CIRCULAR

20.09.2017

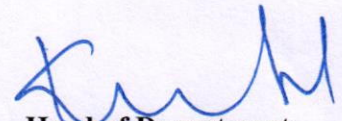The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Introduction to Oracle** for the benefit of II year students. This course is scheduled from 26.09.2017 for 30hours which includes theory and practical. The timings are 2.00 PM to 4.00 PM from Tuesday (AN) to Saturday (AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Mrs.C.Geetha	Asst Professor
2	Mrs.D.Jeyapriya	Asst Professor

Head of Department

To

Copy to CSE

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CERTIFICATE COURSE ON INTRODUCTION TO ORACLE

Date of Introduction of the Course: 26.09.2017

The timings are 2.00 PM to 4.00 PM from Tuesday (AN) To Saturday (AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	26-09-017 (AN)	**1. Introduction to Oracle** • About Oracle • Tables and Table Clusters • Indexes and Index-Organized Tables • Partitions, Views, and Other Schema Objects • Data Integrity • Data Dictionary and Dynamic Performance Views
3,4	27-09-2017 (AN)	**2. Introduction To SQL** • Introduction Database • Understanding DBMS vs RDBMS • Gone through SQL Standards • Sub languages of SQL • About SQL*Plus and use of developer tool • Data types in Oracle • Operators in Oracle • Understanding Schema design and objects
5,6	28-09-2017 (AN)	**3. Data Retrieval Techniques** • To use select statement in different ways to retrieve records? • Working with Column alias • Working with Table alias • Data filtering and sorting with in single table • Clauses and its types in oracle
7,8	29-09-2017 (AN)	**4. Working with DDL Commands** • Table creation using CREATE statement • Creating table from another table • Dropping a table using DROP command • Altering the column of a table • Modifying the column datatype in a table • Renaming the column of a table • Renaming an entire table

9,10	**30-09-2017 (AN)**	**5. Working With DML Commands** • How to copy data from one table to another table? • How to copy the structure alone from a table? • Different types of inserting row to an existing table • Updating any value of with in a record using UPDATE command • Deleting a particular record from a table
11,12	**03-10-2017 (AN)**	**6. Integrity Constraints** • To declare column level constraints • To declare row level constraints • To add constraints to an existing table • Types of integrity constraints • To enable and disable constraints • To get information about constraints

13,14	**04-10-2017 (AN)**	**7. Built In Functions**
		
		• Understanding Single row functions
		• To use single row functions using dummy table
		• Types of single row functions
		   o String functions
		   o Date functions
		   o Mathematical functions
		   o Conversion functions
		   o Special functions

15,16	**05-10-2017 (AN)**	**8. Importance Of JOIN**
		
		• Understanding joins and its uses
		• Types of joins
		
		   o Equi join
		   o Non – equi join
		   o Self join
		   o Outer join
		   o Left & Right outer join
		   o Full outer join

17,18	**06-10-2017 (AN)**	**9. Set Operators And Pseudo Columns:**
		
		• To use set operators in a single table content
		• Working with set operator types
		   o UNION
		   o UNION ALL
		   o INTERSECT
		   o MINUS
		• Working with pseudo columns using the following
		
		   o ROWID
		   o ROWNUM

19,20	07-10-2017 (AN)	**10. Sub Queries**
		
		    ▪ Importance of sub queries
		    ▪ Using different types of sub queries
		
		        ○ Single row sub queries
		        ○ Multi row sub queries
		        ○ Nested queries
		        ○ Multi column sub queries
		        ○ Correlated sub queries

21,22	09-10-2017 (AN)	**11. Database Transaction And Security**
		
		    ▪ Working with data query language using TCL
		    ▪ Working with data control language commands
		    ▪ Use of commit and rollback
		    ▪ Use of savepoint and set transaction
		    ▪ To give system privileges to an user
		    ▪ To invoke and revoke object privileges
		    ▪ To create users and roles

23,24	10-10-2017 (AN)	**12. Design Of Schema Objects**
		
		    ▪ Creating and working with Views
		    ▪ Working with Synonyms
		    ▪ Creating Index and clusters
		    ▪ Working with in materialized view

25,26	11-10-2017 (AN)	**13.** Data Concurrency and Consistency
		
		    ▪ Transactions
		    ▪ Introduction to Transactions
		    ▪ Overview of Transaction Control
		    ▪ Overview of Transaction Guard
		    ▪ Overview of Application Continuity

