DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.SU/Commerce&Management/MPM/B.Com.E-Com./45/2021

It is hereby inform to all concerned that, on recommendation of the Faculty of Commerce & Management, in its meeting dated 12-08-2021 the Hon'ble Vice-Chancellor in his emergency powers under Section-12(7) of the Maharashtra Public Universities Act, 2016 has accepted the syllabus of **MPM IInd year and B.Com. E-Commerce IIIrd Year** under Choice Based Credit & Grading System on behalf of the Academic Council to be applied from the Academic Year 2021-2022 and onwards.

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/ COMMERCE/2020-21 609-18
Date:- 02-09-2021.

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 on University Website.**

Copy to :-

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

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Curriculum of B.COM.E-COMMERCE

IIIRD YEAR

FIFTH & SIX SEMESTER

under Choice Based Credit & Grading System

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

Dean (Professor Syed Azharuddin) Salve K.L.

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

SYLLABUS OF

B.COM (E-COMMERCE)-FIFTH SEMESTER

UNDER CBCGS

W.E.F. 2021-22

B.Com (E-Commerce)

Faculty of Commerce & Management

B.Com (E-Commerce) Fifth Semester (15 Weeks Teaching)

Paper No.	Subject/ Title of the paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration Of Theory Exam
			Th	Pr	Th	Pr				
XXV	Management Accounting-I	Core	4	-	4	-	20	80	100	3 Hrs
XXVI	Auditing	Core	4	-	4	-	20	80	100	3 Hrs
XXVII	E-Banking	Core	2		2	-		50	100	2 Hrs
				4		2		50		
XXVIII	Data Structure	Ability enhancement Compulsory Courses	2		2		-	50	100	2 Hrs
				4		2	-	50		
XXIX	System Analysis	Ability enhancement Compulsory Courses	2		2		-	50	100	2 Hrs
				4		2	-	50		
XXX	Business Regulatory Framework or Digital Marketing	Discipline Specific Elective	4	-	4	-	20	80	100	3 Hrs
	Total		20	8	18+06=24		60	540	600	--

B.Com (E-Commerce)

Faculty of Commerce & Management

B.Com (E-Commerce) Sixth Semester (15 Weeks Teaching)

Paper No.	Subject/ Title of the paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration Of Theory Exam
			Th	Pr	Th	Pr				
XXXI	Adv Financial Accounting	Core	4	-	4	-	20	80	100	3 Hrs
XXXII	Direct Taxes	Core	4	-	4	-	20	80	100	3 Hrs
XXXIII	Python Programming	Core	2		2		-	50	100	2 Hrs
				4		2		50		
XXXIV	MIS & Data Security	Ability enhancement Compulsory Courses	2		2	-	-	50	100	2 Hrs
			-	4	-	2	-	50		
XXXV	ERP	Ability enhancement Compulsory Courses	2	-	2	-	-	50	100	2 Hrs
			-	4	-	2	-	50		
XXXVI	Project	Core	-	8	-	4	-	100	100	--
	Total		14	20	14+10=24		40	560	600	--

Note: As per UGC circular one theory lecture is equal to two practical's

B.COM E-Commerce V SEM (CBCGS) 2021-22

Paper No.XXV
Management Accounting –I

Total Marks 100
Theory 80
Sessional 20

Objectives:

- To introduce the students to the theoretical and practical aspects of management accounting.

Course Outcomes:

On successful completion of this course the students will be able to:

- evaluate financial performance of organisations.
- to take decisions using management accounting tools and techniques.

