Rajarshi Shahu Mahavidyalaya(Autonomous), Latur

Faculty Of InformationTechnology.

Structured Work Plan for Teaching

(6 –July - 2020   TO   15- Nov.-2020)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical paper code	Total Teaching Hours
1	B.Sc.C.S. T.Y. [V - Sem]	Mrs. Jadhav Jayshree M.	RDBMS Through Oracle	U-RDB-603	LAB. COURSE - XVIII U-LAC-609 Total credit:2	Th-50 PR-15
2	B.C.A. T.Y. [V- Sem]		Relational DBMS	U-RDB-616	LAB. COURSE – XVIII U-LAC-622 Total credit:2	Th-50 PR-15

2. Summary of Lesson Plan

Name of Teacher: **Mrs. Jadhav Jayshree M.**   **Class**   : B.Sc.C.S. T.Y. [V - Sem]

Teaching Hours: 52

Sr. No.	Course Title/ Course Code	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1		**Unit 1.** **Chap 1. SQL Statements & Working with tables:** **1.1. DDL, DML, DQL, DCL,1.2. Data types in SQL** **1.3. Creating & Managing Tables Data Constraints** **SELECT statement with where, Order by andDistinct clause** **1.6 Oracle operators**	6-7-20	5-8-20	10	Class Seminars	Assignment on Select statement,clauses
2	RDBMS THROUGH ORACLE	**Chap 2. Advance SQL :** **Oracle Views: Types, creating and managing views** **SQL Functions: Single Row Functions, CharacterFunctions, Number Functions, Date Functions,** **Conversion Functions 2.3 Group by**	8-8-20	25-8-20	8	Quries Solving Task	Assignment on Views

		and having clause				
3	(U-RDB-603)	Unit -II Chap 3. . Joining Tables &Working with Sub queries What is Join? Natural Join/Inner Join/Equijoin/outer join / selfjoin Joining With 'USING' Clause Joining With 'ON' Clause Subqueries: Single Row Sub query, Multiple RowSub query	27-8-20	14-9-20	5	Quries Solving Task	Test
4		Chap 4. PL/SQL Overview 4 Hrs PL/SQL block structure Condition logic 4.3 Loops	25-9-20	10-10-20	10	Seminars	Programming Assignments on conditional Logic
5		Unit -III Chap 5. Advance in PL/SQL 5.1. Triggers: Triggers Syntax, Types of triggers: RowLevel, Statement Level, Before, After, Enabling and Disabling Triggers, Replacing andDropping Triggers 5.2 Oracle transactions: commit, rollback and savepoint 5.3. Working With Cursor: Types of cursor: Implicit &Explicit cursor	11-10-20	20-10-20	7	Seminars	Programming Assignments on Triggers
6		Unit-IV Chap 6.. Concurrency control in Oracle and Databaseobjects 6.1 locks 6.2 Exception Handling in PL/SQL 6.3. PL/SQL Procedures and functions	22-10-20	15-11-20	6	Seminars	Programming Assignments on procedures

Summary of Lesson Plan

Name of Teacher: Mrs. Jadhav Jayshree M.   **Class   : B.C.A. T.Y. [V - Sem]**   **Teaching Hours: 52**

Sr. No.	Course Title/ Course Code	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1		Unit-I **Chap 1. SQL Statements & Working with tables:** **1.1. DDL, DML, DQL, DCL,1.2. Data types in SQL** **1.3. Creating & Managing Tables Data Constraints** **SELECT statement with where, Order by and** **Distinct clause 1.6 Oracle operators**	6-7-20	5-8-20	10	Class Seminars	Practical Assignment on Select statement,clauses
2	RELATIONAL DBMS U-RDB-616	**Chap 2. Advance SQL :** **Oracle Views: Types, creating and managing views** **SQL Functions: Single Row Functions, Character** **Functions, Number Functions,** **Date Functions, Conversion**	8-8-20	25-8-20	10	Quries Solving Task	Assignment on Views

		Functions 2.3 Group by and having clause				
3		Unit -II **Chap 3. . Joining Tables &Working with Sub queries** **What is Join?** **Natural Join/Inner Join/Equijoin/outer join / selfjoin** **Joining With 'USING' Clause** **Joining With 'ON' Clause** **Subqueries: Single Row Sub query, Multiple RowSub query**	27-8-20	14-9-20	8	Quries Solving Task	Test
4		**Chap 4. PL/SQL Overview 4 Hrs** **PL/SQL block structure** **Condition logic** **4.3 Loops**	25-9-20	10-10-20	10	Seminars	Programming Assignments on conditional Logic
5		**Unit-III** **Chap 5. Advance in PL/SQL** **5.1. Triggers: Triggers Syntax, Types of triggers: RowLevel, Statement Level, Before, After, Enabling and Disabling Triggers, Replacing andDropping Triggers** **5.2 Oracle transactions: commit, rollback and savepoint** **5.3. Working With Cursor: Types of cursor: Implicit &Explicit cursor**	11-10-20	20-10-20	7	Seminars	Programming Assignments on Triggers
6		Unit-IV **Chap 6. Database objects** **6.1 Exception Handling in PL/SQL** **6.3. PL/SQL Procedures and functions**	22-10-20	15-11-20	8	Seminars	Programming Assignments on procedures

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Structured Work Plan for Teaching

(24–Feb - 2021   TO   15- May-2021)

1.   **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical paper code	Total Teaching Hours
1	B.Sc.C.S. T.Y. [VI - Sem]	Mrs. Jadhav Jayshree M.	Database Administration	U-DBA-704 Total credit:3	LAB. COURSE - XXV U-LAC-710 Total credit:2	Th-50 PR-15
2	B.C.A. T.Y. [VI- Sem]		Database Administration	U-DBA-717 Total credit:3	LAB. COURSE - XXV U-LAC-723 Total credit:2	Th-50 PR-15

