

Specimen of Lesson Plan

Name of Faculty:-	Charu Jain
Discipline:-	BCA
Semester:-	IV
Subject:-	RDBMS
Lesson Plan Duration:-	15 Weeks(from January,2019 to April,2019)
** Work Load (Lecture/Practical)per week(in hours):-	Lecturers:-4 , Practical:- 2

Week	Theory		Practical	
	Lecture Day	Topic (including Assignment/Test)	Practical Day	Topic
1	1st	Introduction To the Topic and Syllabus	1st	How to Open SQL, Enter Username and Password
	2nd	What is Relational Model, Cardinality, Degree		
	3rd	Codd's Rules for Relational Model	2nd	Commands of SQL: CREATE, INSERT
	4th	Test of Relational Model		
2	1st	Relational algebra and calculus Introduction	1st	UPDATE, DELETE, ALTER, DROP
	2nd	Relational algebra operations: Union,Intersection, Minus		
	3rd	Cartesian Product, Selection, Projection	2nd	RENAME, ORDER BY, FORMS OF SELECT
	4th	Natural Join, equi Join, Self Join		
3	1st	Test of Relational algebra	1st	Query Writing In SQL
	2nd	Relational Calculus Introduction		
	3rd	Tuple Calculus	2nd	Applying Constraints Like Primary Key
	4th	Domain Calculus		
4	1st	Revision of Relational Algebra and calculus	1st	Unique, Not Null
	2nd	Unit Test 1		
	3rd	Functional Dependency, Anomalies	2nd	Check Constraint, Foreign Key
	4th	Normalization Concept and Types		
5	1st	1NF, 2NF,3NF	1st	Create Standard Tables using all the Constraints
	2nd	BCNF, Partial and Transitive Dependency		
	3rd	Non-Loss Decomposition	2nd	Like, Not Like, Between, Not Between, Group By, Having
	4th	Class Revision and Assignment given of Normalization		
6	1st	Assignment Discussion of Normalization	1st	Implementation of Functions
	2nd	Introduction to Database language		
	3rd	Client Server Architecture	2nd	Functions Continued
	4th	2-Tier and 3-Tier Architecture		
7	1st	Data Definition and Manipulation Language	1st	Creating Views and applying commands on Views
	2nd	Data Types of SQL		
	3rd	Rules for variables, Operators etc	2nd	Test of SQL
	4th	Commands in SQL: CREATE, INSERT		
8	1st	UPDATE, DELETE, ALTER, DROP	1st	Implementation of PL/SQL
	2nd	Constraints in SQL		
	3rd	Column Level and Table Level Constraints	2nd	Writing Short Programs in PL/SQL
	4th	Primary Key, Unique Not Null		

Specimen of Lesson Plan	
Name of Faculty:-	Charu Jain
Discipline:-	BCA
Semester:-	IV
Subject:-	RDBMS
Lesson Plan Duration:-	15 Weeks(from January,2019 to April,2019)
** Work Load (Lecture/Practical)per week(in hours):-	Lecturers:-4 , Practical:- 2

Week	Theory		Practical	
	Lecture Day	Topic (including Assignment/Test)	Practical Day	Topic
9	1st	Check Constraint, Foreign Key	1st	Programs Using different forms of IF
	2nd	Special Operators in SQL: Like, NOT LIKE		
	3rd	BETWEEN, NOT BETWEEN, Group BY, Having	2nd	Programs using Loops
	4th	Functions In SQL: Aggregate Functions		
10	1st	String Functions, Date Functions	1st	Mixed Programs using Control Structures
	2nd	Creating and Updating View in Tables		
	3rd	Revision of SQL	2nd	Implementation of Implicit Cursors
	4th	UNIT TEST 2		
11	1st	Introduction to PL/SQL	1st	Implementation of Explicit Cursors
	2nd	Difference between SQL and PL/SQL		
	3rd	Internal architecture of PL/ SQL	2nd	Explicit Cursors Continued
	4th	Constants, variable, data types of PL/SQL		
12	1st	PL/SQL code block and Execution Environment	1st	File Completion and Checking
	2nd	Control Structures in PL/SQL		
	3rd	IF, IF..ELSE, Nested IF	2nd	Test of PL/SQL
	4th	WHILE and DO WHILE		
13	1st	LOOP and FOR LOOP	1st	Implementation of Triggers
	2nd	Program Writing using Constructs		
	3rd	Revision and Assignment given of SQL	2nd	Implementation of Triggers continued...
	4th	Assignment discussion of SQL		
14	1st	What are Cursors, Types of cursors	1st	Revision of Cursors and Triggers
	2nd	Implicit Cursors and its Program Writing		
	3rd	Explicit Cursor and its program Writing	2nd	File Checking of Cursors of Triggers
	4th	Explicit Cursor Continued		
15	1st	What are Triggers, Types of Triggers	1st	Practical Problem Solving Session
	2nd	Syntax and code for writing Triggers		
	3rd	Revision of PL/SQL	2nd	Final Submission of Practical Files
	4th	Test of PL/SQL		