		No. of lectures
Unit-I	**Introduction to Management Accounting:** Meaning definition features scope importance and functions of management account differences between management accounting financial accounting and cost accounting and advantages and limitations of management accounting	08
Unit-II	**Analysis and interpretation of financial statements:** Meaning, Definition, Objectives, Scope of Financial Statements Financial Statement Analysis, Tools of Financial Statement Analysis, ComparativeFinancial Statement, Common Size Financial Statement, TrendAnalysis	10
Unit-III	**Ratio Analysis** Meaning, Advantages, Limitations, Classification of Ratios, Gross Profit Ratio, Net Profit Ratio, Return On Capital Employed Ratio, Inventory Turnover Ratio, Debtors &Credit Turnover Ratio, Current Ratio, Liquid Ratio, Proprietary Ratio(Numeric only)	14
Unit-IV	**Fund Flow Statement** Meaning, Uses, Limitations, Sources & Uses of funds, Funds from operations, Statement showing changes in Working Capital, Funds Flow Statement (Only in Statement Form) and preparation of necessary ledger accounts(Numeric only)	14
Unit-V	**Cash Flow Statement** Meaning, Uses, Limitations, Cash Flow Statement as per revised Accounting Standard-3 in Statement form, Preparation of necessary ledger accounts(Numeric only)	14
	Sessional Work: 20 marks 1. Test/Tutorial -10 marks **2.** Analysis of financial statements (Any 5 statements): 10 marks	

Reference Books: 1. Dr.S.N.Maheshwari-Management Accounting-Everest Publishing House, New Delhi
2. Advance Management Accounting - Kaplan R.S. & Atkinson
3. Management Accounting - Manmohan and Goya!
4.Management Accounting - H. Sarkar
6. Management Accounting - Khan M.Y. & Jain PK

B.COM E-Commerce V SEM (CBCGS) 2020-21
Paper No.XXVI
AUDITING

Total Marks 100
Theory 80
Sessional 20

Objectives:

- To acquaint the students with principles of Auditing.
- To provide the students practical knowledge about preparation and maintenance of Cost records in various types of service organizations.

Course Outcomes:

On successful completion of this course the students will be able to:

- Understand the relevance of auditing for organisations.
- Apply principles and techniques of Auditing.
- Prepare Audit reports.

		No. of lectures
Unit-I	**Introduction:** Meaning and Objectives of Auditing,Types of Auditing, Principles of Auditing, Advantages and Limitations of Auditing, Auditing Vs Accounting, Auditing Vs Investigation	10
Unit-II	**Audit Planning and Control Procedures** Audit Programme- Meaning, Factors Affecting Audit, Sources of Obtaining Information, Discussion With Client, Advantages and Disadvantages of Audit Programme, Instructions before commencing Audit, Audit Notebook, Working Papers and Evidences.	12
Unit-III	**Vouching and Verification** Vouching:Meaning, Need andimportance of Vouching, Vouching of Cash and Credit Transaction, Verification of Assets andLiabilities, Valuationof Assetsand Liabilities, Audit Report- Elements of Audit Report, Typesof Audit Report Qualified and Clean Report	14
Unit-IV	**Company Auditor** Eligibility and Appointment of Auditor, Qualifications, Disqualifications, Rotation andRemoval of Company Auditor, Powers and Duties of Company Auditor, LiabilitiesandRemuneration of Company Auditor	12
Unit-V	**Recent Trends in Auditing** Nature and Significance of Cost Audit, Tax Audit, Management Audit and Investigation, Changing Role of Auditors in Computerized Accounting System, Forensic Audit and Conceptual Understanding Of Standard Auditing Practices	12
	Note: Sessional to be taken per the requirement of the subject. College can take decision on its own	

Reference books

1. B.N.Tandon, Handbook of practical auditing
2. Ravindra Kumar, Auditing: Principles And Practice, PHI Learning Pvt.Ltd.

