

Dr.G.R.D.COLLEGE OF SCIENCE (AUTONOMOUS)
SCHOOL OF COMMERCE & INTERNATIONAL BUSINESS
BACHELOR OF COMMERCE (Information Technology)
 (Under Choice Based Credit System)
EFFECTIVE FROM THE ACADEMIC BATCH 2018-2021

SEM	PART	COURSE	COURSE TITLE	HOURS PER WEEK	MARKS				EXAM DURATION
					CREDITS	CA	TEF	TOTAL	
I	I	Language	Tamil I /Hindi I /French I /Malayalam I	5	3	25	75	100	3
	II	English	Contemporary English –I	6	3	25	75	100	3
	III	Core	Principles of Accounting	6	5	25	75	100	3
	III	Core	Business Economics	5	4	25	75	100	3
II	III	Core	Introduction to Information Technology	5	4	25	75	100	3
	III	Allied	Business Organization and Management	5	4	25	75	100	3
	IV	Skill Based Subject	General Awareness	1	2	25	75	100	3
III	I	Language	Tamil II /Hindi II /French II /Malayalam II	5	3	25	75	100	3
	II	English	Contemporary English –II	6	3	25	75	100	3
	III	Core	Financial Accounting	5	4	25	75	100	3
	III	Core	IT Enabled Services	6	4	25	75	100	3
	III	Allied	Lab – I MS Office and Accounting Software	4	3	40	60	100	3
	III	Skill Based Subject	E-Banking	5	4	25	75	100	3
	IV	Environmental Studies	Environmental Awareness	1	2	25	75	100	3
	IV	Basic Tamil/Advance Tamil/Non Major Elective	**Basic Tamil I/Advance Tamil I / Personality Development and Soft Skills	2	2	100	NA	100	3
	III	Core	Internet Marketing	6	5	25	75	100	3
	III	Core	Business Law	6	4	25	75	100	3
	III	Core	Visual Basic	5	5	25	75	100	3
III	Skill Based Subject	Lab – II Programming in Visual Basic	4	2	40	60	100	3	
III	Allied	Business Mathematics	6	4	25	75	100	3	
IV	Skill Based Subject	Professional Communication	4	2	25	75	100	3	
V	Extension Activities	Mini Project	2	1	*GRADE				

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(R. Gokulakrishnan)

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IV	IV	Basic Tamil/Advance Tamil/Non Major Elective	**Basic Tamil II /Advance Tamil II		2	2	100	NA	100	3
			Basics in Business Process Outsourcing	International Financial Reporting Standards						
	III	Core	4	4	4	4	25	75	100	3
	III	Core	5	4	4	4	25	75	100	3
	III	Core	4	4	4	4	40	60	100	3
	III	Core	5	4	4	4	25	25	100	3
	III	Allied	6	4	4	4	25	75	100	3
	III	Core	6	2	2	2	25	75	100	3
	IV	Value Education	2	2	2	2	25	75	100	3
V										
	III	Core	5	4	4	4	25	75	100	3
	III	Core	6	4	4	4	25	75	100	3
	III	Core	5	4	4	4	25	75	100	3
	III	Core	5	3	3	3	25	75	100	3
	III	Core	5	4	4	4	40	60	100	3
	III	Elective - I	5	2	2	2	25	75	100	3
	III	Skill Based Subject	2	2	2	2	40	60	100	3
VI										
	III	Core	6	4	4	4	25	75	100	3
	III	Core	6	4	4	4	25	75	100	3
	III	Elective - II	6	4	4	4	25	75	100	3
	III	Elective - III	6	4	4	4	25	75	100	3
	III	Skill Based Subject	6	2	2	2	25	75	100	3
		TOTAL CREDITS & MARKS		140					4100	

Extra Credits

ICICI Learning course - 6 Credits
 Business Fundamental Workshop - 4 Credits

 10 Credits

** For basic Tamil & Advanced Tamil both CA only.

*Basic Tamil II /Advance Tamil II / Business Processing and Outsourcing.

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SUBJECT CODE:

FIRST SEMESTER
Core- PRINCIPLES OF ACCOUNTING
(80% Problem, 20%Theory)

Objective:

- To define accounting concepts, conventions and rules.
- To prepare Cash books, Bill of exchange Accounts.
- To prepare consignments, Joint venture, Account current and Average due date.
- To explain capital and revenue expenditure.

UNIT I

(Teaching Hours: 15)

Fundamentals of book keeping – Accounting Concepts and Conventions – Journal and Ledger – Trial Balance- Subsidiary Books – Uses – Preparation of Subsidiary Books.

UNIT II

(Teaching Hours: 12)

Cash Book – Preparation of various types of Cash book – Bank Reconciliation Statement – Meaning – purpose- Preparation of Bank reconciliation statement – Errors – Types of Errors – Rectification of Errors.

UNIT III

(Teaching Hours: 13)

Apportionment of capital and revenue expenditure – preparation of final statements of accounts of a sole trading business.

UNIT IV

(Teaching Hours: 15)

Bills of exchange – meaning and definition – features – types- Accounting entries for Bills transactions-accommodation bills – Account current – Meaning – Procedure – product method-daily balance method -Average Due date – meaning- Determination of Due date.

UNIT V

(Teaching Hours: 15)

Accounts of non-trading concerns – receipts and payments account – income and expenditure account and balance sheet.

BOOKS RECOMMENDED:

1. Advanced Accountancy, S.P.Jain and K.L.Narang, Kalyani Publishers,
2. Introduction to accounting, T. S. Grewal, S Chand & Co.Ltd,
3. Introduction to Adv. Accounting, R. L. Gupta, V. K. Gupta,
4. Financial Accounting, Reddy Murthy, Margam Publications,
5. Advanced Accounting, S.N.Maheswari, Vikas Publication,

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SUBJECT CODE:

FIRST SEMESTER
Core- BUSINESS ECONOMICS

Objective: Define Economics and its objectives, study demand, production function and cost , study pricing of goods in perfect & its imperfect market, study monetary policy of India

UNIT-I

Teaching Hours - 13

Definition and Scope of Economics – Methodology of Economics -- Objectives of business firms - Social Responsibilities.

UNIT-II

Teaching Hours - 13

Meaning of Demand-Determinants of Demand- Law of Demand- Demand Analysis – Demand Schedule- Elasticity of Demand-Types of Elasticity of Demand (Price, Income, Cross and Advertisement)-Methods of Measuring Elasticity of Demand-Demand Forecasting – Meaning and objectives - Methods of Demand forecasting - Objectives of Demand Forecasting.

UNIT-III

Teaching Hours - 13

Production function-Factors of Production- Production functions with one variable input- Production functions with two variable inputs- Production functions with all variable inputs Law of Supply- Determinants of supply- Meaning of Cost-Types of cost- Cost and output relationship in the short run- Cost and output relationship in the long run- Economies of scale- Diseconomies of scale - Pricing Policies and methods.

UNIT-IV

Teaching Hours - 13

Market definition-Types of Market (Perfect competition, Monopoly, Monopolistic, oligopoly, Price discrimination)-Price and Output determination in Perfect and Imperfect markets - Profit – Meaning- Theories-Policies.

UNIT-V

Teaching Hours - 13

Business cycle –Meaning and different phases of business cycle - Monetary Policy of India-objectives and instrument of monetary policy Fiscal Policy of India –objectives and Instruments of fiscal policy - Recent Budget analysis.

BOOKS RECOMMENDED:

1. Principles of Economics Seth.M.L,Lakshmi Narain Agarwal Agra
2. A Text Book of Economic Theory Stonier and Hague.
3. Macro Economics, M.L Jhingan Vrinda Publications .
4. Business Economics Sankaran S Margham Publications New Delhi .
5. Business Economics - KPM Sundharam& E N Sundharam, Sulthan Chand&Sons, NewDelhi

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SUBJECT CODE:

FIRST SEMESTER

Core - INTRODUCTION TO INFORMATION TECHNOLOGY

Objective: To cater the needs of Commerce students in understanding the applications of IT in business area in such a way that they may be easily intelligible.

UNIT I

Teaching Hours - 13

Definition of computer - characteristics of computer - Importance of computer-components of computer – hardware – software - Classification of computers - based on principles of operation, purpose of application, based on size and speed. Generations of computer - I-Vth Generations - computer applications in various areas – computer related jobs in business.