Charu Jain
(Assistant Professor)

Specimen of Lesson Plan

Name of Faculty:-	Charu jain
Discipline:-	MCA
Semester:-	IV
Subject:-	Artificial Intelligence
Lesson Plan Duration:-	15 Weeks(from January,2019 to April,2019)
** Work Load (Lecture/Practical)per week(in hours):-	Lecturers:-4 , Practical:- 2

Week	Theory		Practical	
	Lecture Day	Topic (including Assignment/Test)	Practical Day	Topic
1	1st	Foundational Issues in Intelligent Systems	1st	
	2nd	Definition of AI, MAN vs Computer		
	3rd	Applications of AI	2nd	
	4th	History of AI		
2	1st	Branches of AI	1st	
	2nd	Natural Language		
	3rd	Intelligent Systems	2nd	
	4th	Components of Intelligent Systems		
3	1st	AI Problems: Depth First, Breadth First	1st	
	2nd	Heuristic Search		
	3rd	Constraint Satisfaction	2nd	
	4th	Game Tree: Min max Algorithms		
4	1st	Hill Climbing, Alpha Beta Cut-off	1st	
	2nd	Heuristic Search		
	3rd	Heuristic Function, Types of Heuristics	2nd	
	4th	UNIT TEST 1		
5	1st	Role of Knowledge Representation	1st	
	2nd	Types of Knowledge		
	3rd	Approaches to Knowledge Representation	2nd	
	4th	Role of logic in AI		
6	1st	Test of Knowledge Representation	1st	
	2nd	Constraint Propagation		
	3rd	Representinf Knowledge using Rule	2nd	
	4th	Rules of Inference		
7	1st	Converinf WFF to clausal form	1st	
	2nd	Rule based deduction system		
	3rd	Resolution in predicate logic	2nd	
	4th	Unification		
8	1st	Strategies for Resolution by Refutation	1st	
	2nd	Revision of Logics		
	3rd	Test of Logics	2nd	
	4th	Reasoning Under Uncertaininy		

Specimen of Lesson Plan

Name of Faculty:-	Charu jain
Discipline:-	MCA
Semester:-	IV
Subject:-	Artificial Intelligence
Lesson Plan Duration:-	15 Weeks(from January,2019 to April,2019)
** Work Load (Lecture/Practical)per week(in hours):-	Lecturers:-4 , Practical:- 2

Week	Theory		Practical	
	Lecture Day	Topic (including Assignment/Test)	Practical Day	Topic
9	1st	Probability	1st	
	2nd	Probability Distribution		
	3rd	Bayesian Theorem	2nd	
	4th	Dempstershafer Theory		
10	1st	Revision and assignment on Theorems	1st	
	2nd	Discussion on assignments		
	3rd	Heuristic methods	2nd	
	4th	Symbolic Reasoning		
11	1st	Statistical reasoning	1st	
	2nd	Non Monotonic Reasoning		
	3rd	Problems on statistical Reasoning	2nd	
	4th	Revisioion of Topic		
12	1st	UNIT TEST 2	1st	
	2nd	Planning in Situational Calculus		
	3rd	Representation for Planning	2nd	
	4th	Partial Order Planning		
13	1st	Test of Planning	1st	
	2nd	Learning from Examples		
	3rd	Learning by analogy	2nd	
	4th	Explanation basd learning		
14	1st	Test of Learning	1st	
	2nd	Revision and Assignment om Planning and Learning		
	3rd	Rote learning and neural Learning	2nd	
	4th	Principles of NLP		
15	1st	AI aplications in Robotics	1st	
	2nd	Current Trends in AI		
	3rd	Revision of NLP	2nd	
	4th	TEST of NLP		

Charu Jain
(Assistant Professor)