

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.SU/Com.& Mgt/BCM/71/2022**

It is hereby inform to all concerned that, on the recommendation of the Dean, Faculty of Commerce & Management, meeting dated 15-12-2021 the Hon'ble Vice-Chancellor in his emergency powers under section-12(7) of the Maharashtra Public Universities Act, 2016 has accepted the syllabi of **Bachelor of Computer Management (BCM) IInd & IIIrd year** under the Faculty of Commerce and Management on behalf of the Academic Council to be applied from the Academic Year 2021-2022 and onwards. The said syllabus is also available on University website w.w.w.bamu.ac.in.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO. SU/COM.MGT./2021-22 6505

Date:- 10-01-2022.

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[Signature]
Deputy Registrar,
Academic Section
Syllabus unit.

Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges, Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular along with the said syllabi on University Website.**

Copy to :-

- 1] The Director, Board of Examination & Evaluation,
- 2] **The Section Officer, [B.Com. Unit] Examination Branch,**
- 3] **The Programmer [Computer Unit-1] Examinations,**
- 4] **The Programmer [Computer Unit-2] Examinations,**
- 5] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambekar Marathwada University.
- 6] The Public Relation Officer,
- 7] The Record Keeper.

**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY,
AURANGABAD.**



Curriculum of

BCM

BACHELOR OF COMPUTER MANAGEMENT

IIND & IIIIRD YEAR

III TO VI SEMESTER

AFFILIATED COLLEGES

under Choice Based Credit & Grading System

[Effective from the Academic Year 2021-22 & onwards]

15/12/2021
Syed Agha
(BOS chair)

15/12/21
Dr. Anurag Gulkar

15/12/21

15/12/21
Dean

FACULTY OF COMMERCE & MANGEMENT.

Syllabus – Bachelor of Computer Management (B.C.M.)

Choice Based Credit System (CBCS) -2021-22

THIRD SEMISTER

Paper Number	Subject/Title the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory
			Th	Pr	Th	Pr				
XXV	Principles of Management	Core Course	4	-	4	-	20	80	100	Exam 3Hrs
XXVI	DBMS	Core Course (Theory)	3	-	2	-	-	50	50	2 Hrs
		Practical	-	2	-	2	-	50	50	2 Hrs
XXVII	VB	Core Course	4	-	4	-	20	80	100	3Hrs
XXVIII	Business Law -I	Core Course	4	-	4	-	20	80	100	3 Hrs
XXIX	I T. Applications in Business-II	Ability Enhancement Compulsory	4	-	4	-	20	80	100	3 Hrs
XXX	1. RDBMS using ORACLE OR 2. Office Automation Tools	Discipline Specific Elective (Any One) (Theory)	3	-	2	-	-	50	50	2 Hrs
		Practical	-	2	-	2	--	50	50	2 Hrs
	Total		22	4	20+4 =24		100	500	600	-----

*Note :- As per UGC norms one theory is equal to two practical

B.C.M.III SEM

XXV Principles of Management

Theory: 80

Sessional: 20

Credit: 04

Unit –I

Introduction of Management :

Introduction, Meaning and concept of management, Nature and scope. Characteristics and Importance of management, role and functions of management. Level of management, difference between management and administration. Brief review of management thoughts of F.W.Taylor, Henry Fayol, Elton Mayo, Peter Drucker etc.

Unit – II Managerial Planning and Decision Making :

Planning : meaning and definition, Characteristics and importance of planning, Planning process, Benefits of ideal planning, Limitations of planning, Types of plans, Forecasting : meaning and definition, methods of forecasting, Decision making : meaning and definition, types of decisions. Decision making process.

Unit – III Staffing and Organization :

Staffing : meaning and definition of staffing need and importance of staffing Recruitment : meaning definition, Process and methods of recruitment, selection : meaning definition, Selection procedure and training of personnel Organization : meaning, definition and importance of organization, Principles of organization, Types of organization difference between accountability and responsibility centralization of Authority and decentralization of Authority

Unit – IV Directing and controlling :

Directing : meaning definition and importance of directing principles and techniques of directing, Controlling : meaning definition. Need and importance of control. Process of control techniques of control

Unit – V Recent Trends in Business Management :

Change management, disaster management, TQM Benchmarking, six sigma, Management Development : meaning definition need and importance. Management development process methods and techniques

Reference Books :

1. Principles of management by Dr. k. natarajan and Dr.k.p.Ganesan
2. Principles of management by p. subbarao
3. Principles of management by B.P. singh / Dr. Tramaswamy
4. Principles & practice – T N chhabra Dhanapat Raj & Co. of management
5. Management – L M. prasad.
6. Makers of modern India – NBT publication
7. Principles and practice of management by saxsena S.C.

B.C.M.III SEM

XXVII V B

Theory: 80
Sessional: 20
Credit: 04

Introduction:

Installing visual Basic First Application, Toolbox, property Editor, VB Forms, buttons, Events, Adding Code, Dealing With Errors, project Explorer, Saving and Reopening Applications.

Unit I Controls Explained:

Controls and Methods, Using Buttons, Labels, Text Boxes, picture Boxes, check Boxes, Option Buttons, Frames, Lines and Shapes, Images, List Boxes, FlexGrids, Common Dialog control, combo Boxes, Timers, OLE control, Setting Tab Order.

Unit II Basics:

Variables and Scope, Data Types, Using If ...Then ... Else, For ... Next, Do ... Loop, case ... Else, With ... End With, MsgBox InputBox, API, printing.

Unit III VB Tools:

Menus, Toolbars, code Editor, ActiveX controls, Reference Manager, project Templates.

Unit IV Databases:

Introduction to Databases, Visual Data Manager, Designing Table, Adding Data, Adding Records, deleting Records, Viewing Records, Searching Records, Showing Records in Grid, Copying Record to clipboard.

Unit V: VB and Internet

Basics of Web Scripting.

REFERENCE :

1. Greg perry, Snajaya Hettihewa,SAMS Teach yourself Visual Basic 6 in 24 Hours, pearson Education.
2. Tim Anderson,visual Basic 6 in Easy steps'' Dreamtech press.
3. Steven Holzner,visual Basic 6 programming Black Book, Dreamtech press.