UNIT II

Teaching Hours - 13

Data – Information - Data processing, data storage and data retrieval capabilities – Data representation of character in computer - Different types of data processing system, Networks - Types of Networks.

UNIT III

Teaching Hours - 13

Input devices – examples - output devices – examples - storage devices - types. Software -types. Programming Language - types. Flowchart - types of flowchart. Steps in developing a program.

UNIT IV

Teaching Hours - 13

Operating system - DOS, Windows, UNIX, Windows NT, Windows98. Internet - Features of Internet - E Mail its uses and importance – Intranet – Extranet – WWW - Mobil Computing.

UNIT V

Teaching Hours - 13

Information system security – threats & implications – security policy – biometric – facial & smart cards – firewalls – kinds of firewalls – packet filters – distributed firewalls – building firewalls (only steps)

BOOKS RECOMMENDED:

1. Computer and Commonsense Roger Hunt and John Shellery Prentice Hall of India Private LTD New Delhi
2. Using Micro Computers Brightman and Dimsdale Galgotia publications Pvt Ltd New Delhi
3. P.C.Software made Simple R.K.Taxali Tata Mcgraw- Hill Publishing Company Ltd New Delhi
4. A Text book of Information Techonology R. Saravana Kumar P.Parameswaran S. Chand & Company Ltd New Delhi

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SUBJECT CODE:

FIRST SEMESTER

Allied- BUSINESS ORGANISATION AND MANAGEMENT

Objective: To gain knowledge on business organization and managerial functions in most useful and in organized way.

UNIT I

(Teaching Hours – 15)

Business Organisation: Nature and scope of business –forms of business organization – sole trader, partnership firm, joint stock companies, co-operative societies and public enterprises – Registration procedures –requirements of various documents – bank account – service tax number – Tax Identification Number(TIN)-Permanent Account Number(PAN) – Value Added Tax(VAT) or Sales tax documents-Universal Account Number (UAN).

UNIT II

(Teaching Hours – 13)

Location of business –factors influencing location –size of firms - Business combination – Causes – Types and forms - effect of business combination – SSI – meaning, characteristics – difference between SSI and cottage industries – significance and objectives of SSI.

UNIT III

(Teaching Hours – 12)

Definition of Management - Nature and scope of Management - Functions of Management - Planning - Meaning, Nature and importance of Planning - Advantages and limitations - Steps in planning - Methods and types of Plans

UNIT IV

(Teaching Hours – 13)

Decision making - Steps in decision making - Organisation - Meaning, nature, importance and process of organisation - Principles of sound organisation - Organisation structure - Departmentation, Delegation and Decentralisation –authority relationship – directing requirements of effective directions.

UNIT V

(Teaching Hours – 12)

Motivation - Need - Maslow's theory of motivation X, Y and Z theories - Co-ordination - Need and techniques- Control - Techniques of control –leadership – styles and qualities- Staffing – meaning, importance-authority and responsibilities

BOOKS RECOMMENDED:

1. Business Management - Dinkar Pagare, Sultan chand & sons,
2. Principles of Management - T.Ramasamy, Himalaya publication house
3. Business organisation and Management - Bhusan y.k., Sultan chand & sons,
4. Fundamentals of Business Organisation and Management - Bhusan Y.K, Sultan Chand & Sons, Delhi
5. Modern Business Organisation and Management – Sherlaker SA/ sherlaker V, Himalaya Publishing house.

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SUBJECT CODE:

SECOND SEMESTER
Core - FINANCIAL ACCOUNTING
(80% Problem, 20% Theory)

Objective: To know the concepts in financial accounting.

UNIT I

Teaching Hours – 13

Depreciation – Meaning and definition-Causes of depreciation-Methods of providing depreciation-Straight line method - Written down Value Method – Annuity method- Change in method of depreciation- Reserves and Provisions-Types of reserves and Provision-Difference between reserves and Provisions.

UNIT II

Teaching Hours – 13

Self balancing ledger – Meaning and advantages – Preparation of Debtors ledger, Creditors ledger and general ledger. Fire Insurance claim: Computation of claims to be lodged for loss of stock – Average clause.

UNIT III

Teaching Hours – 13

Single Entry System – Meaning and features – Statement of affairs method and conversion Method.

UNIT IV

Teaching Hours – 13

Departmental accounts – Transfer at Cost and selling price – Branch accounts excluding foreign branches and independent branches.

UNIT V

Teaching Hours – 13

Hire Purchase System – Meaning – Features – Differences between Hire purchase and Installment system – Accounting entries in the books of Hire Purchaser and Hire Vendor- Calculation of Interest and Cash Price- Default and Repossession of Asset- Installment Purchase System.

BOOKS RECOMMENDED:

1. Advanced Accounting S.P. Jain and K.L. Narang Kalyan Publications New Delhi .
2. Advanced Accounting S.N.Maheswari
3. Advanced Accounting R.L.Gupta & Radhaswamy Sultan Chand & Sons Publications New Delhi
4. Financial Accounting T.S.Reddy & A.Murthy Margham Publications Chennai .
5. Financial Accounting - Dr S Ganesan, S R Kalavathi, Thirumalai Publication

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SUBJECT CODE:

SECOND SEMESTER
Core - IT Enabled Services

Objective: To empower the students by giving the concepts of Information Technology. It also tells about the changes in the business world in the field of IT.

Unit – I

Teaching Hours – 15

Introduction to IT- Definition- IT Enabled Services – Advantages of IT Services. **Strategic IT Planning:** Business Implications for IT Strategic and Planning, Strategic IT Planning Motivations, Program Management, Benefits of PMO, Desired Qualities of a Program Office Manager, Maturity of PMO, Implementation of PMO Strategy, Measuring PMO Performance, Success Factors for PMO, Project Scope Management, PMO Reporting.

Unit – II

Teaching Hours – 15

IT Services Portfolio: Categories of IT Services-Building services. **Strategic Foundation for IT services Business:** Strategy-Analysis Frame work of practiced strategy- **Marketing of IT Services:** New P'S for IT Service Marketing-IT Services Marketing Process. **Business Development of IT Services:** Introduction-Business Development-Process-Approach followed for business development-capabilities and skill required for business development.

Unit – III

Teaching Hours – 15

IT Service Enterprise measure and Performance - Performance management-Measuring Performance-Driving Performance-Failure to Drive Performance **-Delivery Management of IT Services:** Introduction –Planning-Execution-Governance-Delivery Management. **IT Services Quality Assurance:** Introduction-Service Quality-IT Service Quality Make business sense.

Unit-IV

Teaching Hours – 13

Creating a winning IT services Team: Introduction-Team-Certification-Work Place Environment. **Managing IT Services Enterprise Growth-**Introduction-Factors-stages. Understanding the trends.

Unit V:

Teaching Hours – 12

Marketing Information Technology-Introduction-**Classification of IT:** Product Market-Hardware Market-Software Market-Device Market. Classification of IT Service Market.

BOOKS RECOMMENDED:

1. IT Services Business Management Concepts, Processes and Practices - Dubey Sanjiva Shankar
2. IT strategy and Management by Sanjiva Shankar Dubey, PHI
3. Marketing of Information Technology, by K.Venkatesh, TMH

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SUBJECT CODE:

SECOND SEMESTER
Allied – Lab – I - MS OFFICE AND ACCOUNTING SOFTWARE

Objectives : To improve the skills in MS Office Package and tally.

