

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	RDBMS (SQL Server/Oracle/MS Access)	Subject Code	MS6A-102
		Total Credits	03
Subject Nature: CORE			
Course Objective:			
<ul style="list-style-type: none"> • Describe a database management system and trace its historical development. • Understand and apply the principles of data modeling using Entity Relationship and develop a good database design. • Understand the use of Structured Query Language (SQL) and MS Access. 			
Learning Outcome:			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> • Students can design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. • Students can use current techniques, skills, and tools necessary for computing practice. • An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
Unit-1 Database Management Systems	1.1 Data, Database, Database Management Systems, Types of Database Management Systems 1.2 Relational, Hierarchical, Network, and Object oriented database management systems, 1.3 Entity Relationship Model (E-R Model), Data Model 1.4 Normalization Theory, Codd's Rules for RDBMS.		10
Unit-2 RDBMS	2.1_Concepts of RDBMS, Components of RDBMS 2.2 Introduction to SQL, DDL, DML, DCL. 2.3 Application Exercises		09
Unit-3 SQL	3.1 Cartesian Product and Joins, Use of Union 3.2 Intersection, Minus, SQL operators and functions, SQL select statement and type of queries, In, Exists 3.3 Group by Having and Like clause in SQL, View 3.4 Sequence and synonyms SQLPLUS		12

	3.5 Creating reports using SQLPLUS.	
Unit -4 SQL/PLSQL	4.1 Introduction to PL/SQL, The PL/SQL block constructs, using variables and SQL statement in the PL/SQL block 4.2 PL/SQL constructs like If..Else..Endif, Loop Endloop, while loop etc. 4.3 Application Exercises	07
Unit -5 MS-Access/ Oracle	5.1 Overview of MS-Access/Oracle, Main elements of Access, Table, Queries and Oracle 5.2 Creating Forms, entering and updating data using Forms, finding, editing and deleting data in a Form, Reports, and Relationships.	07
	TOTAL CLASSROOM CONTACT SESSIONS	45

Learning Resources:**Text Books:**

1. Alexis Leon and Mathews Leon , “**Database Management System** ”, Vikas Publication , New Delhi, 2002
2. Rob Coronel “**Database System and Design ,Implementation and Management** “ Thomson learning , Bangalore, 2002
3. SQL, PL/SQL “**The programming language of Oracle**” by Ivan Bayross (BPB Publications)

Suggested Readings:

1. Bipin C. Desai, “**An Introduction to Database Systems**”, Golgotha Publications Pvt. Ltd., New Delhi, 2001

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	Operating System	Subject Code	MS6A-104
		Total Credits	03
Subject Nature: Core			
Course Objective:			
<ul style="list-style-type: none"> • To teach the basics of Operating System its architecture with technical mechanism of defining and usage of processes and scheduling and their utilities. • To bring familiarity about Device and Security Management in business System. • To explore the function of Operating System. 			
Learning Outcome:			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> • Understanding of Operating System functions. • Types of Operating System and their Utility. • Choose the better System software and hardware platforms in business automation. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
Unit-1 Operating system & its Type	1.1 Basics of Operating System, Definition, Architecture, 1.2 Functions and Concept of time sharing, multiprogramming, 1.3 Batch processing, real time operating system and distributed processing.	07	
Unit-2 Processor Scheduling	2.1 Processor Scheduling: Process, scheduling, various processor scheduling algorithms, 2.2 Measurements of performance of processor schedule algorithms.	07	
Unit-3 Inter processor communication	3.1 Inter processor communication: Mutual exclusion & Synchronization, 3.2 Concept of SEMAPHORS, Classical IPC problems.	07	
Unit-4 Deadlocks	4.1 Deadlocks: Deadlock Prevention, Detection, 4.2 Recovery & Avoidance, Bankers' Algorithms.	07	
Unit-5 Memory Management	5.1 Memory Management: Functions, Algorithms, 5.2 Single user memory Management, Static & Dynamic Partition, Compaction & Relocation,	06	

	5.3 Paging Virtual memory sequestrations.	
Unit-6 File Systems	6.1 File structure, Directory Structures, Disk block Allocation, 6.2 Unix File System, File System consistency, Protection and sharing.	07
Unit-7 I/O Systems	7.1 I/O Systems: Various I/O devices, Drivers. 7.2 Structure of I/O software, Clock.	04
	TOTAL CLASSROOM CONTACT SESSIONS	45

Learning Resources:

Text Books:

1. Operating System Design & Implementation, Andrew S. Tanenbaum, PHI, New Delhi.
2. Advanced Concepts in Operating Systems, M. Singhal, N. G. Shivaratri, Tata McGraw Hill.
3. Operating systems, D.M. Dhamdhare, Tata McGraw Hill.
4. Operating Systems, Milan Milenkovi'c Tata McGraw Hill.
5. Distributed Operating Systems, Andrew S.Tanenbaum, Pearson Education Asia.