B.C.M.III SEM

XXVI DBMS

Theory: 50
Sessional: 50
Credit: 04

Unit – I Introduction (Theory) :

Data, Tables, DBMS, Characteristics of DBMS, need of DBMS, attributes, entity, E-R Diagrams, relationships, ODBMS, Two tier and three tier architecture.

Unit – II Transactions (Theory) :

Concept of transaction ACID properties, Transaction and system concepts, states of transaction, serializability, backup and recovery.

Unit – III Concurrency (Theory) :

Concurrent transactions, Two – phase locking techniques, concurrency control Locking techniques, E- R Diagram Deadlock.

Unit – IV Normalization (Theory) :

E.F. Codd rules Normal forms based on primary keys (1 N F, 2 N F, 3 N F, BCNF).

Unit – V MS- Access (Theory / practical) :

primary key, Foreign key, creating tables in MS – Access, creating primary key foreign key and create queries to fetch data.

Practical : As per syllabus College can take decisions accordingly .

Reference Books :

1. Elmasri & Navathe, Fundamentals of Database systems, Addison & Weisely, New Delhi
2. H.F. Korth & A. Silverschatz, Database concepts Tata McGraw Hill, New Delhi
3. C. J. Date Database Systems, prentice Hall of India New Delhi.
4. Ivan Bayross, SQL,PL / SQL, The programming language of Oracle

B.C.M.III SEM

XXVIII Business Laws – I

Theory: 80

Sessional: 20

Credit: 04

Unit - I Indian contract Act 1872 :

Meaning and Definition of Agreement and contract. Features of contract Act Types of contract Essentials of valid contract Offer and Acceptance, Breach of contract

Unit – II Sell of Goods Act 1930 :

Meaning and Important Definition – Sell of Goods Act Agreement to Sell vs. contract of Sell . Essentials of valid contract of Sell condition and warranty, sell by Auction and purchase Agreement. Buyers and sellers Rights and Duties.

Unit – III Negotiable Instrument Act 1881 :

Concept and Important definition of Act promissory note and cheque characteristics of the Act Dishonor of Negotiable Instrument. Discharge of Negotiable Instrument. Bills of Exchange.

Unit – IV Consumer Protection Act (Amended Act 2002) :

Meaning and Important Definition of Act, Significance of consumer protection Objectives of the Act. Working of consumer protection. Council. Composition of consumer disputes redressal agencies.

Unit – V Cyber and IT Act 2000:

Important Definition – IT Act 2000 Cyber fraud and Cyber Cheating Copy right – meaning and Definition License of the Copy Right, Digital Signature Digital Signature. Certificate.

Sessional Works :College can take decisions accordingly.

Reference Books :

1. Business Law – Dr. Nowlakha
2. Mercantile Law – N D Kapoor
3. Indian contract Act – Dr. Avtarsingh
4. Mercantile and Industrial Law – M .C Shulka
5. Business Law - Maheshwar
6. Company and Business Law – Shukla and Gerwal
7. Commercial and Industrial Law – Kuchal
8. Cyber Law simplified – Tata McGrawhillviveksood
9. Indian Cyber Law – Suresh T Vishwanathan

B.C.M.III SEM

XXIX I.T. Application in Business – II

Theory: 80

Sessional: 20

Credit: 04

Unit – I Introduction to E- commerce :

E- commerce- An Overview. Electronic commerce Framework, Evolution of E- commerce : History of Electronic commerce, Advantages and Disadvantage of E- commerce. Roadmap of e- commerce in India E- Business : Definition, E- Business Models. Elements of E- business Models

Unit – II E-Marketplaces :

Definition & Structure of E- Marketplace, Types of E- Marketplace Types of Auctions and its Characteristics. Benefits, Limitations and impact of Auctions, E- commerce in the wireless environment.

Unit – III E- Business Application and E- payment SYSTEMS :

Integration & E- Business suits, ERP- Overview of Software Solutions. ERP Implementation, Methodology and Framework, CRM, E-payment categories and users of smart cards. Different Digital payment methods

Unit – IV E- Business Impact on Different Fields and Industries :

E- Business Impacts : E- Tourism, Online Employment and job Market, online Real Estate, Online publishing & E- Books, Online Banking, Online Delivery of Digital products, Entertainment and Media

Unit -V E- Government :

Definition of E- Government implementation, E- Government Services. challenges & opportunities Benefits of E- Government

Reference Books :

1. Electronic Commerce : A Managerial perspective. Turban, E. et al. prentice Hall 2008.
2. Electronic Business and Electronic Commerce Management, 2nd edition, Dave Chaffey. Prentice Hall, 2006
3. Alexon Leon, ERP Demystified, Second Edition TATA McGraw Hill 2008
4. David whitely E- Commerce ,TATA McGraw Hill
5. Ravi Kalakota E – commerce pearson Education

B.C.M.III SEM

XXX RDBMS using ORACLE

Theory: 50
Sessional: 50
Credit: 04

Unit –I RDBMS

Definition, characteristic of RDBMS ,Application and Advantages of RDBMS, Instances schemas and database states, Three Levels of Architecture Data Independence, DBMS languages, Data Dictionary, Database Users, Data Administrators.(Theory)

Unit- II Data models types and their comparison

Entity Relationship model, Entity Types, Entity sets Attributes and its types keys E- R Diagram Data Integrity, Referential Integrity constraints Domain Integrity constraints (Theory)

Unit – III Relational Algebra

(selection, projection , union intersection, Cartesian product, Different types of join like theta join equi- join, natural join, outer join) Relational calculus, Functional Dependencies, Good & Bad Decomposition, Anomalies as a database : A consequences of bad design (Theory)

Unit – IV Introduction to SQL

DDL,DML and DCL, statements, creating Tables, Adding constraints, Altering Tables, Update, Insert, Delete & various Form of SELECT – Simple Using Special Operators for Data Access Aggregate Functions joining multiple Tables (Equi-joins) ,joining a Table to itself (self joins) Functions. (Theory /Practical)