Ms WORD

1. Type a word document with at least 100 words. Give a title for the passage and format the same as per the specification given below:
 - Font size, style
 - Title should be in Bold, italics, underlined
 - Set left margin to 1.5, right margin to 1.75
 - Line spacing should be doubled
 - Apply border to the passage
 - Insert date and time, page number & header & footer
2. Using mail merge prepare an interview call letter.
3. Prepare a timetable using Table Auto format in Ms Word.
4. Prepare a bio-data using Ms word using wizard.
5. Using borders & shading options prepare an invitation for your college day or for your department function.
6. Design value added web pages in Ms word that convey information about your curriculum-Hyperlink

Ms EXCEL

7. Enter your semester's marks & calculate total, average using auto sum & save the file in "MARKS".
8. Prepare an excel sheet under the main heads of assets & liabilities & do the following:
 - Select column & change the number format to Rs & Paise (00.00) format.
 - Change the particular range for cells font as bold.
 - Select a cell and change the line style.
9. With a given data prepare a payroll.
 - Basic – Rs. 6500, D.A – 40%, HRA – 12%, TA – 10%, MA – 5%, CCA – 10%, PF – 12%, Deductions – 10%.
10. With a given data draw various graphs & diagrams

During the year	Growth of viruses			
	1960	1970	1980	1990
Place				
City A	1000	2500	2900	3700
City B	1750	2750	4500	5000
City C	2000	2500	4000	3000

Ms POWER POINT

11. Prepare a PowerPoint presentation for department inaugural function.
12. Design an advertisement.
13. Prepare a power point presentation for product launch.
14. Draw an organization chart.

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SUBJECT CODE:

Ms ACCESS

15. With a given fields create a table (using design view, wizard view) in Ms access.
Register Number (Primary key), Name, Class, Mark1, Mark2, and Mark3
16. With given fields create a table in Ms Access.
Employee Number (Primary Key), Employee Name, Department, Designation.
17. Create an item table with the following structure:
Item no, item name, rate, quantity, and net price.
Find the net price for all records
Display only the item no, item name filled list for not price less than 50.
To increase the rate by Rs.100 for all records
Display all the details for item number less than 100 and quantity less than 50. Display all
the details for item name = "pen".

ACCOUNTING SOFTWARE

18. Create a Company using Tally.
19. Single Ledger - Create Assets, Liabilities, Income and Expenditure account.
20. Create accounting groups.
21. Enter some test transactions, say numbering 100 in the form of Cash Receipts, cash Payments, Bank receipts, Bank payments, Purchase Bills, Sales Invoices, Debit Note, Credit note and General Journal Vouchers.
22. Voucher Entries - Print the primary books for the same.
23. Create an opening Trial Balance and print the same.
24. Profit and Loss and Balance sheet.
25. Financial Ratio Analysis.



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SUBJECT CODE:

SECOND SEMESTER
Skilled Based Subject – E-BANKING

Objective : To understand the needs of the customer relating to E-payment systems and implement modern banking services.

Unit – I

(Teaching Hours – 13)

Evolution of Commercial Banks – Functions of Modern banks, Commercial banks, Branch Banking, Nationalized Banking. Customer Service – CRM in banking, Banker Customer relationship – General relationship.

Unit-II

(Teaching Hours – 12)

Bank Computerization – Need – Multi user system – Core Banking. Electronic Payment System – ATM – Mobile banking. Updating Bank saving accounts – Computer bank branches – Auto teller and network management systems.

Unit – III

(Teaching Hours – 13)

E- Cheque – Essential-Endorsement-crossing of cheque-Magnetic Ink Character Recognition (MICR) and Cheque – E- Banking in India – RTGS-NEFT- Cheque truncation- NSS- E-Banking structure- Component of E-Banking- E-Banking services-Advantages.

Unit-IV

(Teaching Hours – 13)

RBI-Objectives-Evolution-Electronic banking-Any time banking-Anywhere banking-Home banking- Internet banking-Electronic magnetic card. –Pay TM-BHIM App.

Unit- V

(Teaching Hours – 13)

Evolution of EET System-SWIFT-Impact of IT on banks on service quality-Human resources-Privacy and confidentiality

Text Books:

- 1 Indian Banking - S.Natarajan & R.Parameswaran, S.Chand
- 2 Banking Theory Law and Practice - Gordan and Natarajan, Himalaya Publishing House, Himalaya Publications.
- 3 Banking Theory Law Practice - Sundaram and Varshney, S.Chand and Company
- 4 Banking Law and Practice - S.N.Maheswari, Kalyani Publishers
- 5 Principles & Practices of Banking - Study material for Diploma in Banking & Finance (Macmillan Publication)

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SUBJECT CODE:

THIRD SEMESTER

Core: INTERNET MARKETING

Subject Description : Facilitates the students to learn techniques of Marketing and new trends in Marketing.

Goals : To introduce the students to the fundamentals of Marketing concepts.

Objectives : On successful completion of this course the student should have Knowledge on Basics of Marketing- Consumer Behaviour-Methods of Pricing.

UNIT I (Teaching Hours: 15)

Marketing –Definition of Market and Marketing-Importance of Marketing – Modern Marketing Concept-Global Marketing –E-Marketing – Evolution of online Marketing –Marketing Ethics – Career Opportunities in Marketing

UNIT II (Teaching Hours: 13)

Marketing Functions-Buying –Selling –Transportation –Storage – Financing – Risk Bearing – Standardization – Market Information

UNIT III (Teaching Hours: 12)

Consumer Behavior –Meaning –Need for studying Consumer Behavior- Factors influencing Consumer Behavior-Market Segmentation – Customer Relations Marketing

UNIT IV (Teaching Hours: 13)

Marketing Mix – Product Mix –Meaning of Product –Product Life Cycle – Branding Labeling- Price Mix-Importance-Pricing - Objectives - Pricing Strategies –Personal Selling and Sales Promotion -Place Mix-Importance of Channels of Distribution –Functions of Middlemen – Importance of Retail trade.

UNIT V (Teaching Hours: 12)

Marketing and Government –Bureau of Indian Standards –Agmark – Consumerism Consumer Protecting – Rights of consumers- Green Marketing –Forward Trading in Commodities

Books for Reference:

1. Marketing Management - Rajan Sexena
2. Principles of Marketing - Philip Kotler & Gary Armstrong
3. Marketing Management - V.S. Ramasamy and Namakumari
4. Marketing Management - Rajan Nair
5. Marketing - R.S.N.Pillai & Bagavathi

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SUBJECT CODE:

**THIRD SEMESTER
CORE- BUSINESS LAW**

Subject Description: This course aims the students to understand the Fundamentals of Laws relating to Commercial Activities

Goals : To enlighten the students' knowledge on the basic business law

Objectives : After the successful completion of the course the student should have a through knowledge on Law of Contract and relevant laws.

- Unit – I** (Teaching Hours: 16)
Law – Meaning – Law of Contract – Essential Elements of Valid Contract – Types of Contracts - Offer – Legal Rules relating to Offer – Acceptance – Essentials of Valid Acceptance – Revocation of Offer and Acceptance.
- Unit – II** (Teaching Hours: 15)
Consideration – Essentials of Valid Consideration – Capacity to Contract – Law relating to Minor, Unsound Mind – Persons Disqualified by Law.
- Unit – III** (Teaching Hours: 14)
Performance of Contract – Modes of Performance – Quasi-Contract – Discharge of Contract – Modes of Discharge - Remedies for Breach of Contract.
- Unit – IV** (Teaching Hours: 13)
Contract of Indemnity and Guarantee – Rights of Indemnity Holder – Rights and Liabilities of Surety.- Bailment and Pledge.
- Unit – V** (Teaching Hours: 12)
Sale of Goods Act – Sale and Agreement to Sell – Conditions and Warranties - Law of Carriage of Goods

Books for Reference:

1. N.D. Kapoor, "Business Law", Sultan Chand & Sons, New Delhi
2. R.S.N. Pillai & Bagavathi, "Business Law" S.Chand, New Delhi .
3. Arun Kumar Sen,"Commercial Law", The world press pvt Ltd, Calcutta
4. Arun Kumar Sen, Jitendra Kumar, Mitra," Commercial Law", The World Press Pvt Ltd, Calcutta

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SUBJECT CODE:

THIRD SEMESTER
Core – VISUAL BASIC

Objective: To know how to create GUI based programming applications using various options available in Visual Basic Programming.

UNIT I

Teaching Hours: 10

VB fundamentals: Getting started – The Visual basic Environment – Customizing a Form.

First Step in Programming: The code window, variables, data types, constants, strings, Numbers, statements in Visual Basic: The comment and the end statement.