27,28	12-10-2017 (AN)	**14.** Oracle Database Storage Structures
		
		    ▪ Physical Storage Structures
		    ▪ Logical Storage Structures
		    ▪ Oracle Database Instance
		    ▪ Memory Architecture
		    ▪ Process Architecture
		    ▪ Application and Networking Architecture

29,30	13-10-2017 (AN)	**15.** Database Administration
		    ▪ Oracle Database Administration and Application Development
		    ▪ Topics for Database Administrators and Developers
		    ▪ Concepts for Database Administrators
		    ▪ Concepts for Database Developers

COURSE COORDINATOR

C. GEETHA

HEAD OF THE DEPARTMENT

CERTIFICATE COURSE ON INTRODUCTION TO ORACLE

Date of Introduction of the Course: 26.09.2017

COURSE SYLLABUS

1. Introduction to Oracle

About Oracle ,Tables and Table Clusters, Indexes and Index-Organized Tables, Partitions, Views, and Other Schema Objects, Data Integrity, Data Dictionary and Dynamic Performance Views

2. Introduction To SQL

Introduction Database, Understanding DBMS vs RDBMS, Gone through SQL Standards, Sub languages of SQL, About SQL*Plus and use of developer tool, Data types in Oracle, Operators in Oracle, Understanding Schema design and objects

3. Data Retrieval Techniques

How to use select statement in different ways to retrieve records?, Working with Column alias, Working with Table alias, Data filtering and sorting with in single table, Clauses and its types in oracle

4. Working with DDL Commands

Table creation using CREATE statement, Creating table from another table, Dropping a table using DROP command, Altering the column of a table, Modifying the column data type in a table, Renaming the column of a table, Renaming an entire table

5. Working With DML Commands

To copy data from one table to another table, To copy the structure alone from a table, Different types of inserting row to an existing table, Updating any value of with in a record using UPDATE command Deleting a particular record from a table

6. Integrity Constraints

How to declare column level constraints, How to declare row level constraints , How to add constraints to an existing table, Types of integrity constraints, To enable and disable constraints, To get information about constraints.

7. Built In Functions

Understanding Single row functions, To use single row functions using dummy table, Types of single row functions

8. Importance Of JOIN

Understanding joins and its uses, Types of joins

9. Set Operators And Pseudo Columns:

To use set operators in a single table content, Working with set operator types, Working with pseudo columns using the following

10. Sub Queries

Importance of sub queries , Using different types of sub queries

11. Database Transaction and Security

Working with data query language using TCL, Working with data control language commands, Use of commit and rollback, Use of save point and set transaction, To give system privileges to an user, To invoke and revoke object privileges, To create users and roles?

12. Design Of Schema Objects

Creating and working with Views, Working with Synonyms, Creating Index and clusters, Working with in materialized view

13. Data Concurrency and Consistency

Transactions, Introduction to Transactions, Overview of Transaction Control, Overview of Transaction Guard Overview of Application Continuity

14. Oracle Database Storage Structures

Physical Storage Structures, Logical Storage Structures, Oracle Database Instance, Memory Architecture Process Architecture, Application and Networking Architecture

15. Database Administration

Oracle Database Administration and Application Development, Topics for Database Administrators and Developers, Concepts for Database Administrators, Concepts for Database Developers

COURSE OBJECTIVES

In this course we plan to give students an basic concepts about database and Oracle. Students will get enough knowledge about commands and its execution. It is our aim to make students to know about different techniques and structures of oracle database. The students will develop their knowledge to do oracle coding and become a practitioner or carry out research projects in this domain.

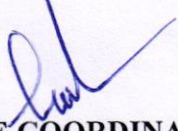**Specifically, the course has the following objectives:**

Students will learn

1) The fundamental ideas about database and the importance and usage of oracle, Different structures and transaction management;

2) The implementation of different techniques and commands

Software deployment considerations;

3) Different CPU, memory and I/O virtualization techniques that serve in offering software, computation and storage services. Oracle database is needed

4) Different storage technologies and relevant distributed file systems, PLSQL databases and object storage;
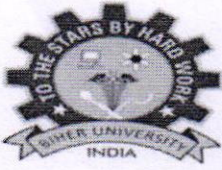
COURSE COORDINATOR

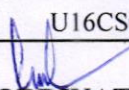C. GEETHA

HEAD OF THE DEPARTMENT

CERTIFICATE COURSE ON INTRODUCTION TO ORACLE
Date of Introduction of the Course: 26.09.2017

