BGE-CSC01

CORE-I: FINANCIAL ACCOUNTING Common to BCom(A&F), BCom(CS), BCom(BM), BCom(MM), BCom(CA) & BCom(ISM)

Inst.Hrs:6 Credits:4 YEAR: I SEMESTER: I

OBJECTIVES:

- To enable the students to understand the system of preparing financial statements for various types of organisation
- To familiarize the students with knowledge about financial reporting standards

OUTCOMES:

- The students will be able to analyse and prepare financial statement of different types of organisation
- The students will be aware of the various amendments in financial reporting

UNIT I: Preparation of Financial Statement

Final accounts of sole trading concern-Adjustments-Receipts and Payments-Income and expenditure-Balance sheet of non trading organisation

UNIT II: Depreciation and Insurance Claims

Depreciation Accounting: Depreciation- Meaning –Causes-Types-Straight Line Method-Written down value method- Concept of useful life under Companies Act 2015 Insurance Accounting: Insurance claims –Calculation of Claim amount-Average clause(Loss of stock only)

UNIT III: Single entry system

Meaning and Features of Single entry-Defects-Difference between single entry and double entry system-Methods of calculation of Profit-Statement of Affairs Method-Conversion Method

UNIT IV: Rectification of Errors and Bank Reconciliation Statement

Classification of Errors – Rectification of Errors – Preparation of Suspense a/c. Bank Reconciliation Statement – Need and preparation.

UNIT V: Hire Purchase and Instalment System

Hire Purchase System- Default and repossession-Hire purchase trading account Instalment System-Calculation of Profit.

Note: Questions in Sec. A, B & C shall be in the proportion of 20:80 between Theory and Problems.

TEXT BOOK:

- 1. Lt Bhupinder principles of Financial Accounting CENGAGE, New Delhi
- 2. Raj Kumar Sah Concepts Building Approach to Financial Accounting CENGAGE, New Delhi
- 3. Gupta, R.L & Gupta, V.K, Advanced Accounting, Sulthan Chand & Sons, New Delhi

REFERENCE BOOKS:

- 1. Jain & Narang, Financial Accounting, Kalyani Publishers, NewDelhi
- 2. Reddy, T.S & Murthy, A. Financial Accounting, Margham Publications, Chennai
- 3. Shukla & Grewal, Advanced Accounting, S.Chand & Co. NewDelhi
- 4. Parthasarathy, S.& Jaffarulla, A. Financial Accounting, Kalyani Publishers, NewDelhi

WEB REFERENCE:

www.accountingcoach.com www.accountingstudyguide.com www.futureaccountant.com www.onlinelibrary.wiley.com

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BSM-DSC02

CORE-II: INTERNET-OF-THINGS

Inst.Hrs: 6 Credits: 4 YEAR: I SEMESTER: I

Course Objectives

Objectives : To understand the working Principles of Internet

- Unit I What is Internet? The Internet's underlying Architecture
- Unit II Connecting to the Internet Communicating on the Internet
- Unit III How the World Wide Web works. Common Internet tools
- Unit IV- Multimedia on the Internet Intranet and shopping on the Internet
- Unit V Safeguarding the Internet

Text Book:

1. How the Internet Works, Preston Gralla, Pearson Education, Eighth Edition, 2006.

Reference Book:

1. Internet for Everyone, Alexis Leon, S. Chand (G/L) & Company Ltd; Second Edition 2012.

BGE-CSA01

ALLIED-I: BUSINESS ECONOMICS

Common to BCom(CS)-II Sem., BCom(BM),BCom(MM), BCom(CA) & BCom(ISM)

Inst.Hrs : 6 Credits : 5 YEAR: I SEMESTER: I

OBJECTIVES:

- To facilitate the students to understand the concept of Communication.
- To Know the basic techniques of the modern forms of communication

OUTCOME:

• Students understand the concept of communication and familiarise with modern form of communication.

UNIT-I

Introduction to Economics – Wealth, Welfare and Scarcity Views on Economics - Positive and Normative Economics - Definition – Scope and Importance of Business Economics - Concepts: Production Possibility frontiers – Opportunity Cost – Accounting Profit and Economic Profit – Incremental and Marginal Concepts – Time and Discounting Principles – Concept of Efficiency- Business Cycle:- Inflation, Depression, Recession, Recovery, Reflation and Deflation.

UNIT-II

Demand and Supply Functions: - Meaning of Demand – Determinants and Distinctions of demand – Law of Demand – Elasticity of Demand – Demand Forecasting – Supply concept and Equilibrium

UNIT-III

Consumer Behaviour : Law of Diminishing Marginal utility – Equimarginal Utility – Indifference Curve – Definition, Properties and equilibrium.

UNIT-IV

Production: Law of Variable Proportion – Laws of Returns to Scale – Producer's equilibrium – Economies of Scale - Cost Classification – Break Even Analysis

UNIT-V

Product Pricing: Price and Output Determination under Perfect Competition, Monopoly – Discriminating monopoly – Monopolistic Competition – Oligopoly – Pricing objectives and Methods-

RECOMMENDED TEXTS

- 1. S.Shankaran, Business Economics Margham Publications Ch -17
- 2. P.L. Mehta, Managerialo Economics Analysis, Problems & Cases Sultan Chand & Sons New Delhi 02.
- 3. Francis Cherunilam, Business Environment-Himalaya Publishing House -Mumbai-4.
- 4. Peter Mitchelson and Andrew Mann, Economics for Business Thomas Nelson Australia -Can -004603454.
- 5. C.M.Chaudhary, Business Economics RBSA Publishers Jaipur 03.
- 6. H.L.Ahuja, Business Economics-Micro & Macro-Sultan Chand & Sons-New Delhi.
- 7. T. Aryamala Business Economis- Vijay Nicole Imprints Private Ltd.,

UNIVERSITY OF MADRAS UG – NON-MAJOR ELECTIVE COURSE OFFERED IN THE DEPARTMENT OF MATHEMATICS SYLLABUS WITH EFFECT FROM 2020-2021

BMA-NME01

NME-I: FUNCTIONAL MATHEMATICS-I

UNIT I

Ratio and Proportion

UNIT II

Percentages

UNIT III

Profit and Loss, Discounts

UNIT IV

Simple Interest and Compound interest

UNIT V

Solutions of Simultaneous equations, Problems on Ages and Numbers.

Reference:

Quantitative Aptitude- R.S. Agarwal

BGE-CSC03

CORE-III: ADVANCED FINANCIAL ACCOUNTING

Common to BCom(A&F), BCom(CS), BCom(CA) & BCom(ISM)

Inst.Hrs:6 Credits:4 YEAR: I SEMESTER: II

OBJECTIVES

To enable the students to understand the system of preparing financial statements for various types of organisation

• To familiarize the students with knowledge about financial reporting standards

OUTCOME:

• The students will be able to understand the preparation of financial statements for business units other than corporate undertaking and their utility.

Unit I: Branch Accounts

Dependent Branches - Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded)

Unit II: Departmental Accounts

Basis of Allocation of Expenses – Calculation of Profit - Inter-departmental Transfer at cost or Selling Price.

Unit III: Partnership Accounts

Admission of a Partner – Retirement of a Partner – Death of a Partner.

Unit IV: Partnership Accounts

Dissolution of a Partnership Firm – Insolvency of a Partner – Insolvency of all Partners-Piecemeal Distribution of cash in case of Liquidation of Partnership Firm.

Unit V: Accounting Standards for financial reporting

Objectives and uses of financial statements for users-Role of accounting standards-Development of accounting standards in India- Requirements of international accounting standards - Role of developing IFRS- IFRS adoption or convergence in India- Implementation plan in India- Ind AS-Difference between Ind AS and IFRS.

<u>Note</u>: Questions in Sec. A, B & C shall be in the proportion of 20:80 between Theory and Problems.

TEXT BOOK:

- 1. Lt Bhupinder principles of Financial Accounting CENGAGE, New Delhi
- 2. Raj Kumar Sah –Concepts Building Approach to Financial Accounting CENGAGE, New Delhi
- 3. Gupta, R. L & Gupta, V. K, Advanced Accounting, Sulthan Chand & Sons, New Delhi.
- 4. Jain & Narang, Financial Accounting, Kalyani Publishers, New Delhi.

SUGGESTED READINGS:

- 1. Reddy, T. S & Murthy, A. Financial Accounting, Margham Publications, Chennai.
- 2. Shukla & Grewal, Advanced Accounting, S. Chand & Co., New Delhi.
- 3. Tulsian P.C.-Financial Accounting.
- 4. Parthasarathy, S .& Jaffarulla, A. Financial Accounting, Kalyani Publishers, NewDelhi

WEB REFERENCE:

www.accountingcoach.com www.accountingstudyguide.com www.futureaccountant.com www.onlinelibrary.wiley.com

UNIVERSITY OF MADRAS B.Com. DEGREE COURSE IN COMPUTER APPLICATION SYLLABUS WITH EFFECT FROM 2020-2021

BCN-CSC08

CORE-VIII: OBJECT ORIENTED PROGRAMMING USING C + + THEORY AND PRACTICAL

Common to BCom(ISM)

Inst.Hrs: 6 Credits: 4 YEAR: II SEMESTER: III

Course Objectives

- To expose the students to basics of Object Oriented Programming concepts.
- To develop the programming skills using object oriented concepts.
- Able to apply the OOPs concepts in real life problems.

UNIT I: Principles of object oriented programming, object-oriented programming paradigm. Applications of OOPs. OOPs concepts – OOPs Languages. Models:-Class Model-State Model and Interaction Model.

UNIT II: Introduction to C++ - Tokens, Keywords-Identifiers-Variables-Operators-Manipulators-Expressions-Control Structures.

UNIT III: Functions - Main Function - Function Prototyping - Inline Functions - Friend and Virtual Functions-Parameters Passing in Functions-Values Return by Functions, file concepts.

UNIT IV: Classes and Objects; Constructors and Destructors; and Operator Overloading and Type Conversions - Type of Constructors - Function overloading.

UNIT V: Inheritance: Single Inheritance - Multilevel Inheritance - Multiple Inheritance - Hierarchical Inheritance - Hybrid Inheritance. Virtual Functions and Polymorphism; Managing Console I/O operations.

RECOMMENDED BOOKS

- 1. R.S. Bichkar Programming with C -- University Press, Hyderabad
- 2. K.Sasi Kala Rani Programming in C Vijay Nicole Imprint Private Limited, Chennai

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Reference Books:

- 1. E. Balagurusamy, Object Oriented Programming with C++, Tata McGraw-Hill Publishing Company Ltd, 6th edition 2013.
- 2. H. Schildt. C++ the Complete reference. T M H.1998.

C++ PRACTICALS

- Simple programs like Area of a circle and square and Temperature conversion, to revise C++ fundamentals
- 2. Constructor and constructor overloading
- 3. Friend function
- 4. Inline Function
- 5. Function and Function prototyping
- 6. Function overloading
- 7. Operator overloading
- 8. Inheritance, multiple inheritances
- 9. Virtual Functions
- 10. File program

BGE-CSA02

ALLIED-II: INDIAN ECONOMY Common to BCom(BM), BCom(MM), B.Com(Co-op), BCom(CA) & BCom(ISM)

Inst.Hrs:6 Credits:5 YEAR: I SEMESTER: II

Objectives:

- To have the fundamental knowledge of Economic Developments.
- To teach the Economic problems and five year Plans.

Outcomes:

• After completion of the syllabus students well versed with the features of Indian economy and known the five year plan

UNIT I: Economic Growth and Economic Development- Transition on Indian Economy– Indian Economy from 1950 .- Indicators of economic development- National Income-Basic Concepts and computation of national income.

UNIT II: Major problems of Indian Economy- Human Development Index. Present Scenarios of population, unemployment, Poverty and inequality. Demographic trends in Population. Measures to control the population-Foreign trade

UNIT III: Agriculture: Contribution to economic development- Green Revolution- Organic farming- Food policy and Public distribution system.

UNIT IV: Industry- Role of industries in economic development-Large scale industries and small scale industries- New Economic Policy 1991- Industrial development before and after globalization in India.

UNIT V: Five year plans in India- Achievement and strategy and failures- Nidhi Aayog.