UNIT II

Teaching Hours: 15

First steps in building the user interface: The tool box – creating controls – the name property – Properties of Command Button – Simple event procedures for command buttons – Access keys – Image controls – Text boxes – Labels – Navigating between controls – Message boxes – the grid – Picture box – Rich text box

UNIT III

Teaching Hours: 10

Organizing Information via controls: Control arrays – List and combo boxes – Flex grid controls. Controlling Program Flow: Determinant Loops – Indeterminate Loops – Making decisions – Select case – Nested If then's – The GOTO statement

UNIT IV

Teaching Hours: 15

Built-in Functions: String functions – Numeric Functions – Date and Time functions – Financial functions. Functions and procedures: Function procedures and Sub-procedures

UNIT V

Teaching Hours: 15

The tool box revisited: Frames – Option buttons – Check boxes – scrollbars – timers – Microsoft Windows Common Controls 6.0: Image list control – List view control – Progress bar control – Slider control – status bar control – menus – MDI forms.

BOOK RECOMMENDED:

1. Visual Basic 6 from the Ground up, Gary Cornell, ,Tata MC Graw Hill, New Delhi..
2. Using Visual basic, Siler Brian , Prentice Hall of India Pvt Ltd, New Delhi.
3. Mastering Visual basic, Petroustos, Evangelo's
4. Visual basic developers Guide, Jerke Noel, BPB Publications, New Delhi.

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SUBJECT CODE:

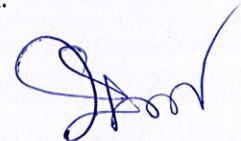
THIRD SEMESTER

Skill Based Subject – LAB – II PROGRAMMING IN VISUAL BASIC

Objective: To know about the how the create real time programming concepts with the help of available tools in Visual Basic Programming Language.

VISUAL BASIC

1. Write a program in Visual Basic to find the factorial value of a given number using function
2. Write a Visual Basic coding to calculate the amount of electricity (units) consumed by the user
3. Write a program in Visual Basic to calculate the total and average of any given student.
4. Write a program in Visual Basic to calculate the net pay of any given employee.
5. Write a Visual Basic coding to calculate total earnings of a worker using Halsey and Rowan Plan.
6. Write a program in Visual Basic to create a calculator.
7. Write a program in Visual Basic to convert the decimal number to decimal, octal, hexadecimal.
8. Write a program in Visual Basic to calculate the length of a string, mid value of the string, Instr and replacement of the given string.
9. Write a program in Visual Basic to draw a circle using the GUI concept.
10. Write a program in Visual Basic to calculate the parking charges for a vehicle using linking of forms.
11. Write a program in Visual Basic to open a existing file in the drives and directory's.
12. Write a program in Visual Basic to scroll the text as per the users click.



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SUBJECT CODE:

THIRD SEMESTER
Allied-BUSINESS MATHEMATICS

(80% Problem, 20% Theory)

Objective: To gain knowledge about the computations of numerical aspects related to business.

Unit I: (Teaching Hours: 15)

Matrix - Basic Concepts-Addition and Multiplication of matrices-Inverse of matrix-Rank of a Matrix- determinants of a matrix -solution of Simultaneous linear equations – Cramer's rule and matrix method.

Unit II: (Teaching Hours: 15)

Simple and Compound Interest-Present value. Discounting of bills-True Discount-Bankers discount -Bankers Gain-Annuities.

Unit III: (Teaching Hours: 15)

Operations Research- Meaning, Scope and Limitations-Linear programming problem-Formulation- Canonical & standard forms of L.P.P-solution by Graphical method-solution by Simplex method (Basic problems only).

Unit IV: (Teaching Hours: 12)

Network Analysis-Introduction-Basic concepts-Rules of Network Construction- Critical Path Analysis(CPM)- Project Evaluation and Review Technique (PERT)- Probability Considerations in PERT- Distinction Between PERT and CPM

Unit V: (Teaching Hours: 13)

Transportation Problem-Introduction-matrix form of T.P-The transportation Table- balanced and unbalanced - NWC, LCM, VAM (Problems in IBFS only) -The assignment problem –the assignment algorithm-unbalanced assignment problem – Hungarian Method.

Books for reference:

1. P. A Navinitham -Business Mathematics, Jai Publications, Trichy,
2. Dr.P.R. Vittal -Business Mathematics, Margham Publications, Chennai,
3. Kanti Swarup P.K.Gupta and Man Mohan - Operations Research, Sultan Chand & Sons, New Delhi,
4. P.Mariappan -Operation Research methods, New Century Book Pvt Ltd, Chennai,
5. J.K.Sharma – Operations Research Theory and Applications, Vikas Publishing house .

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SUBJECT CODE:

THIRD SEMESTER
Skill based subject –PROFESSIONAL COMMUNICATION

Objective: To develop ability to communicate clearly, on matters having relevance to day-to-day business operations.

UNIT-I

Teaching Hours - 13

Communication - Definition - Types and patterns of communication - Spoken communication - Written communication - Non-verbal communication - Audio-visual communication and Multimedia communication - Objectives of communication - Horizontal communication - Upward communication - Barriers to communication.

UNIT-II

Teaching Hours – 13

Business Letter – Characteristics - Organization, Structure and Layout of a business letter. Letter of Enquiries and Replies, Offers and quotations - Credit and Status Enquiries - Complaints, Claims and adjustments.

UNIT-III

Teaching Hours – 13

Sales Letters – Circulars. Bank Correspondence. Life Insurance Correspondence. Collection letters – Correspondence of a Company Secretary. Report writing – classification – characteristics of Good report.

UNIT-IV

Teaching Hours – 13

Assertive / Positive communication - Assertive training: Negotiation and Compromise - Allophones: accent for grammar for effective speaking - Speaking skills: active listening - listening and responding - Four basic reasoning skills.

UNIT-V

Teaching Hours - 13

Positive resume active verbs - Positive indicators – Interpersonal gestures - Intra & Interpersonal skills - Interpersonal communicational ethics.

(LAB PRACTICAL ONLY)

Career strokes: Online practical modules: Communication skills – Group discussion – Interviews – Team work – Time management – Business awareness

BOOKS RECOMMENDED:

1. Business Communication - Dr. K.K. Ramachandran Vikas Publishing house, New Delhi.
2. Essentials of Business Communication - Rajendra Pal & J.S.Korlahalli Sultan Chand and Sons New Delhi .
3. Business Communication - R.K.Madhukar Vikas Publishing House New Delhi.
4. Business Communication - R.C.Bhatia Ane Books New Delhi.
5. Communication for Business - Shisley Taylor, Pearson

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SUBJECT CODE:

FOURTH SEMESTER

Core- INTERNATIONAL FINANCIAL REPORTING STANDARDS

Objective:

To develop in the Public interest a single set of high quality, understandable, enforceable and globally accepted financial reporting standards based upon clearly articulated principles.

Unit –I: IASB and IFRS

Teaching hours: 15

Structure of the IFRS/IASB-Extant standards of the IASB-The Frame work-The status of IFRSs around the world-The Use of IFRS around the World-The IASB road map-The Annual IASB bound volume and its use-Principal difference between Indian GAAP and IFRS-Proposal for change

Unit –II : PRESENTATION AND REPORT:

Teaching hours: 10

IAS 1 : Presentation of financial statements-IFRS 15:Revenue from Contracts with customers-IAS 8: Accounting Policies ,change in accounting estimates and errors.

Unit –III ACCOUNTING FOR ASSETS AND LIABILITIES: Teaching hours: 15

IAS 16: Property plant and equipment-IAS 38 :Intangible assets-IAS 40:Investment Property –IAS 36:Impairment and assets-IAS 23:Borrowing Costs-IAS 20:Accounting for government grants and disclosure of government assistance-IAS2:Inventories-IAS 17:Leases-IFRS 5:Non-Current assets held for sale and discontinued operations-IFRS 13:Fair Value Measurement-IFRS 32:Financial instruments – Presentation-IFRS 9:Financial instruments-IFRS 7: :Financial instruments: disclosures-IFRS 2:Share – based payments-IAS 37:Provisions,contingent liabilities and contingent assets-IAS 10:Events after the reporting peered-IAS 19:Employee benefits-IAS 12:Income taxes-IAS 41:Agriculture-IFRS 6:Exploration for and evaluation of mineral resources.

Unit –IV: GROUP ACCOUNTING

Teaching hours: 15

IFRS 10:Consolidated financial statements-IAS 27 (revised 2011):Separate financial statements-IFRS 3:Business combinations –IAS 28 27 (revised 2011):Investment in associates and joint ventures-IFRS 11:Joint arrangements-IFRS 12:disclosure of interest in other entities-IAS 21:The effects of changes in foreign exchange rates-IAS 29:Financial reporting in hyperinflationary economies.

