

DBMS Lesson Plan

Name of the faculty: Ms. Kavita

Discipline: CSE

Semester: IV (January-April 2018)

Subject: DBMS (CSE 202-F)

Week No	Lecture Day	Topic (including assignment/test)
1	1	Introduction to Database systems
	2	Various views of data, three level architecture
	3	Advantages of DBMS over file processing, database languages
2	1	Responsibility of DBA
	2	Data Models
	3	Client/server architecture
3	1	ER diagram
	2	Mapping constraints, Reduction of ER diagram into tables
	3	Sequential files
4	1	Index sequential files
	2	Direct files
	3	Hashing
5	1	B-tree index files
	2	Relational model basics
	3	Relational Algebra and operators
6	1	Relational Algebra contd
	2	Example queries
	3	Tuple Calculus
7	1	Domain calculus
	2	Example queries
	3	QBE
8	1	SQL
	2	SQL
	3	SQL
9	1	Integrity constraints
	2	Functional Dependencies
	3	Normalisation
10	1	Normalisation Contd
	2	Normalisation Contd
	3	Examples
11	1	Distributed databases
	2	Parallel databases
	3	Data warehousing
12	1	Data mining
	2	Transaction concept
	3	Properties and lifecycle of transaction
13	1	Concurrency control
	2	Concurrency control contd
	3	Concurrency control contd
14	1	Recovery concepts
	2	Recovery concepts contd
	3	Recovery concepts
15	1	Network model
	2	Hierarchical model
	3	Overview of complete syllabus

Name of the Assistant/Associate Professor: Ms. Niyati Jain
Discipline : Computer science and engineering dept., VCE Rohtak
Subject: Internet Fundamentals
Semester : 4 th sem
Lesson plan duration : 15 weeks (from January 2018 to April 2018)
Week 1
Section A
Week 1, Day 1 : Introduction, advantages and disadvantages, Userids, Pass words
Week 1, Day 2 : e-mail addresses, message components, message composition, mailer features, E-mail inner workings, Email management
Week 1, Day 3 : Mime types, Newsgroups, mailing lists, chat rooms
Week 2
Week 2, Day 1 : Introduction to networks and internet, history, working of Internet
Week 2, Day 2: Internet Congestion, internet culture, business culture on internet.
Week 2, Day 3: Collaborative computing & the internet. Modes of Connecting to Internet, Internet Service Providers(ISPs)
Week 3
Week 3, Day 1 : Internet address, standard address, domain name, DNS, IP.v6.Modems and time continuum
Week 3, Day 2 : Internet address, standard address, domain name, DNS, IP.v6.Modems and time continuum
Week 3, Day 3 : communications software; internet tools.
Week 4
Chapter: section b
Week 4, Day 1: Introduction, Miscellaneous Web Browser details, searching the www: Directories search engines and Meta search engines
Week 4, Day 2: Introduction, Miscellaneous Web Browser details, searching the www: Directories search engines and Meta search engines
Week 4, Day 3: revision of section a
Week 5
<i>Assignments:</i>
Short note on email , ISPs ?
Week 5, Day 1: test of section a
Week 5, Day 3: test of www
Week 6
Week 6, Day 1 : search fundamentals, search strategies, working of the search engines, Telnet and FTP
Week 6, Day 2: Introduction to Browser, Coast-to-coast surfing, hypertext markup language, Web page installation
Week 7
Chapter:
Week 7, Day 1: revision of section a and b
Week 7, Day 2: test of section a
Week 7, Day 3 : test of section b
Week 8
Chapter: section c

Week 8, Day 1: Basic and advanced HTML, java script language,
Week 8, Day 2: ; Client and Server Side Programming in java script.
Week 8, Day 3: Forms and data in java script, XML basics.
Week 9
Week 9 Day 1 :Introduction to Web Servers: PWS, IIS, Apache; Microsoft Personal Web Server.
Week 9, Day 2: Introduction to Web Servers: PWS, IIS, Apache; Microsoft Personal Web Server.
Week 9Day 3: Accessing & using these servers.
Week 10
<i>Assignments:</i> Explain web servers
Week 10, Day 1: Accessing & using these servers.
Week 10, Day2: revision of Forms and data in java script, XML basics.
Week 10, Day 3: test of Forms and data in java script, XML basics.

Week 11 Chapter: section d
Week 11, Day 1: Introduction, Software Complexity
Week 11, Day 2: Introduction, Software Complexity
Week 11, Day 3: Encryption schemes, Secure Web document
Week 12 Chapter:
Week 12, Day 1: Encryption schemes, Secure Web document,
Week 12, Day 2: Digital Signatures, Firewalls.
Week 12, Day 3: Digital Signatures, Firewalls.
Week 13 Chapter: section d
Week 13, Day 1:revision of section d
Week 13, Day 2: revision of section d
Week 13, Day 3:test of section d
Week 14 <i>Assignments:</i> Explain XML and digital signatures?
Week 14, Day 3: test of section c
Week 15
Week 15, Day 1:revision of section b and d
Week 15, Day 2:test of section b
Week 15, Day 3:test of section d