RECOMMENDED TEXTS

- 1. I.C. Dingra, Indian Economy
- 2. Ruddar Datt & K.P.M. Sundharam, Indian Economy S.Chand & Sons New Delhi.
- 3. K.N. Agarwal, Indian Economy Problem of Development of Planing Wishwa Prakasan New Age of International Ltd.
- S.K.Misra & V.K.Puri, Indian Economy Its Development Himalaya Publishing House - Mumbai.
- 5. T Aryamala, Indian Economy Vijay Nicole Imprints Private Ltd.,

UNIVERSITY OF MADRAS UG – NON-MAJOR ELECTIVE COURSE OFFERED IN THE DEPARTMENT OF MATHEMATICS SYLLABUS WITH EFFECT FROM 2020-2021

BMA-NME02

NME-II: FUNCTIONAL MATHEMATICS-II

UNIT I

Time and work – Pipes and cisterns- Problem

UNIT II

Time and Distance, Relative speeds- Problems on Races, Boats and Trains.

UNIT III

Mensuration – Problems

UNIT IV

Polygons -- Interior angles- Number of diagonals- Regular Polygons- Problems

UNIT V

Stocks and Shares - Problems

Reference:

1. Quantitative Aptitude- R.S. Agarwal

2. Functional Mathematics, M. Sivananda Rani, Margham Publications, Chennai.

UNIVERSITY OF MADRAS B.Com. DEGREE COURSE IN BANK MANAGEMENT SYLLABUS WITH EFFECT FROM 2020-2021

BBM-CSE2B

ELECTIVE-II(B): COMPUTERIZED ACCOUNTING

Common to BCom(MM) & BCom(ISM)-III-Sem. as Core.

Inst.Hrs : 6

Credits : Elective 5 / Core 4

YEAR: III SEMESTER: VI

COURSE OBJECTIVE

- 1. To provide basic knowledge of computerized accounting to deserving students under self learning mode
- 2. To know the preparation of budget and vouchers
- 3. To process purchase orders, sales order and salary payment
- 4. To prepare the final accounts with GST

OUTCOME

1. The students will be able To prepare the final accounts with GST

UNIT I: Interface and Company Management: Introduction to Tally ERP9 - Creating a Company - Altering and Deleting Company – Data Security: Security Control Setup - User Security Control, Multi Language, Export, Import, Backup and Restore: Export and Import Formats - Data Backup and Restore - Masters - Ledgers: Understanding Ledgers - Creating Ledgers - Creating Multiple Ledgers - Altering and Deleting Ledgers - Groups: Creating Groups - Altering and Deleting Groups - Bill wise Debtors and Creditors Ledgers: Configuring Bill wise Details

UNIT II: Default Vouchers: Payment Voucher - Receipt Voucher - Contra Voucher - Journal Voucher, Day Book: Day Book Reports - Altering and Deleting Transactions, Cheque Printing: CTS Cheque Printing System, Masters : Inventory: Understanding Inventory - Integrating Accounts and Inventory - Stock Group - Go down and Locations - Stock Category - Units of Measure - Stock Items - Manual Stock Valuation without Inventory

UNIT III: Purchase Order Processing: Purchase Order Process - Purchase Order Voucher - Receipt Note (Inventory) - Rejection-Out Voucher, Sales Order Processing: Sales Order Process - Sales Order Voucher - Delivery Note (Inventory) - Rejection-IN Voucher , Debit and Credit Notes, Bank Reconciliation, Manufacturing Vouchers: Bills of Materials - Job Costing, Tax Deducted at Source (TDS): Understanding TDS - Creating TDS Masters - TDS Payment - Tax Reports and Tax Forms, Payroll Accounting: Understanding Payroll - Pay Heads and Categories - Employee Details and Salary Details - Attendance Entries - Salary Payment – Pay sheet and Pay Slips

UNIT IV: Goods and Services Tax (**GST**): Activating Tally in GST - Setting Up GST (Company Level, Ledger Level or Inventory Level) - GST Taxes & Invoices - SGST, CGST & IGST - Creating GST Masters in Tally, Purchase Voucher with GST: Updating GST Number for Suppliers -Intra-State Purchase Entry in GST (SGST + CGST) - Inter-State Purchase Entry in GST (IGST) - GST Purchase Entry for Unregistered Dealer in Tally - Reverse Charge Mechanism Entry for GST in Tally, Sales Voucher with GST: Updating GST Number for Suppliers - Intra-State Sales Entry in GST (SGST + CGST) - Inter-Stat

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(IGST) - Printing GST Sales Invoice from Tally ERP9 Software, GST Reports and Returns: GSTR 1 in Tally - GSTR 1 Return Filing

UNIT V: Interest Calculations (Auto Mode): Activating Interest Calculations, Point of Sales, Budgets and Controls: Budget Masters and Configurations - Budget Reporting and Analysis, Cost Centers and Cost Categories: Cost Centers - Profit Centers, Purchase and Sales Reporting: Analyzing Purchase and Sales Register - Analyzing Debit and Credit Note - Overdue Payables and Receivables - Outstanding Reports and Printing, Stock Analysis and Reports: Stock Registers - Stock Valuation - Stock Transfer Report - Negative Stock Report - Record Physical Stock and Shortage - Stock Entry without Perpetual Inventory, Financial Reports: Trial Balance -Profit and Loss Account - Balance Sheet - Working Capital - Cash Flow and Fund Flow Statements, Printing Reports: Sales Invoice - Printing Payment and Receipt Vouchers - Printing Various Other Reports - Miscellaneous: Inserting Vouchers - Duplicating Entries - Split Company Data - Merge Tally Companies, Shortcut Keys

NOTE: 100% practical

Suggested Readings

- 1. Nadhani A K, (2016), Implementing Tally, BPB Publications
- 2. Rizwan Ahmed, (2016), Tally ERP 9, Margham Publications, Chennai
- 3. Nandhani, (2015), Computerized Accounting under Tally, Implementing Tally, BPB publication
- 4. Namrata Agrawal, (2008), Tally 9", Dreamtech Publishers
- 5. Tally Software Package Manual

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BSM-DSC06

CORE-VI: DATA STRUCTURE

Inst.Hrs : 5 Credits : 4 YEAR: I SEMESTER: II

Course Objectives

- To learn linear data structures-lists, stacks, queues
- To study Tree and Graph structures

OUTCOMES:

- Implement abstract data types for linear data structures.
- Apply the different linear and non linear data structures to problem solutions.

UNIT I

Introduction: Data structure – data types – types of data types – . Arrays: Representation of Arrays – One dimension and 2 dimension – operations

UNIT II

Stacks and Queues. Fundamentals - operations - Evaluation of Expression Infix to Postfix Conversion - Multiple Stacks and Queues

UNIT III

Linked List: Singly Linked List - Linked Stacks and Queues - Polynomial Addition - Doubly Linked List and Dynamic - Storage Management - Garbage Collection and Compaction.

UNIT IV

Trees: Basic Terminology - Binary Trees - Binary Tree Representations - Binary Trees - Traversal - Threaded Binary Trees

UNIT V

Graphs: Terminology and Representations – Traversals – BFS – DFS, Spanning Trees – Minimum Spanning tree

TEXT BOOK

1. Ellis Horowitz, Sartaj Shani, Data and File Structures Galgotia Publication.

REFERENCE BOOKS

- 1 Ellis Horowitz, Sartaj Shani, Sanguthevar Rajasekaran, "Computer Algorithms Galgotia Publicatio
- 2 Aho, Hopcroft and Ullman, "Data Structures and Algorithms", Pearson Education 2003.

WEB REFERENCES:

- > NPTEL & MOOC courses titled Data Structures
- https://nptel.ac.in/courses/106106127/

BGE-CSC07

CORE-VII: BANKING THEORY LAW AND PRACTICE

Common to BCom(A&F), BCom(BM), BCom(MM) & BCom(ISM)

Inst.Hrs:5 Credits:4 YEAR: II SEMESTER: III

Objectives:

- 1. To facilitate the understanding of the origin and the growth of the Indian Banking System
- 2. To understand the modern day Developments in Indian Banking Sector.

Out Comes:

• After completion of this subject students understand the growth of Indian Banking Systems and their Modern Day Development.

UNIT-I : Introduction to Banking

History of Banking- Components of Indian banking -Indian Banking System-Phases of development-Banking structure in India-Payment banks and small banks-Commercial Banking-Definition-Classification of banks. Banking System- Universal banking-Commercial Banking-functions-Role of Banks in Economic Development. Central Banking-Definition –Need-Principles- Central Banking Vs Commercial banking-Functions of Central bank.

UNIT-II: RBI

Establishment-objective-Legal framework-Functions-SBI-Origin and History-Establishment-Indian subsidiaries-Foreign subsidiaries-Non-Banking-Subsidiaries-Personal banking-International banking-Trade Financing-Correspondent banking.Co-operative banks-Meaning and definition-Features-Co-operative banks vsCommercial banks-Structure.-**NBFC-Role of NBFC-RBI Regulations-Financial sector reforms-Sukhmoy committee 1985-Narasimham** committee I and II-Prudential norms: capital adequacy norms-classification of assets and provisioning.

UNIT-III: E-Banking

Meaning-Services-e-bankingandFinancialservices-Initiatives-Opportunities-Internet banking-Meaning-InternetbankingVsTraditionalbanking-Services-Drawbacks-Frauds in Internet banking. Mobile banking–**Anywhere Banking-Any Time Banking**- Electronic MobileWallets. ATM-Evolution -Concept-Features - Types-. Electronicmoney-Meaning-Categories-Meritsofe-money-ElectronicFunds Transfer (EFT)system - Meaning- Steps–Benefits-Monetary policies- final sector reforms- sakmoy chakrevarthy commmittee 1985- Narasiman Committee I & IIprudential norms capital adequacy norms- classification of assets & provisionary meaning-Structure of Interest rates (short and long term)-impacts on saving and borrowings.

UNIT IV: Bank Account

Opening – Types of Accounts-FDR-Steps in opening Account-Saving vs Current Account-'Donatio Mortis Causa' - Passbook-Bank Customer Relationship-Special Types of currents-KYC norms. Bank Lending –Lending Sources-Bank Lending Principles-Forms of lending-Loan evaluation process-securities of lending-Factors influencing bank lending – Negotiable

Instruments –Meaning –Characteristics-Types. Crossing –Definition –Objectives-Crossing and negotiability-Consequences of Crossing.

UNIT-V: Endorsement

Meaning-Components-Kinds of Endorsements-Cheques payable to fictitious person-Endorsement by legal representative –Negotiation bank-effect of endorsement-Rules regarding endorsement.Paying banker-Banker's duty-Dishonoring of Cheques-Dischargeof paying banks-Payments of a crossed cheque payment. Collecting bankers-Statutory protection under section 85-Refusal of cheques Payment. Collecting Banker-Statutory protection under section 131-Collecting bankers' duty –RBI instruction –Paying Banker Vs Collecting Banker- Customer grievances-Grievance redressal –Banking Ombudsman.

TEXT BOOKS

- 1. Michael W. Brandi Money, Banking, Financial Markets and Institutions –Cengage, New Delhi
- 2. Gurusamy S, Banking Theory : Law and Practice, Vijay Nicole Publication, 2015, Chennai

SUGGESTED READINGS

- 1. Clifford Gomez, Banking and finance, Theory, Law and practice, Jain Book Agency, 2010 Mumbai
- 2. Gupta, R K Banking Law and Practice, Jain Book Agency, 2001, New Delhi.
- 3. Sundaram and Varshney, Banking Theory Law and Practice, Sultan Chand Co, 2010, New Delhi.
- 4. Maheswari, S.N. Banking Theory Law and Practice, Kalyani Publications, 2011, Mumbai.
- 5. Santhanam.B, Banking Theory Law and Practice, Margam Publications.
- 6. Nirmala Prasad, Banking and Financial Services, Himalaya Publications.

E-RESOURCES

www.lawcommissionofindia.nic.in www.rbi.org www.bankingombudsman.org

UNIVERSITY OF MADRAS B.Com. DEGREE COURSE IN COMPUTER APPLICATION SYLLABUS WITH EFFECT FROM 2020-2021

BCN-CSC12

CORE-XII: JAVA PROGRAMMING - THEORY & PRACTICAL

Common to BCom(ISM)

Inst.Hrs:5 Credits:4 YEAR: II SEMESTER: IV

Course Objectives

- To learn the basics and advanced concepts of Java programming.
- To learn the basics of user interfaces components using Java.
- To apply and develop the real time applications using Java programming.