Unit – V Introduction to PL /SQL

(blocks of PL / SQL, variables, constants) control structure Introduction to stored procedures, functions, cursor and Triggers (Theory / Practical)

Practical :- As per syllabus College can take decisions accordingly

Reference Books :

1. Elmasri & Navathe, Fundamentals of Database systems, Addison & weisely, new Delhi
2. H.F. Korth & A. Silverschatz, Database conceots Tata McGraw Hill. New Delhi.
3. C.j. Data Database Systems, prentice Hall of India, New Delhi
4. Ivan Bayross, SQL, PL / SQL, The programming language of Oracle

B.C.M.III SEM

XXX OFFICE AUTOMATION TOLLS

Theory 50
Practical 50
Credits 4

Familiarizing with different devices and facilities of computer system.
Study of MS- Word , Excel & Power Point :

1. **Features and tools of MS – Office, Word, E XCEL, Power Point**
2. **Word:** Creating word documents, menu office assistant working with files , editing text, saving, printing, undo, redo, spelling, formatting, ruler, selecting, cutting, copying, numbering, bullets, page, orientation, margins, tables in a document, formatting text in table, addition deletion of rows columns, record handling, sorting label, & envelop, using forms, Recycle bin. Protection of documents, mail merge.
3. **Excel :** Excel sheet creation, entering data, layout and formatting of sheet preview & print, working with range, rows, columns, total, sorting using formatting of toolbars, format cells, cell content moving & coping grouped & ungrouped worksheet alignment of text , border colors, page setup, chart, types of chart merging sizing printing chart objects, formatting charts. Formula palette , functions & uses – Analysing data with excel.
4. **Power Point :** Creating a Presentation, modifying visual elements, adding objects, applying transition , animation and linking, preparing layouts, presenting a slide show.

Practical:- As per syllabus College can take decisions accordingly

Reference Books :-

- 1.Courter Marquis -Office-2000
- 2.Courter Marquis -Office – 97
- 3.Mansfield -MS – Office
- 4.Swell - MS –Office – 97
- 5.Syber publication – Office -200 Complete Ulrich, L.- Sams Teach Your self 2000.

FACULTY OF COMMERCE & MANGEMENT.

Syllabus – Bachelor of Computer Management (B.C.M.)

Choice Based Credit System (CBCS) -2021-22

FOURTH SEMISTER

Paper Number	Subject/Title the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory
			Th	Pr	Th	Pr				
XXV	1.Cost Accountancy	Core Course	4	-	4	-	20	80	100	Exam 3Hrs
XXVI	MIS & DSS	Core Course	4	-	4	-	20	80	100	3 Hrs
XXVII	Java Programming	Core Course (Theory)	3	-	2	-	-	50	50	2 Hrs
		Practical	-	1	-	2	-	50	50	2 Hrs
XXVIII	Business Law -II	Core Course	4	-	4	-	20	80	100	3 Hrs
XXIX	GST Account	Ability Enhancement Compulsory	4	-	4	-	20	80	100	3 Hrs
XXX	1. Advance Networking OR 2. Basic of Web Technology	Discipline Specific Elective (Any One) (Theory)	3	-	2	-	-	50	50	2Hrs
		Practical	-	1	-	2	-	50	50	2 Hrs
	Total		22	2	20+4 =24		80	520	600	-----

B.C.M. IV SEM

XXV Cost Accountancy

Theory 80
Sessional 20
Credits 4

Unit – I Cost Accounting:

Definition, Nature, & Scope of Cost Accounting, Distinction, between Cost, Financial and Management Accounting, Classification & Elements of Cost , Material, Labour, Expenses, Direct & Indirect Cost, Overheads.

Unit – II Costs :

Prime Cost, Factory / Works Cost, Administrative Cost, Total Cost, Cost of Sales

Unit – III Preparation of Cost Sheet :

Unit- IV Material :

Purchasing, Purchase Requisition, EOQ, Purchase Procedure, Receiving & Recording of Material, Documents, Goods Received Note, Bin Card, Issue of Materials, Pricing Method, LIFO, FIFO, Average Method.

Unit – V Wages :

Compensation. Methods of wage payment, Fixed Rate, Contract, Bonus, Halsay & Rowan Plan.

Reference Books :

1. Practical Costing : Khanna, Pande and Ahuja
2. Cost Accounting : Bhatia HSM
3. Principles & Practices of Cost Accounting : N. K. Praasad
4. Cost Accounting (Methods & Problems) : B. K. Bhar
5. Fundamental of Costing : S. N. Maheshwari

B.C.M. IV SEM

XXVI MIS & DSS

Theory 80
Sessional 20
Credits 4

Unit – I Concept:

Definition Characteristics, Objectives ,role and impact of MIS , Management as a control system. MIS : a support to the management , Application of MIS , organization Effectiveness , Decision making concept , Decision making process organizational decision making & MIS and decision

Unit – II Information :

A quality product , IT enabled services, e business wireless technologies etc. Information system in business, computer based Information system limitation and disadvantages of IS . Human as an Information processor knowledge and knowledge management system . business intelligence .

Unit –III System concept and control :

Types of system general model of MIS need of system Analysis , system Development Life cycle development process of MIS , strategic design of MIS Business- process. Process mode of an organization MIS and BPR .

Unit – IV DSS :

Concept and philosophy, Objectives and characteristic of DSS major functions of DSS, components of DSS , generator and tools limitations of DSS, GDSS. Components of GDSS. MIS and benefits of DSS and ONLINE. DATA PROCESSING

Unit – V

Knowledge System, Expert system. : application of ES. Benefits and Limitations of ES. ERP. Models and modules. Benefits of ERP. ERP. Implementation. SCM . CRM

Sessional work:- College can take decisions accordingly.

Reference books.