B.COM E-Commerce V SEM (CBCS) 2021-22

Paper No.XXVII
E-Banking

Total Marks : 100
Theory: 50
Practical:50

Objectives:

- To acquaint the students with fundamentals of e-banking.
- To provide the students practical knowledge about the e-banking services popularly provided in 21st century

Course Outcomes:

On successful completion of this course the students will be able to:

- Understand the relevance of e-banking
- Utilise opportunities offered by this relatively new set of technologies

		Lectures/Practicals
Unit-I	**Anatomy of Banking in India:** Concept-Definitions-Types of Banks- Functions of banks- Emergence of technology and its implications on banking- New trends in banking services	12
Unit-II	**Electronic Banking:** Concepts-Types-Applications-Role-Banking Sector and Information Technology- Payments & Settlement System- RTGS and Clearing houses	12
Unit-III	**Delivery Channels:** Introduction –concept and meaning-the electronic delivery channels- need for computerization- Automated Teller Machine(ATM) – Electronic Fund Transfer(EFT)- uses – computerization in clearing houses-POS-Mobilebanking-Mobile Banking-Credit/Debit Cards, Secure Electronic Transfer(SET), Payment Gateways (Credit card/Debit cards), Authentication of payments, etc.	14
Unit-IV	**E-Banking Security:** Introduction need for security –Security concepts-Privacy – Survey. Findings on security-Attack-Cyber crimes-Reasons for Privacy- Tampering-Encryption –Meaning-The encryption process-may appear as follows - Cryptogram-Cryptanalyst-cryptography-Types of Cipher systems –Code systems-Cryptography-Cipher-Decipher-Jumbling-Asymmetric-Crypto system-Data Encryption Standard (DES).	16
	Practicals: 1. Working of Payments and Settlement systems. 2. Examining the working Mechanisms of ATM's and EFT's. 3. Working Knowledge of Telebanking 4. Knowledge of working Mechanisms of Encryption and E-Security.	

REFERENCE BOOKS:

1. C.S. Rayudu, E-Business, Himalaya Publishing House.
2. Uppal R.K: E-Banking in India
3. Subramani N: E-Banking & E-Commerce, Abhijeet publications

B.COM E-Commerce V SEM (CBCGS) 2021-22

Total Marks 100
Theory 50
Practical 50

Paper No. XXVIII
Data Structure

Objectives:

To equip the students to design and implement various basic and advanced data structures.

Course Outcomes:

On successful completion of this course:

- Students will be able to handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures.
- Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc.
- Students will be able to use linear and non-linear data structures like stacks , queues , linked list.

		Lect/Practical
UNIT-I	Introduction to Data Structure Data object & structure,Types and classification, Linear and Non LinearStructures.	12
UNIT-II	Arrays Linear Linked List, Operations of Traversing, insertion and deletion of nodes	12
UNIT-III	Stacks- Operations, array and linked representations of stacks, stack applications , Stack Traversing - PUSH and POP operations.	14
UNIT-IV	Queue Structures ~ Traversal — Insertion and Deletion operations in a QUEUE	10
UNIT-V	Non Linear Structures ~ Trees and Graph — Binary Tree Traversing, Binary Search Tress~ AVL Trees — Path Cycle adjacency, Graph representation, Graph searching Sorting andSearching operations in different structures.	12
	Practical: Algorithm implementation to be done in any programming language.	

Refernce Books:

- **Lipschutz , Data Structure & Pascal**
- **Sartaj Sahani, Data Structure**
- **Bhagat Singh & NAP, Data Structure**
- **Dromey R.G, How to solve it by Computer, Pearson**

B.COM E-Commerce V SEM (CBCGS) 2021-22

Total Marks 100
Theory 50
Practical 50

Paper No. XXIX
System Analysis

Objectives:
The course has been designed to provide a solid foundation of systems principles and an understanding of how business function, while acquainting students to the issues analysts face daily.