UNIT – I

Introduction to Java-Features of Java-Basic Concepts of Object Oriented Programming-Java Tokens-Java Statements-Constants-Variables-Data Types- Type Casting-Operators-Expressions-Control Statements: Branching and Looping Statements

UNIT-II

Classes, Objects and Methods-Constructors-Methods Overloading-Inheritance-Overriding Methods-Finalizer and Abstract Methods-Visibility Control –Arrays, Strings and Vectors-String Buffer Class

$\mathbf{UNIT} - \mathbf{III}$

Interfaces-Packages-Creating Packages-Accessing a Package-Multithreaded Programming-Creating Threads- Stopping and Blocking a Thread-Life Cycle of a Thread-Using Thread Methods-Thread Priority

$\mathbf{UNIT} - \mathbf{IV}$

Managing Errors and Exceptions-Syntax of Exception Handling Code-Using Finally Statement-

Throwing Our Own Exceptions-Applet Programming-Applet Life Cycle-Graphics Programming

$\mathbf{UNIT} - \mathbf{V}$

Managing Input /Output Files: Concept of Streams-Stream Classes-Byte Stream Classes-Character Stream Classes – Using Streams-Using the File Class-Creation of Files-Random Access Files-Other Stream Classes

RECOMMENDED BOOKS

1. Sagayaraj , Denis, Karthik, Gajalakshmi – JAVA Programming - University Press , Hyderabad

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Reference Books

- 1. E. Balagurusamy,2004, Programming with JAVA, 2nd Edition,Tata McGraw-Hill Publishing Co.Ltd
- 2. Muthu C, Programming with Java, Vijay Nicole Imprints, Chennai
- 3. Cay S. Horstmann, Gray Cornell. Core java 2 Volume I. Fundamentals, 5th Edn. PHI, 2000.
- 4. P. Naughton and H. Schildt. Java2 (The Complete Reference). Third Edition, TMH 1999.
- 5. K. Arnold and J. Gosling. *The Java Programming Language*. Second Edition, Addison Wesley, 1996.

JAVA PROGRAMMING PRACTICALS

- 1. Substring removal from a string. Using String Buffer Class.
- 2. Determining the Perimeter and Area of a Triangle. Using Stream Class.
- 3. Determining the order of numbers generated randomly using Random class.
- 4. Usage of Calendar Class and manipulation.
- 5. String Manipulation using char array.
- 6. Usage of Vector Classes.
- 7. Implementing Tread based application and Exception Handling.
- 8. Creating scientific calculator
- 9. Working with Frames and Various controls.
- 10. Working with Applet- form designing
- 11. Text files (copy, display, counting characters, words and lines).
- 12. Data file creating and processing for electricity billing.

BGE-CSA3A

ALLIED-III(A): BUSINESS STATISTICS

Common to BCom(A&F), BCom(CS), BCom(BM),BCom(MM), B.Com(Co-op), BCom(CA) & BCom(ISM)

Inst.Hrs: 6

Credits : 5

YEAR: II SEMESTER: III

OBJECTIVES

To Facilitate Understanding Relevance and Need Of Statistics in Current Scenario

• To Customize the Importance of Business Statistics for the Commerce Students

UNIT-I Introduction

Meaning and Definition of Statistics- Collection and Tabulation of Statistical Data-Presentation of Statistical Data-Graphs and Diagrams

UNIT-II Measures of Central Tendency and Measures of Variation

Measures of Central Tendency- Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean. Measures of Variation- Standard Deviation -Mean Deviation- Quartile Deviation-Skeweness and Kurtosis- Lorenz Curve

UNIT-III Correlation and Regression Analysis

Simple Correlation-Scatter Diagram- Karl Pearson's Correlation- Spearman's Rank Correlation- Regression- Meaning-Linear Regression.

UNIT- IV Time Series

Analysis of Time Series-Causes of Variation in Time Series Data -Components of Time Series- Additive and Multiplicative Models- Determination of Trend By Semi Average, Moving Average and Least Square(Linear Second Degree And Exponential) Methods-Computation of Seasonal Indices By Simple Average, Ratio to Moving Average, Ratio to Trend and Link Relative Methods

UNIT-V Index Numbers

Meaning and Types of Index Numbers-Problems in Construction of Index Numbers-Methods of Construction of Price and Quantity Indices- Test of Adequacy- Errors in Index Numbers- Chain Base Index Numbers- Base Shifting -Splicing -Deflation -Customer Price Index and Its Uses- Statistical Quality Control

SUGGESTED READINGS

- 1. Dhingra IC & MP Gupta, Lectures In Business Statistics, Sultan chand and Sons, New Delhi 2009
- 2. Gupta SP and Archana Agarwal, Business Statistics (Statistical Methods) Sultan chand and Sons, New Delhi, 9th Edition 2013
- 3. Gupta SC, Fundamentals of Statistics, Himalaya Publishing House
- 4. Richard Levin and David Rubin, Statistics for Management, Prentice Hall Of India, New Delhi, 2011,7th Edition
- 5. Sharma J K,Fundamentals of Business Statistics, Second Edition, Vikas Publishing House Private Limited,2013
- 6. Siegel, Andrew, Practical Business Statistics, Irwin Mcgraw Hill International Edition 4th
- 7. Rajagopalan SP and Sattanathan R B Business Statistics and Operations Research, Vijay Nicole Imprint Private Limited, Chennai

Syllabus for Courses on Soft Skills

Common to all UG and 5 year Integrated Programmes of the Affiliated Non-autonomous Colleges (w.e.f 2013-14)

BP4-SS006

PERSONALITY ENRICHMENT – LEVEL I

Unit 1- Self Disclosure

Characteristics of self disclosure – Self disclosure benefits and appropriateness – Self disclosure and self awareness – Self disclosure and feedback.

Exercise:

1. Self Description– Reflect and answer the following questions on a sheet of paper about yourself: Who am I? What am I like? How do others perceive me? What are my strengths as a person? In what areas do I want to develop greater skills?

2. Adjective Checklist – the following exercise is aimed at providing an opportunity for participants to disclose their view of themselves to the other members of their group and to receive feedback on how the other group members perceive them.

3. Self Disclosure and Self Awareness – the purpose of this exercise is to allow participants to focus on the areas as described in the Johari Window.

Unit II – Anger, Stress and Managing Feelings

The nature of stress- managing stress through social support systems – the nature of anger – guidelines for managing anger constructively – dealing with an angry person

Exercise:

1. Handling put downs techniques practiced through role plays.

2. changing your feelings discuss how people can make their assumptions more constructively.

3. defusing the Bomb exercise discuss how one can manage provocations.

Unit III – Interpersonal Effectiveness

Managing anxiety and fear – Breathing – an antidote to stress – progressive muscle relaxation – understanding your shyness – building one' self esteem – avoiding self blame – taking risks,

tolerating failure, persisting and celebrating success – self talk.

Syllabus for Courses on Soft Skills

Common to all UG and 5 year Integrated Programmes of the Affiliated Non-autonomous Colleges (w.e.f 2013-14)

Exercise:

1. being positive about yourself

2. Understanding your shyness analyze the social situation of shyness and the causes of your shyness.

3. Systematic Muscle Relaxation train one in the procedure for systematic muscle relaxation.

4. Learning how to breathe deeply help one to relax systematically when one is anxious by controlling one's breathing.

Unit IV: Study Skills

Importance of study environment – using VCR3 to increase memory power: visualizing, concentrating, relating, repeating, reviewing- memory hindrances – memory helpers – knowing vs memorizing – memory and studying – the SQ3R method; survey, write questions, read, recite , review – mnemonic devices – rhymes – acronyms – pegging – cooperative learning .

Exercise:

1. Using the techniques of memory enhancers to review your classroom and textbook notes

Unit V: Goal Setting and Managing Time

The basis of effective goals – steps to be followed to obtain optimum results from goal setting – Identifying the reasons for procrastination – guidelines to overcome procrastination – priority

management at home and college

Exercise:

1. Steps to prepare one's short term goals and long term goals.

2. Role play activity through reelection of identifying how priority management affect one's ability to live a balanced life.

Reference:

1. Johnson, D.W. (1997). Reaching out – Interpersonal Effectiveness and Self Actualization. 6^{th} ed. Boston: Allyn and Bacon.

2. Sherfield, R. M. ; Montgomery, R.J. and Moody, P, G. (2010). Developing Soft Skills. 4thed. New Delhi: Pearson.

3. Robbins, S. P. and Hunsaker, Phillip, L. (2009). Training in Interpersonal skills. Tips for managing people at work. 5th ed. New Delhi: PHI Learning.

Syllabus for Courses on Soft Skills

Common to all UG and 5 year Integrated Programmes of the Affiliated Non-autonomous Colleges (w.e.f 2013-14)

BP4-SS007

PERSONALITY ENRICHMENT – LEVEL II

Unit 1 : Stress Management

The Nature of Stress – A wellness Lifestyle – Distress symptoms: emotional distress, cognitive distress, behavioral distress, physical distress symptoms – managing stress : exercise, nutrition, sleep, healthy pleasures – self talk and stress – Relaxation Methods: breathing techniques, meditation techniques, visualization techniques – self hypnosis- muscle relaxation techniques – Using social support.

Exercise:

1. Distressors and Distress Symptoms

2. Identifying Personal uses for self talk management

3. Social support networks from which you draw and networks through which you give social support

Unit 2: Maintaining Trust

Developing and maintaining trust – being trusting and trustworthy – building interpersonal trust –reestablishing trust after it has been broken – trusting appropriately – trust and friendship.

Exercise:

- 1. Practicing Trust Building Skills
- 2. Developing Trust

Unit 3: Resolving Interpersonal Conflicts

Understanding conflicts of Interests- conflict strategies – negotiating to win – negotiating to solve the problems – steps for effective problem solving negotiating – refusal skills.

Exercise:

- 1. Non verbal conflict
- 2. Confronting the opposition
- 3. Using the conflict strategies role playing

Unit 4: Applying Emotional Intelligence

Emotional Intelligence and emotional competence - components of emotional intelligence – behavioral skills of emotional intelligence. **Exercise**:

1. Role model using a modeling/group exercise

Syllabus for Courses on Soft Skills

Common to all UG and 5 year Integrated Programmes of the Affiliated Non-autonomous Colleges (w.e.f 2013-14)

Unit 5: Enhancing self esteem

Self theory and the Johari window- Characteristics of fully functioning individuals – manifestations of low and high self esteem – techniques for enhancing self esteem – nurturance techniques -

Exercise:

1. Weakness-strength

2. managing your pig identify areas of self criticism and dealing with negative messages.

3. Nurturing relationships

Reference

1. Schafer, W. (1998). Stress Management for Wellness. 4th edition. Australia: Thomson & Wadswoth.

2. Johnson, D.W. (1997). Reaching out – Interpersonal Effectiveness and Self Actualization. 6th ed. Boston: Allyn and Bacon.

Robbins, S. P. and Hunsaker, Phillip, L. (2009). Training in Interpersonal skills. Tips for managing people at work. 5th ed. New Delhi: PHI Learning.
Frey, D and Carlock , C. (1989). Enhancing Self Esteem. 2nd edition. Indiana: Accelerated Development INC.

UNIVERSITY OF MADRAS B.Com. DEGREE COURSE IN INFORMATION SYSTEM MANAGEMENT SYLLABUS WITH EFFECT FROM 2020-2021

BSM-DSC09

CORE-IX: MANAGEMENT INFORMATION SYSTEM (MIS)

Inst.Hrs: 6 Credits: 4

YEAR: II SEMESTER: IV

Course Objectives

- 1. To offer in-depth knowledge on information systems in business and their management
- 2. To teach the objectives and components of data base management systems
- 3. To know the approaches involved in developing MIS
- 4. To gain knowledge on functional Information systems

UNIT I - Management Information System – Concept, Need, Strategic role – Evolution of Management Information System – Components of Management Information System – Information flow

UNIT II - Data base management systems – Objectives and Components – Database design – Creation and control – Recent trends in database

UNIT III - Developing information system – Planning, Designing and redesigning – Approaches for system development – System analysis and Design – system Implementation and Maintenance

UNIT IV - Transaction processing and Support system – Transaction processing system – Office automation systems – Decision support systems – Executive information systems – Artificial intelligence and Expert systems

UNIT V - Functional Information systems – Production, Finance, Human resource and Marketing – Managing information resources – Information Security – Control & Audit of Information Systems

REFERENCE BOOKS

- 1. Azam M (2012), Management Information Systems, Vijay Nicole Imprints
- 2. Davis (2013), 'Management Information Systems', McGraw Hill
- 3. Eff Oz (2001), 'Management Information Systems', Vikas Publishing house Pvt. Ltd
- Goyal D P (2010), 'Management Information Systems Managerial Perspectives', Mac Millan India Ltd
- 5. James A O' Brain (2014), Management Information Systems', Tata McGraw Hill
- 6. Kenneth C.Loudan& Jane P.Loudan (2016), "Essentials of MIS", Prentice Hall India
- 7. Muneesh Kumar (2001), 'Business Information Systems', Vikas Publishing house Pvt. Ltd
- 8. Prasad L M, Usha Prasad (2012), 'Management Information Systems', Sultan chand& Sons
- 9. Sadagopan S (2012), 'Management Information System', Prentice Hall
- 10. Wetherbe, Turban (2000), 'Information Technology for Management', John Wiley publisher

BGE-CSC04

CORE-IV: PRINCIPLES OF MANAGEMENT

Common to BCom(A&F), BCom(BM), BCom(CA)-IV Sem & BCom(ISM)-IV Sem.