School of Computing
Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS001	SANTOSH B
2	U16CS002	APARNA V M
3	U16CS003	NALAMOTHU SRIKANTH
4	U16CS004	ABDUL KHADIR L
5	U16CS006	SARAVANAN R
6	U16CS007	SANAM NAGA VENKATA SAI KRISHNA
7	U16CS008	CHEEMIREDDIGARI ANKITHAREDDY
8	U16CS009	RITIK RAJ
9	U16CS010	JOHAN KIRUBHAHAR P P
10	U16CS011	RAVURI MOUNIKA
11	U16CS012	FAYAZ AKIL S
12	U16CS013	SURYA SUNDARRAJ SRIRAM
13	U16CS014	SOMA BHARATH KUMAR
14	U16CS015	B J JAISON
15	U16CS016	SARAVANAKUMAR S
16	U16CS017	VARUN KANNA A
17	U16CS018	JUPAKA SAIVARUN
18	U16CS019	PYDI VENKATA PRITHEESH NIHAR
19	U16CS020	R MAHESH
20	U16CS021	DHRUBAJYOTI MAJI
21	U16CS024	SRIMATHI S
22	U16CS025	SANTHOSHKUMAR S
23	U16CS026	AJAY KUMAR R
24	U16CS027	GARLAPATI RAGHURAM
25	U16CS028	PADILAM JAYANTH YADAV

26	U16CS029	MOHAMMED KHIZER HUSSAIN N
27	U16CS030	JEEVAMEDHA M
28	U16CS031	SYED HAFEEZ HUSSAIN
29	U16CS032	MUGESH P
30	U16CS033	POOJALAKSHMI N
31	U16CS034	GUNDU NIKITHA REDDY
32	U16CS035	RESHMA R
33	U16CS036	LAKSHMI NARAYANAN A
34	U16CS037	PALLE NAZEER VALI
35	U16CS038	GOLUSULA SAI KUMAR
36	U16CS039	PATTAN FEROZ KHAN
37	U16CS040	MOHAMMAD AHAMAD ALIKHAN
38	U16CS041	LAAVANYA G A
39	U16CS042	MD NOORUL ISLAM
40	U16CS043	RAVI KUMAR
41	U16CS044	ADARSH BARANWAL
42	U16CS045	RAHUL TIWARI
43	U16CS046	MARELLA VENKATA SUNEEL
44	U16CS047	AMARULLAH ALI
45	U16CS048	A R KARAN

COURSE COORDINATOR   **HEAD OF THE DEPARTMENT**

Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

INDIA

CERTIFICATE OF PARTICIPATION

This certificate is presented to

S.Suya Sundarraj

For actively participating in the value added course "Introduction to Oracle" Conducted by School of Computing, BIHER from 26.09.2017 to 13.10.2017.

COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Academic Year	2017-2018		
Term	ODDSEM		
Course Number			
Course Title	INTRODUCTION TO ORACLE		
Number of Credits			
Type of Course	Regular	Elective	Add-on ✓

I. **Information on the Respondent: (Tick (√) Appropriately)**

1. **Percentage of classes attended**

0-20		20-40		40-60		60-80	✓	80-100	

2. **Number of hours per week spent on the course (Other than lecture hours)**

0-2		2-4		4-6	✓	6-8		8-10	

3. **Preparation for the course by the student:**

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(iv)	Have no exposure to the background material	yes

4. **The expectations for taking the course by the student are:**

(a)	Enhance by skill base in the area of specializations	yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (√) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture		✓			
2.	Comment of the Subject			✓		
3.	Clarity of expression		✓			
4.	Level of preparation		✓			
5.	Level of interaction			✓		
6.	Accessibility outside the class		✓			
7.	Others (please specify		✓			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	

HEAD OF THE DEPARTMENT

COURSE FEEDBACK FORM

Academic Year	2017 – 2018
Term	odd sem
Course Number	
Course Title	Introduction to Oracle
Number of Credits	

Type of Course	Regular		Elective		Add-on	✓

I. Information on the Respondent: (Tick (√) Appropriately)

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		A	B	C	D	E
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2.	Comment of the Subject		✓			
3.	Clarity of expression			✓		
4.	Level of preparation		✓			
5.	Level of interaction		✓			
6.	Accessibility outside the class			✓		
7.	Others (please specify		✓			

A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	

HEAD OF THE DEPARTMENT