenvalues and eigenvectors; decomposing matrices.

UNIT 4: PLOTTING WITH SAGE   (06)
Plotting in two-dimensions: plotting symbolic expressions, function with a pole, parametric function, vector field. Plotting data: making a scatter plot, plotting a list, using graphics primitives. Using matplotlib: plotting functions, bar chart, pie chart, and histogram.

UNIT 5: SYMBOLIC MATHEMATICS   (14)
Simplifying expressions: solving equations and finding roots. Calculus: calculating limits, derivatives, integrals. Minima and Maxima. Numerical integration. Fitting a function to a noisy dataset: least squares fitting.

PROJECT: Students will solve a system of Liner Equations and plot its graphical solution, too, using SAGE.

Suggested Readings:

1. Craig Finch; "SAGE: Beginner's Guide"; PACKT Publishing; 2011.
2. David Joyner & William Stein; "SAGE Tutorial" (version 6.1.1); Sage Developers; 2008.

SEMESTER – IV

PAPER – BBE 401: INTERNATIONAL ECONOMICS

UNIT 1: INTERNATIONAL TRADE THEORY   (15)
Basis and the gains from trade. Absolute advantage theory, law of comparative advantage, opportunity cost theory, production possibility curve with opportunity costs and relative commodity price, the basis for and gains from trade under constant costs. Production possibility curve with increasing costs, community indifference curve, equilibrium in isolation, gains from trade with increasing costs, gains from exchange and specialization. The equilibrium relative commodity prices with partial equilibrium analysis, offer curves, the equilibrium relative commodity prices with general equilibrium analysis, relationship between general and partial equilibrium analyses, Terms of trade.

UNIT 2: FACTOR ENDOWMENT & HECKSCHER OHLIN THEORY   (10)
Assumptions of the theory, interpretation of Heckscher-Ohlin theorem, general equilibrium framework of Heckscher-Ohlin theorem, diagrammatic presentation of the theory, factor price equalization and income distribution, Leontief's paradox and factor reversal.

UNIT 3: INTERNATIONAL TRADE POLICY   (05)
Tariff - definition, types, partial equilibrium analysis of tariffs, effects of tariff on consumer and producer surplus, cost and benefit analysis of tariff, rate of effective protection. Non-Tariff barriers and the New Protectionism. Import Quotas, comparison with tariff, voluntary export restraints, technical administrative and other regulations, international cartels, dumping, export subsidies.

UNIT 4: NEW TOPICS IN INTERNATIONAL TRADE   (10)
International capital flows, capital flows under laissez-faire, welfare analysis. Extension of Hecksher-Ohlin trade theory: many good and many factors extension. Immiserising growth and transfer problem. Foreign investment with special reference to developing countries.

UNIT 5: WORLD TRADE ORGANIZATION   (04)
GATT and trade liberalization, GATT to WTO, objectives, functions, basic principles, and areas of operation of WTO, structure and working of the WTO, an overview of ministerial conferences: issues, decisions, and controversies, Doha Development Agenda, WTO and agriculture, implications of WTO activities for developing countries, WTO and India.

Suggested Readings:

1. Dominic Salvatore: International Economics - 8th Edition.
2. Jagdish Bhagwati, and T.N. Srinivasan: Lectures on International Trade - MIT Press.

PAPER – BBE 402: BUSINESS ORGANIZATION & ENVIRONMENT

UNIT 1: INTRODUCTION   (20)

Principles of Modern Industry: Division of Labour, Standardization, Scientific Management, Rationalization, Integration, Combination – Horizontal and Vertical, Factors leading to combination, Forms of Business Combination – Trusts, Cartels, Syndicates, Holding Companies. **Forms of Business Organizations and Ownership:** Sole Proprietorships, Partnerships, Joint Stock Companies, Managing Agency System, Public and Private Companies. Public Management and its various functions.