Lesson Plan

Name of faculty: Vinit Kumar Lohan

Discipline: B.TECH CSE

Semester: 4th

Subject: PROGRAMMING LANGUAGE

Lesson plan duration: 15 Weeks from (January,2018 to April, 2018)

week	Theory	
	Lecture Day	Topic
1st	1	Syntactic and semantic rules of a Programming language
	2	Characteristics of a good programming language
	3	Programming language translators compiler & interpreters
2nd	4	Elementary data types – data objects
	5	Continued.....
	6	variable & constants
3rd	7	data types
	8	Specification & implementation of elementary data types
	9	Declarations ,type checking & type conversions
4th	10	Continued.....
	11	Assignment & initialization
	12	Numeric data types
5th	13	enumerations, Booleans & characters
	14	Revision of Unit-I
	15	Test of Unit-I
		UNIT -II
6th	16	Structured data objects & data types , specification & implementation of structured data types, Declaration & type checking of data structure

	17	vector & arrays, records Character strings, variable size data structures
	18	Union, pointer & programmer defined data objects, sets, files
7th	19	Evolution of data type concept, abstraction
	20	encapsulation & information hiding
	21	Subprograms, type definitions, abstract data types
8th	22	Revision of Unit-II
	23	Test of Unit-II

		UNIT-III
	24	Implicit & explicit sequence control, sequence control within expressions
9th	25	sequence control within statement
	26	Subprogram sequence control: simple call return
	27	recursive subprograms
10th	28	Exception & exception handlers
	29	co routines, sequence control
	30	Names & referencing environment
11th	31	static & dynamic scope, block structure
	32	Local data & local referencing environment, Shared data: dynamic & static scope
	33	Parameter & parameter transmission schemes.
12th	34	Revision of Unit-III
	35	Test of Unit-III
		UNIT-IV
	36	Major run time elements requiring storage
13th	37	programmer and system controlled storage management & phases
	38	Continued....
	39	Static storage management
14th	40	Stack based storage management
	41	Heap storage management ,variable & fixed size elements.
	42	Introduction to procedural, non-procedural ,structured, functional and object oriented programming language
15th	43	Comparison of C & C++ programming languages
	44	Revision of Unit-IV
	45	Test of Unit- IV

Lesson Plan

Name of faculty: Ms. Muskan Garg

Discipline: B.Tech CSE

Semester: 4th

Subject: CAO

Lesson plan duration: 15 Weeks from (10th January, 2018 to 25th April, 2018)

Week	Theory	
	Lecture Day	Topic
1 st	1	Boolean algebra, logic gate
	2	Combinational logic blocks
	3	Combinational logic blocks
2 nd	4	Sequential logic blocks
	5	Sequential logic blocks
	6	Store program control concept, mips
3 rd	7	Classification of Computer
	8	Multilevel view point of machine, cache
	9	Digital logic, ISA, OS
4 th	10	Instruction Set based Architecture
	11	Classification
	12	RISC, CISC and comparison.
5 th	13	Data Transfer
	14	Control Flow
	15	8086, MSAM
6 th	16	CPU Architecture type
	17	Fetch Decode Cycle
	18	Main Memory

7 th	19	Cache Memory
	20	Memory Parameter
	21	Secondary Memory
8 th	22	Memory Hierarchy
	23	Pipeline concept
	24	Revision
9 th	25	Goals of Parallelism
	26	Instruction level parallelism
	27	Processor level parallelism
10 th	28	Instruction node
	29	Computer register
	30	Computer Instruction
11 th	31	Timing and Control

	32	Logic Design, Accumulator
	33	Instruction format
12 th	34	Amdahl's Law
	35	Stack Organization
	36	Revisions
13 th	37	Sec A
	38	Sec A
	39	Sec B
14 th	40	Sec B
	41	Sec C
	42	Sec C
15 th	43	Sec D
	44	Sec D
	45	Full Revision

Lesson Plan

Name of faculty: Ms Parul

Discipline: B.Tech

Semester: 4th

Subject: Database Management Systems Lab

Lesson plan duration: 15 Weeks from (10 January, 2018 to 25 April, 2018)

Work Load Weekly:

Week	Practical Day	Topic
1 st	1 st	Create a database and write the programs to Add a record in the database using Ms-access.
2 nd	2 nd	Create a database and write the programs to Delete a record in the database using Ms-access.
3 rd	3 rd	Create a database and write the programs to Modify the record in the database using Ms-access.
4 th	4 th	Create a database and write the programs to Generate queries using Ms-access.
5 th	5 th	Create a database and write the programs to Generate the report using Ms-access.
6 th	6 th	Create a database and write the programs to List all the records of database in ascending order using Ms-access.
7 th	7 th	Create a database and write the programs to Add a record in the database using SQL.
8 th	8 th	Create a database and write the programs to Delete a record in the database using SQL.
9 th	9 th	Create a database and write the programs to Modify the record in the database using SQL.
10 th	10 th	Create a database and write the programs to Generate queries using SQL.
11 th	11 th	Create a database and write the programs to Generate the report using SQL.
12 th	12 th	Create a database and write the programs to List all the records of database in ascending order using SQL.
13 th	13 th	Develop menu driven project for management of database system: 1. Library information system a. Engineering b. MCA
14 th	14 th	Develop menu driven project for management of database system: Inventory control system a. Computer Lab b. College Store
15 th	15 th	Develop menu driven project for management of database system: Student information system c. Academic d. Finance