Inst.Hrs: 6 Credits: 4 YEAR: I SEMESTER: II

OBJECTIVES

- To make the students to understand the basic concepts of management.
- To prepare the students to know about the significance of the management in Business.

OUTCOME:

• On the completion of syllabus students will understand the basic concepts and significance of management in business.

Unit I: Introduction

Definition – Importance – Nature and Scope of Management – Process of Management - Role and functions of Managers - Levels of Management Scientific Management Contributions to Management by different Schools of thought.

Unit II: Planning

Nature – Importance -Types of Planning - Steps in planning - Objectives of Planning – Policies - Decision making Process-Types of Decisions. HRM- Meaning, -Nature and scope of HRM.

Unit III: Organization

Meaning and Types of organizations - Principles – Formal and Informal organization - Organisation Structure – Span of Control – Departmentalisation – Basis - Meaning and Importance of Departmentalisation. Policies - Meaning and Types – Procedures - Forecasting.

Unit IV: Authority and Responsibility

Authority – Definition – Sources – Limitations – Difference between Authority and Responsibility – Delegation of Authority – Meaning – Principles and importance – Centralisation Vs Decentralisation- Leadership & Communication

Unit V: Direction Co-ordination & Control

Direction – Nature - Purpose. Co-ordination – Need – Types and Techniques – Requisites for Excellent Co-ordination. Controlling – Meaning – Importance – Control Process.

TEXT BOOK:

- 1. N.V..S.Raju.- Fundamentals of Management CENGAGE ,New Delhi.
- 2. James Campbell Quick, Dbra L.nelson, Preetam Khandelwal CENGAGE ,New Delhi.
- 3. Gupta, C.B. Management Theory & Practice, Sulthan Chand & Sons, New Delhi.
- 4. Prasad,L.M.Principles&PracticeofManagement,SultanChand&Sons,New Delhi.

REFERENCE BOOKS:

- 1. Tripathi, P.C. & Reddy, P.N. Principles of Managements, TataMcGrawHill, NewDelhi.
- 2. WeihrichandKoontz,Management-AGlobalPerspective.
- 3. Premavathy N, Principles of Management, SriVishnuPublications, Chennai.
- 4. Jayasankar, J. Business Management, Margham Publication, Chennai.
- 5. Sundar, K. Principles of Management, Vijay Nicole Imprints Pvt. Ltd., Chennai

WEB RESOURCE:

- 1. www.wisdomjobs.com
- 2. <u>www.aima.in</u>
- 3. <u>www.clep.collegeboard.org</u>

BGE-CSC11

CORE-XI: FINANCIAL SERVICES

Common to BCom(A&F) as VI Sem.Elective, BCom(BM), BCom(CA)-VI Sem. & BCom(ISM)

Inst.Hrs : 5 Credits : 4 YEAR: II SEMESTER: IV

OBJECTIVES:

- To enable the students to understand the world of financial services.
- To facilitate the understanding of the various Financial Services.

OUTCOME:

• On the completion of modules, the students will understand the various financial services.

UNIT I: Introduction

Financial Services - Concept - Objectives - Functions - Characteristics - Financial Services Market -Concept - Constituents - Growth of Financial Services in India - Financial Services Sector Problems -Financial Services Environment - The Forces - Players in Financial Markets

UNIT II: Merchant Banking and Public Issue Management

Definition - Functions - Merchant Bankers Code of Conduct - Public Issue Management - Concept - Functions - Categories of Securities Issue - Mechanics of Public Issue Management - Issue Manager - Role of issue Manager - Marketing of Issue - New Issues Market Vs Secondary Market.

UNIT III: Money Market and Stock Exchange

Characteristics - Functions - Indian Capital Market - Constituents of Indian Capital Market - New Financial Institutions and Instruments - Investor Protection - Stock Exchange - Functions - Services - Features - Role - Stock Exchange Traders -Regulations of Stock Exchanges - Depository - SEBI - Functions and Working.

UNIT IV: Leasing and Factoring and Securitisation

Characteristics - Types - Participants - Myths about Leasing - Hire Purchase – Lease Financing Vs Hire Purchase Financing - Factoring - Mechanism - Functions of a Factor - Factoring - Players- Types - Operational Profile of Indian Factoring - Operational Problems in Indian Factoring - Factoring Vs bills Discounting - Securitisation of Debt- Parties involved- Steps of securitisation - Types of securitisation- Advantages- Limitations – SARFAESI Act 2002- Background-Purpose of the Act- Main provisions

UNIT V: Venture Capital, credit rating and pension Fund

Origin and Growth of Venture Capital - Investment Nurturing Methods - Mutual Funds - Portfolio Management Process in Mutual Funds - Credit Rating System - Growth Factors - Credit Rating Process - Global and Domestic Credit Rating agencies - Pension Fund - Objectives - Functions -Features - Types - Chilean Model - Pension Investment Policy - Pension Financing.

TEXT BOOKS:

- 1. Michael W. Brandi Money, Banking, Financial Markets and Institutions –Cengage, New Delhi
- 2. GurusamyS, Essentials of Financial Services, Vijay Nicole Imprints, Chennai, 2014

REFERENCE BOOKS:

- 1. Gomez Clifford, Prentice Hall of India, Financial Markets, Institutions and Financial Services, 2008
- 2. Meir Kohn, Financial Institutions and Markets, Oxford University Press
- 3. Rajesh Kothari, Financial Services in India: Concept and Application, Sage publications, 2012, New Delhi.
- 4. MadhuVij & Swati Dhawan, Merchant Banking and Financial Services, Jain Book Agency, 2000, Mumbai
- 5. Vasant Desai, Financial Markets and Financial Services, Himalayan Publishing House *Pvt*. Ltd, 2000, Mumbai

WEB RESOURCE:

- 1. <u>www.rbi.org</u>
- 2. <u>www.sebi.org</u>
- 3. <u>www.nse.org</u>

UNIVERSITY OF MADRAS B.Com. DEGREE COURSE IN COMPUTER APPLICATION SYLLABUS WITH EFFECT FROM 2020-2021

BCN-CSC04

CORE-IV: PYTHON PROGRAMMING THEORY AND PRACTICAL

Common to BCom(ISM)

Inst.Hrs:6 Credits:4 YEAR: I SEMESTER: II

Course Objectives

- To introduce the basic features of python programming and impart skills in an Industry standard programming language
- Understand fundamental programming concepts of Python programming and its Libraries
- Create advanced programming features in Python to solve industry standard problems

UNIT - I

Computer systems – Python Programming Language Computational Thinking – Python Data Types: Expressions, Operator, Variables, and Assignments – Strings – Lists – Objects & Classes – Python standard library.

UNIT - II

Imperative programming: Python modules – Built-in-function: print() function –eval() function – user-defined function & assignments -parameter passing.

UNIT - III

Text Data, Files & Exceptions: Strings, revisited – formatted output – files – errors & Exceptions – Execution control Structures: decision control & the IF statement

UNIT - IV

For LOOP & Iteration Patterns – two-dimensional list- while loop – more loop patterns – additional iteration control statements – Container and Randomness: Dictionaries – other built-in container types – character encodings & strings – module random.

UNIT - V

Namespaces – encapsulation in functions – global vs local namespaces exceptional flow control – modules as namespaces.

RECOMMENDED BOOKS

- 1. Michael Dawson Python Programming for The Absolute Beginner –Cengage ,New Delhi
- 2. Kenneth A. Lambert Fundamentals of Python First Programs Cengage ,New Delhi
- 3. Ch Satyanarayana, M Radhika Mani, BN Jagadesh Python Programming- Cengage, New Delhi

Reference Books

- 1. Ljubomir Periodic, "Introduction to Computing Using Python: An Application Development Focus", John Wiley & Sons,2012
- 2. Shymala Devi, Python Programming, Vijay Nicole Imprints, Chennai
- 3. Sheetal Taneja & Naveen kumar, Python Programming a Modular approach A Modular approach with Graphics, Database, Mobile and Web applications, Pearson, 2017.
- 4. Martin C. Brown, Python: The Complete Reference, Osborne/McHraw Hill, 2001.
- 5. Wesley J. Chun, "Core Python Programming", Pearson Education, Second Edition, 2007.

UNIVERSITY OF MADRAS B.Com. DEGREE COURSE IN COMPUTER APPLICATION SYLLABUS WITH EFFECT FROM 2020-2021

WEB REFERENCES

- > NPTEL & MOOC courses titled Python programming
- http://spoken-tutorial.org/tutorial-search/?search_foss=Python&search_language=English
- http://docs.python.org/3/tutorial/index.html
- http://interactivepython.org/courselib/static/pythonds

PYTHON PROGRAMMING PRACTICALS

Objectives:

- To implement the python programming features in practical applications.
- To write, test, and debug simple Python programs.
- To implement Python programs with conditionals and loops.
- Use functions for structuring Python programs.
- Represent compound data using Python lists, tuples, dictionaries and modules.

LIST OF EXERCISES:

- 1. Program to convert the given temperature from Fahrenheit to Celsius and vice versa depending upon user's choice.
- 2. Program to calculate total marks, percentage and grade of a student. Marks obtained in each of the five subjects are to be input by user. Assign grades according to the following criteria: Grade A: Percentage >=80 Grade B: Percentage >=70 and <80 Grade C: Percentage >=60 and <70 Grade D: Percentage >=40 and <60 Grade E: Percentage <40</p>
- 3. Program, using user-defined function to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user.
- 4. Program to display the first n terms of Fibonacci series.
- 5. Program to find factorial of the given number.
- 6. Write a Python program to count the number of even and odd numbers from N numbers.
- 7. Python function that accepts a string and calculate the number of upper case letters and lower case letters.
- 8. Python program to reverse a given string and check whether the give string palindrome or not.
- 9. Write a program to find sum of all items in a dictionary.
- 10. Write a Python program to construct the following pattern, using a nested loop 1 22

11. Simple analysis listing

BGE-CSA4A

ALLIED-IV(A): ELEMENTS OF OPERATIONS RESEARCH

Common to BCom(A&F), BCom(MM), BCom(CA) & BCom(ISM)

Inst.Hrs: 6 Credits: 5 YEAR: II SEMESTER: IV

OBJECTIVES

- To Facilitate this Understanding of the Concept of Operations Research
- To Help the Students to Understand the Various Techniques of Solving Problems

OUT COME:

• Understanding of the Concept of Operations Research and to Help the Students to Understand the Various Techniques of Solving Problems

UNIT I : Introduction

Operations Research- Meaning-Definition - Origin and History- Characteristic Features – Need-Scope – Steps- Techniques- Application- Limitations

UNIT II : Linear Programming Problem Lpp

Meaning- Requirements- Assumptions- Applications- Formulating Lpp –Advantages-Limitations Formulating LP Model (Simple Problems Only)

UNIT III: Methods Of Lpp

Obtaining Optimal Solution for Linear Programming Problem (LPP)-Graphical Method -Problems --Simplex Method for Type of LPP and for Slack Variable Case -Maximization Function -Minimization Function (Simple Problem Only)

UNIT IV : Transportation Problems

Meaning –(Initial Basic Feasible Solution)Assumptions -Degenerate Solution -North -West Corner Method- Least Cost Method -Vogels Approximation Method -Assignment Problems-Features -Transportation Problem Vs Assignment Problem -Hungarian Method (Simple Problems Only)

UNIT V: Game Theory

Meaning- Types of Games- Basic Assumptions- Finding Value of Game for Pure Strategy -Mixed Strategy -Indeterminate Matrix and Average Method -Graphical Method -Pure Strategy- Saddle Point Payoff Matrix Value of Game (Simple Problems Only)

Recommended Texts

- 1. M.Sreenivasa Reddy Operations Research CENGAGE, New Delhi
- 2. S.Gurusamy–Elements of Operations Research–Vijay Nicole Imprints private Limited, Chennai

SUGGESTED READINGS

- 1. Agarwal NP and Sonia Agarwal, Operations Research and Quantitative Techniques, RBS A Publishers, New Delhi ,2009
- 2. Anand Sharma, Operations Research, Himalayan Publishing House, 2014, Mumbai
- 3. Gupta Pk And Gupta SP Quantitative Techniques and Operations Research, Sultan Chand and Sons, 2014, New Delhi
- 4. Kapoor V.K, Operations Research Techniques For Management, Sultan Chand And Sons, 2012 New Delhi
- 5. Kanti Swarup, P.K. Gupta Man Mohan , operation research, Jain book agency, 2014, New Delhi
- 6. Sarangi, SK Applied operations research and Quantitative methods, Himalayan publishing house 2014, Mumbai.