Course Outcomes:
On successful completion of this course:
- *Students will be able to understand the concept and types of systems.*
- *Students will be oriented about roles and responsibilities of System analysts.*

		LECTURES
UNIT-I	System Concepts: Definition, Characteristics of system, Elements of system,Input, Process, Output, Feedback, Control, Environment, Boundaries andinterface. Types of System open or closed, Physical or abstract.	**12**
UNIT-II	System Analysis: Definition, initial investigation, stages of system's analysis, information gathering, Interviews, questionnaire , on site observation. System Analyst: System Analyst, Role of analyst, Qualities and Qualification,Rising position of system analyst.	**14**
UNIT-III	System Development Life Cycle: Introduction to System Development. Life Cycle, Recognition of need, Problem, Feasibility Study, analysis, DesignImplementation, Post implementation and maintenance, Prototyping	**12**
UNIT-IV	Feasibility Study: Introduction Definition, Types of Feasibility study, Feasibility report,	**10**
UNIT-V	System: Tools: Tools of structured analysis, Charts, DPD, Data Dictionary, Decision, Table, Decision Tree	**12**
	Practicals: Detailed study of atleast four system development cases.	

Books:

1. Etias 'M Awad "System Analysis & Design" Galgotia Publication.
2. V. Rajaraman " Analysis & Design of Information System" Prentice Hall of India.
3. System Analysis and Design Methods, Whitten, Bentaly and Barlow, Galgotia Publication.
4. Modern System Analysis and Design, Jeffrey A. Hofer Joey F. George Joseph S. Valacich Addison Weseley.

B.COM E-Commerce V SEM (CBCS) 2021-22

Paper No.XXX
Business Regulatory Framework (Elective)

Total Marks : 100
Theory: 80
Sessional: 20

Objectives:

- To acquaint the students with business laws.
- To provide the students practical knowledge about legal framework within which businesses have to perform.

Course Outcomes:

On successful completion of this course the students will be able to:

- Understand the provisions of various business laws
- Abide by the legal framework of businesses

		No. of lectures
Unit-I	The Indian Contract Act 1872 Meaning, Nature of Contract, Elements of Valid Contract, Proposal, Acceptance, Free Consent, Consideration, Agreement Declared As Void, Performance of Contract, Discharge of Contract, Remedies For Breach of Contract	14
Unit-II	Special Contracts: Contract of Bailment and Pledge- Meaning, Duties and Rights of Bailor and Bailee Contract of Agency- Definition, Creation, Termination, Rights and Duties of Agent and Principal	12
Unit-III	Negotiable Instrument Act (Amendment) Act, 2002: Definition, Feature of promissory note, Bill of exchange and cheque, Holder and Holder In Due Course, Crossing anddishonourof Cheques, Dishonour of negotiable instruments, Discharge from liability on Negotiable instruments	12
Unit-IV	Company Act 2013 Introduction to Company Law, Principles And Concepts, Types of Company, Share Capital and Its Types, Formation of Company, Memorandum of Association, Articles of Association Company Administration & Meetings, Rights and Duties of Company Secretary, Company Audit Procedure, Winding up of Company	14
Unit-V	Intellectual Property Rights Introduction to Intellectual Property Rights, Types of Intellectual Property, Trademarks, Purpose And Function of Trademarks, Law of Copyrights, Creative Commons	8
	Sessional: Test-10 marks Tutorial-10 marks	

REFERENCE BOOKS:

1. Dr.AvtarSingh : Company Law; Eastern Book Company, 34, Lalbagh, Lucknow.
2. C.R. Datta :Datta on the Company Law; Lexis Nexis, Butterworths Wadhwa, Nagpur
3. A. Ramaiya : Guide to the Companies Act; Lexis Nexis, ButterworthsWadhwa,Nagpur
4. Corporate Law- Bharat Law House Prt Ltd. New Delhi.
5. Desai. T.R. Indian Contract Act, S.C. Sarkar and sons Pvt.Ltd

B.COM E-Commerce V SEM (CBCGS) 2021-22

Paper No. XXX
DIGITAL MARKETING (Elective)

Total Marks 100
Theory 80
Sessional 20

Objectives:
The course has been designed to provide indepth knowledge about digital marketing.