Unit –V: DISCLOSURE STANDARDS:

Teaching hours: 15

IAS 7: Statement of cash flows-IAS 24: Related party disclosures-IAS 33: Earnings per share-IAS 34: Interim financial reporting-IFRS 4: Insurance contracts-IFRS 1: First time adoption of IFS-IFRS 8- Operating segments.

Recommended books

- 1).International Financial Reporting Standards: A Practical Guide By Hennie van Greuning, Darrel Scott, Simonet Terblanche-World bank (ISBN 9780821384282).
- 2) Understanding IFRS Fundamentals: International Financial Reporting Standards By Nandakumar Ankarath, Kalpesh J. Mehta, T. P. Ghosh, Yass A. Alkafaji,WILEY Publications.(ISBN 780470399149)
- 3) International Financial Reporting Standards: An Introduction By Belverd E. Needles, Marian Powers-Cengage Learning.(ISBN 9781133187943)

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SUBJECT CODE:

FOURTH SEMESTER
Core-COST ACCOUNTING
(60% Problem, 40% Theory)

Objective: To study the objective of cost accounting and accounting techniques like EOQ, ABC analysis, etc.

UNIT I

(Teaching Hours – 15)

Cost Accounting - Definition, meaning and objectives-scope - Relationship of Cost accounting with financial accounting -advantages and importance- methods of costing – cost term –concept. Elements of cost, preparation of cost sheet and tender

UNIT II

(Teaching Hours – 15)

Materials - Purchasing of materials, procedure and documentation involved in purchasing - requisitioning for stores- methods of Valuing material issues - Maximum, minimum and reordering levels - ABC analysis-EOQ - perpetual inventory - control over wastages, scrap and spoilage,

UNIT III

(Teaching Hours – 15)

Labour - Systems of wage payment, idle time, control over idle time-labour turnover-causes of labour turnover-Overhead - Classification of overhead – Allocation and Apportionment of overhead-basis of apportionment- absorption of overhead-machine hour rate(problems relating to primary and secondary distribution).

UNIT IV

(Teaching Hours – 13)

Process costing: Features of process costing - Process losses, waste, scrap, normal process loss, abnormal process loss, and abnormal gain (excluding equivalent production) – costing of joint products & by products.

UNIT V

(Teaching Hours – 12)

Operating costing, contract costing, Reconciliation of costs and financial accounts –Standard costing (Material Variance Only).

BOOKS RECOMMENDED:

1. Cost Accounting - Jain, S.P(r) & Narang, K.L Kalyani Publications, New Delhi.
2. Cost Accounting and Methods and Problems - Bhar B.K, Academic Publication, New Delhi.
3. Cost Accounting and Methods and Problems - Murthy & Reddy, Margam Publications, Chennai.
4. Cost Accounting - R.S.N Pillai & Bhagavathi , Sultan Chand & Sons Company LTD, New Delhi.
5. Cost and Management Accounting - S N Maheswari, S Chand , NewDelhi.

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SUBJECT CODE:

FOURTH SEMESTER

Core – Lab III - Programming in C++

Objective:

- **To know about the basics in object oriented programming concept.**
 - **To know about how the real time applications be created using C++**
 - **To know the key features in languages.**
1. Write a program in C++ to check a character is a Vowel Or Consonant.
 2. Write a program in C++ to perform switch case statement
 3. Write a program in C++ to calculate the overtime wages of an employee.
 4. Write a program in C++ to find the factorial of a given number.
 5. Write a program in C++ to display the Fibonacci series.
 6. Write a program in C++ to Perform Matrix Addition.
 7. Write program in C++ to perform a student Mark list using class concept.
 8. Write a program in C++ to Perform Constructor.
 9. Write a program in C++ to perform arithmetic operations using Function Overloading.
 10. Write a program in C++ to Perform Multiple Inheritance.
 11. Write a program in C++ to perform Operator Overloading.
 12. Write program in C++ to Perform Pointer to object concept.



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SUBJECT CODE:

FOURTH SEMESTER
Core – INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Objective: Artificial Intelligence deals with solving hard and insolvable problems using reasonable time duration and deals with knowledge to handle the various applications to enhance the existing state.

Unit – I

(Teaching Hours – 12)

Definition of Artificial Intelligence- Concepts- Scope of AI- Approaches of AI- Brief history of AI- Artificial Intelligence related fields- Techniques – Characteristics – Underlying assumption of AI- Applications of AI- Advantages and Disadvantages of AI – Role and Importance of AI- AI safety – AI Development – AI and the future.

Unit – II

(Teaching Hours – 13)

Application of AI- AI creativity – Automated planning and scheduling – Automatic target recognition – Image processing – Speech recognition – Speaker recognition – Intelligent word recognition – Face recognition system- Optical character recognition – Game Artificial Intelligence – Video game- Knowledge management- Data mining – Text mining – Robotics.

Unit – III

(Teaching Hours – 12)

Types of Artificial Intelligence – Weak and Strong AI- Branches of AI- Soft computing – Brain Simulation – Probabilistic methods- Ant colony optimization- Virtual agent – AI optimized Hardware- Decision Management – Robotics process Automation.

Unit – IV

(Teaching Hours – 13)

Expert system- Introduction and concept of planning – Representing and using domain knowledge – Expert system Shells- Knowledge Acquisition- Intelligent Agents and Environments- Nature of environments.

Introduction to LISP – Syntax and Numeric function- Basic list manipulation functions in LISP function- Predicates and Conditionals- Input, Output and Local variables- Iteration and Recursion – Lists and Arrays – Backtracking.

Unit – V

(Teaching Hours – 15)

Threats and security: Cyber security fundamentals - Crime Vs Cyber Crime – types of Cyber Crime, Differences between Information Security & Cyber security. **Cyber Law:** Legal issues on Internet, cyber law for e-mail and cyber law for identity theft– Countermeasures.

BOOKS RECOMMENDED:

1. The Unofficial guide to Ethical Hacking, Ankit Fadia, MacMillan Publication, Second edition, 2010.
2. E-Mail Hacking, Ankit Fadia, Vikas Publishing House Pvt Limited, 2009.
3. Artificial Intelligence: A Modern Approach, Stuart Jonathan Russell, Peter Norvig, Prentice Hall/Pearson Education.
4. Artificial Intelligence Simplified: Understanding Basic Concepts, Binto George, Gail Carmichael,
5. Principles of Artificial Intelligence, Nils. J. Nilsson, Morgan Kaufman Publishers.

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SUBJECT CODE:

FOURTH SEMESTER
Allied – BUSINESS STATISTICS
(80% Problem, 20% Theory)

Objective: To gain the knowledge about the computations of statistical concepts related to business.

Unit I:

(Teaching Hours: 12)

Meaning, Definition and scope of statistics-Sources of data-Collection of data-primary and secondary-Methods of primary data collection-Editing secondary data-Sampling and its methods-Classification and Tabulation-Presentation of data by diagrams-Bar diagram and Pie diagram-Graphic representation of frequency distribution.

Unit II:

(Teaching Hours: 17)

Averages-Mean, Median, Mode, Geometric mean and Harmonic mean-their computation-properties and uses-Measures of dispersion-Range, Quartile deviation, Mean deviation, Standard deviation, co-efficient of variation.

Unit III:

(Teaching Hours: 13)

Skewness - Karl Pearson's and Bowley's coefficient of Skewness- -Index Numbers-meaning-uses-selection of base year-Simple and Weighted Index Numbers-Tests of an Index Number- Consumer Price Index.

Unit IV:

(Teaching Hours: 13)

Correlation-meaning and definition-Scatter diagram-Pearson's coefficient of correlation - Computation and interpretation-Rank correlation-Regression-Meaning and methods of forming the regression equations and lines-Properties of Regression coefficients.

Unit V:

(Teaching Hours: 12)

Time series-Meaning-components-Models-Methods of estimating trend-Graphic, semi-average, moving average and least square methods (Linear equations only)-Seasonal Variation-Simple average Method.