UNIT 2: ENVIRONMENTAL FACTORS   (24)

Economic Environment: Economic systems, economic planning in India, objectives, strategies and evaluation of current five year plan. Industrial policy and industrial licensing. New economic policies. **Political Environment:** Three political institutions- Legislature, Executive and Judiciary. Fundamental rights and Directive Principles of state policy. Rationale and extent of state intervention. **Social Environment:** social responsibility of business, consumer movement & Consumer Protection Act 1986, The Environment Protection Act 1986. **Technological Environment:** Impact of technology on business. Technological policy, import of technology, appropriate technology, problems in technology transfer. **Structure of Public Enterprises in India:** Public and Joint Sectors, Management of Industries

Suggested Readings

1. Basu, C, (2010) Business Organisation and Management, 1st Edition, McGraw Hill Education.
2. Gupta, C.B., (2010) Modern Business Organization and Management, Dhanpat Rai & Sons.
3. Robert; Lawrence, (2009) Modern Business Organization, McMillan India.
4. Tulsian, P. C., (2009) Business Orgnaisation & Management, 2nd edition, Pearson Education.

PAPER – BBE 403: FINANCIAL ACCOUNTING & MANAGEMENT

UNIT 1: BASIC ACCOUNTING (10)

Accounting – Introduction, importance and scope, concepts & conventions – Introduction generally accepted accounting principles, Double Entry Framework: The accounting equation, Accounting cycle – Journals, Ledgers, Purchase Book, Sales Book, Cash Book, Petty Cash Book; Trial Balance.

UNIT 2: FINANCIAL STATEMENTS (10)

Preparation of financial statements – Profit and loss account and Balance Sheet with necessary adjustments. Analysis and interpretation of Financial Statement – meaning and significance.

UNIT 3: FINANCIAL ANALYSIS (07)

Tools of Financial Analysis – Ratio Analysis, Trend Analysis, Common size and Comparative Financial Statement. Fund Flow Statement and Cash Flow Statement. Marginal Costing, Break-Even Analysis, Applications of Marginal Costing.

UNIT 4: FINANCIAL MANAGEMENT (07)

Scope of Financial Management, Traditional Approach, Modern approach, Investment Decision, Financing Decision, Dividend decision, Objectives of Financial management, Profit Maximization v/s Wealth Maximization.

UNIT 5: CAPITAL BUDGETING (10)

Capital Budgeting-Meaning, importance and various techniques-accounting rate of return, pay back method, net present value, net terminal value, internal rate of return, profitability index method. Measurement of cost of capital: cost of debt, cost of preference shares, costs of equity shares, calculation of overall cost of capital based on Historical and Market Weights.

Suggested Readings:

1. Khan M.Y, Jain P.K., (2010), Financial Management, 3rd edition, McGraw Hill Education.
2. Maheshwari S.N., (2009), Financial Management- Principles and Practice, 9th Edition Sultan Chand & Sons.

PAPER – BBE 404: COMPUTATIONAL TECHNIQUES FOR BUSINESS AND ECONOMICS: SPSS – 1 (PRACTICAL)

UNIT 1: INTRODUCTION **(05)**
Introduction; Getting Help; Data Entry: The Data View Spreadsheet, The Variable View Spreadsheet; Storing and Retrieving Data Files; The Statistics Menus: Data File Handling, Generating New Variables, Running Statistical Procedures, Constructing Graphical Displays; The Output Viewer; The Chart Editor; Programming in SPSS.

UNIT 2: DATA DESCRIPTION AND SIMPLE INFERENCE FROM CONTINUOUS DATA **(07)**
Problem Sets: The Lifespans of Rats; Ages at Marriage in the U.S.; Exact Nonparametric Tests.

UNIT 3: SIMPLE INFERENCE FOR CATEGORICAL DATA **(09)**
Problem Sets: Belief in the Afterlife; the Death Penalty and Race; Exact Tests for Two-Way Classifications.

UNIT 4: MULTIPLE LINEAR REGRESSION **(10)**
Problem Sets: Temperatures in America; Cleaning Cars; Influence Diagnostics.

UNIT 5: ANALYSIS OF VARIANCE **(13)**
Problem Sets: One-Way Designs: Fecundity of Fruit Flies; Finger Tapping; Female Social Skills. Kruskal-Wallis Test; Informal Assessment of MONOVA Assumptions. Factorial Designs: Does Marijuana Slow You Down? Do Slimming Clinics Work? Analysis of Covariance.

PROJECT: Students will have to submit projects requiring Multiple Linear Regression Analysis and ANOVA to be performed using SPSS.

