INSTITUTE OF DISTANCE EDUCATION

JIWAJI UNIVERSITY

Gwalior, MP

PGDCA103

CONCEPT OF DBMS

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SCHOOL OF STUDIES IN DISTANCE EDUCATION
JIWAJI UNIVERSITY
Gwalior, MP
INDIA

Syllabus

Concept of DBMS

UNIT 1	• Introduction:- Database system, advantages of database systems-redundancy, consistency, sharing, standards, integrity, security, conflicting requirements and data independence, concept of distributed database, DBMS components. Architecture of database systems: Schema, sub-schema; logical and conceptual view. Data Description Language (DDL), DML and database administrator.
UNIT 2	• Data Models:-Relational Model-structure, tupple, attributes, relation normalization, key-primary key, candidate key, alternate key, relational calculus & relational algebra-concepts, definition of union, set difference, Cartesian product – selection, intersection, quotient and join. Normal forms: First, Second, Third.
UNIT 3	• Database & Querying:-Database file, record & field, field types, creating database file-defining, saving structure, entering, listing, removing, updating, searching, sorting, viewing records, closing database. Index – creating index files, multiple fields – compound & structural index, creating index – ascending, descending order, saving index file.
UNIT 4	• Functions & Command:-Seek, index, sort, time, date, date arithmetic, mathematical functions- sqrt (), abs (), max (), min (), round (), mod (), len (), mathematical commands sun average,count,calculate, do while-enddo, skip, trim, accept, input, wait, if-end if , scan – endscan, for-end for, do case-endcase, text-endtext.
UNIT 5	• Data Base design:- handling multiple data base database files-select, set relations, designing custom screen @-say –get and read, range,picture, designing custom screen using @ command @ prompt,define menu ,popup features defining : size title character function – isupper(),islower(),replication(),left(),at().

Contents

Unit 1 Introduction of Database System.

Unit 2 Data Models and Structure.

Unit 3 Database & Querying.

Unit 4 Database—Functions & Commands.

Unit 5 Design of Database.

Jiwaji University, Gwalior

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जीवाजी विश्वविद्यालय, ग्वालियर (स्थापना वर्ष 1964)

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