Course Outcomes:
On successful completion of this course, students will be able to:
- *Explain the concept of digital marketing and the role of a digital manager*
- *Administer the website and identify the search engines*
- *Discuss the various MISC tools*

		Lectures
UNIT-I	**Introduction to Digital Marketing:** Concept of Digital Marketing- Need for Digital Marketing-Digital Marketing Platforms- Organic and Paid Digital Marketing- Difference between Traditional Marketing and digital Marketing- Advantage of Digital Marketing-Digital Marketing Manager-Role and functions of a Digital Marketing Manager- Challenges faced by Digital Marketing manager	**16**
UNIT-II	**Website & Search Engine introduction:** How to create a website –Hosting and Domain– Different platforms for website creation- what is search engine- introduction of Google, Bing, Yahoo -	**14**
UNIT-III	**MISC Tools:** Google Webmaster Tools- Site Map Creators- Browser-based analysis tools-Page Rank tools- inging & indexing tools- Dead links identification tools- Open site explorer Domain information/whois tools- Quick sprout	**14**
UNIT-IV	**Trending Digital Marketing Skills**: SEO – Search Engine Optimization- SEM – Search Engine Marketing.- Social Media Marketing/Optimization- Email Marketing. Website Designing and Development- Product Marketing- Content Writing. Marketing the created content online Copywriting- Blogging- Local Marketing. Google AdWords Campaign Management- PPC Advertising- Affiliate Marketing. Mobile and SMS Marketing- Marketing Automation- Web Analytics- Growth Hacking.	**16**
	Sessional: Test 10 marks Tutorial 10 marks	

Books:
Chaffey, D. (2019). Digital marketing. Pearson UK
Bhatia Puneet (2019): Fundamentals of Digital Marketing

B.COM (E-COMMERCE)- SIXTH SEMESTER

B.COM E-Commerce VI SEM (CBCGS) 2021-22

Paper No. XXXI
ADVANCED FINANCIAL ACCOUNTING

Total Marks 100
Theory 80
Sessional 20

Objectives:
The course has been designed to provide knowledge about advance financial accounting.

Course Outcomes:
On successful completion of this course, students will be able to:
- *Understand accounting standards*
- *Prepare financial statements of specific organisations.*
- *Understand the international financial reporting standards*

		Lectures
UNIT-I	**Indian Accounting Standards** Meaning of Accounting Standard, Indian Accounting Standard 2020. Application of the following accounting standards AS 7: Construction Contracts AS 14: Revenue Recognition AS 18: Related Party Disclosures AS 19: Leases AS20 : Earnings per share AS 24: Discontinuing Operations AS 26: Intangible Assets AS 29: Provisions, Contingent Liabilities and Contingent Assets	
UNIT-II	**Farm Accounting (Numeric)** Books of Accounting to be maintained for farm accounting Preparation of farm A/C and Balance Sheet. (Dairy and poultry only)	
UNIT-III	**Final Accounting of Local Self Government (Numeric)** Meaning and importance of local self government Maintaining Books of accounts Preparation of final accounts (Gram Panchayat and Zila Parishad only)	
UNIT-IV	**Final Account of Electricity Company: (Numeric)** Introduction, features of double entry Account system Preparation of accounts, revenue, Net Revenue account. Receipt & Expenditure on capital account general balance sheet with special effect of adjustments.	
UNIT-V	**International Financial Reporting Standards (Theory)** Introduction financial accounting system Accounting Values and culture Development and disclosure Global Accounting and Auditing Standards	
	Sessional: Test-10 marks Tutorial-10 marks	

Books:

Advanced Accountancy- Shukla Grewal, S.Chand Pub. New Delhi
A New Approach to Accountancy- H.R.Kotalwar, Discovery Pub., Latur
Advanced Accountancy- R L Gupta & Radha swamy, S.Chand Pub. New Delhi

B.COM E-Commerce VI SEM (CBCGS) 2021-22

Paper No. XXXII
DIRECT TAXES

Total Marks 100
Theory 80
Sessional 20

Objectives:
The course has been designed to orient the students about framework of direct taxes in India.