Suggested Readings:

1. Landau, Sabine & Brian S. Everitt: "A Handbook of Statistical Analyses using SPSS", Chapman & Hall/CRC.

PAPER – BBE 405: COMPUTATIONAL TECHNIQUES FOR BUSINESS AND ECONOMICS: TALLY – 1 (PRACTICAL)

UNIT 1: INTRODUCTION   (20)

Introduction to Computerised Financial Accounting Packages; Journey of Tally Package; Creating, Altering, Deleting Company; Ledger Creation, Updating, Deletion; Groups in Tally; Accounting Voucher Entry.

UNIT 2: REPORTS   (10)

Reports - Display, Alter and Query through vouchers; Printing of different reports.

UNIT 3: ADJUSTMENTS AND CONTROLS   (14)

Bill-by-bill Adjustment; Cost Centres; Budget & Controls.

PROJECT: Students will have to create a fictitious company, create its ledgers, perform journal entries and generate end-of-financial year reports using Tally.

Suggested Readings:

1. Comdex Tally 9 Course Kit

SEMESTER – V

PAPER - BBE 501: INDIA'S ECONOMIC DEVELOPMENT SINCE INDEPENDENCE

UNIT 1: INDIA FROM INDEPENDENCE TO LIBERALIZATION AND BEYOND   (10)
An overview of the economic developments during the period 1947-1980; Objective and strategies of the planned economic development; Changes in policy emphasis from growth to distribution; Policy changes since 1980s; The 1990 crisis; Why liberalization? Causes and effects.

UNIT 2: INDIA IN L-P-G ERA   (10)
Macroeconomic Trends Since 1990: growth, regional differences, savings and investment, population, employment, monetary and financial trends; Post Green Revolution Agriculture; food security, PDS system; Industry, Foreign Trade and Foreign Capital since 1990.

UNIT 3: ECONOMICS OF SERVICES SECTOR   (12)
Role of services and infrastructure in economic development; driving forces for and against the service economy; growth of the services sector in India since 1990; key service characteristics for economic analysis; current structure of service consumption; urbanization, market area enlargement and the emergence of service markets; public policy towards services; trust in economic growth cannot replace allocation policy.

UNIT 4: L-P-G: A CRITICAL ANALYSIS   (12)
Background for **liberalization**: India's economic crisis of 1990, first generation reforms (under Narasimha Rao government), salutary and negative impacts of new economic policy, second generation reforms; Politics of **privatization**; regulating privatized industries, disinvestment of privatization, contemporary issues and challenges; Impact of **multinational capitalism**, wielding political and economic influences, benefits and unethical activities of multinational corporations, transfer of technology - process, channels, and problems, impact of globalization - on industry: changes in employment and increasing migration; on agriculture: rise of corporate farming and increase in farmer suicides; Globalization of Indian business, supremacy of market forces, philosophy of Socialization.

Suggested Readings:
1. Uma Kapila (editor), "Indian Economy Since Independence", 25th edition, 2014, Academic Foundation, New Delhi.
2. Uma Kapila (editor), "Two Decades of Economic Reforms: Towards Faster, Sustainable and More Inclusive Growth", 2012, 1st edition, Academic Foundation, New Delhi.
3. Arvind Subramanian, "India's Turn: Understanding the Economic Transformation", 2008, Oxford University Press, New Delhi.
4. B. N. Ghosh, "Business Environment", 1st edition, 2014, Oxford University Press, New Delhi.

5. Jean Dreze and Amartya Sen, "An Uncertain Glory: India and its Contradictions", 1st edition, 2014, Penguin Books Limited, New Delhi.
6. Sukhamoy Chakravarty, "Development Planning: The Indian Experience", 1998, Oxford University Press, New Delhi.
7. Jan Owen Jansson, "The Economics of Services", 2014, Edward Elgar Publishing, Sweden.

PAPER – BBE 502: ECONOMETRICS

UNIT 1: SAMPLING AND HYPOTHESIS TESTING   (10)
Statistics and parameters. Properties for a statistic. Central Limit Theorem. Distribution of the sample mean, difference in means and the proportion. Point and interval estimates for the mean, difference in means, and proportion. Hypotheses testing and types of errors. Significance levels and p values. Small sample testing: Chi square, t and F distributions and their properties. Applications of chi-square and t distributions to interval estimates and tests.