E- SOURCES:

http://www.learnaboutor.co.uk/ http://www.theorsociety.com/ www.orcompleate.com/ http://www.orsi.in/

Syllabus for Courses on Soft Skills

Common to all UG and 5 year Integrated Programmes of the Affiliated Non-autonomous Colleges (w.e.f 2013-14)

BP4-SS008

COMPUTING SKILLS – LEVEL - I

Objective:

The major objective in introducing the course is to impart hands on training to students in Microsoft Office essentials like MS Word, MS Excel and MS Access. The course is basic course offered at two levels exclusively meant for students who have no computer knowledge. Course is designed as a practical oriented course and not for chalk and board teaching.

Pre-requisite : NIL

Unit 1 : Introduction to computers – classification of computers; Computers inside – Hardware(processing, memory i/o, storage etc), Software (Systems, application); Operating Systems – DOS, LINUX, UNIX, Windows ; Programming – Overview, need and skills; Networking Basics; Virus; Hacking

Unit 2 : Word processing - Operating of word documents like open, close, save, print ; Editing Text – tools, formatting , bullets, layout ; Navigating word – Keyword, mouse, document formatting ; paragraph alignment - indentation, headers, footers, numbering; printing – preview, options

Unit 3 : File Management – Importance of file management, backing of files, files and folders- editing, deleting, retrieving, renaming, subfolders; Manipulating windows – minimize, mazimize; power point basics- terminology- templates, viewing

Unit 4 : Spreadsheets – MS Excel – opening, entering text and data, formatting, navigating; Formulas- entering, handling and copying; charts- creating, formatting and printing, header and footer, centering of data; printing

Unit 5 : Networking - Internet explorer; www - working, browsing, searching, saving; bookmark - features, favorite, create, delete ; printing webpage; email - creating, receiving, reading and sending messages

Note – Unit 2 -5 are to be taught as practical with hands on experience

References :

- 1. Introduction to Computers Peter Norton, Tata McGraw-Hill, India
- 2. Microsoft 2003 Jennifer Ackerman Kettel et al., Tata Mc-Graw Hill, India
- 3. Working In Microsoft office 2006- Ron Mansfield, Tata Mc-Graw Hill, India

Examinations :

- 1. Sessional tests could be based on Theory and practical
- 2. End semester is based on practical examination only

Syllabus for Courses on Soft Skills

Common to all UG and 5 year Integrated Programmes of the Affiliated Non-autonomous Colleges (w.e.f 2013-14)

BP4-SS009

COMPUTING SKILLS – LEVEL II

Objective:

The major objective in introducing the course is to impart hands on training to students in Microsoft Office essentials like MS Word, MS Excel and MS Access. The course is basic course offered at two levels exclusively meant for students with no computer knowledge. Course is designed as a practical oriented course and not for chalk and board teaching.

Pre-requisite : Essentials of Microsoft office as given in Level I

Unit 1 : Word processing - Auto formatting; Paragraph and character styles - creating, modifying and using styles; Templates - modifying, attaching and controlling; Tables and columns - creating, manipulating and formulating; mail merge; labels- creating

Unit 2 : Data Management – MS Access - Introduction, concepts and terms; database and tables- creating, data types, editing fields, renaming, resizing of fields, finding, sorting and displaying of data –printing

Unit 3 : Spreadsheets – MS Excel – Worksheets – moving, copying, sorting, inserting of cells, rows, columns; Charts – creating, editing, adding, rotating, printing, deleting and controlling; graphics- creating and placing, drawing lines and shapes; using multiple worksheets ; printing

Unit 4 : Presentations – Power point- starting, browsing and saving, creating, editing, formatting of text and paragraphs, inserting tables and charts; Presentation through slides, handouts and printing.

Unit 5 : Graphics and Multimedia - Clip art – create and insert; shapes- draw, insert and copy; create a flow *Note – Unit 1 -5 are to be taught as practical with hands on experience*

References :

- 1. Introduction to Computers Peter Norton, Tata McGraw-Hill, India
- 2. Microsoft 2003 Jennifer Ackerman Kettel et al., Tata Mc-Graw Hill, India
- 4. Working In Microsoft office 2006- Ron Mansfield, Tata Mc-Graw Hill, India

Examinations :

- 1. Sessional tests could be based on Theory and practical
- 2. End semester is based on practical examination only

UNIVERSITY OF MADRAS U.G. DEGREE COURSE

ENVIRONMENTAL STUDIES PROGRAMME

ABILITY ENHANCEMENT COMPULSORYCOURSES (AECC- Environmental Studies)

Syllabus with effect from the academic year 2018-2019

(i.e. for batch of candidates admitted to the course from the academic year 2017-18)

Credits: 2

II Year / III/IV Sem.

Unit 1: Introduction to Environmental Studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; concept of sustainability and sustainable development.

Unit 2 : Ecosystem (2 lectures)

• What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem:

Food chains, food webs and ecological succession, Case studies of the following ecosystem:

- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystem (ponds, stream, lakes, rivers, ocean, estuaries)

Unit 3: Natural Resources : Renewable and Non – renewable Resources (6 lectures)

- Land resources and landuse change: Land degradation, soil erosion and desertification.
- Deforestation : Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water : Use and over –exploitation of surface and ground water, floods, droughts, conflicts over water (international and inter-state).
- Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Unit 4: Biodiversity and Conservation (8 lecturers)

- Levels of biological diversity: genetics, species and ecosystem diversity, Biogeographic zones of India: Biodiversity patterns and global biodiversity hot spots
- India as a mega- biodiversity nation, Endangered and endemic species of India.
- Threats to biodiversity: Habitat loss, poaching of wildlife, man- wildlife conflicts, biological invasions; Conservations of biodiversity: In-situ and Ex-situ Conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

Unit 5: Environmental Pollution (8 lecturers)

- Environmental pollution: types, causes, effects and controls: Air, Water, soil and noise Pollution.
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste
- Pollution case studies.

UNIVERSITY OF MADRAS U.G. DEGREE COURSE

Unit 6: Environmental Policies & Practices (8 lecturers)

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act, Air (Prevention & Control of Pollution) Act; Water (Prevention and Control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human Wildlife conflicts in Indian context.

Unit 7: Human Communities and the Environment

(7 lectures)

- Human population growth, impacts on environment, human health and welfare.
- Resettlement and rehabilitation of projects affected persons; case studies.
- Disaster management: floods, earthquake, cyclone and landslides.
- Environmental movements : Chipko, Silent Valley, Bishnois of Rajasthan.
- Environmental ethics : Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies(e.g. CNG Vehicles in Delhi)

Unit 8 : Field Work (6 lectures)

- Visit to an area to document environmental assets: river / forest/ flora/ fauna etc.
- Visit to a local polluted site Urban / Rural/ Industrial/ Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystem- pond, river, Delhi Ridge etc. (Equal to 5 Lectures)

Suggested Readings:

- 1. Carson, R. 2002.Slient Spring, Houghton Mifflin Harcourt.
- 2. Gadgil , M.,& Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ.of California Press.
- 3. Glesson, B. and Low, N.(eds.)1999. Global Ethics and Environment, London, Routledge.
- 4. Gleick, P.H.1993. Water Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- 5. Groom, Martha J., Gary K.Meffe, and Carl Ronald Carroll. Principles of Conservation Biology. Sunderland: Sinauer Associates,2006.
- 6. Grumbine, R.Edward, and Pandit, M.K2013. Threats from India's Himalayas dams .Science, 339:36-37
- 7. McCully,P.1996.Rivers no more :the environmental effects of dams(pp.29-64).Zed books.
- 8. McNeill,John R.2000.Something New Under the Sun: An Environmental History of the Twentieth Century.
- 9. Odum, E.P., Odum, H.T.& Andrees, J.1971. Fundamental of Ecology. Philadelphia Saunders.
- 10. Pepper,I.L.,Gerba,C.P & Brusseau,M.L.2011.Environmental and Pollution Science. Academic Press.
- 11. Rao,M.N.& Datta,A.K1987.Waste Water Treatment. Oxford and IBH Publishing Co.Pvt.Ltd.
- 12. Raven,P.H.,Hassenzahl,D.M & Berg,L.R.2012 Environment.8th edition. John Willey & sons.

UNIVERSITY OF MADRAS U.G. DEGREE COURSE

- 13. Rosencranz, A., Divan, S., & Noble, M.L.2001. Environmental law and policy in India. Tirupathi 1992.
- 14. Sengupta,R.2003.Ecology and Economics: An approach to sustainable development.OUP
- 15. Singh,J.S.,Singh,S.P and Gupta,S.R.2014.Ecology,Environmental Science and Conservation. S.Chand Publishing, New Delhi.
- 16. Sodhi,N.S.,Gibson,L.&Raven ,P.H(eds).2013.Conservation Biology :Voices from the Tropics. John Willey & Sons.
- 17. Thapar, V.1998.Land of the Tiger: A Natural History of the Indian Subcontinent.
- 18. Warren, C.E. 1971. Biology and water Pollution Control. WB Saunders.
- 19. Willson, E.O. 2006. The Creation: An appeal to save life on earth.. New York: Norton.
- 20. World Commission on Environment and Development.1987.Our Common Future. Oxford University Press.

BSM-DSC13

CORE-XIII: FINANCIAL MANAGEMENT

YEAR: III SEMESTER: V

Inst.Hrs: 6 Credits: 4

Course Objectives

1. To impart the basics of Financial Management for the benefit of Commerce students.

2. To enable the students to know the concepts of the Investment, Financing and Working Capital.

UNIT I: Introduction

Meaning and Objectives of Financial Management - Functions of Financial Management. Finance -Importance of Finance - Sources of Finance - Role of Financial Manager in Financial Management.

UNIT II: Capital Structure

Meaning - Factors affecting Capital Structure - Planning - Theories of Capital Structure - Determining Debt Equity Proportion - Leverage Concept.

UNIT III: Cost of Capital

Definition - Cost of Equity Capital - Cost of Preference Capital - Cost of Debt - Cost of Retained Earnings - Weighted Average (or) Composite cost of capital (WACC)

UNIT IV: Dividend

Meaning - Dividend Policies - Factors affecting Dividend Payment - Provisions on Dividend Payment in Company Law - Dividend Models - Walter's Model - Gordon's Model - M.M. Model - Hypothesis Model.

UNIT V: Working Capital

Working Capital - Meaning and importance - Factors Influencing Working Capital - Determining (or) Forecasting of Working Capital requirements - W working Capital Operating cycle.

Note: Questions in Sec. A, B & C shall be in the proportion of 20:80 between Theory and Problems.