1. Decision support & Expert system Efraim Turban
2. W.S jawadekar management Information system.
3. Dr . Akther Anwar fundamentals Decision support system
4. Dr. A.K Gupta management Information system . s.
5. V. murthy. Management Information system. Himalaya publishing house. Millennium edition

Unit – I Overview of java Language :

java History java Features . How java Differ FROM C and C++ JVM java Environment java programming structure Types of Comment java Tokens : Reserve Keywords Identifiers literals operators separators variables. Constant Data Types. Array Type casting control statement : branching statement Looping statement

Unit – II Classes, Objects and Methods :

Introduction Defining class : fields Declaration methods Declaration creating objects visibility control use of this Keyword method parameters method overriding final variable method and final class.Interface package and Exception Handling : Defining and implementing interface Inner classes package : create package Accessing package Exception Types of Error multiple catch statement creating user defined Exception finally clause

Unit – III String and stream :

String classes string Buffer class stream classes : Types of streams. Byte stream classes character stream classes

Applets : Introduction to Applet Types of Applet . Applet vs Application. Applet class advantages of Applet . Applet Lifecycic my first Applet Applet. Tag passing parameters to Applet Graphics : Basic shapes drawLine drawAre fillArc drawpolygon. Fillpolygon color & color methods fonts.

Practical List

1. Program to Demonstrate constant variable
2. Program to Demonstrate scope of variable
3. Program to Demonstrate branching statement
4. Program to Demonstrate Looping statement
5. Program to Demonstrate simple class
6. Program to Demonstrate method parameter
7. Program to Demonstrate method overloading
8. Program to Demonstrate constructor
9. Program to Demonstrate static member
10. Program to Demonstrate method overriding
11. Program to Demonstrate final variable method and final class.
12. Program to Demonstrate finalize method ()
13. Program to Demonstrate Array and it 's types
14. Program to Demonstrate string class and it 's mehod
15. Program to Demonstrate string Buffer and it's method
16. Program to Demonstrate inheritance and Types
17. Program to Demonstrate Abstract method and Abstract class.
18. Program to Demonstrate multiple catch statement
19. Program to Demonstrate finally clause
20. Program to Demonstrate package

21. Program to Demonstrate interface
22. Program to Demonstrate Applet life cycle
23. Program to Demonstrate param tag
24. Program to Demonstrate Graphics class

Reference books :

1. Complete Reference Herbert schildt Tata McGraw – Hill publishing company Ltd.
2. Java 2programming black books steven Horlzner Dream Tech press
3. Core java volume – I Fundamentals Eighth Edition cay Horstmann – Gary Cornell.
Prentice Hall sun Microsystems press
4. Programming with java E Balagurusamy The McGraw Hill Education Pvt. Ltd . New
Delhi

B.C.M.IV SEM

XXVIII Business Law-II

**Theory 80
Sessional 20
Credits 4**

Unit - I Contract Act :

Special contracts – Law of Indemnity , Guarantee contracts . Law of Bailment & pledge. Agency contracts .

Unit - II Company Law 2013 :

Introduction of company Act meaning & Definitions. Features of Co. Act Types of Company share Capital & its types. Incorporation – Formation of company – Memorandum & Articles of Association.

Unit – III SEBI Act – 1992 :

Introduction of the Act Meaning & Definitions. Basic Characteristics of the Act Obligation of SEBI , Issue of capital . Discloser , Listing & its role in stock market.

Unit - IV Cyber & I.T Act – 2000 (with Amendment) : Need & significance in modern era character & user of Internet Technology . on Line contracts. Hacking phishing privacy Terrorism . privacy , section 66A

Unit – V

Micro Small & Medium Enterprises Development Act 2006 { MSMED Act – 2006} :
Introduction Definitions. Features of the Act Establishment of National Board of MSME . power & Duties of the Board classification of MSME. Promotional Measures of the Act

Reference Books :

1. Mercantile of Law - N. D . Kapoor
2. Business Law - Dr. Nowlakha
3. Indian contract Act - Dr . Avtarsingh
4. Mercantile & Industrial Law - Kuchal
5. Mercantile & Medium Enterprises Development Act 2006 { MSMED Act -2006 } – (Law policies & Incentive – Abha jaiswal . II BF, Taxman
- 6 Hand Books for MSME Enterprises - ICSI 1.1 Indirect tax structure in India; Difference between Direct & Indirect Taxes;
- 1.2 Introduction to Goods and Service Tax (GST) – Key Concepts
- 7 . MSME at a Glance - GOI Ministry of MSME

B.C.M.IV SEM

XXIX GST ACCOUNT

Theory 80
Sessional 20
Credits 4

Unit – I Introduction, Overview and Evolution of GST :

- 1.3 Important definitions, Meaning of terms used in GST, GST Council
- 1.4 Taxes under GST , Cess

Unit – II Registration under GST :

- 2.1 Threshold for Registration
- 2.2 Regular Tax payer; Composition Tax Payer; Casual Taxable Person; Non – Resident Taxable Person
- 2.3 Persons not liable for registration.
- 2.4 Compulsory registration in certain cases.
- 2.5 Procedure for registration.
- 2.6 Unique Identification Number
- 2.7 Registration Number Format

Unit – III Supply under GST and Valuation of Supply :

- 3.1 Supply , Place of Supply , Interstate & Interstate Supply,
- 3.2 Levy and Collection of IGST , CGST , SGST/UTGST
- 3.3 Time and Valuation of Supply

Unit – IV Input Tax Credit and Tax Payments under GST :

- 4.1 Input tax credit process
- 4.2 Negative List for Input tax credit
- 4.3 Input Tax Credit Utilization and Input Tax Credit Reversal
- 5.5 Payment of Tax, Interest and Penalties.

Unit – V Documents, Accounts & Records, Returns under GST :

- 5.1 Tax Invoice , Credit & Debit Notes.
- 5.2 Accounts and other records to be maintained.
- 5.3 Types of GST returns, particulars to be furnished, their due dates, filing, late fee.
- 5.4 Annual Return and Audit under GST.

Unit – VI Others :

- 6.1 Overview of Schedule Entries and Tariffs under GST
- 6.2 E – Way Bill Procedure.
- 6.3 Accounting Entries (Journal entries, Ledger Posting) of GST Transactions.