UNIT 2: TWO VARIABLE LINEAR REGRESSION MODEL   (12)
Types of Data: Time Series, Cross Section and Panel Data. Concept of PRF and SRF. Estimation of the SRF using OLS. Analysis of variance and R squared. Understanding the residuals/error term. Assumptions of the model. Expectation and standard errors of the regression coefficients and the error term. Gauss Markov Theorem. Confidence intervals and tests on population regression coefficients, variance of population disturbance term, and forecasts. Testing the significance of the model as a whole. Testing the normality assumption.

UNIT 3: MULTIPLE REGRESSION MODEL   (10)
The three variable case. Derivation of the coefficients. Correlation. Additional assumptions. Adjusted R square. Confidence intervals and testing of the regression coefficients. F and t tests for structural stability, contribution and justification of an explanatory variable.

UNIT 4: RELAXING THE ASSUMPTIONS OF THE LINEAR MODEL   (12)
Multicollinearity: The problem. Detection. Solution. Heteroscedasticity: The problem. Detection. Solution. Autocorrelation: Problem. Tests for detection. Solutions. Specification Errors: Omission of a variable, Inclusion of irrelevant variable, tests for detecting errors, errors in explanatory and dependent variable.

Suggested Readings:

1. Gujarati, Damodar: Basic Econometrics, McGraw Hill, New Delhi.
2. Christopher Dougherty, Introductory Econometrics, Oxford University Press.
3. Pindyck, Robert S. and Daniel L. Rubinfeld: "Econometric Models and Economic Forecasts", McGrawHill, Singapore.

PAPER – BBE 503: LEGAL ASPECTS OF BUSINESS

UNIT 1: INDIAN CONTRACT ACT, 1872 (13)
Contract: meaning, essentials and kinds. Offer, Acceptance, Consideration, Contractual Capacity, Free consent. Modes of discharge of a contract and remedies for breach of a contract.

UNIT 2: NEGOTIABLE INSTRUMENTS ACT, 1881 (08)
Meaning and characteristics of Promissory Note, Bill of Exchange and Cheque. Holder and Holder in Due Course, Negotiation, Crossing of Cheque: Kinds and effects.

UNIT 3: COMPANIES ACT, 1956 (13)
Company: meaning, kinds, procedure of formation. Memorandum of association, Articles of Association & Prospectus. Allotment of shares. Shareholders and Members. Company Meetings and Resolutions.

UNIT 4: CONSUMER PROTECTION ACT, 1986 (06)
Structure of the Act, jurisdiction and definitions. Consumer complaint: meaning, relief available to a consumer.

UNIT 5: INFORMATION TECHNOLOGY ACT, 2000 (04)
Scheme of the Act, definitions. Digital Signature and Electronic Governance. Regulation of Certifying Authorities.

Suggested Readings:

1. Kuchhal, M.C. and Prakash, Deepa, "*Business Legislation for Management*", Vikas Publishing, House (P) Ltd., New Delhi.
2. Chadha, P.R. and Bagrial, Ashok K., "*Business Law*" Galgotia Publishing Company, New Delhi.
3. Singh, Avtar, "*The Principles of Mercantile Law*", Eastern Book Company, Lucknow.
4. Maheshwari & Maheshwari, "*Business Law*", National Publishing House, New Delhi.
5. Kapoor, N. D., *"Business Law"*, Sultan Chand & Sons, New Delhi.
6. Desai, T.R., "*Indian Contract Act, Sale of Goods Act and Partnership Act*", S.C. Sarkar & Sons Pvt. Ltd., Calcutta.
7. Bagrial, A. K., "*Company Law*", Vikas Publishing, House (P) Ltd., New Delhi.
8. Datey, V.S., "*Students Guide to Corporate Laws*", Taxman's Allied Services (P) Ltd., New Delhi.
9. "*Information Technology Rules 2000 & Cyber Regulations Appellate Tribunal Rules 2000 with Information Technology Act 2000*" Taxmann Publications Pvt. Ltd., New Delhi.
10. Painttal, D., "*Law of Information Technology*" Taxmann Publications Pvt. Ltd., New Delhi

PAPER – BBE 504: COMPUTATIONAL TECHNIQUES FOR BUSINESS AND ECONOMICS: SPSS – 2 (PRACTICAL)

UNIT 1: ANALYSIS OF REPEATED MEASURES **(08)**
Problem Sets: Analysis of Variance Type Models; Field Dependence; Reverse Stroop Task. Linear Mixed Effects Models: Computer Delivery of Cognitive Behavioral Therapy.