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	Digital Information System	Subject Code	MS6A-106
		Total Credits	03
Subject Nature: CORE			
Course Objective:			
<ul style="list-style-type: none"> • To teach the concepts of Digital information system and its uses. • Explain the elements of digital system abstractions such as digital representation of information, digital logic and Boolean algebra. • Use the “Tools of trade”. Basic instruments, devices and design tools. • Communicate the purpose and results of a design project in written and oral presentation. 			
Learning Outcome:			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> • Create the appropriate truth table from a description of a combinational logic function. • Describe how analog signals are used to represent digital values in different logic families. • Understand the leadership role of management information systems in organization. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
UNIT –I Boolean algebra	1.1 Laws and theorems of Boolean algebra.De Morgan's theorem, XOR and XNOR gates, Half and Full Adder and Subtractor circuits. 1.2 Fundamentals: Products, Sum of products and Product of sums, Form of Boolean expressions, Truth Tables and Karnaugh maps, pair reads octets and Karnaugh simplification. 1.3 Multiplxers BCD to Decimal to BCD decoders and, decoders’ characteristics of digital integrated digitals.	09	
Unit-2 The Concept and Evolution of DIS	2.1 Conceptual framework of DIS-System approach. 2.2 Evolution of DIS. 2.3 Design and development of DSS, ESS, OAS 2.4 Case Study	09	

Unit-3 Information System and Business	3.1 Information Systems and Organization Data & Information 3.2 Management and Decision Making Information Systems and Society. 3.3 MIS and its technical and behavioral aspects in business. 3.4 Case Study	09
Unit- 4 Management Decision Making	4.1 Information Management. Decision Making-What managers do, behavioral model. Classical description of management. 4.2 Level of decision making, types of decisions, structured unstructured types of decisions systems stages of decision making, 4.3 Individual model of decision making. 4.4 Case Study	09
Unit -5 Modules of Information Systems	5.1 Modularization process of information system 5.2 Types of sub modules/ sub systems 5.3 Features and Specifications of sub systems 5.4 Case Study	04
Unit -6 Integrated Information System	6.1 Integrated Information Systems: BIS, ERP Introductions 6.2 MRP, MRP-II, Definition Implementation 6.3 Benefits & Precautions ERP software. 6.4 Introduction to Artificial Intelligence and Knowledge Management	05
	TOTAL CLASSROOM CONTACT SESSIONS	45
Learning Resources:		
Text Books:		
<ul style="list-style-type: none"> • Murdick. et. al. Information System for Modern Management- PHI. • London & London – Management Information Systems – PHI • Obrien – Management Information System 		

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	Individual and Interpersonal Behavior	Subject Code	MS6A-108
		Total Credits	03
Subject Nature: CORE			
Course Objective:			
<ul style="list-style-type: none"> To help the students aware about the latest systems available and proper uses of system for their software development. To provide the necessary foundation for all other courses based on management practices across the world. 			
Learning Outcome: At the end of the course students should be able to;			
<ul style="list-style-type: none"> Define individual and interpersonal behavior and explain motivation and group behavior. Briefly describe the leadership role and stress management in individual and interpersonal behavior. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
UNIT-1 Foundations of individual behavior	Biographical characteristics, Learning and learning theories, Perception and its role in managerial decision making. Personality – Determinants and Attribute		06
UNIT-2 Motivation	Needs, contents and processes, Maslow's Hierarchy of needs, Herzberg's Two Factor theory, ERG theory		09
UNIT-3 Foundation of group Behavior	Defining and Classifying Groups, Group Structure and Processes, Process of Group formation. Group decision making, Group v/s teams, Team effectiveness, Communication – Process, fundamentals and issue		09

UNIT-4 Leadership	Trait theories, Behavioural theories – Ohio State Studies, Michigan Studies and Managerial Grid; Contingency theory Situational theory; Contemporary issues in Leadership	09
UNIT-5 Stress Management	Stress Management – Potential Sources, Consequences and Coping Strategies for stress.	09
	TOTAL CLASSROOM CONTACT SESSIONS	42
Learning Resources: Text Book :- 1. Human Resource Management – Gary Dessler, Pearson Education 2. Managing Human Resources – Devid B. Balkin, Pearson Education 3. Organizational Behavior by Stephen Robbins, PHI. 4. Organization Behaviour by Fred Luthans, PH		