Reference Books :

- 1. Indirect Taxes : V. S. Datey – Taxman Publication
- 2. M Vat Subramanian Snow White Publication
- 3. Systematic Approach to Taxation – Dr. Girish Ahuja & Dr. Ravi Gupta

B.C.M.IV SEM

XXX Advance Networking

**Theory 50
Practical 50
Credits 4**

Unit – I Basics of Computer Networks:

Computer Network , Definition, Goals. Applications, structure , components Topology – Bus , star , Ring , mesh Types of Networks , LAN , MAN , WAN , Internet , Broadcast & point – To – Point Networks communication Types – serial , parallel, modes of communication : simplex , Half Duplex , Full Duplex , server Based LANs & peer – to peer LANs , comparison of both protocols and standards

Unit – II Network Models :

Design issues of the layer, protocol Hierarchy , ISO – OSI Reference model – layers in the OSI model , functions of each layer , Terminology SAP connection Oriented services, connectionless services , peer Entities Internet model (TCP / IP) Comparison of ISO – OSI & TCP / IP Model , Addressing - physical Addresses , Logical Addresses , port Addresses ,

Unit - III Transmission Media :

Guided Media (wired) coaxial cable , Twisted pair , Fiber optics cable . Unguided media (wireless) Network connectivity Devices – categories of connectivity Devices , passive & Active Hubs Repeaters Bridges Transparent Bridges (Loop problem . spanning Tree) source Routing Bridges switches , Router , Gateways Network security Devices – Firewalls , Packet – filter firewall proxy firewall

Practical Exam : Any suitable practical based on above syllabus .

Reference Book :

1. Computer Networks – Andrew Tanenbaum (III Edition)
2. Internetworking Technology Handbook , CISCO System
3. Data communications & Networking – Behrouz Ferouzan (III Edition)
4. Complete Guide to Networking – peter Norton

B.C.M.IV SEM

XXX BASIC OF WEB TECHNOLOGY

Theory 50
Practical 50
Credits 4

Unit - I HTML & Forms

Introduction To HTML WWW, W3C Web publishing . common HTML , Tags Physical & Logical . some basic tags like, changing background color of page , text color etc, Text formatting tags , tags ordered & Unordered Lists Tags. Inserting image Linls : tex . image links image mapping

Unit - II Table

Tables. Frames, Form Introduction with text box. area, buttons. List box , radio, checkbox. Header & footer . Index form creating mobile responsive, videos, songs.

Unit -III CSS

Introduction To Style sheet types of style sheets – Inline External Embedded CSS , text formatting properties CSS Border. Margin properties . positioning use of classes in CSS, color properties use of <div> & < spam > padding cssmultiple columns.

Unit IV JavaScript Basic

Introduction to java script variable commands operations, syntax objects, data types, java Script DOM theory

practical Exam : Any suitable practical based on above syllabus .

Reference Books :

1. HTML. DHTML. javaScript perl & CGI Ivan Bayross
2. HTML & CSS : The complete reference , fifth Edition By Thomas powell
3. Html , Xhtml. And Css Bible (English) 5th Edition (paperback) by Schafer , Steven
4. HEAD FIRST HTML AND CSS 2 / ED (UPDATED FOR HTML) by ROBSON
5. Beginning HTML and CSS (English) (paperback) by Rob Larsen
6. Learn to code HTML and CSS (English) (paperback) by Howe
7. Javascript Bible (English) 7th Edition by Danny Goodman Michael Morrison paul Novitski Tia GustaffRay
8. Javascript programming : pushing the limits (English) I st Edition By (2013) jon Raasch

Head First javaScript (2007) by Michael Morrison

FACULTY OF COMMERCE & MANGEMENT.

Syllabus – Bachelor of Computer Management (B.C.M.)

Choice Based Credit System (CBCS) -2021-22

FIFTH SEMISTER

Paper Number	Subject/Title the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory
			Th	Pr	Th	Pr				
XXV	Management Accounting	Core Course	4	-	4	-	20	80	100	Exam 3Hrs
XXVI	Organisational Behaviour	Core Course	4	-	4	-	20	80	100	3 Hrs
XXVII	OPPS using c ++	Core Course (Theory)	3	-	2	-	-	50	50	2 Hrs
		Practical	-	1	-	2	-	50	50	2 Hrs
XXVIII	Administrative Practices	Core Course	4	-	4	-	20	80	100	3 Hrs
XXIX	Retail Management	Ability Enhancement Compulsory	4	-	4	-	20	80	100	3 Hrs
XXX	1.Banking & Insurance OR 2.Hospitality Management	Discipline Specific Elective (AnyOne)	4	-	4	-	20	80	100	3 Hrs
	Total		23	1	22+2 =24		100	500	600	---

*Note :- As per UGC norms one theory is equal to two practical

B.C.M.V SEM

XXV MANAGEMENT ACCOUNTING

Theory 80
Sessional 20
Credits 4

UNIT – I

Definition, Objectives, Scope and Functions of Management Accounting, Management Accounting and Financial Accounting, & Limitations of Management Accounting

UNIT – II

Analysis and Interpretation of Financial Statement

UNIT – III

Funds Flow Analysis – Nature, Importance, Advantages of Fund Flow Analysis – Techniques used for construction of Funds Flow Statement (Simple Illustrations)

UNIT – IV

Cash Flow Analysis – Nature, Importance, Advantages of Fund Flow Analysis – Techniques used for construction of Funds Flow Statement (Simple Illustrations)

UNIT – V

Ratio Analysis – Nature of Ratio Analysis – Significance – Calculation of Ratios – I. liquid Ratio – Fixed Assets – Turnover Ratio– Operating Ratio, Stock Turnover Ratio, Debtors Turnover Ratio, Creditors Turnovers Ratio, Debt Equity RATIO

Suggested Readings :

1. Management Accounting : Klian, M. Y. & Jain , P. K.
2. Management Accounting : Maheshwari , S. N.
3. Management Accounting : Sharlna, R. K.
4. Management Accounting, M. E. Thukaram Rao, New Age International
5. Management Accounting, Khan & Jain, TMH
6. Cost Accounting – An Introduction, Nigam & Jain, PHI
7. Management Accounting, Pande. VIKAS

B.C.M.V SEM

XXVI ORGANISATIONAL BEHAVIOUR

Theory 80
Sessional 20
Credits 4

UNIT I

Definition and meaning of organizational behavior, role and importance of organizational behavior, OB Model.