UNIT 2: LOGISTIC REGRESSION **(06)**
Problem Sets: Who Survived the Sinking of the Titanic?

UNIT 3: SURVIVAL ANALYSIS **(08)**
Problem Sets: Sexual Milestones in Women; Field Dependency of Children; Cox's Regression.

UNIT 4: PRINCIPAL COMPONENT & FACTOR ANALYSIS **(11)**
Problem Sets: Crime in the U.S.; AIDS Patients' Evaluations of Their Clinicians. Maximum Likelihood Factor Analysis.

UNIT 5: CLUSTER & DISCRIMINANT FUNCTION ANALYSIS **(11)**
Problem Sets: Tibetan Skulls.

PROJECT: Students will have to submit projects requiring Factor and Cluster Analysis to be performed using SPSS.

Suggested Readings:

1. Landau, Sabine & Brian S. Everitt: "A Handbook of Statistical Analyses using SPSS", Chapman & Hall/CRC.

PAPER – BBE 505: COMPUTATIONAL TECHNIQUES FOR BUSINESS AND ECONOMICS: TALLY – 2 (PRACTICAL)

UNIT 1: INVENTORY **(20)**

Inventory in Tally; Creating Stock Groups, Category, Units and Godown; Creating Stock Items and Link with Groups, Category and Units; Alteration and Deletion of Inventory Components; Inventory Voucher Entry; Display, Alter and Print of Inventory Reports.

UNIT 2: PAYROLL **(10)**

Introduction to Payroll; Payroll Vouchers; Alteration and Printing of Payroll Reports.

UNIT 3: STATUTORY ENTRIES **(14)**

Statutory Entries – Service Tax, TDS, VAT; Creating Users and Security Controls; Other Features and Configuration options.

PROJECT: Students will have to create inventory of a fictitious company, create stock groups, categories, and units, make entries into the inventory records and generate end-of-financial year inventory reports using Tally.

Suggested Readings:

1. Comdex Tally 9 Course Kit

SEMESTER – VI

PAPER - BBE 601: EVOLUTION OF ECONOMIC THOUGHT

UNIT 1: ECONOMICS OF ADAM SMITH (05)
Overview of economic thought 1200-1950. Competition as organizing principle. The birth of political economy through The Wealth of Nations. Competition as creating automatic justice in prices. Adam Smith's definition of competition. Laissez-Faire.

UNIT 3: ECONOMICS OF KARL MARX (10)
Marx as a critic and analyst of capitalism. Marx's conception of competition. Technological change and reserve army of labor. Absolute and relative surplus value. Mechanization, productivity and exploitation.

UNIT 4: ECONOMICS OF JOHN MAYNARD KEYNES (10)
Keynes as member of the generation that suffered WWI and WWII. Central Bankers and "rules of the game" during 1924-31. Keynes' explanation of relationship between interest rates and investment. Aggregate demand and wage rates. Keynes against Laissez Faire. Bretton Woods proposals.

UNIT 5: RECENT TRENDS IN INDIAN ECONOMIC THOUGHT (15)
Sanjay Lall and transfer pricing by multinational corporations, transfer of technology and technical progress of third world countries; **Amartya Sen**'s critique of the theory of rational choice, ethics and economics, capability and agency, development as freedom, social choice theory and the informational basis approach; **Jagdish Bhagwati** and paradox of development, immiserizing growth; Amartya Sen and Jagdish Bhagwati: Kerala model v/s Gujarat model of development.