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	Business Statistics	Subject Code	MS6A-110
		Total Credits	03
Subject Nature: Interdisciplinary			
Course Objective:			
<ul style="list-style-type: none"> To teach the concepts of business statistics and its principles. To develop understanding of statistical concepts to include probability, sampling, hypothesis testing, regression etc. 			
Learning Outcome:			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> Independently calculate basic statistical parameters (mean, dispersion, correlation coefficient) Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators. Choose a statistical method for solving practical problems. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
UNIT-1 Introduction to Quantitative Techniques	1.1 Introduction to Quantitative Techniques and Statistics		04
Unit-2 Introduction to Statistical Methods	2.1 Introduction to statistical methods – Collection of data, 2.2 Security of data, Presentation of numerical data and its diagrammatic representation.		09
Unit-3 Central Measurements	3.1 Measures of Central Tendency and Dispersion – Arithmetic Mean 3.2 Median, Mode, Range, Mean deviation and standard deviation.		09
Unit- 4 Concept of Probability	4.1 Basic Concepts of probability. 4.2 Probability Distribution – Binominal, 4.3 Poisson and Normal Distribution.		09

Unit -5 Sampling Methodology	5.1 Sampling, Sampling methods, sampling 5.2 Non sampling errors	04
Unit-6 Decision Theory	6.1 Decision Theory Introduction to Decision Theory.	05
Unit-7 Correlation and Regression	7.1 Simple Correlation and Regression Simple Regression and Simple Correlation, 7.2 Trend Analysis using Regression line, Correlation Analysis	05
	TOTAL CLASSROOM CONTACT SESSIONS	45
Learning Resources:		
Text Books:		
1. Business Statistics – J.K. Sharma, Pearson Education		
2. Fundamental of Statistics, D.N. Elhance		
3. Statistical Methods, Prof. S.P. Gupta		
4. Statistics for Management, Prof. R.I. Levin		
5. Statistics Theory, Methods and Applications, Sancheti and Kapoor.		

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	Corporate English	Subject Code	MS6A-112
		Total Credits	03
Subject Nature: CORE			
Course Objective:			
<ul style="list-style-type: none"> • To teach the Importance of language and Literature • To create awareness of grammar and develop student's listening ,speaking and writing power • To help students to explore their hidden personality. 			
Learning Outcome:			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> • Develop the confidence of expressing themselves in the right direction • Should understand and make correct utilization of their knowledge of English Language • Have equal command over different aspects like reading, writing, listening and speaking the language. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
UNIT –I Prose	1.1 On Saying Please 1.2 On Habits 1.3 On Courage 1.4 On Fear 1.5 On Keyhole Morals		09
Unit-2 Poetry	2.1 On His Blindness – John Milton 2.2 It is not growing like a tree- Ben Jonson 2.3 Elegy Written in a country churchyard- Thomas Gray		09
Unit-3 English Grammar & Usages	3.1 Concord; Agreement of the verb with its subject , 3.2 Structure of sentences, 3.3 Active & Passive voice , 3.4 Reported Speech , 3.5 Idioms & Phrases		09

Unit- 4 Writing & Communication Skills	4.1 Paragraph writing, 4.2 Precis writing , 4.3 Letter & Application writing & Business Doc writing 4.4 Preparing RESUME (CV)	09
Unit -5 GRAMMAR	5.1 Email & SMS Rules 5.2 Contract writing , RFP, RFQ, Proposal, SRS 5.3 Business Terminology – eg: EOB, EOD, SRS	09
	TOTAL CLASSROOM CONTACT SESSIONS	45
Learning Resources:		
Text Books:		
1. Kumkum Bhardwaj, Professional Communication, I.K International Publication, New Delhi		
2. Solomon Ambuchelvan, 'What is What of English', Acme Learning		
3. Deepshikha Jain, Communicative English Parshva Publishers		
4. Rajshri Dewan, English and Business Communication Amce Learning		