UNIT II

Nature of personality, Theories of personality : type theory, Trait theory, psychoanalytic theory, social learning theory, Maslow' s self actualization theory, concept of Learning, Theories of Learning.

UNIT III

Perception and factors influencing perception concept of Motivation ,Motivation Theories and principles

UNIT IV

Attitude and components of attitude, formation of attitude work related Attitude, values, Terminal and instrumental values, Organizational values, impact of attitude and values of individual on his performance.

BOOKS Recommended

1. Robbins S. R ; Judge. T. A ; Sanghi. S., " Organizational Behaviour " 13 th Edition, pearson Education , 2009.
2. Luthans F. " Organizational Behaviour " 7 th EDITION, Mcgraw Hill.
3. Aswathappa, K. " Organizational Behaviour " 9 th Edition, Himalaya publishing Hourse.

B.C.M.V SEM

XXVII OPSS using C++

Theory 50

Practical 50

Credits 4

Unit – I Introduction to C ++ :

Basic concepts object oriented programming class object Data Abstraction benefits & applications of Oop. Structure of C ++ program creating a source file compiling and Linking Tokens Expressions and control structures : Introduction. Tokens. Keywords. Identifiers and constants Data types – Basic User defined and Derived Symbolic constant. Type compatibility variables – Declaration and Dynamic initialization Reference variable operators in C ++. Scop resolution operator member Referencing operators memory management operators manipulators. Type cast operators Expression and their types special Assignment Expressions. Implicit conversions, operator overloading introduction. Operator precedence control structures – if – else . do While for switch (8)

Unit – II Functions in C ++ :

Introduction. The main function function prototyping. Call by reference Return by Reference Inline function – Making an outside function Inline Arguments – default constant. Math library functions. (14)

Unit – III Classes and Objects :

Introduction creating a class and objects Defining member functions inside and outside class Nesting of member functions. Private member functions. Arrays within a class. Memory allocation of objects static data members and static member functions. Array of objects object as function arguments. Friend functions. Returning objects constructors. Types of constructor. Destructors.

Unit – IV Inheritance :

Introduction Base class and derived class examples . Types of Inheritance. Virtual base class Abstract class constructors in derived class

Unit – V Polymorphism :

Compile Time polymorphism function overloading operator overloading Introduction overloading unary and binary operator overloading using friend function overloading insertion and extraction operators string manipulation using operator overloading Runtime polymorphism pointers to objects pointer to derived classes virtual functions and pure virtual functions

Practical Exam : Any suitable practical based on above syllabus .

Reference Books :

1. Object oriented programming with C ++ - by E Balagurusamy Tata McGraw – Hil lPublishing.
2. Object Oriented Programming with C++ by Robert Lafore Galgotia
3. Let us C ++ Yeshwant Kanetkar. BpB PUBLICATIO

B.C.M.V SEM

XXVIII ADMINISTRATIVE PRACTICES

**Theory 80
Sessional 20
Credits 4**

Unit –I Role of company executives :-
Company Secretary , Board of Directors.

Unit – II Law & procedure of meetings
General principles of law & practice relating to meetings.

Unit –III Distinction between public and private meetings.
Rights and restrictions regarding the holding of meetings, preservation of order at meeting

Unit – IV The power & duties of chairman
The requisites of valid meeting, notice. Constitution, quorum, agenda , papers , minutes, motions.

Unit – V Voting & proxies.
Adjournment, rules of debate . including formal (or procedural) motions. The committee system and its operation.

Unit - VI principles of security of documents and filing information

REFERENCE BOOKS :

- 1) Lectures on company law – shantilal mohanlal shah – N. M. Tripathi – Pvt . Ltd . Mumbai
- 2) Business Organisation – Y K Bhushan
- 3) Business Organisation – sherlekar

B.C.M.V SEM

XXIX RETAIL MANAGEMENT

Theory 80
Sessional 20
Credits 4

Objective : This course presents the basics of retailing, trends in retailing, evolution of retailing and global retail markets. This course enables students to learn the basics in retailing, evolution and trends in retailing

UNIT – I

Retail Meaning – Functions and special characteristics of a Retailer – Reasons for studying. Retailing – Marketing – Retailer Equation – Marketing concepts applied to retailing – Retailing as a career – Trends in Retailing .

UNIT – II

Retail Model and Theories of Retail Development – Life cycle and phase in growth of retail markets – Business models in retail – other Retail models.

UNIT – III

Strategic Planning in Retailing : Situation Analysis – Objectives – Need for identifying consumer needs – Overall strategy, feedback and control – consumer decision – making process.

UNIT – IV

Retail in Evolution and Size of retail in India – Drivers of retail change in India – Foreign Direct Investment retail – Challenges to retail; developments in India.

UNIT – V

Global retail markets : Strategic planning process for global retailing – Challenges facing global retailers – Challenges and Threats in global retailing – Factors affecting THE Success of a global retailing strategy U. S. retailers and foreign markets – Foreign retailers and U. S. markets.

Suggested Readings :

- 1.Swapna Pradhan – Retailing Management – Text and Cases , Tata McGraw Hill – 2 edition, 2004
- 2.Barry Berman and Joel R Evans – Retailing Management – A Strategic Approach, Prentice Hall of India, 8th Edition, 2002.
- 3.James R. Ogden, Denise Ogden – Integrated, Retail Management – Biztantra 2005
- 4.Gibson G Vedamani – Retail Management – Functional Principles and Prectice , Jaico Publishing House, Second edition, 2004

B.C.M.V SEM

XXX BANKING AND INSURANCE

**Theory 80
Sessional 20
Credits 4**

Objective :

Business needs fund for establishment, growth and development , Simultaneously every business bears a certain amount of risk and operates under uncertainties . in this context Banking and Insurance facilitate the business operation. This module has been designed to acquaint the learners with various services provided by Banking and Insurance to the business sector.