Suggested Readings:
1. Sylvia Nasar, "Grand Pursuit: The Story of Economic Genius", 2011, Fourth Estate, New Delhi.
2. Robert Heilbroner, "Teachings from the Worldly Philosophy", 1996, W.W. Norton, New York.
3. Robert Skidelsky, "John Maynard Keynes: 1883-1946: Economist, Philosopher, Statesman", 2005, Penguin Books Limited, London.
4. Amartya Sen, "Development as Freedom", 2001, Oxford University Press, New Delhi.
5. Amartya Sen, "The Idea of Justice", 2010, Penguin Books Limited, London.
6. T. N. Hajela, "History of Economic Thought", 2009, ANE Books, New Delhi.
7. E. K. Hunt, "History of Economic Thought: A Critical Perspective", 3rd edition, 2011, Prentice Hall India, New Delhi.
8. Sanjaya Lall and Paul Streeten, "*Foreign Investment, Transnationals, and Developing Countries*", 1977, London New York: Macmillan.

9. Sanjaya Lall, "*The Economics of Technology Transfer*", 2001, The International Library of Critical Writings in Economics, Cheltenham England Northampton, Massachusetts, USA: Edward Elgar Publishing.

10. Jagdish Bhagwati and Arvind Panagariya, "*Why Growth Matters: How Economic Growth in India Reduced Poverty and the Lessons for Other Developing Countries*", 2013, PublicAffairs, London.

11. Jagdish Bhagwati, "*In Defense of Globalization*", 2007, Oxford University Press, New Delhi.

PAPER – BBE 602: ECONOMICS OF GROWTH

UNIT 1: DEVELOPMENT & GROWTH: THEORY & EVIDENCE   (14)
   Introduction: growth miracles and poverty traps; Economics of poverty traps: population, industrialization, and market structure. Institutions v/s geography: how rich countries become poor. Is globalization good for the poor? Is world inequality and poverty rising or falling?

UNIT 2: MODELS OF ECONOMIC GROWTH   (16)
   Exogenous models: Harrod-Domar, Solow-Swan. Endogenous model: AK Model, population and human capital; R&D model, technological change. Exogenous v/s endogenous growth and convergence: empirical evidence.

UNIT 3: GROWTH PROMOTING ECONOMIC POLICY   (14)
   Openness and growth: trade; capital mobility. Financial development. Poverty and redistribution. Macroeconomic stability and growth. Natural resource endowments. Foreign aid and growth.

Suggested Readings:

1. Agenor, Pierre-Richard (2004): "Economics of Adjustments and Growth", 2nd edition, Harvard University Press.
2. Acemoglu, Daron (2008): "Introduction to Modern Economic Growth", Princeton University Press.
3. Barro, R. & J. Sala-i-Martin (2004): "Economic Growth", 2nd edition, MIT Press, Boston.
4. Jones, Charle I. (2001): "Introduction to Economic Growth", 2nd edition, W.W. Norton.
5. Aghion, P. & P. Howitt (2009): "Economics of Growth", MIT Press, Boston.

PAPER – BBE 603: OPERATIONS RESEARCH

UNIT 1: OPERATIONS RESEARCH **(12)**
Introduction to operations research; managerial decision making and operations research. Operations research models: Principles and types. Linear programming: Problem formulation, graphical and simplex method, duality, and sensitivity analysis. Transportation models, transshipment problem, traveling salesman problem, assignment models.

UNIT 2: DECISION THEORIES **(12)**
Game theory: two-person zero-sum game, pure strategy, mixed strategy and saddle point, rules of dominance, solution of special kind of games. Maximax, maximin, minimax regret criterion, Laplace criterion etc. Waiting line models: components and operating characteristics of queuing system and channel configurations. PERT-CPM.

UNIT 3: LOGISTICS **(10)**
Introduction, concepts and significance, functions. Physical distribution, transportation, inventory control, warehousing, packaging, material handling, order processing, location analysis.

Suggested Readings

1. Vohra, N.D., (2009) Quantitative Techniques in Management, 4th edition, McGraw Hill Education.
2. Vishwanathan, P.K., (2008) Business Statistics and Applied Orientation, 1st edition, Pearson Education.
3. Rajagopalan, S. and Sattanathan, R., (2009) Business Statistics & Operations Research, 2nd edition, McGraw Hill Education.
4. Sharma, J.K., (2009) Operations Research: Problems & Solutions, 2nd edition, Macmillan India Ltd.
5. Taha, Hamdy, (2008) Operations Research: An Introduction, 8th edition, Pearson Education.
6. Render, Barry, Stair, R.M., Hanna, M.E., and Badri, (2009) Quantitative Analysis for Management, 10th edition, Pearson Education.