TEXT BOOK:

- 1. William R. Lasher Financial Management CENGAGE New Delhi
- 2. I.M. Pandey, Financial Management, Vikas Publishing House
- 3. Prasanna Chandra, Financial Management, Tata McGraw Hill Publications

REFERENCE BOOKS:

- 1. S.N.Maheswari, Financial Management, Sultan Chand & Sons
- 2. Y.Khanand Jain, Financial Management, Sultan Chand & Sons
- 3. P.Periyasamy.P,FinancialManagement,VijayNicoleImprintsPvt.Ltd.Chennai
- 4. Murthy A, Financial Management, Margam Publications, Chennai

E-Resources

www.cpdwise.com www.simplilearn.com www.findtutorials.com www.studyfinance.com

BGE-CSC15

CORE-XV: LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Common to BCom(MM) & BCom(ISM)

Inst.Hrs : 6 Credits : Core 4 / Elective 5 YEAR: III SEMESTER: V

Learning Objectives:

- 1. The students to gain deeper insights into logistics and supply chain management.
- 2. To highlight the integrated nature of working in logistics and supply chain industry.
- 3. To prepare students to work in logistics and allied industries.

OUTCOME

On completion of syllabus student will understand the basic concepts of logistics and supply chain management and student prepare them self to work in logistics and allied industries

UNIT I: Concepts of Logistics – Evolution – Nature and Importance – Components of Logistics Management- Competitive advantages of Logistics – Functions of Logistics management – Principles – Logistics Network- Integrated Logistics system, Supply chain management – Nature and Concepts – Value chai- Functions – Supply chain effectiveness – Outsourcing – 3PLs and 4PLs – Supply chain relationships – Customer services.

UNIT II: Elements of Logistics and Supply chain management – Inventory carrying – Ware housing, Technology in the ware house: Computerisation, Barcoding, RFID and WMS – Material handling, Concepts and Equipments: Automated Storage and Retrieval Systems – Order Processing – Transportation – Demand Forecasting – Impact of Forecasts on Logistics and Supply chain Management- Performance measurements.

UNIT III: Transportation – Position of Transportation in Logistics and Supply chain management-Road, Rail, Ocean Transport - Ships- Types- Measurement capacity of ships – shipping information, Air, Transport Multi model transport – containerization – CFS – ICDS-Cross Docking- Selection of transportation mode – Transportation Network and Decision – Insurance aspects of logistics.

UNIT IV: Logistical Information System (LIS) - Operations – Integrated IT solution for Logistics and supply chain management- Emerging technologies in Logistics and Supply chain management. Components of a logistic system-transportation-Inventory carrying-warehousing-order processing –Distribution channels- Difference between warehouse and distribution centre.

UNIT V: Performance- Bench marking for supply chain improvement- Dimensions and achieving excellence- Supply Chain Measures – SCOR model- Logistics score board- Activity Based Costing - Economic Value Added Analysis- Balance Score card approach-Lean thinking and six sigma approach in Supply Chain.

Recommended Text

- 1. John J.Coyle , C. John Langley .JR., Robert A. Novack , Brian J.Gibson Supply Chain Management A Logisticss Perspective CENGAGE , New Delhi
- 2. Joel D.Wisner, Keah Choon Tan, G.Keong Leong Principles of Supply Chain Management ABalanced Approach – CENGAGE, New Delhi

REFERENCE BOOKS:

- 1. Agarwal, D.K., 'Textbook of Logistics and Supply Chain Management', Mac Millan India Ltd, 2003.
- 2. Chase, R.B., Shankar, R and Jacobs, F.R. 'Operations Management and Supply Chain Management', McGraw Hill Publications, 13th edition, 2018.
- Chopra, S., Meindl, P. and Kalra, D.V. 'Supply Chain Management', Pearson Education India, 6th edition, 2016.
- 4. Krishnaveni Muthiah, 'Logistics Management and Seaborne Trade', Himalaya Publishing House, 2010.
- 5. Martin Christopher, 'Logistics and Supply Chain Management' Pearson Education, 2003.
- 6. Ronald H. Ballou, 'Business Logistics and Supply Chain Management' Pearson Education 2004.

E-RESOURCES:

- 1. www.managementstudyguide.com
- 2. <u>https://www.tutorialspoint.com/supply_chain_management_t</u> utorial.pdf
- 3. <u>https://www.camcode.com/asset-tags/supply-chain-management-guide/</u>
- 4. <u>https://library.ku.ac.ke/wp-</u> <u>content/downloads/2011/08/Bookboon/Magement%20andOrganisation/fundamentals-of-</u> <u>supply-chain-management.pdf</u>
- 5. <u>https://www.youtube.com/watch?v=PmR2SKeY9Ms&list=PLGit8yny_3ANzZMsJJjeux</u> <u>Mg-S0f0hGcn</u>
- 6. <u>https://www.youtube.com/watch?v=IqmrNUoiy7g&list=PLF9071540F59BA1F0</u>

BSM-DSC15

CORE-XV: SPREAD SHEET ACCOUNTING

YEAR: III SEMESTER: V

Inst.Hrs:6 Credits:4

Course Objectives

1. To introduce students to Spreadsheets as an important tool in business applications

- 2. To familiarize them with the features and functions of a spreadsheet
- 3. To introduce concepts of accounting, reporting and analysis using spreadsheets

UNIT I: Spreadsheets: A tool for thinking with numbers What is a Spreadsheet – History of Spreadsheet – Spreadsheets in Popular use (Google Spreadsheet and Microsoft Excel) – Differences between Microsoft Excel and Google Sheets –Spreadsheet Basics – Cells, Rows, Columns, Cell Coordinates – Getting Familiar with the Menus on a Spreadsheet –Edit and Format a Spreadsheet – Saving a Spreadsheet – Construct, Modify, and Format and Print a Spreadsheet

UNIT II: Spreadsheet Functions: Formulas Basic Functions – Date and Time Functions – Logical Functions - Manipulating Text using Functions – Financial and Statistical Functions – Database Functions

UNIT III: Spreadsheet Functions: Data Filter and Sort Functions – Data Validation – Conditional Filters – Pivot Tables – Group and Sub-Totals – What-if Analysis – Writing Macros (Basics) - Connect to Database (optional topic)

UNIT IV: Spreadsheet for Reporting and Analysis - Import Data Sets and Spreadsheets – Set Calculations Settings – Graphs and Charts – Using QUERY Function - Statistical Trend Analysis

UNIT V: Spreadsheet for Accounting - Create and Customize a Spreadsheet to journalize and post transactions – Preparing a Budget / Costing Sheet Template – Personal Income Tax Calculator Template

Assessment Model: 10 % Theory and 90 % Practical

Reference Books

Learning Microsoft Excel 2013, Ramesh Bangia, Khanna Book Publishing Microsoft Excel, Data Analysis and Business Modelling; Wayne L Winston; Prentice Hall Google Sheets Basics: Masato Takeda and others; TekuruInc

E-Resources

https://www.freebookkeepingaccounting.com/using-excel-in-accounts https://courses.corporatefinanceinstitute.com/courses/free-excel-crash-course-for-finance https://www.youtube.com/watch?v=Nv_Nnw01FaU

BSM-DSC16

CORE-XVI: BUSINESS ANALYTICS

YEAR: III SEMESTER: V

Inst.Hrs: 6 Credits: 4

Course Objectives

- 1. To enable students to learn the basics of business data analytics platforms
- 2. To teach quantitative analysis including sampling etc
- 3. To learn advanced statistical techniques such as multivariate analysis etc
- 4. To teach the techniques of regression analysis

UNIT I: Introduction to Data Analytics Platform - Visualizing Data - Describing and Summarizing Data - Challenges of Conventional Systems - Intelligent Data Analysis - Analytic Methodologies or Techniques Used in Logical Analysis

UNIT II: Quantitative Analysis - Sampling Methods and Estimation – Probability Distributions - Descriptive Statistics - Inferential Statistics - Hypothesis Testing, Explanatory and Predictive Models, and Fact-Based Management to Drive Decisions and Actions - Tools - Analysis vs Reporting.

UNIT III: One-Sample Tests - Two Independent Samples Tests - K Related Samples Tests - Measures of Correlation and Association - Multivariate Nonparametric Test for Interdependence - Probability and Decision Making Under Uncertainty - Normal, Binomial, Poisson, and Exponential Distributions

UNIT IV: Data Mining - Importing Data into Excel - SQL - Analysis of Variance and Experimental Design - Statistical Process Control - Statistical Reporting - Foundations, Methods, Interpretations in Excel -R - STATA - PSPP - EVIEWS - Machine Learning.

UNIT V: Regression Analysis - Estimating Relationships - Linear versus Nonlinear Relationships - Statistical Inference - Time Series Forecasting - Introduction to Optimization and Simulation Modeling – Optimization and Simulation Model - Decision Support System

REFERENCE BOOKS

- 1. Bowerman, B. (2016). Business Statistics in Practice: Using Data, Modeling, and Analytics. McGraw-Hill Higher Education
- 2. Christian Albright, Wayne L. Winston (2015). Business Analytics : Data Analysis and Decision Making 5th Edition, CENGAGE
- 3. Cliff, T. (2014). Exploratory Data Analysis in Business and Economics: An Introduction Using SPSS. Stata, and Excel: Springer, New York, New York, 215
- 4. Gert H. N. Laursen, JesperThorlund (2018). Business Analytics for Managers, 2ed: Taking Business Intelligence Beyond Reporting, Wiley
- 5. Kumar, U. D. (2017). Business Analytics the Science of Data-Driven Decision Making. Wiley
- 6. Ledolter, J. (2013). Data mining and business analytics with R. John Wiley & Sons
- 7. Jensen, C. (2017). Data Science for Business: Data Analytics Guide with Strategies and Techniques
- 8. Prasad R N and Seema Acharya (2016). Fundamentals of Business Analytics, 2ed, Wiley
- 9. Williams, S. (2016). Business intelligence strategy and Big Data analytics: a general management perspective. Morgan Kaufmann.

BGE-CSE1A

ELECTIVE-I(A): INCOMETAX LAW AND PRACTICE-I

Common to BCom(A&F) as Core, BCom(CS) as Core, BCom(BM), BCom(CA) & BCom(ISM)

Inst.Hrs : 6 Credits : Elective 5 / Core 4 YEAR: III SEMESTER: V

OBJECTIVES:

- To provide a detailed understanding of the various provisions of I.T. Act.
- To enable the students to about the Assessment Procedures and Tax Planning.

Outcome:

• The students will understand the concepts of Income tax, Types of filing and computation of tax from various head.

UNIT I: INTRODUCTION

Meaning of Income – Features of Income Tax – Types – Important Definitions Under the Income Tax Act – Assessee – Types – Rates of Tax – Residential Status – Scope of Total Income –Incomes Exempt from tax.

UNIT II: Income from Salary

Definition – Allowances – Valuation of perquisites – Deductions from Salary – Gratuity – Pension – Commutation of Pension – Leave Salary – Profits in lieu of Salary - Provident Funds – Deductions under Sec. 80.

UNIT III: Income from House Property

Annual Value – Meaning and Computation – Deductions from Annual Value – Legal Provisions.

UNIT IV: Profits and Gains from Business or Profession

Income from Business or Profession – Allowable expenses – Not allowable expenses - General deductions – Provisions relating to Depreciation – Deemed Business Profits - Undisclosed incomes – Investments – Compulsory maintenance of Books of accounts – Audit of Accounts of certain persons – Special provisions for Computing Incomes on estimated basis – Computation of Income from Business or Profession.

UNIT V: E-filing & Submission of Returns

E-filing – Concept – Procedure - 26AS – TDS – Traces – Filing of Return – Various Returns – Permanent Account Number (PAN) – Usage of PAN – Concept of Transfer Pricing - Fundamentals.

<u>Note</u>: Questions in Sec. A, B & C shall be in the proportion of 20:80 between Theory and Problems.

TEXT BOOKS:

- 1. Naveen Mittal Peinciples of Income Tax Law & Practice Cengage New Delhi
- 2. T. Srinivasan Income Tax & Practice Vijay Nicole Imprints Private Limited, Chennai
- 3. Vinod, K.Singhania, Students Guide to IncomeTax, Taxman Publications Pvt. Ltd.
- 4. Mehrotra- Income Tax Law&Accounts, Goyal, Sathiya Bhavan Publications.