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (e-Commerce)			
Batch 2021-2024			
Semester II			
Subject Name	Business Accounting with Tally	Subject Code	MS6A-114
		Total Credits	03
Subject Nature: Interdisciplinary			
Course Objective:			
<ul style="list-style-type: none"> To teach the concepts of accounting and its principles. To bring familiarity applications of accounting in business functions. To explore the process of role of accounting in maintaining systematic records. 			
Learning Outcome:			
At the end of the course students should be able to;			
<ul style="list-style-type: none"> Know the concepts of Accounting and their applications in recording. Understanding relationship between business and accounting. Differentiation of accounting and finance in various business functions. 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems.			
Course Contents			Class Room Contact Sessions
Unit –I Introduction, Meaning and Definitions	1.1 Introduction to Accounting: Meaning of Accounting 1.2 The process of Accounting, Advantages of Accounting 1.3 Financial Accounting, Financial Statements, Uses of Financial Statements 1.4 Limitations of Accounting. Relationship with other functional areas		09
Unit-2 Accounting Concepts and their Applications	2.1 Accounting concepts and Mechanics: Generally Accepts Accounting Principles (GAAP) 2.2 Basic Concepts, Concepts of Double entry system of accounting rules of debit credit entries 2.3 Types of accounts, Journalizing the transactions 2.4 Posting entries in ledger accounts and concept of trial balance, Cash Books, Subsidiary Books.		10

Unit-3 Financial Statement and Others	3.1 Preparation of Financial Statements 3.2 Trading Account, Profit and Loss Account 3.3 Balance Sheet and Adjustment Entries.	11
Unit- 4 Depreciation	4.1 Depreciation: Meaning, Objectives, Methods of Depreciation. 4.2 Fixed Installment Methods and Reducing Installment Methods 4.3 Numerical Experiments	06
Unit -5 Tally	5.1 Fundamental Features of Tally, Creating Masters in Tally, Voucher Entry 5.2 Invoicing Cost Centres & Cost Categories 5.3 Basics of Banking Interest Calculation, Simple Interest Calculation 5.4 Accounting & Inventory Management	09
	TOTAL CLASSROOM CONTACT SESSIONS	45
Learning Resources:		
Text Books:		
1. T.S.Grewal, Introduction to Accountancy, Sultan and Sons, New Delhi.		
2. T.S.Grewal, Double Entry System of Book Keeping, Sultan Chand and Sons		
3. Maaheswari, Financial Accounting, Vikas Publications, New Delhi.		

B.B.A. (e-Commerce) Batch 2021-2024 Semester II			
Subject Name	Environmental sustainability & climate change mitigation	Subject Code	MS6A-116
		Total Credits	03
Subject Nature: CORE			
Course Objective:			
<ul style="list-style-type: none"> • To develop global prospective about the environmental management • To develop understanding of how environmental an ecosystem services are crucial elements to reduce disaster risk in Business. • To bring climate change mitigation and other options for sustainable development, carbon trading a new concept. 			
Learning Outcome:			
After completion of this course students will be capable to:			
<ol style="list-style-type: none"> 1. Understand how environment and ecosystem services are crucial elements to the society and business 2. Identify their roles and responsibility towards the environment at individual and group level. 3. Explore the way to keep sustainable environment for the present and next generations 			
Examination scheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks having theory and cases/practical problems consisting 7/8 questions with a note of attempt any five or more by mentioning marks of each question. .			
Course Contents			Class Room Contact Sessions
Unit I Introduction	<ol style="list-style-type: none"> 1. Basic concept of environment and ecosystem, 2. Global environmental issues, environmental sustainability, from unsustainable sustainable development. 3. Path to sustainability, Global environmental summits. 4. Objective and the components of environmental management. 		08
Unit II Environmental Impact Assessment	<ol style="list-style-type: none"> 1. Management tools Environmental impact assessment. 2. The millennium ecosystem assessment. 3. Brief introduction of HYOGO framework Biosafety categna protocol. 		10
Unit III Risk and Challenges	<ol style="list-style-type: none"> 1. Environmental risk, global climate changes: causes, impact, 2. Ozone depletion and its consequences. 3. Kyoto protocol and Montreal protocol 		11

Unit IV Climate Change Mitigation	1. Case studies of climate related disasters: Climate change mitigation CDM, 2. Carbon trading.	05
Unit V National and International Efforts	1. Role and efforts of International Agencies in Strengthening nations for sustainable development special Reference to UNEP, WRI, WORLD BANK 2. Indian Ecosystem and Role of Education in Disaster Management 3. Case Studies	11
	TOTAL CLASSROOM CONTACT SESSIONS	45
<p>Learning Resources: Text Books: (Latest Edition) 1. Environmental Management, N.K. Liberoi, Excell Books 2. Environmental Science, G. Tylor Miller, Jr. Cengage Learning</p>		