



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Computer Applications

Name of Program: BCA (Big Data Analytics) in association with IBM

COURSE CODE	CATEGORY	COURSE NAME	L	T	P	CREDITS	TEACHING & EVALUATION SCHEME				
							THEORY			PRACTICAL	
							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
BCABDA401N	Major	Fundamentals of Database Management System	2	0	2	3	60	20	20	30	20

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; Q/A – Quiz/Assignment/Attendance, MST - Mid Sem Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall be exceed 10 Marks)

Course Educational Objectives (CEOs):

- To provide students with basic concepts in information system and the benefits of these systems
- To understand the role, requirement and operations that an analyst needed to analyze, design, and implement the systems
- To provide the knowledge of business data modeling for the designing of efficient information systems
- To explain the various issues related with Data Security.

Course Outcomes (COs): After completing this course the student will be able to:

- Understand the database systems concepts
- Design any Desktop application using an entity relationship diagrams (ERD) to express requirements and demonstrates skills to model data requirements and create data models.
- Apply the knowledge of the subject to any particular database implementation using SQL.
- To learn and understand various Database Architectures and Applications.
- To differentiate between data, information, and knowledge

UNIT-I

Introduction: Introduction to Databases, Purpose of Database System, Database system Vs file system, Database System concepts and architecture, Advantage of DBMS approach, various views of data, data independence, schema and subschema and instances, basic concepts of data models, Database languages, Database administrator and users, data dictionary.

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UNIT-II

ER model: basic concepts, notation for ER diagram, design issues, Entity types, mapping constraint, Concepts of keys: super, candidate, primary, alternate, foreign, weak and strong entity sets, inheritance.

Domains and Relations: domains, relations, kind of relations, relational database.

UNIT-III

Relational Algebra: The structure, relational operations.

Relational Calculus: idea of relational calculus, tuple and domain calculus, Domain relational Calculus, calculus vs algebra.

Normalization: Introduction, non-loss decomposition, FD diagram, Normal forms upto fifth normal form, Codd's rules.

UNIT-IV

SQL: Introduction, basic structure of SQL, Characteristics and Advantage of SQL set operations, aggregate functions, null values, SQL data types and literals. SQL operators, Types of SQL commands. Simple and nested queries, views, join relations. Comparison between tables and views, updatable views, indexes, clustering. Triggers in SQL.

UNIT-V

Transaction, concurrency and Recovery: basic concepts, ACID properties, Transaction states, Implementation of atomicity and durability, concurrency control, deadlock, storage structure types, stable storage implementation, data access, recovery and atomicity- log based recovery, deferred Database modification.

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Text Books:

1. A Silberschatz, H.F Korth, Sudersan, "Database System Concepts", 6th Edition, MGH Publication 2013.
2. C.J. Date, "An introduction to Database Systems", 6th Edition, Pearson 2003.
3. Elmasri&Navathe, "Fundamentals of Database systems", 7th Edition, Pearson 2015.
4. B.C. Desai, "An introduction to Database systems", BPB.
5. RaghuRamakrishnan, "Database Management Systems", 3rd Edition, TMH 2014.

List of Experiments:

1. To study Basic SQL commands (create database, create table, use, drop, insert) and execute the following queries using these commands:
 - Create a database named Employee".
 - Use the database „Employee" and create a table „Emp" with attributes „ename", „ecity", „salary", „enumber", „eaddress", „deptname".
 - Create another table „Company" with attributes, „cname", „ccity", „empnumber" in the database „Employee".
2. To study the viewing commands (select, update) and execute the following queries using these commands:
 - Find the names of all employees who live in Delhi.
 - Increase the salary of all employees by Rs.5,000.
 - Find the company names where the number of employees is greater than 10,000.
 - Change the Company City to Gurgaon where the Company name is TCS".
3. To study the commands to modify the structure of table (alter, delete) and execute the following queries using these commands.

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- Add an attribute named Designation to the table “Emp”.
 - Modify the table Emp, Change the data type of salary attribute to float.
 - Drop the attribute, deptname from the table ”emp”.
 - Delete the entries from the table Company where the number of employees are less than 500.
4. To use (and, or, in , not in, between , not between , like , not like) in compound conditions and execute the following queries using them:
- Find the names of all employees who live in Gurgaon and whose salary is between Rs.20,000 and Rs.30,000.
 - Find the names of all employees whose names begin with either letter “A or B”.
 - Find the company names where the company city is Delhi and the number of employees is not between 5000 and 10,000.
 - Find the names of all companies that do not end with letter A.
5. Using aggregate functions execute the following queries:
- Find the sum and average of salaries of all employees in computer science department.
 - Find the number of all employees who live in Delhi.
 - Find the maximum and the minimum salary in the HR department.
6. To execute the following queries using study the grouping commands (group by, orderby)
- List all employee names in descending order.
 - Find number of employees in each department where number of employees is greater than 5. List all the department names where average salary of a department is Rs.10,000.
7. To write SQL queries to
- Alter table, Emp and make enumber as the primary key.
 - Alter table, Company and add the foreign key constraint.