REFERENCE BOOKS:

- 1. Gaur & Narang, Income Tax Law & Practice, Kalyani Publishers.
- 2. Reddy,T.S. & Hariprasad Reddy, Y, Income Tax Theory, Law & Practice, Margham Publications, Chennai.
- 3. Murthy.A, Income Tax Law & Practice, Vijay Nicole Imprints Pvt.Ltd.Chennai
- 4. Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai

WEB REFERENCE:

- 1. www.incometaxindia.gov.in
- 2. <u>www.incometaxindiaefiling.gov.in</u>
- 3. www.onlineservices.tin.egov-nsdl.com
- 4. <u>www.cleartax.in</u>

BGE-CSE3B

ELECTIVE-III(B): PORTFOLIO MANAGEMENT

Common to BCom(A&F) as V-Sem.Elective, BCom(BM), BCom(CA) & BCom(ISM)

Inst.Hrs: 6 Credits: 5

ÝEAR: III SEMESTER: VI

OBJECTIVES

To acclimate the students on the concept of Portfolio Management.

• To facilitate the students to know the techniques of Portfolio Management.

OUTCOME

• On completion of syllabus student will understand the basic concepts of Portfolio Management and the techniques of Portfolio Management.

UNIT I: Introduction

Portfolio - Meaning - Objectives - Terms relating to Portfolio - Securities - Risk - Return - Introduction to Portfolio Management - Role of Portfolio Managers.

UNIT II: Value of Money

Time value- Computation of Present Value Interest Factor(PVIF), Future Value Interest Factor(FVIF), Present Value Interest Factor at an Annuity(PVIFA) - Future Value Interest Factor at an Annuity (FVIFA) Simple Problems relating to it.

UNIT III: Portfolio Analysis

Planning – Selection – Evaluation – Revision -Various Steps involved in Protfolio Development Theories relating to Portfolio Analysis.

UNIT IV: Risk & Return

Interpretation of Risk & Return – Mean – Variance Analysis - B(Beta) Measures. Portfolio Diversification – Bond Valuation.

UNIT V: Need and Importance of Portfolio Management

Portfolio Management Vs Wealth Management – Introduction to Derivatives – Futures Options – Swaps – SEBI Regulations relating to Portfolio Operations.

Note: Questions in Sec.A, B & C shall be in the proportion of 80:20 between Theory and Problems.

TEXT BOOK:

- 1. Francis-Management of Investments, McGraw Hill.
- 2. Gurusamy S, Security Analysis and Portfolio Management, Vijay Nicole Imprints, Chennai

REFERENCE BOOKS:

- 1. V.K. Bhalla- Investment Management, S Chand & Co
- 2. Fisher & Jordan-Security Analysis & Portfolio Management, prentice Hall
- 3. Punithaathi Pandian- Security Analysis & Portfolio Management, Vikas Publishing House

WEB RESOURCE:

- 1. <u>www.portfoliomanagement.in</u>
- 2. www.sebi.gov.in
- 3. <u>www.moneycontrol.com</u>
- 4. www.pms.sharekhan.com

UNIVERSITY OF MADRAS U.G. DEGREE COURSE

PART – IV - VALUE EDUCATION

<u>Common for all U.G. & Five Year Integrated Courses</u> (Effective from the Academic Year 2012 – 2013)

SYLLABUS

CREDITS: 2

III YEAR / V SEM

- **Objective**: Value are socially accepted norms to e valuate objects, persons and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who are able to face life and make it meaningful. There are different kinds of values like, ethical or moral values, doctrinal or ideological values, social values and aesthetic values. Values can be defined as broad preferences concerning appropriate courses of action or outcomes. As such, values reflect a person's sense of right and wrong or what "ought" to be. There are representative values like, "Equal rights for all", "Excellence deserves admiration". "People should be treated with respect and dignity". Values tend to influence attitudes and behavior and help to solve common human problems. Values are related to the norms of a culture.
- **UNIT I:** Value education-its purpose and significance in the present world Value system The role of culture and civilization Holistic living balancing the outer and inner Body, Mind and Intellectual level Duties and responsibilities.
- **UNIT II:** Salient values for life Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity, and inclusiveness, Self esteem and self confidence, punctuality Time, task and resource management Problem solving and decision making skills Interpersonal and Intra personal relationship Team work Positive and creative thinking.
- **UNIT III:** Human Rights Universal Declaration of Human Rights Human Rights violations National Integration Peace and non-violence Dr.A P J Kalam's ten points for enlightened citizenship Social Values and Welfare of the citizen The role of media in value building.
- **UNIT IV:** Environment and Ecological balance interdependence of all beings living and non-living. The binding of man and nature – Environment conservation and enrichment.
- **UNIT V:** Social Evils Corruption, Cyber crime, Terrorism Alcoholism, Drug addiction Dowry Domestic violence untouchability female infanticide atrocities against women How to tackle them.

UNIVERSITY OF MADRAS U.G. DEGREE COURSE

Books for Reference :

- 1. M.G. Chitakra: Education and Human Values, A.P.H. Publishing Corporation, New Delhi, 2003.
- Chakravarthy, S.K: Values and ethics for Organizations: Theory and Practice, Oxford University Press, New Delhi, 1999.
- Satchidananda, M.K: Ethics, Education, Indian Unity and Culture, Ajantha Publications, Delhi, 1991.
- Das, M.S. & Gupta, V.K.: Social Values among Young adults: A changing Scenario, M.D. Publications, New Delhi, 1995.
- 5. Bandiste, D.D.: Humanist Values: A Source Book, B.R. Publishing Corporation, Delhi, 1999.
- 6. Ruhela, S.P.: Human Values and education, Sterling Publications, New Delhi, 1986.
- 7. Kaul, G.N.: Values and Education in Independent Indian, Associated Publishers, Mumbai, 1975.
- 8. NCERT, Education in Values, New Delhi, 1992.
- Swami Budhananda (1983) How to Build Character A Primer : Rmakrishna Mission, New Delhi.
- 10. A Culture Heritage of India (4 Vols.), Bharatiya Vidya Bhuvan, Bombay, (Selected Chapters only)
- 11. For Life, For the future : Reserves and Remains UNESCO Publication.
- 12. Values, A Vedanta Kesari Presentation, Sri Ramakrishna Math, Chennai, 1996.
- 13. Swami Vivekananda, Youth and Modern India, Ramakrishna Mission, Chennai.
- 14. Swami Vivekananda, Call to the Youth for Nation Building, Advaita Ashrama, Calcutta.
- 15. Awakening Indians to India, Chinmayananda Mission, 2003.

BSM-DSC17

CORE-XVII: SOFTWARE PROJECT MANAGEMENT

Inst.Hrs:6 Credits:4 YEAR: III SEMESTER: VI

Course Objectives

1. To enable the students to learn about the software relating to project management

2. To teach the students the selection of appropriate project approaches

UNIT I

Introduction to Software Project Management Software project versus other types of project - problems - management control - stakeholders - Requirement specifications - Information and control in organizations. Introduction to step wise project planning - Select - identify scope and objectives - identify project infrastructure - Analyse project characteristics - products and activities - Estimate effort for each activity - Identify activity risks - Allocate resources - Review / publicise plan - Execute plan and lower levels of plarming. Project evaluation - Introduction - Strategic assessment - technical assessment - cost benefit analysis - cash flow forecasting - cost benefit evaluation techniques - risk evaluation.

UNIT II

Selection of an appropriate project approach - choosing technologies - technical plan contents list - choice of process models - structured methods - rapid application development - waterfall model - v - process model - spiral model - software prototyping - ways of categorizing prototypes - tools - incremental delivery - selecting process model - Software effort estimation introduction - where - problems with over and under estimates - basis for software estimating software effort estimation technique - expert judgment - Albercht function point analysis -Function points Mark II - Object points - procedural code oriented approach - COCOMO -Activity Planning - Objectives - Project schedules - projects and activities - sequencing and scheduling activities - network planning models - formulating a network model - using dummy activities - representing lagged activities adding time dimentions - forward pass - backward pass - identifying the critical path - Activity float - shortening project duration - identifying critical activities - precedence networks.

UNIT III

Risk Management - nature of risk - managing - identification - analysis - reducing - evaluating - z values. Resources allocation - nature of resources - requirements - scheduling - critical paths - counting the cost - resources schedule - cost schedule - scheduling sequence. Monitoring and control - creating the frame work - collecting the data - visualizing the progress - cost monitoring - earned value - prioritizing monitoring - Change control.

UNIT IV

Managing contracts - types of contract - stages in contract placement - terms of a contract - contract management - acceptance. Managing people and organizing teams - organizational behaviour background - selecting the right person for the job - instruction in the best methods - motivation - decision making - leadership - organizational structures. Software quality -

importance - defining - 1S09126 practical measures - product versus process quality management - external standards - techniques to help enhance software quality.

UNIT V

Small projects - some problems - contact of a project plan. PRINCE 2 - an overview BS 6079: 1996 - an overview - Euro method an overview.

REFERENCE BOOKS

1. Bob Hughes and Mike Cotterell-Software project management-second edition-McGraw Hill

2. Walker Royce - Software Project Management - Addison Wesley.

BGE-CSC18

CORE-XVIII: MANAGEMENT ACCOUNTING Common to BCom(A&F), BCom(CS), BCom(BM), BCom(MM), BCom(CA) & BCom(ISM)

Inst.Hrs:6 Credits:4 YEAR: III SEMESTER: VI

OBJECTIVES

- To enable the students to get knowledge about the various techniques of Management Principles.
- To make the students to get practical skill in solving management problems.

OUTCOME:

- Understand the primary purpose of management accounting namely financial statement analysis and budgetary control
- Develop and apply budget for planning and controlling purpose.

UNIT I: Introduction

Management Accounting - Meaning- Scope- Importance- Limitations - Management Accounting Vs Cost Accounting – Management Accounting Vs Financial Accounting.

UNIT II: Financial Statement Analysis

Analysis and Interpretation of Financial Statements – Nature and Significance – Types of Financial Analysis – Tools of Analysis – Comparative Statements – Common size Statement – Trend Analysis.

UNIT III: Ratio Analysis

Meaning – Advantages – Limitations – Types of Ratios – Liquidity Ratios – Profitability Ratios Turnover Ratios – Capital Structure Ratios – Leverage Ratios – Calculation of Ratios.

UNIT IV: Fund Flow Analysis & Cash Flow Analysis

Introduction, Meaning of Funds Flow Statement-Ascertainment of flow of funds- Technique of preparing funds flow statement- Schedule of Changes in Working Capital- Adjusted Profit and Loss account-Funds Flow Statement

Meaning of Cash Flow Statements – Advantages – Limitations – Preparation of Cash Flow Statement – Types of Cash flows - Operating, Financing and Investing Cash flows.

UNITV: Budgetary Control & Marginal Costing

Budgetary Control – Meaning – Preparation of various Budgets – Cash Budget - Flexible Budget – Production Budget – Sales Budget. Capital Expenditure Control - Application of Marginal Costing in Decision Making – Make or Buy –Shut down or Continue – Exploring New Markets.

Note: Questions in Sec. A, B & C shall be in the proportion of 20:80 between Theory and Problems.

TEXT BOOK:

- 1. Rajiv Kumar Goel , Ishaan Goel Concepts Building Approach to management Accounting –CENGAGE New Delhi
- 2. Drury Management and Cost Accounting with CourseMate
- 3. Maheswari, S.N., Management Accounting, Sultan Chand & Sons

REFERENCE BOOKS:

- 1. MurthyA and Gurusamy S, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai
- 2. Charles T. Horngren and Gary Sundem, N, Introduction to Management Accounting, Prentice Hall
- 3. Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers
- 4. Reddy, T.S. & Dr. Hariprasad Reddy, Y, Management Accounting, Margham Publications, Chennai.
- 5. Hansen Mowen, Cost Management Accounting and Control, South Western College

WEB REFERENCE:

- 1. www.accountingcoach.com
- 2. <u>www.accountingstudyguide.com</u>
- 3. <u>www.futureaccountant.com</u>
- 4. <u>www.thestudentcpa.com</u>

BGE-CSC19

CORE-XIX: ENTREPRENEURIAL DEVELOPMENT

Common to BCom(A&F) as Elective, BCom(CS), BCom(BM), BCom(MM) & BCom(ISM)

Inst.Hrs : 6 Credits : Core 4 / Elective 5 YEAR: III SEMESTER: VI

Course Objectives:

- 1. To enable the students to understand the concept of Entrepreneurship and to learn the professional behavior expected of an entrepreneur.
- 2. To identify significant changes and trends which create business opportunities and to analyze the environment for potential business opportunities.
- 3. To provide conceptual exposure on converting idea to a successful entrepreneurial firm.

OUTCOME

On completion of syllabus student will understand on the basic concepts of entrepreneurship and business opportunities to familiars with knowledge about business and project reports for starting a new ventures on team based.