Books for reference:

1. Business Mathematics and Statistics. - PA. Navinitham, JAI Publications
2. Business Statistics. - Dr. P.R. Vittal, Margham Publications
3. Fundamentals of mathematical Statistics - S.C.Gupta & V.K. Kapoor, Sultan Chand & Co, New Delhi
4. Statistical Methods. - S.P.Gupta, Sultan Chand & Co
5. Fundamentals of Statistics - D.N. Elhance, Veena Elhance and B.M.Aggarwal, Kitab Mahal Publishers.

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SUBJECT CODE:

FOURTH SEMESTER
Core - PROGRAMMING IN C++

Objective

To make the students understand the OOPS concept and various syntaxes used in C++

UNIT I

Teaching hours: 8

Object oriented programming: Software Evolution – OOP paradigm – Concepts, benefits, Object Oriented Languages and Applications.

UNIT II

Teaching hours: 15

Introduction to the Basic concepts of C++ language – Tokens, Keywords, Identifiers, Data types, variables, manipulators – Expression and control structures – Functions: main functions – functions prototyping – Call by Reference – Function overloading – friend and inline functions

UNIT III

Teaching hours: 17

Classes and objects: Specifying a class – Defining member functions – Nesting of member functions – Private member functions – Static data member – Static member functions – Pointers to members. Constructors and Destructors: Constructors – Parameterized constructors – Multiple constructors – Copy constructors – Destructors. Operator overloading: Defining operator overloading – Overloading unary & binary operators – rules – type conversions.

UNIT IV

Teaching hours: 15

Inheritance: Defining derived classes – single inheritance – multilevel inheritance – multiple inheritance – hierarchical inheritance – hybrid inheritance – polymorphism - virtual base classes – abstract classes.

UNIT V

Teaching hours: 10

Pointers: Pointers to objects – pointers to derived classes – virtual functions. Managing console I/O operations: - Formatted I/O operations & unformatted I/O operations. Working with files: Opening & closing a file – Detecting end-of file – file pointers – sequential I/O operations.

BOOKS RECOMMENDED

1. "OBJECT ORIENTED PROGRAMMING WITH C++ - E.BALAGURUSAMY Tata McGraw Hill Publishers Ltd., New Delhi
2. "Object oriented Programming in C++" – Robert Lafore, Galgotia
3. "C++ -The Complete Reference: Herbert Schilt, Tata McGraw Hill, Pub-Ltd
4. "Let us C++" – Yeswant Kanetkar – BPB Publications
5. Programming with C++ - John R.Hubbard – Schaum's outline series

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SUBJECT CODE:

FIFTH SEMESTER
Core- MANAGEMENT ACCOUNTING
(60% Problem, 40% Theory)

Objective: To prepare budgets covering all functions of a business, to analyse monetary and non-monetary transactions.

UNIT I

(Teaching Hours – 15)

Management accounting - Meaning, objectives, functions and scope - Relationship between Management Accounting, Cost Accounting and Financial Accounting - need and significance of management accounting.

UNIT II

(Teaching Hours – 15)

Analysis and interpretation of financial statements - Ratio analysis - significance and classification of ratios – Profitability ratios – Turnover ratios – Solvency ratios - Uses and limitation of ratios

UNIT III

(Teaching Hours – 12)

Working capital - concepts, importance, and sources of working capital – Estimation of working capital requirements - fund flow and cash flow analysis

UNIT IV

(Teaching Hours – 13)

Marginal Costing – Features – Assumptions - Cost-Volume profit analysis - Break even analysis - Managerial applications of marginal costing - Significance and limitations of marginal costing

UNIT V

(Teaching Hours – 15)

Budgeting and budgetary control - definition, Objectives, importance, essentials, classification of budgets - Cash Budget, Flexible Budget, Materials, Production Budget, Master budget and Zero Based Budgeting – process and its importance. Preparation of different budgets.

BOOKS RECOMMENDED:

1. Management Accounting - R.K.Sharma & Shashi K Gupta, Kalyani Publishers, New Delhi
2. Cost and Management Accounting - S.P. Jain and Narang, Kalyani Publishers, New Delhi
3. Management and Financial Control - Sashi Kapoor and Mehta sultan chand & sons, New Delhi ,
4. Management Accounting - S.N.Maheshwari, Sultan chand & sons.New Delhi .
5. Management Accounting - RSN Pillai & Bagavathi, S.Chand .

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SUBJECT CODE:

FIFTH SEMESTER
Core- DIRECT TAX
60% Problem, 40%Theory)

Objectives:

- To study about the income Tax Act and its provisions
- To study computation of income from salary , House Property, Profits and Gains of Business and Profession, capital gain, other sources
- To study central board of direct taxes and its functions

UNIT I

(Teaching Hours: 12)

The Income Tax Act - Definition of Income - Assessment year - Previous year – Assessee - Types of Assesseees - Scope of income - Charge of Tax - Residential status – Exempted incomes u/s 10.

UNIT II

(Teaching Hours: 15)

Heads of Income – Income from Salary: - Salary – Definition – Characteristics – Computation of Income from Salary - Rates of tax for individuals.

UNIT III

(Teaching Hours: 15)

Income from House Property: – Characteristics - Exempted Incomes from House Property - Deductions - Computation of Income from House Property - Income from Business and Profession: - Meaning of Business and Profession - Expenses expressly allowed - Expenses expressly disallowed - Computation of Profits and Gains of Business and Profession of an Individual.

UNIT IV

(Teaching Hours: 15)

Income from Capital Gain: – Capital Asset – Long term Capital Asset – Short term Capital Asset – Indexation - Computation of Income from Capital Gain.

Income from Other Sources – Various Sources of Income - Computation of Income from Other Sources.

UNIT V

(Teaching Hours: 13)

Set off and Carry forward of losses- Income Tax Authorities- Central Board of Direct Taxes – Organisation structure – Functions – General Powers – E-filing of income tax return – Provisions concerning preparation and filing of E>Returns.

BOOKS RECOMMENDED:

1. Income Tax Law and Practice - Gaur and Narang Kalyani Publishers New Delhi.
2. Income Tax Law and Practice - Mehrothra Sahitya Bhawan Publication,
3. Income Tax Law and Practice - Dinkar Pagare Sultan Chand & Company Ltd.
4. Students' Guide to Income Tax - Vinod Singhani Taxman Publications Pvt Ltd NewDelhi

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SUBJECT CODE:

FIFTH SEMESTER

Core: BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY

UNIT I: BUSINESS ETHICS

(Teaching Hours: 13)

Introduction -Meaning –Scope- Types of Ethics –Characteristics- Factors influencing Business Ethics - Importance of Business Ethics-Arguments for and against business ethics Basics of business ethics - Corporate Social Responsibility-Issues of Management -Crisis Management

UNIT II: PERSONAL ETHICS

(Teaching Hours: 13)

Introduction -Meaning -Emotional Honesty -Virtue of humility -Promote happiness -karma yoga – proactive-flexibility and purity of mind.

UNIT III: ETHICS IN MANAGEMENT

(Teaching Hours: 13)

Introduction -Ethics in HRM -Marketing Ethics -Ethical aspects of Financial Management-Technology Ethics and Professional ethics.

UNIT IV: ROLE OF CORPORATE CULTURE IN BUSINESS

(Teaching Hours: 13)

Meaning –Functions –Impact of corporate culture –cross cultural issues in ethics.

UNIT V: CORPORATE GOVERNANCE

(Teaching Hours: 13)

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

REFERENCES:

1. Murthy CSV: Business Ethics and Corporate Governance-Himalaya
2. Bholanath Dutta, S.K. Podder –Corporation Governance.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance Himalaya
4. H.R. Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance
6. N.M. Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics

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SUBJECT CODE:

FIFTH SEMESTER
Core – Java Programming

Objective

To enhance the students the knowledge about the operators and syntaxes used in Java programming.

Unit - I

Teaching Hours – 15

Basic concepts of OOP – benefits of OOP – Object Oriented applications of OOP – Data types, variables and arrays – Programs with input, numeric input – type conversion and casting.

Unit - II

Teaching Hours – 13

Operators – Arithmetic operators – Bitwise operators – Relational operators -Boolean operators – Logical operators – Assignment operators- conditional Operators – Control statement – Selection statements – if, switch, iteration statements – while, do while, for, nested loops – jump statements, break, continue, return statements.