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- Add a check constraint in the table Emp such that salary has the value between 0 and Rs.1,00,000.
 - Alter table Company and add unique constraint to column cname.
 - Add a default constraint to column ccity of table company with the value Delhi.
 - Rename the name of database to "Employee1".
 - Rename the name of table Emp to Emp1.
 - Change the name of the attribute ename to empname.
10. To execute following queries using appropriate SQL statements to
- Retrieve the complete record of an employee and its company from both the table using joins.
 - List all the employees working in the company TCS".
11. To study the various set operations and execute the following queries using these commands:
- List the enumber of all employees who live in Delhi and whose company is in Gurgaon or if both conditions are true.
 - List the enumber of all employees who live in Delhi but whose company is not in Gurgaon.
12. To study the commands for views and execute the following queries using these commands:
- Create a view having ename and ecity.
 - In the above view change the ecity to Delhi where ename is "John".
 - Create a view having attributes from both the tables.
 - Update the above view and increase the salary of all employees of IT department by Rs.1000.

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BCCA304	Minor	Operating Systems	3	0	0	3	60	20	20	0	0

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***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall be exceed 10 Marks)

Course Educational Objectives (CEOs): The course is designed to make students:

- Familiar with design of operating systems as resource manager of a computer system
- Aware about the basic concepts of operating system architecture
- Understand about the concepts of processor management and memory management techniques
- Familiar with deadlock handling and inter-process communication
- Understand the device management.

Course Outcomes (Cos):

- The student will be able to understand the internal design of operating system.
- The student will be able to demonstrate operating system structure.
- The student will be able to demonstrate the scheduling and memory management techniques.
- The student will be able to understand the IPC and other techniques.
- The student will be able to understand device management system of computer.

UNIT I

Introduction to Operating System:- Objectives, functions and the services provided by Operating System. Evolution of operating system:-Batch processing, Multiprogramming, Multithreading, Time-sharing systems, Real Time, Distributed systems. Operating system structure:-System calls and system programs.

UNIT II

Process Management: -Process concept, Process Control Block, Process states, Process scheduling, CPU scheduling: - Basic concept and scheduling criteria, Long term, medium term , short term schedulers, various Scheduling algorithms, Measurement of performance of processor.

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BCCA304	Minor	Operating Systems	3	0	0	3	60	20	20	0	0

UNIT III

Memory management:-Logical and physical address spaces, Memory management without Swapping or Paging, Swapping and paging, Contiguous, allocation and its drawbacks, Non-contiguous allocation

Virtual memory: - Demand paging and its need, Performance of demand paging, Page replacement and its need, Thrashing and allocation of frames.

UNIT IV

Deadlocks: - Characterization of deadlock, Methods of handling prevention, detection and avoidance, Recovery from deadlock.

Case Study of Linux: History, Features, Architecture of Unix and Linux, Linux Shell and kernel, Linux file system, simple shell commands, Editors, using Vi editors, working with files, absolute and relative paths.

UNIT V

I/O system: - Various I/O devices, Device drivers, structure of I/O software, Transforming I/O request of h/w operation. Secondary storage structure:- Disk structure, Disk Scheduling algorithms (First come first serve, shortest seek time first, SCAN, C-SCAN, LOOK and C-LOOK algorithms), Disk management, Swap space management and Disk reliability.

Text Books:

1. Silberschatz Galvin, Operating System concept, 5th edition.
2. D. M. Dhamdhare, System Programming and operating system, Tata McGraw Hill, 2nd edition.
3. Milan Milenkovi'c, Operating System concept and design, Tata McGraw Hill.
4. Tanenbaum, A.S. "Modern Operating System", Prentice Hall of India Pvt. Ltd..
5. William Stallings "Operating Systems", Prentice Hall of India Pvt. Ltd.
6. Joshi R.C. "Operating System" Wiley India.

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BCABDA303	Minor	Computer Organization and Architecture	3	0	0	3	60	20	20	0	0

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***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class activities, given that no component shall exceed more than 10 marks

Course Education Objectives (CEOs):

- To introduce the fundamental knowledge needed for the design of computer systems.
- Explain in detail the logical operation of the most common standard digital components.
- To show how the various data types found in digital computers are represented in binary form in computer registers.
- To introduce a register transfer language and show how it is used to express microoperations in symbolic form.
- To present the organization and design of a basic digital computer.
- To deal with the central processing unit (CPU).
- To understand the concepts in modern computer architecture.