Unit – 1:Banking

Meaning and role of Bank, Type of Banks, Functions of a Commercial Bank

Unit – 2 :Bank Deposit Account

Bank deposit accounts – Type, Opening and operating of Saving Bank Account

Unit – 3 : Negotiable Instruments

Meaning and importance, Types – Hundis, Bills of Exchange, Promissory Note, Cheque

Unit – 4 :Insurance

Concept and importance of Insurance, Principles of Insurance, Growth & Development of Indian Insurance Industry – Regulations of Insurance Business and Tbe Emerging Scenario Insurance – Essentials of Life & Insurance Contract – Kinds of Insurance Policies Premium determination – Life Policy Conditions .

Suggested Readings

- 1.Sundhram, K. P. M. Banking Theory Law and Practice, Sultan Chand & Co Lid, New Delhi.
- 2.Read, E. W. Commercial Bank Management, Harper and Row Publishers New York
- 3.Varshney, P. N. Banking Law and Practice, Sultan Chand & Sons, New Delhi
- 4.Seth, Marketing of Banking Services, Macmillan India Ltd ., New Delhi,
- 5.Nigam. B. M. Lal. Banking Law & Practice, Konark, New Delhi

B.C.M.V SEM

XXX HOSPITALITY MANAGEMENT

Theory 80
Sessional 20
Credits 4

Objective : To explain Business Management of Tourism sector.

Unit – I

The World of Hospitality : Introduction to Hotel, Travel and tourism Industry – Nature of Hospitality : Communication, Turnover, Demands and Rewards

Unit – II

The Organization and Structure of Lodging Operations : Size and Scope of the Industry – Classifications of Hotels – Hotel Market Segments – Organization of Hotels – Organization of Hotel and Restaurant Food Service – Management and Operation of Food Services

Unit – III

The Rooms Division : The Office Department – The Reservation Department – The Telecommunications Department – The Uniformed Service Department

Unit – IV

Hospitality Marketing : Distinctive Characteristics – Seven Ps of Marketing – Segmentation, Targeting and Positioning – Future trends in Hospitality Industry : Usage of CRS in Hotel Industry, Chain of hotels – Role of Associations in hospitality management

REFERENCE :

- 1.Gray and Ligouri: Hotel and Management and operations (Delhi : Prentice Hall India) 2002
- 2.Andrews : Hotel front office training manual Bombay : Tata McGraw Hill, 2002.
- 3.Negi Hotels for Tourism Development Delhi : Metropolitan India, 2004.
- 4.Negi Professional Hotel Management Delhi : S. Chand 2003.

FACULTY OF COMMERCE & MANGEMENT.

Syllabus – Bachelor of Computer Management (B.C.M.)

Choice Based Credit System (CBCS) -2021-22

SIXTH SEMISTER

Paper Number	Subject/Title the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
XXXI	Elements of Commercial Portals	Core Course	4	-	4	-	20	80	100	3Hrs
XXXII	Business Law III	Core Course	4	-	4	-	20	80	100	3 Hrs
XXXIII	System Programming	Core Course (Theory)	3	-	2	-	-	50	50	2 Hrs
		Practical	-	1	-	2	-	50	50	2 Hrs
XXXIV	Software Testing	Core Course (Theory)	3	-	2	-	-	50	50	2Hrs
		practical	-	1	-	2	-	50	50	2Hrs
XXXV	Project	Ability Enhancement Compulsory Courses (Practical)	-	8	-	4	-	100	100	3 Hrs
XXXVI	1.Services Marketing OR 2.Export Management	Discipline Specific Elective (Any One)	4	-	4	-	20	80	100	3 Hrs
	Total		18	10	16+8 =24		60	540	600	—

*Note :- As per UGC norms one theory is equal to two practicals.

B.C.M.VI SEM

XXXI ELEMENTS OF COMMERCIAL PORTALS

**Theory 80
Sessional 20
Credits 4**

Unit I

Internet Technology, Packet switched networks, TCP/IP Internet protocols, Domain Names, URL, HTTP, FTP, POP, SMTP, IMAP, PING.

Unit II

Markup languages and Web , Introduction of SGML, HTML & XML, links, HTML Editor, Web Client /Server Architecture and Communication, Internet, intranet, extranet, VPN, ISP, IAP.

Unit III

Web Server, WEB server hosting performance evaluation, Web Server Software features, Site Management, Site Development.

Unit IV

Web Server Software, Apache HTTP Server, IIS, Netscape Enterprise Server, Web Server tools, Web portals, Search Engine, Intelligent agent, push technologies.

REFERENCE :

- 1.Gary p. Schneider & James Perry “ E lectronic Commerce , Thomas Course Technology
- 2.Ravi kalakota & Marcia Robinson “E- Business” Pearson Education,

B.C.M.VI SEM

XXXII BUSINESS LAW III

**Theory 80
Sessional 20
Credits 4**

Unit I

Concept of Cyber Crime and IT Act 2000, Hacking, Teenage Web Vandals, Cyber and Cyber Cheating, Virus on the Internet, Defamation, Harassment and E – mail Abuse , Cyber Pornography, Other IT Act Offences, Monetary Penalties, Adjudication and Appeals under IT Act 2000, Network Service Providers, Jurisdiction and Cyber Crimes, Nature of Cyber Criminality Strategies to Tackle Cyber Crime and Trends, Criminal Justice in India and Implications on Cyber Crime.

Unit II

Contracts in the Infotech World, Contract Formation on Internet, Terms and Conditions on Contracts.

Unit III

Copyright – Meaning, Ownership and Assignment, Licence of Copyright, Copyright Protection of Content on the Internet.

Unit III

Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liabilities.

Unit IV

Protection of Cyber Consumers in India – Consumer Protection Act , Consumer Complaint, Defects in Goods and Services, Restrictive and Unfair Trade Practices, Instance of Unfair Trade Practices, Reliefs under CPA, Consumer Foras, Jurisdiction and Implications on Cyber Consumer in India.