Unit – III

Teaching Hours – 15

Class fundamentals – Declaring Objects – Assigning Object Reference Variables – Introducing methods – Constructors – The this keyword – Garbage collection – The finalize () method. Overloading Methods – Objects as Parameters – Arguments Passing – Returning Objects – Recursion – Access Control – Static – Final – Arrays – Nested and Inner Classes – String Class – Command Line Arguments.

Unit – IV

Teaching Hours – 13

Inheritance Basics – Using Super – Creating a Multilevel Hierarchy – When Constructors are called – Method Overriding – Dynamic Method Dispatch – Using Abstract Classes – Using final with Inheritance – The Object Class.

Unit – V

Teaching Hours – 13

Packages – access protection – importing packages – interfaces – applet basics – applet class – applet skeleton – applet initialization & termination – Applet Architecture – simple applet display methods – status window – HTML applet tag.

Books for Reference:

1. Internet and Intranet Engineering – Daniel Minoli – Tata McGraw Hill
2. Java – The complete Reference, Patrick Naughton & Herbert Schildt, Tata McGraw Hill.
3. Programming with Java – John R Hubbard – Schuam's Outline Series

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SUBJECT CODE:

FIFTH SEMESTER

CORE – Lab –IV - Java Programming

1. Write a -JAVA program to find arithmetic operations using Input statement.
2. Write a JAVA program to find greatest of three numbers from the input list.
3. Create a JAVA program to calculate factorial value for the given number
4. Create a JAVA program to calculate the students' progress details for a semester.
5. Write a JAVA program to calculate the electricity bill calculation for a month.
6. Create a JAVA program for various arithmetic operation using classes.
7. Create a JAVA program to check for a string is PALINDORME or not.
8. Write a JAVA program consist of Inheritance concept for any logic.
9. Write a JAVA program Consist of Applet viewer concept for displaying students' details.
10. Write a JAVA program for calculating the Employee salary for a month.



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SUBJECT CODE:

FIFTH SEMESTER

Elective I- RDBMS AND ORACLE

Objective

To acquaint practical knowledge about creating and manipulating data in database.

UNIT – I

Teaching hours: 12

An overview of Database Management – Introduction – Definition of Database System – Purpose of database-conventional file processing system-Data Abstraction-Database Languages-Database users and administrator-Data dictionary-Data Independence – instances and schema- -Database System Architecture –Three Levels of the Architecture

UNIT – II

Teaching hours: 13

Data Models:Types of data Model-E-R Model-Relational Algebra and calculus: Relational algebra-Relational calculus-Relational Model:SQL-SQL operators-SQL DDL commands-Data constraints

UNIT – III

Teaching hours: 14

SQL DML Queries: Basic Structure-Rename operation-Tuple Variable-string operation-ordering the tuples-Update to the Database-Aggregate function- Set operations-Views- Joins-Group by-Having-stored procedure- Triggers- Control Structures- PL/SQL Cursors and Exceptions:
Cursors – Implicit & Explicit Cursors and Attributes – Cursor FOR loops.

UNIT – IV

Teaching hours: 13

Database Design – Functional Dependencies – Introduction – Basic Definitions – Normalization - First, Second, Third Normal Forms – BOYCE/CODD Normal Form.

UNIT – V

Teaching hours: 13

Introduction to oracle: Basic operations- Oracle Overview and Architecture – Advantages of Oracle - Database Administrator Authentication -Database Administrator Security and Privileges - Data Types – Constraints – Creating Oracle Table – Displaying Table Information – Altering an Existing Table – Dropping, Renaming, Truncating Table – Table Types – Spooling – Error codes

BOOKS RECOMMENDED:

1. An Introduction to Database Systems – C.J.Date – Addison – Wesley Publications
2. Database Management Systems – Rajesh Narang, Prentice Hall of India Pvt Ltd, NewDelhi.
3. Foundation for Object/Relational Databases – C J Date Hugh Darwen, addison-Wesley.
4. An introduction to Database system – Bipin C.Desai, Galgotia Publication Pvt. Ltd – NewDelhi.
5. An introduction to Database system – C.J.Date, Naraso Publishing House
- 6.Abraham Silberschatz, Henry F. Korth, S. Sudharshan, “Database System Concepts”, Tata McGraw Hill,
- 7.C.J.Date, A.Kannan, S.Swamynathan, “An Introduction to Database Systems”
8. DATABASE SYSTEMS USING ORCLE – Nilesh Shah.

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EFFECTIVE FROM THE ACADEMIC BATCH 2018-2021

SUBJECT CODE:

FIFTH SEMESTER
Skill Based Subject – Institutional Training

GUIDELINES FOR DOING INSTITUTIONAL TRAINING

OBJECTIVE

This Institutional Training is to be done during the summer break after Semester 4 and is encouraged in order to enable students to gain practical experience in the field of their study. The type of Institutional Training needs to be approved by the Director. A request letter will be given to the student when approaching an organisation for Institutional Training opportunity.

GUIDELINES FOR STUDENTS

1. Every student must do the Institutional Training for a minimum period of 21 days.
2. Students can select only the Private/Public limited companies for their Institutional Training.
3. The Institutional Training can be on the overall functioning of the organization or particularly about the functions of any department.
4. No two students can select the same company/department for doing Institutional Training.
5. Students are required to register with the concerned tutor about the company in which they propose to do the Institutional Training.
6. The students are suggested to choose the nature of the company in which they have interest.
7. A Training Work Diary is to be maintained by the student for recording the day to day Institutional Training activities which is duly signed by the company authorities on a daily basis.
8. Every student must submit the certificate issued by the Company Authorities regarding the successful completion of the Institutional Training attended by the student after the summer vacation.
9. The students must collect all data regarding the performance of the organization/department for the purpose of drafting report after the Institutional Training.
10. The students are advised to contact the respective tutor for any clarification regarding the Institutional Training.



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SUBJECT CODE:

SIXTH SEMESTER

**Core- AUDITING
(100 % Theory)**

Objectives:

- To study definition, objectives of auditing, classification and Audit procedures.
- To explain about definition and procedures of Vouching, verifications of Assets and liabilities, Valuation of Assets and liabilities.
- To study Auditors Rights, duties and their Liabilities.

UNIT I

(Teaching Hours:12)

Origin of Auditing - Definition - Difference between auditing and accountancy - objectives of auditing - Types of Errors and Fraud - Advantages and limitations of auditing - Difference between Auditing and investigation - qualification and qualities of an auditor.

UNIT II

(Teaching Hours:14)

Different classes of audit – Mode of audit - Continuous audit - Final audit - Interim Audit - Balance sheet audit - Audit procedure - Planning of audit - Audit Programme - Audit Note book - Audit working papers - Internal control - Internal check and internal audit - Internal check as regards, wages, sales.

UNIT III

(Teaching Hours:11)

Vouching – Definition – objectives – Auditors duties regarding vouching of cash receipts - vouching of cash payments – vouching of credit purchase - vouching of credit sales – vouching of impersonal ledger – outstanding assets and liabilities.

UNIT IV

(Teaching Hours:14)

Verification of assets and liabilities – Definition – objectives – Difference between vouching and verification - valuation of assets and liabilities - meaning – objectives - Auditors position in respect of valuation of assets – plant and machinery – building – stock – debtors - Auditors duties regarding verification and valuation of liabilities - capital – creditors – loans and advances.

UNIT V

(Teaching Hours:14)

Company Audit - Appointment and removal of auditors – Rights, duties and Liabilities of Company auditors - Audit of share capital and share transfer.

BOOKS RECOMMENDED

1. Practical Auditing - Tandon, B.N, Sultan Chand & Company ltd, Delhi,
2. Principles and Practice of Auditing, - Dinkar Pagare , Sultan Chand & Sons , New Delhi, .
3. Auditing - Kamal Nath Tata Mcgraw –Hill Publishing Company ltd, New Delhi.
4. Auditing - R C Bhatia Vikas Publishing House Pvt Ltd, Delhi,.
5. Practical Auditing - Dr Radha, Prasanna Publishers,

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SUBJECT CODE:

SIXTH SEMESTER

Core – SOFTWARE PROJECT MANAGEMENT

Objective: To know how to control the real time projects and its techniques.