UNIT I: Entrepreneurship

Entrepreneur : Meaning of entrepreneurship – Types of Entrepreneurship – Traits of entrepreneurship – Factors promoting entrepreneurship- Barriers to entrepreneurship- the entrepreneurial culture- Stages in entrepreneurial process – Women entrepreneurship and economic development- SHG.

UNIT II: Developing Successful Business Ideas

Recognizing opportunities – trend analysis – generating ideas – Brainstorming, Focus Groups, Surveys, Customer advisory boards, Day in the life research – Encouraging focal point for ideas and creativity at a firm level-Protecting ideas from being lost or stolen – Patents and IPR.

UNIT III: Opportunity Identification and Evaluation

Opportunity identification and product/service selection – Generation and screening the project ideas – Market analysis, Technical analysis, Cost benefit analysis and network analysis- Project formulation – Assessment of project feasibility- Dealing with basic and initial problems of setting up of Enterprises.

UNIT IV: Business Planning Process

Meaning of business plan- Business plan process- Advantages of business planning- preparing a model project report for starting a new venture (Team-based project work).

UNIT V: Funding

Sources of Finance- Venture capital- Venture capital process- Business angles- Commercial banks- Government Grants and Schemes.

TEXT BOOKS:

- 1. Reddy, Entrepreneurship: Text & Cases Cengage, New Delhi.
- 2. Kuratko/rao, Entrepreneurship: a south asian perpective.- Cengage, New Delhi.
- 3. Leach/Melicher, Entrepreneurial Finance Cengage., New Delhi.
- 4. K.Sundar Entrepreneurship Development Vijay Nicole Imprints private Limited
- 5. Khanka S.S., Entrepreneurial Development, S.Chand & Co. Ltd., New Delhi, 2001.
- 6. Sangeeta Sharma, Entrepreneurship Development, PHI Learning Pvt. Ltd., 2016.

REFERENCE BOOKS:

- 1. Barringer, B., Entrepreneurship: Successfully Launching New Ventures, 3rd Edition, Pearson, 2011.
- 2. Bessant, J., and Tidd, J., Innovation and Entrepreneurship, 2nd Edition, John Wiley &Sons, 2011.
- 3. Desai, V., Small Scale Industries and Entrepreneurship, Himalaya Publishing House, 2011.
- 4. Donald, F.K., Entrepreneurship- Theory, Process and Practice, 9th Edition, Cengage Learning, 2014.
- 5. Hirsch, R.D., Peters, M. and Shepherd, D., Entrepreneurship, 6th Edition, Tata McGraw-Hill Education Pvt.Ltd., 2006.
- 6. Mathew, J.M., Entrepreneurship Theory at Cross Roads: Paradigms and Praxis, 2nd Edition, Dream Tech, 2006.
- 7. Morse, E., and Mitchell, R., Cases in Entrepreneurship: The Venture Creation Process, Sage South Asia, 2008.
- 8. Nagendra and Manjunath, V.S., Entrepreneurship and Management, Pearson, 2010.
- 9. Reddy, N., Entrepreneurship: Text and Cases, Cengage Learning, 2010.
- 10. Roy, R., Entrepreneurship, 2nd Edition, Oxford University Press, 2011.
- 11. Stokes, D., and Wilson, N., Small Business Management and entrepreneurship, 6th Edition, Cengage Learning, 2010.

E-RESOURCES:

- 1. http://inventors.about.com/od/entrepreneur/
- 2. http://learnthat.com/tag/entrepreneurship/
- 3. <u>www.managementstudyguide.com</u>
- 4. <u>www.quintcareers.com</u>
- 5. <u>www.entrepreneur.com</u>

BSM-DSE2A

ELECTIVE-II(A): APPLIED E-COMMERCE

YEAR: III SEMESTER: V

Inst.Hrs: 6 Credits: 5

Course Objectives

- 1. To enable the students to learn the basics of electronic commerce
- 2. To introduce students on essential knowledge on Network Infrastructure
- 3. To enable the students to gain applications knowledge on electronic commerce
- 4. To enable the students to gain essential knowledge on directory services and Cyber laws

UNIT I: Introduction to e-Commerce: Electronic Commerce and its Benefits– Impact of Electronic Commerce – Classification of Electronic Commerce – Applications of Electronic Commerce Technologies – Business Models – Architectural Framework

UNIT II: Network Infrastructure: Network Infrastructure – Local Area Networks – Wide Area Network – Intranet, Extranet and Internet – TCP/IP Reference Model – Domain Name Systems – Internet Industry Structure. Information Distribution and Messaging: File Transfer Protocol Applications – Electronic Main – World Wide Web Server – HTTP – Web servers Implementations.

UNIT III: Consumer Oriented Applications: Consumer Oriented Application, Mercantile Models from the Consumer's perspective – Types of Electronic Payment System, Digital Token based Electronic Payment Systems, Smart Cards Electronic Payments, and Designing Electronic Payment system.

UNIT IV: Securing the Business on Internet: Security Policy, Procedures and Practices – Site Security – Protecting the Network – Firewalls – Securing the Web Service - Security Network Transaction – Transaction Security – Cryptology – Cryptology Algorithms –Public Key Algorithm – Authentication Protocols – Digital Signatures – Electronic Mail Security – Security Protocols for Web Commerce.

UNIT V: Search Engines and Directory Services: Search Engines and Directory Services – Information Directories – Internet Advertising – Electronic commerce Applications - Cyber Law – Introduction – Concept of Cyberspace – Cyber Law in electronic commerce contract Aspects – Electronic Governance – Drupal Note: Question paper shall cover 100 % Theory

REFERENCE BOOKS

- 1. Bhasker, B. (2017). Electronic Commerce Framework, Technologies and Applications. New Delhi: McGraw Hill Educations.
- **2.** Jaiswal.S. (2000). E-Commerce IElectronic Communication for Business). New Delhi: Galgotia Publications Pvt. Ltd.
- **3.** Kalakota, R., & Whinston, A. B. (2002). Frontiers of Electronic Commerce. New Delhi: Pearson Education India.
- 4. Rayudu, C. (2010). E-Commerce and E-Business. Mumbai: Himalaya Publishing House

- **5.** Rayport, & Jaworeski, B. J. (2009). Introduction to E-Commerce. Noida , UP: McGraw Hill Publishing Company Limited.
- 6. Tomasi, W. (2008). Electronic Communication Systems Fundamentals Through Advanced. New Delhi: Pearson Education
- 7. Viswanathan, S. (2012). The Indian Cyber Law. New Delhi: Bharat Law House

BSM-DSE2B

ELECTIVE-II(B): WEB TECHNOLOGY THEORY AND PRACTICALS

Inst.Hrs:6 Credits:5 YEAR: III SEMESTER: VI

Course Objectives

• To give knowledge of creating static and dynamic web pages.

UNIT – I

Internet Basic – Introduction to HTML – List – Creating Table – linking document – frames – graphics to HTML Doc- Creating simple static pages.

UNIT – II

Introduction to JavaScript – Advantage of Java script – java script syntax – Data type – variable – array – operator and expression – looping constructor – function – Dialog box

UNIT – III

JavaScript document object model – introduction – object in HTML – event handling – window object – browser object – form object – navigator object – build in object – cookies.

$\mathbf{UNIT} - \mathbf{IV}$

ASP.NET: Language Structure – page structure – page event, properties - compiler directives. HTML server controls – Anchor, Tables, Forms - Basic Web server controls – label, textbox, button, image, links, check & radio button, hyperlink.

$\mathbf{UNIT} - \mathbf{V}$

Request and Response objects - Working with data – OLEDB connection class, Command class Transaction class, data adaptor class, data set class.

Security: Authentication, IP Address, Secure by SSL & Client Certificates.

BOOKS FOR STUDY AND REFERENCE:

- 1. I. Bayross, Web Enable Commercial Application Development Using HTML, DHTML, javascript, Perl CGL. BPB Publications, 2000.
- 2. G. Buczek, ASP.NET Developers Guide, TMH, 2002
- 3. A.Russell Jones, Mastering Active Server Pages 3, BPB Publications.

HTML, JAVA SCRIPT and ASP.NET

- 1. Creation of a personal web page (with links)
- 2. Preparation of a bio data
- 3. Prepare a train time table using row/column span
- 4. Create an array of 10 elements and display it.
- 5. Write a program outputs the squares, roots and cubes of integers between 1 and 100
- 6. Read a string and looks it character by character.
- 7. Design a Simple calculator.
- 8. Create a web form for a library application with necessary controls.

Note: The practical examination will be conducted by an internal examiner and an external examiner jointly.

BGE-CSE2A

ELECTIVE-II(A): INCOMETAX LAW AND PRACTICE-II

Common to BCom(A&F) as Core, BCom(CS) as Core, BCom(BM), BCom(CA) & BCom(ISM)

Inst.Hrs : 6 Credits : Elective 5 / Core 4 YEAR: III SEMESTER: VI

OBJECTIVES

To help the students to understand the relevance and significance of Tax.

• To facilitate the students in understanding the various Provisions I.T. Act.

OUTCOME:

• The students will understand the procedure for computing taxable income from different heads, clubbing of income, Setoff and carry forward of losses and Deductions applicable to an individual.

UNIT I: Income from Capital Gain

Capital Gain – Meaning – Short term and Long term Capital Gains – Certain Transactions not included as transfer – Cost of Acquisition – Cost of Improvement – Indexation – Capital Gain under different circumstances – Exempted Capital Gains – Computation of Capital Gains.

UNIT II: Income from other sources

Computation – Grossing up – Deductions in Computing Income under the head and other related provisions.

UNIT III: Clubbing of Incomes and Set off / Carry forward and Set – Off of losses Clubbing of Incomes under various situations – Deemed Incomes – Simple Problems on clubbing of incomes – Setoff – Carry forward and set off of losses.

UNIT IV: Deductions from Gross Income

Permissible Deductions from Gross Total Income Sec.80C, 80CCC, 80CCCD, 80D, 80DD, 80DDB, 80E, 80G, 80GGA, 80QQB, 80RRB, 80U. Assessment of Individual – Computation of Tax.

UNIT V: Income Tax Authorities and Procedure of Assessment

Income Tax Authorities – Powers of the Central Board of Direct Taxes (CBDT), Commissioners of Income Tax and Income Tax officers. Assessment Procedures - Self Assessment – Best Judgement Assessment – Income Escaping Assessment (Reassessment)-Advance Payment of Tax – Meaning and Due dates.

TEXT BOOKS:

- 1. Naveen Mittal Peinciples of Income Tax Law & Practice Cengage New Delhi
- 2. T. Srinivasan Income Tax & Practice Vijay Nicole Imprints Private Limited , Chennai

REFERENCE BOOKS:

- 1. Vinod, K. Singhania, Students Guide to Income Tax, Taxman Publications Pvt. Ltd.
- 2. Mehrotra- Income Tax Law & Accounts, Goyal, Sathiya Bhavan Publications.
- 3. Gaur & Narang, Income Tax Law & Practice, Kalyani Publishers.
- 4. Murthy.A, IncomeTaxLaw&Practice, Vijay Nicole Imprints Pvt.Ltd.Chennai
- 5. Hariharan N, IncomeTaxLaw&Practice, Vijay Nicole Imprints Pvt.Ltd.Chennai
- 6. Reddy, T.S.&Hariprasad Reddy, Y, Income Tax Theory, Law&Practice, Margham Publications, Chennai.

WEB RESOURCE:

- 1. <u>www.incometaxindia.gov.in</u>
- 2. <u>www.incometaxindiaefiling.gov.in</u>
- 3. <u>www.onlineservices.tin.egov-nsdl.com</u>
- 4. <u>www.cleartax.in</u>

BSM-CSE3B

ELECTIVE-III(B): PROJECT WORK (GROUP)

Common to BCom(MM)

Inst.Hrs: 6 Credits: 5 YEAR: III SEMESTER: VI

A Group of 3 students will be assigned a Project in the beginning of the Final year. The Project Work shall be submitted to the College 20 days before the end of the Final year and the College has to certify the same and submit to the University 15 days prior to the commencement of the University Examinations.

The Project shall be evaluated externally. The External Examiner shall be from the Panel of Examiners suggested by the board of Studies from time to time.

Those who fail in the Project Work will have to redo the Project Work and submit to the College for External examination by the University.