Paper – BBE 604 : INDIAN FINANCIAL SYSTEM

UNIT 1: FINANCIAL MARKETS IN INDIA   (3)

Role and Importance of Financial Markets, Financial Markets vs. Capital Markets vs. Stock Markets, Linkages Between Economy and Financial Markets, Integration of Indian Financial Markets with World Markets, Players in Financial Markets, Role of Regulator (RBI and SEBI).

UNIT 2: PRIMARY MARKET FOR CORPORATE SECURITIES IN INDIA   (5)

Issue of Corporate Securities: Public Issue through Prospectus, Green shoe option, Offer for sale, Private Placement Rights Issue, Online IPO: Dutch and French Auction , Book Building of Shares, Disinvestment of PSU, Employees Stock Options, Preferential Issue of Shares, Venture Capital, Private Equity, Performance of Primary Market in India, Institutional Interest in Public Issues, measuring success of an IPO. Corporate Listings: Listing and Delisting of Corporate Stocks.

UNIT 3: SECONDARY MARKET IN INDIA   (7)

Introduction to Stock Markets: Regional and Modern Stock Exchanges, International Stock Exchanges, Demutualization of exchanges, Competition amongst major exchanges in India, Raising of funds in International Markets: ADRs and GDRs, FCCB and Euro Issues. Indian Stock Indices and their construction, free float vs. full float methodology, Classification of Securities to be included in the Index, impact of corporate actions (rights, bonus and stock split) on index. Bulls and Bears in Stock Markets, Factors influencing the movement of stock markets, indicators of maturity of stock markets. Major Instruments traded in stock markets: Equity Shares, Debentures.

UNIT 4: MONEY MARKETS & DEBT MARKET IN INDIA   (10)

Money Market: Meaning , role and participants in money markets, Segments of money markets, Call Money Markets, Repos and reverse Repo concepts, Treasury Bill Markets, Market for Commercial Paper, Commercial Bills and Certificate of Deposit. Role of STCI and DFHI in money markets. Debt Market: Introduction and meaning, Market for Government/Debt Securities in India.

UNIT 5 : BANKING AND HOUSING FINANCE IN INDIA   (5)

RBI: Functions, Role and Monetary Policy Measures (CRR, SLR, OMO). Recent Developments in Banking Sector in India. Commercial and Development Banks: meaning; their roles (Traditional and New/Changing roles), Challenges Ahead, Conversion of Financial Institutions into banks, Mergers and Acquisitions in the banking sector in India, Concept of Universal Banking, Non Performing Assets in the Banking Sector, the Securitization Act, Prime and Sub Prime Lending Rate. Housing Finance: Meaning and rise of housing finance in India.

Suggested Readings:

1. National Stock Exchange of India *Indian Securities Market: A Review* 6th Edition NSE, Mumbai (2003).
2. Rustagi , R.P, *Financial Management : Theory Concepts and Problems* : 3rd Edition Galgotia Publishing Co. (2006)
3. S.G. Eakins, S.G. *'Finance: Investments, Institutions and Management'*., Addison Wesley Longman Inc, USA. (1999)
4. Shahani, Rakesh '*Financial Markets in India'* Latest Edition, Anamica Pub Co, New Delhi

PAPER – BBE 605: INTERNSHIP / UNDERGRADUATE THESIS AND VIVA

Students are to pursue an Internship (SIP) / On-the-Job-Training (OJT) preferably at an economic or social research institute or an NGO engaged in economic activism or a marketing research firm of repute. The internship is to be between 4 to 6 weeks. On completion of the internship, students will submit a report which will be evaluated in the ratio of 40:60 by the college internally and by a panel of two examiners, of which one will be an external examiner approved by the university.

Alternatively, if there is serious difficulty in finding internships/OJTs, students can write a Term Research Paper (based on empirical data) under a member of the faculty at the college concerned. The student shall make a presentation, based on the research paper submitted, to the department which will earn the same credits as the internship.