UNIT I

(Teaching hours: 13)

Introduction to software project management: Introduction – why is software project management important? – What is a project? – Software project versus other types of project – Activities covered by software project management - Problems with software projects – Stakeholders – Requirement Specification – Management control – Stepwise: An overview of project planning.

UNIT II

(Teaching hours: 13)

Project Management and Project Evaluation: Introduction – Evaluation of individual projects – Technical assessment – cost-benefit analysis – cash-flow forecasting – cost-benefit evaluation techniques.

Selection of an appropriate project approach: Introduction – choosing technologies – Technical plan content list – choice of process models – waterfall model – v-process model – spiral model software prototyping – incremental delivery.

UNIT III

(Teaching hours: 14)

Software Effort Estimation: Introduction – where are estimates done? Problems with over and under estimates – the basis for software estimating – software effort estimation techniques – Expert judgment – COCOMO: a parametric model.

Risk management: Introduction – categories of risk – evaluating risks to the schedule.

UNIT IV

(Teaching hours: 15)

Resource Allocation: Introduction the nature of resource s – identifying resource requirements – scheduling resources – creating critical paths – counting the cost.

Monitoring and control: Introduction – creating the framework – collecting the data – visualizing progress- Change Management – Change Management Process.

UNIT V

(Teaching hours: 15)

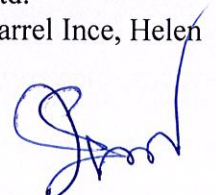
Managing Contracts: Introduction – types of contract – stages in contract placement – contract management – acceptance.

Managing people and organizing teams: Introduction – understanding behavior – selecting the right person for the job – instruction in the best methods – motivation – becoming a team – decision making – leadership – organizational structures.

Software quality – some problems with student projects – PRINCE 2 – Project Closure – Role and performance of closure analysis.

BOOKS RECOMMENDED:

1. Software project management Bob Hughes and Mike Cotterell Tata Mc Graw Hill Publishing Company Ltd
2. Software Project Management Walker Royce Pearson Education
3. Software Project Management , Kelker .A, PHI Learning Publication P.Ltd.
4. Introduction to Software Project Management and Quality Assurance, Darrel Ince, Helen Sharp and Mark Woodman., McGraw Hill.



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SUBJECT CODE:

SIXTH SEMESTER
Elective II – ENTREPRENEURIAL DEVELOPMENT
(100 % Theory)

Objective: The study helps to understand the functions, types of entrepreneurs, motivating factors and identify the new areas of research and development in entrepreneurial venture.

UNIT I

(Teaching Hours: 14)

Concept of Entrepreneurship – Definition and functions of Entrepreneur – Personality traits of an Entrepreneur - Types of Entrepreneurs – Distinguish between an entrepreneur and a manager – Entrepreneurial Development Programme - Development of Women entrepreneurs and Rural entrepreneurs.

UNIT II

(Teaching Hours: 14)

Creating and leading an Entrepreneurial Organization: Identifying new venture opportunities – Environment scanning – Idea processing and Selection, SWOT and PEST analysis.

UNIT III

(Teaching Hours: 15)

Incentives and subsidies offered by the Central and State Government – Institutional finance to entrepreneurs SFC, SIPCOT, SIDB, – Role of Government and other organizations in entrepreneurial growth. DIC, NSIC, IRCI. Overview of Micro financial institutions.

UNIT IV

(Teaching Hours: 14)

Growth strategy – objectives, stages of growth – types of growth strategy - Entrepreneurial motivation – motivating factors – creativity and innovation – creativity process – components of creativity performance.

UNIT V

(Teaching Hours: 13)

Project management: - Project classifications - Identifications - formulation and design - feasibility analysis - Preparation of Project Report and presentation.

BOOKS RECOMMENDED:

1. Entrepreneurial Development - Gupta C.B and Srinivasan, N.P, Sultan Chand & Sons, New Delhi.
2. Dynamics of Entrepreneurial Development - Vasant Desai, Himalaya Publishing House, New Delhi.
3. Entrepreneurial Development - S.S.Khanka, S.Chand & Company, New Delhi.
4. Entrepreneurial Development - Gordon & Natarajan, Himalaya Publishing House, New Delhi.
5. Entrepreneurial Development - P Saravanel, ESS PeeKay Publishing House

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SUBJECT CODE:

SIXTH SEMESTER

**Elective III – INVESTMENT MANAGEMENT
(100% THEORY)**

Objectives: To examine the types, concepts, and techniques of investment for effective management in the private and government sectors. To understand the various reputed theories on instruments for effective investment management and Mutual Funds.

UNIT I

(Teaching Hours: 13)

Meaning and Definition of Investment – Concepts – Nature and features of Investment – Relationship between Risk & Return – Scope or types of Investment – Types of Investors – Stages in Investment – Difference between Investment, Speculation & Gambling – Types of Speculators in Stock market – Introduction to D-MAT A/C.

UNIT II

(Teaching Hours: 14)

New issue market - meaning, Importance, Functions – Methods of Issuing securities – Reforms in NIM – Stock Exchange – meaning and definition – structure – membership – functions – types of transactions – listing – procedure and condition – advantages – OTCEI – NSE – powers and functions of SEBI.

UNIT III

(Teaching Hours: 13)

Security analysis – meaning – methods – fundamental analysis – economic analysis factors – industry analysis – company analysis, technical analysis – meaning – assumption – tools used – types of charts – Dow theory, efficient market theory – meaning – Weak form, semi-strong form, strong form.

UNIT IV

(Teaching Hours: 15)

Security valuation – common stock – present value approach, one year holding period, multiple year holding, P/E ratio model, Portfolio management – meaning – process – Markowitz model- Assumptions- features – Sharpe's model

UNIT V

(Teaching Hours: 15)

Mutual Funds- Meaning, Definition, Mutual funds Industry in India, Importance of Mutual Funds, Classification of Mutual Funds, Advantages of Investing in Mutual Funds, Mutual funds abroad & in India, Difference between open ended mutual funds and close ended mutual funds, RBI Guidelines.

BOOKS RECOMMENDED:

1. Investment Management -Bhalla. V.K, S.Chand and Company Ltd, NewDelhi,
2. Investment Management -Preeti Singh, HimalayaPublishing House, Mumbai .
3. Securities Analysis & Portfolio Management- Donald E.Fischer and Ronald J.Jordan, Prentice-Hall of India, New Delhi.
4. Investment Management - Avadhani. V.A, Himalaya Publishing House,Mumbai.
5. Fundamentals of investment Management - V K Bhalla S Chand Group, NewDelhi.
6. Fundamentals of investment Management - V K Bhalla S Chand Group, NewDelhi,
7. Mutual Funds in India – Nalini Prava Tripathy , New Delhi,

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SUBJECT CODE:

SIXTH SEMESTER

Skill based Subject-HUMAN RESOURCE MANAGEMENT

Objective: To understand the concept of human resource management and to know the various activities relating to personnel function in the organization.

UNIT I

(Teaching Hours – 15)

Meaning and Introduction of Personnel Management - Scope - Objectives – Importance - Principles of Personnel Management –Evolution of personnel management in India . Qualities of personnel manager- Strategic role of personnel manager.

UNIT II

(Teaching Hours – 13)

Personnel policies - Meaning and importance objectives - contents and development of personnel policies - ideal personnel policy - Man power planning – Objectives, process of manpower planning.

UNIT III

(Teaching Hours – 12)

Job analysis - Job description - Job specification – Recruitment – Method, objectives – Selection – Method – Interview techniques.

UNIT IV

(Teaching Hours – 15)

Training – Meaning, purpose, importance, method of training. Development – Meaning, importance, method.

UNIT V

(Teaching Hours – 15)

Industrial relations - Workers participation in management – wage compensation – grievance handling procedures.

BOOKS RECOMMENDED:

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|--|--|
| 1. Personnel Management, | - C.B.Memoria Himalaya Publishing House, |
| 2. Personnel Management, | - L.Tripathi , Sultan Chand & Sons, New Delhi, . |
| 3.Personnel Management and Industrial Relations - R S Davar. | Vikas Publishing House (P) Ltd. |
| 4.Human Resource management. | - P.G.Aqunias, Vikas Publishing House(P) Ltd, New Delhi, |
| 5. Organisational Behaviour | - S S Khanka, Kalyani Publications, |