Course Outcomes:
On successful completion of this course, students will be able to:
- *Explain the concept of direct taxes*
- *Determine taxes on income from salary, business & profession*
- *Compute taxes on income from house property and other sources.*

		Lectures
UNIT-I	Income tax Act 1961 (With Amendments) Theory Introduction to income tax act 1961, basic concepts assessee, person, income classification of income agricultural Income, Casual Income, Previous year Assessment dyear, head of icome gross total income, total income incomes exempted from income tax, Tax deduction at source, refund of tax	12
UNIT-II	Income from salary: Meaning definition of salary, computation of income from salary, allowances, perquisite, gross salary, Net salary.	12
UNIT-III	Income from Business and Profession: (Numeric) Business, Profession, Deemed income from business or profession, computation of income from business and profession deductions.	12
UNIT-IV	Income from House Property: (Theory) Basic of charge, annual value, determination of annual value, computation of income from House property, Deductions. U/S 24	12
UNIT-V	(A) Income from Capital Gain: Basic of charge (Section 45), Meaning of capital assets, type of capital gain, short term and long term capital gain, cost of inflation index, Computation of capital gain, exemptions in respect of capital gain (U/s 54). (B) Income from other sources: Income Taxable under the head income from other sources u/s 56, Deductions from income from other sources u/s 57.	12
	Sessional: Test: 10 marks Tutorial: 10 marks	

Books:
- Dr.Vinod Singhania- Direct Taxes-Law & Practice, Taxman Publications
- Bhagwathi Prasad-Direct Taxes-Law & Practice , Wishwa Prakashana
- Dinkar Pagare- Law & Practice of Income Tax- Sultan Chand & Sons
- Gaur & Narang- Income Tax

B.COM E-Commerce VI SEM (CBCGS) 2021-22

Paper No. XXXIII
PYTHON PROGRAMMING

Total Marks 100
Theory 50
Practical 50

Objectives:
The course has been designed to equip students with fundamentals of programming in Python.

Course Outcomes:
On successful completion of this course, students will be able to:
- Understand basics of binary computation
- Understand the programming basics (operations, control structures, data types, etc.)
- Readily use the Python programming language
- Apply various data types and control structure

		Lect/Practical
UNIT-I	Basics of Python: Python Installation and Working of it, get familiar with python variables and data types, Operator understanding and its usage, Python blocks	**10**
UNIT-II	Structure Types and mutability: Hands on with conditional blocks using if, else and elif, Hands on examples and study of looping with range, list and dictionaries. hands on to organize python code with function, modular approach in python.	**10**
UNIT-III	Exception, Testing and Debugging: Handling if exceptions to handle the code cracks, handling and helping file operations, coding with the exceptional handling and testing Anonymous method, Properties, Indexers, Exception Handling	**12**
UNIT-IV	Classes and OOP Concepts: Procedural and Object-Oriented Programming, Classes and working with instances, Method overloading, Polymorphism, importing internal module as well as external modules in the code Packages understanding and their usage, hands on with Lamba function in python coding with the use of functions, modules and external packages	**14**
UNIT-V	Algorithm and Data Structure: Stack, Queue, Tree, ordered list, Introduction to Recursion, Divide and Conquer Strategy, Greedy Strategy, Graph Algorithms.	**14**
	Practicals: Write atleast five simple programmes using Python.	

Books:
Gulhane Vedang, The Easiest Book on Python
Dr.R.Nageswara Rao: Core Python Programming

B.COM E-Commerce VI SEM (CBCGS) 2021-22

Paper No. XXXI
MIS & DATA SECURITY

Total Marks 100
Theory 50
Practical 50

Objectives:
The course has been designed to provide indepth knowledge about digital marketing.