Course Outcomes (COs):

Students will have thorough knowledge about:

- The logical operation of the most common standard digital components.
- The design of computer systems.
- The various data types found in digital computers and how are they represented in binary form in computer registers.
- Register transfer language and will be able to show how it is used to express micro operations in symbolic form.
- The concepts in modern computer architecture.

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Unit-I

Number System: Binary, Octal, Hexadecimal; Character Codes: BCD, ASCII, EBCDIC; Logic gates, Boolean Algebra, Canonical and Standard Forms, K-map simplification, Half Adder, Full Adder, Half Subtractor, Full Subtractor.

Unit-II

Combinational logic Design: Binary Parallel Adder, Carry look ahead adder, BCD Adder, Decoders, Encoders, Multiplexers, Demultiplexers; Sequential Logic: Flip-Flops – RS, JK, D and T Flip Flops.

UNIT-III

Register Transfer and Micro-operations: Register Transfer Language, Register Transfer, Bus and Memory Transfers, Arithmetic Micro-operations, Logic Micro-operations, Shift Micro operations, Arithmetic logic shift unit.

UNIT-IV

Basic Computer Organizations and Design: Instruction Codes, Computer Registers, Computer Instructions, Timing and Control, Instruction Cycle, Memory-Reference Instructions, Register reference instructions, Input-Output Instructions,

UNIT-V

Central Processing Unit: Introduction, General Register Organization, Stack Organization, Instruction Formats, Addressing Modes, Difference between RISC and CISC.

Text Books:

1. M. Morris Mano, "Computer System Architecture", 3e, Pearson Education, Inc. 2007
2. William Stallings, "Computer Organization and Architecture", 8e, Pearson, 2010
3. Subrata Ghoshal, "Computer Architecture and Organization", 1e, Pearson, 2011
4. Malvino, "Digital Computer Electronics: An Introduction to Microcomputers", 2e, McGraw Hill Education, 1984.

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BBAI501	AECC	Human Values and Professional Ethics	60	20	20	-	-	4	-	-	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; AECC- Ability Enhancement Compulsory Course

***Teacher Assessment** shall be based on following components: Quiz /Assignment/ Project/ Participation in Class, given that no component shall exceed more than 10 marks.

Course Objective

The objective of the course is to disseminate the theory and practice of moral code of conduct and familiarize the students with the concepts of “right” and “good” in individual, social and professional context

Examination Scheme

The internal assessment of the students’ performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of two sections A and B. Section A will carry 36 Marks and consist of 5 questions, out of which student will be required to attempt any three questions. Section B will comprise of one or more cases / problems worth 24 marks.

Course Outcomes

1. Help the learners to determine what action or life is best to door live.
2. Right conduct and good life.
3. To equip students with understanding of the ethical philosophies, principles, models that directly and indirectly affect business.

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COURSE CONTENTS

UNIT I: Human Value

1. Definition, Need for Human Values, Sources of Values
2. Essence of Values
3. Classification of Values (Temporal Values, Universal Values)
4. Values Across Culture

UNIT II: Morality

1. Morality its meaning and definition
2. Values Vs Ethics Vs Morality
3. Concept of Impression Management
4. Impression Management Strategies (Intimidation, Ingratiation, Self-promotion, Supplication, Exemplification)

UNIT III: Leadership in Indian Ethical Perspective.

1. Leadership, Pre-requisites of Leadership
2. Approaches to Leadership, Leadership Styles
3. Ethical Leadership
4. Values in Leadership

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UNIT IV: Business Ethics

1. Business Ethics its meaning and definition
2. Relevance of Ethics in Business organizations.
3. Theories of Ethics(Teleological, Deontological)
4. Code of Ethics

UNIT V: Globalization and Ethics

1. Globalization and Business Changes
2. Values for Global Managers
3. Corporate Social Responsibility
4. Benefits of Managing Ethics in Work Place.

Suggested Readings:

1. Kaur,T.(2004). *Values and Ethics in Management*. Galgotia Publishing Company: New Delhi
2. Kauhal, S.L.(2006). *Business Ethics. Concepts, CrisisandSolutions*. Deep & Deep Publications Pvt. Ltd.: New Delhi
3. Beteille, Andre (1991). *Society and Politicsin India*. Athlone Press: New Jersey.
4. Chakraborty, S.K.(1999). *Values and Ethics for Organizations*. Oxford University Press
- Fernando, A.C. (2009). *Business Ethics - An Indian Perspective*. India: Pearson Education: India.

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