Oracle Course Syllabus

Day	Chapter	Topic	Hours
1	**DBMS Concepts**	Introduction to DBMS Advantages	1
2		File system vs DBMS	1
4		Data Models	2
6 7		DBMS Components	2
8 9		DBMS Architecture Client Server Technology	2
10 11	**Oracle Basics**	Introductin to Oracle Oracle Features	2
12		Oracle DataBase Architecture	1
13	**SQL**	Types of SQL statements(DDL,DML,DCL) SQL Features SQL Data types	1
14	**Oracle Table Operations**	Oracle Demo tables Table Creation	1
15		Insert	1
16		Select with with various operations	1
17 18		SQL pre defined functions	2
19		Updating Table data	1
20 21		Deleting Table data Dropping table Truncating tables	2

Day	Chapter	Topic	Hours
22		Rollback, commit, savepoint	1
23 24	**Constraints**	Domain Integrity Constraints Unique, Not Null, Primary Key, Check Referential Integrity Constrains Foreign Key Adding & Removing Constraints to existing table	2
25 26	**Sub Queries**	Nested Sub Queries Correlated Sub Queries	2
27 28	**Table Joins**	Equi join, outer join, Cartesian join, self join Set opeations Union, intersect, union all , minus	2
29	**Group by operations**	Select with group by Aggrigate functions using group by	1
30 31	**Views**	**View definition, Advantages** **Creating views various operations**	**2**
32	**Sequences**	Creating , retrieving data , modifying, dropping sequences	1
33	**Indexing**	What is index, advantages Types of indexes Creating index Retrieving data using index Dropping sequence	1
34	**Clustering**	What is clustering, Advantages of clustering	1

Day	Chapter	Topic	Hours
		Creating cluster Applying clusters to tables	
35 36	**SQL Reports**	Preparing SQL reports	2
37	**PL/SQL**	Introduction to PL/SQL PL/SQL features PL/SQL Block Structure	1
38 39 40		Basic Programming with PL/SQL Control statements, loops	3
41 42 43		Cursors Definition,Advantages, Implementation,Explicit Cursor Attributes,Ref cursors	3
44 45	**PL/SQL**	Stored Procedures introduction Implementing Procedures for various operations on data base	2
46 47		User Defined functions Implementing User Defined functions with various operations Parameter Modes(in,out,inout)	2
48 49		Packages importance, advantages Implementing packages	2
50 51		Data Base Triggers Definitions, Implementing triggers for various	2

Day	Chapter	Topic	Hours
		DML operations (insert, delete, update)	
52	**Other Tables**	User_tables, User_views User_constraints User_procedures User_objects User_triggers User_indexes	1
53 54	**OOPS**	Object Oriented Programming Creating Object types, Implementing data members & member functions in objects Static methods, self , ref, deref	2
55	**Varying Arrays**	Varying Arrays	1
56	**Nested Tables**	Nested Tables	1
57	**User Creation**	Creating users Granting & Revoking permissions on Data base Granting & Revoking permissions on Objects	
58 59	**Table partitions**	Various types of partitions Range, list, hash	2