

Lesson Plan

Name Of Faculty : Mr. Hitesh Kumar

Discipline : Computer Engg.

Semester : VIth

Subject : RDBMS

Lesson Plan Duration : 15 week(July 2018 to November 2018)

Week	Theory		Practical	
	Lecture Day	Topic (Including Assignment / Test)	Practical Day	Topic
Ist	1	Introduction to Relational Model	1	Installing and Uninstalling SQL Server
	2	Relational Model Concept : Domain, attributes, Tuple and Relations	2	Installing and Uninstalling SQL Server
	3	Domain constraints, Key constraints and constraints on Null		
IInd	4	Relational databases and relational database schemes	3	Creation of Database Object.
	5	Entity integrity, referential integrity and foreign key	4	Modification of Database Object.
	6	Concept of Normalization, Need of Normalization		
IIIrd	7	Non-loss decomposition and functional dependencies, Trivial and Non Trivial dependencies, Closure of a set of dependencies and attributes.	5	Removal of Database Object.
	8	Normalization:First, Second	6	Querying the database with Select Command
	9	Third normal forms, Boyce/Codd normal form		
IVth	10	Multi Valued dependency	7	Use of Different types of Operators in Select Command.
	11	5 NF	8	Ist Sessional
	12	Ist Sessional		
Vth	13	Relational Calculus Operations	9	Use of Functions.
	14	Tuple Calculus	10	Sub Queries in Database
	15	Domain Calculus		
VIth	16	Example of Query language based on tuple and domain	11	Use of Joins in Queries
	17	SQL's basic objects, data types	12	Use of Set Operators
	18	Aggregate functions, scalar functions		

VIIth	19	Null values, creating database objects	13	Use of Group by clause and Having Clause.
	20	Modifying database objects, removing database objects	14	Creations of Stored Procedures
	21	Insert statement, Update statement		
VIIIth	22	Delete statement, Select statement	15	Creations of Stored Procedures
	23	Queries and sub-queries	16	Creation of User Defined Functions.
	24	Different clauses of select statement		
IXth	25	Join operator	17	Creation of User Defined Functions.
	26	Correlated sub-queries	18	Creation of Index and dropping of Indexes
	27	Derived tables		
Xth	28	IIInd Sessional	19	II Sessional
	29	Stored procedures and User defined functions, Procedural extensions	20	Creation of Index and dropping of Indexes
	30	IF statement, WHILE statement, local variables, try and catch statements		
XIth	31	Stored procedures	21	Creation and using Views
	32	User defined functions	22	Use of Grant, revoke commands.
	33	System catalog		
XIIth	34	Guidelines for creating and using indexes	23	Creation and use of Triggers.
	35	Creating and using views, advantages and disadvantages of views	24	Creation and use of Triggers.
	36	Security system of database engine		
XIIIth	37	Database security	25	Revision of Different Commands
	38	Roles, authorization	26	Creation of Database object based on the above commands
	39	Grant, deny, revoke statements		
XIVth	40	Introduction to triggers	27	Creation of Database object based on the above commands
	41	Creating and using triggers	28	Practice of Commands
	42	Database level triggers		
XVth	43	Server level triggers	29	Practice of Commands
	44	IIIrd Sessional	30	IIIrd Sessional
	45	Revision & Problem Solving of students		