REFERENCE :

1. Vivek Sood, “Cyber Law Simplified” ,McGraw Hill
2. Suresh T. Vishwanathan , “The Indian Cyber Law” , House.

B.C.M.VI SEM

XXXIII SYSTEM PROGRAMMING

Theory 50
Practical 50
Credits 4

Unit I

Evolution and components of system programming, Assembler, Loaders, compilers, macros, Interpreters, Linkers.

Unit II

machine structure, machine language & Assembly language.

Unit III

Assembler : Functions of assembler, general design procedure, design of assembler, Table processing searching and sorting techniques.

Unit IV

Loader : Loader schemes, compiler & Go Loader, General Loader scheme. Absolute loaders subroutine linkages. Relocating loaders, Direct linking loaders.

Unit V

Macros : macro language & processors feature of macro facility, macro Instruction, arguments.

programming languages : Importance of High Level Language, Features. Data Types and data structure, storage allocation, accessing flexibility, Functional modularity.

practical Exam : Any suitable practical based on above syllabus .

REFERENCE :

1. John N.Donavan “ System programming “ Tata McGraw Hill.
2. D.M. Damdhare “ system programming & operating system “ Tata McGraw Hill

B.C.M.VI SEM

XXXIII Software Testing

Theory 50
Practical 50
Credits 4

Unit – I

Quality Concepts

Software and Quality, Garvin' s Quality Dimensions, McCall ' s Quality factors, ISO 9126 Quality Factors , Risk, Quality and Security , SB Methods, project Management Techniques, Quality Control and Assurance

Quality Assurance

Elements of software Quality Assurance, SQA Task Goals and Matrices,

Formal Approach to SQA , Six sigma for SE, ISO 9000 Quality Standards, SQA Plan.

Unit – II

Software Testing strategies

Verification and Validation. Picture of software Testing strategies, criteria for complication of testing strategies issue, strategies for conventional software and web Apps, Validation Testing, system Testing Debugging.

Unit – III

Testing Conventional Applications

Testing Fundamentals, Internal and External view white – Box Testing basic path Testing, control Structure Testing Black – Box Testing Testing client – server Architecture.

Testing web Applications

Dimensions of Quality, Errors within a web App, Testing strategy and planning Testing process, content Testing Database Testing User Interface Testing Navigation Testing configuration Testing Load Testing stress Testing

Practical : Any suitable practical based on above syllabus .

Reference Books :

1. Software Engineering a Practitioner's Approach By Roger S. pressman (seventh Edition) McGraw Hill.
2. An Integrated Approach to software Engineering, pankaj jalote, Narosa

B.C.M.VI SEM

XXXIV Project Work

**Practical 100
Credits 4**

Project Report will completed by very student under the supervision of a teacher. The project work must be completed before commencement of theory examination. In case he fails to do so or if he fails in the project work he will be required to take fresh admission for the project work and pay the requisite fee. The valuation of the work will be based on the written the oral presentation, the home assignments and the practical library work done by the student. The project should relate to the application of Computer in real-life situation. It may use and one or more programming languages he has learnt.

The project work shall be the external examiner, appointed by the university

B.C.M.VI SEM

XXXVI SERVICES MARKETING

**Theory 80
Sessional 20
Credits 4**

Objective : The course aims at making students understand concept, philosophies of processes and techniques of managing the service operations of a firm .

Unit I

Introduction : Difference between product and services marketing ; Characteristics of services; Classification of services; paradigms in services marketing service marketing system : service quality; Understanding customer expectations and Zone of tolerance; segmentation and zone of tolerance; Targeting and positioning of service.

Unit II

Services marketing mix : Augmented marketing mix Developing the service product / intangible product; service product planning service pricing strategy; services promotions; services distribution

Unit III

Physical evidence : Role of communication in service marketing; people and internal communication; process of operation and delivery of services; Role of technology in service marketing.

Unit IV

Marketing the Financial services : Deciding the services Quality, Understanding the customer expectation segmenting targeting and positioning of Financial services, Devising Financial services marketing mix strategies with special reference to credit cards Home Loans. Insurance and Banking.

Suggesting Readings

1. Lovelock – Services marketing : people Technology and strategy (pearson Education. 5th edition) 2001.
2. Rampal and Gupta – services marketing – sultan chand
3. Bhattacharjee – services marketing – Excel publishers
4. Zeithaml - services marketing (Tata McGraw – Hill, 3 rd edition) 1999.
5. Rama mohana Raok – services marketing (pearson Education)
6. Govind Apte – services marketing (Oxford Univ. press)

B.C.M.VI SEM

XXXVI EXPORT MANAGEMENT

**Theory 80
Sessional 20
Credits 4**

Objective: This subject Presents the obstacles, strategies to globalization and the hurdles in exporting in the organization . This subject enables the students to learn the globalization and exports concepts with respect to Indian Economy.

UNIT – I

India' s merchandise trade – review of the trade performance – comparative export performance of India – Share of India in World Exports – Hurdles in Exporting from India- Infrastructural bottlenecks – structural weakness.

UNIT – II

Exports from India – Preliminary for starting export – Kind of Export Business organization Factors – Mode of operations – Naming the business- Selecting the company- profile of the company – Details

UNIT – III

Selecting export markets – selecting prospective buyers-Selecting channels of distribution – Negotiating with prospective buyers-processing an export order Entering into export contract – Different aspects of export contract-Arbitration.

UNIT –IV

Incentives :Incentives – as tool promotion of exports- Duty drawback-bonafide of MODVAT –awards –CCS-Import Replenishment (REP)LICENSES – IPRS – Other incentives- Promotion Measures & assistance for export of Garments – Software-Leather – Handloom- Marine Product exports,

UNIT – VI

Special Economic Zones: SEZ – Objectives – Advantages to exporters – Incentives – Evaluation – Foreign Trade, Policy and SEZs –Current issues-Future ofr SEZs.

Suggested Readings :

- 1.Export Management – Cherunilam Francis- Prentice Hall
- 2.Foreign Exchange & Risk Management Dr. Jeevanandam. Sultan Chand.
- 4.Indian Economy : Performance and Policies – Uma Kapila
- 5.Exporter' Manuel – Nabhi publications