Course Outcomes:
On successful completion of this course, students will be able to:

- *Explain the concept of digital marketing and the role of a digital manager*
- *Administer the website and identify the search engines*
- *Discuss the various MISC tools*

		Lectures
UNIT-I	Meaning and role of MIS, What is MIS, Decision Support Systems, Systems, Approach, the systems view of business, MIS organization within the company, Managers view of Information System.	**10**
UNIT-II	Management Organizational theory and the systems approach, Development of organizational theory, management and organizational behavior, management information and system approach, using information system for feedback.	**12**
UNIT-III	Information systems for decision making: Evolution of an information system, Basic information systems, decision making and MIS, MIS as a technique for making programmed decisions, decisions assisting information systems, Communication systems basics.	**12**
UNIT-IV	Security Attacks (Interruption, Interception, Modification and Fabrication), Security Services (Confidentially, Authentication, Integrity, Non-repudiation, access Control and Availability) and Mechanism, A model for Internetwork security, Internet Standard and RFCs, Buffer overflow, & format staring vulnerabilities, TCP session hijacking, ARP attacks, route table modification UPD hijacking and man-in-the-middle attacks.	**14**
UNIT-V	Conventional Encryption Principles, Conventional encryption algorithm, cipher block modes of operation, location of encryption devices, key distribution Approaches of Message Authentication, Secure Hash Functions and HMAC. Cryptography, principles, algorithms, digital signature, digital certificate, x.509, Directory Authentication Service.	**12**
	Practicals: Study of evolution of information system Types of security attacks Digital signature Digital certificate	

Books:

Management Information Systems: A.K.Gupta, S.Chand Publications
Management Information Systems: Ashok Bhatia et al., Excel Books

B.COM E-Commerce VI SEM (CBCGS) 2021-22

Paper No. XXXV
ENTREPRISE RESOURCE PLANNING

Total Marks 100
Theory 50
Practical50

Objectives:
The course has been designed to orient the students with concepts of Enterprise Resource Planning.

Course Outcomes:
On successful completion of this course, students will be able to:
- *Explain the concept and need of ERP.*
- *Identify ERP related technologies*
- *Discuss the uses of various ERP modules*

		Lect/ Practical
UNIT-I	Enterprise Resource Planning – Introduction, What is ERP- Need of ERP- Advantages of ERP – Growth of ERP	10
UNIT-II	ERP and Related Technologies Business process Reengineering (BPR) Management Information System (MIS) – Decision Support Systems (DSS) Executive Support Systems (ESS) – Data Warehousing, Data Mining – Online Analytical Processing (OLTP) – Supply Chain Management (SCM) 52 – Customer Relationship Management (CRM)	14
UNIT-III	ERP modules & Vendors – Finance – Production planning, control & maintenance – Sales & Distribution – Human Resource Management (HRM) – Inventory Control System – Quality Management – ERP Market	14
UNIT-IV	ERP Implementation Life Cycles – Evaluation and Selection of ERP package – Project planning – Implementation team training & testing – End user training & Going Live – Post Evaluating Maintenance	12
UNIT-V	ERP Case Studies – Post implementation review of ERP Packages in Manufacturing, Services, and other Organizations	10
	Practicals: Case studies on ERP packages in Manufacturing, Services & Other organisations	

Books:
- Enterprise Resource Planning – Alexis Leon
- ERP Ware: ERP Implementation Framework
- V.K. Garg & N.K. Venkitakrishnan
- ERP: By Leon, ERP Concepts and Planning – Garg & Venkitakrishnan

B.COM E-Commerce VI SEM (CBCGS) 2021-22

Paper No. XXXVI
PROJECT

Total Marks 100

Objectives:
To provide opportunity for application of learnings from various semesters.

The candidate must undertake a project work on preparation of website for a period not less than 6 weeks.

The work done under the project must indicate the analytical and critical ability of the candidate in relation to the problem which he/she has identified during the period of training.

The final project report should be submitted before the commencement of the sixth semester examination.

The final project examination should consist of presentation and viva.

An External Examiner should be appointed for conduct of viva-voce examination.

Following should be the weightage of marks:
Project Report-50 marks
Presentation: 30 marks
Viva-voce: 20 marks