2. Summary of Lession Plan

Name of Teacher: Mrs. Jadhav Jayshree M.   **Class   :** B.Sc.C.S. T.Y. [VI - Sem]

Teaching Hours: 52

Sr. No.	Course Title/ Course Code	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1		**Unit-I** **Chap 1. Basics of DBA:** **Functions of DBA, Oracle Instance- Starting and Stopping Instance, Memory Architecture, Background Process, Physical Database Structure, Manual Database creation**	25-02-21	12-3-21	10	Class Seminars	Assignment on Memory Acritecture
2	**Database Administration** **U-DBA-704**	**Chap 2. Tablespaces:** **Introduction to Tablespaces - Types of Tablespaces Working with Tablespaces - Creating Tablespaces, altering Tablespaces, modifying Tablespaces, Management of Tablespaces**	13-3-21	20-3-21	7	Mini Task	Assignment on Tablespace Mgmt
3		**Unit-II** **Chap 3. Physical Database Layouts & storage management:** **Traditional disk space storage, Resizing tablespaces and database, Moving datafile, Moving online redo log file, moving control files, Undo basics**	21-3-21	29-3-21	7	Seminars	Test

4		**Chap 4. RAC Database:- Overview of Real Application Clusters, RAC database characteristics**	1-4-21	8-4-21	5	Mini Task	Test
5		**Unit-III** **Chap 5. Backup and Recovery:- Logical Backup -data pump export/import process , Physical backup - Offline Online backup, Flash Recovery area**	10-4-21	16-4-21	7	Seminars	Programming Assignments on RMAN
6		**Unit-IV** **Chap 6. Database Tuning Tuning - application design, effective table design, Distribution of CPU requirements, Effective application design, Tuning SQL, Impact of order of load rates, Additional Indexing options, Generating explain plan.**	17-4-21	25-4-21	10	Seminars	Programming Assignments
7		**Chap 7. Database Security and Auditing - Non database security, database authentication methods, database authentication, DBA authentication, user accounts, database authorization methods, auditing**	25-4-21	12-5-21	12	Mini Task	Assignment on User Creation

Name of Teacher: Mrs. Jadhav Jayshree M.

Class   : B.C.A. T.Y. [VI - Sem]

Teaching Hours: 52

Sr. No.	Course Title/ Course Code	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1		Unit-I Chap 1. Basics of DBA: Functions of DBA, Oracle Instance- Starting and Stopping Instance, Memory Architecture, Background Process, Physical Database Structure, Manual Database creation	24-02-21	12-3-21	13	Class Seminars	Assignment on Memory Acriteture
2	Database Administration U-DBA-717	Chap 2. Tablespaces: Introduction to Tablespaces - Types of Tablespaces Working with Tablespaces - Creating Tablespaces, altering Tablespaces, modifying Tablespaces, Management of Tablespaces-	13-3-21	22-3-21	9	Mini Task	Assignment on Tablespace Mgmt
3		Unit-II Chap 3. Physical Database Layouts & storage management: Traditional disk space storage, Resizing tablespaces and database, Moving datafile, Moving online redo log file, moving control files, Undo basics	23-3-21	29-3-21	7	Seminars	Test

4		Chap 4. Backup and Recovery:-Logical Backup -data pump export/import process , Physical backup - Offline Online backup, Flash Recovery area	1-4-21	10-4-21	8	Mini Task	Test
5		Unit-III Chap 5. Database Tuning - application design, effective table design, Distribution of CPU requirements, Effective application design, Tuning SQL, Impact of order of load rates, Additional Indexing options, Generating explain plan.	11-4-21	22-4-21	12	Seminars	Assignments on Tunning Database
6		Unit-IV Chap 6. Database Security and Auditing - Non database security, database authentication methods, database authentication, DBA authentication, user accounts, database authorization methods, auditing	23-4-21	10-5-21	15	Seminars	Assignment on User Creation

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2	B.C.A. T.Y. [VI- Sem]		Database Administration	U-DBA-717 Total credit:3	LAB. COURSE - XXV U-LAC-723 Total credit:2	Th-50 PR-15

2. Summary of Lession Plan

Name of Teacher: Mrs. Jadhav Jayshree M.

Class   : B.Sc.C.S. T.Y. [VI - Sem]

Teaching Hours: 52

Sr. No.	Course Title/ Course Code	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1		Unit-I Chap 1. Basics of DBA: Functions of DBA, Oracle Instance-Starting and Stopping Instance, Memory Architecture, Background Process, Physical Database Structure, Manual Database creation	25-02-21	12-3-21	10	Class Seminars	Assignment on Memory Acritecture
2	Database Administration U-DBA-704	Chap 2. Tablespaces: Introduction to Tablespaces - Types of Tablespaces Working with Tablespaces - Creating Tablespaces, altering Tablespaces, modifying Tablespaces, Management of Tablespaces	13-3-21	20-3-21	7	Mini Task	Assignment on Tablespace Mgmt
3		Unit-II Chap 3. Physical Database Layouts & storage management: Traditional disk space storage, Resizing tablespaces and database, Moving datafile, Moving online redo log file, moving control files, Undo basics	21-3-21	29-3-21	7	Seminars	Test

4		**Chap 4. RAC Database:- Overview of Real Application Clusters, RAC database characteristics**	1-4-21	8-4-21	5	Mini Task	Test
5		**Unit-III** **Chap 5. Backup and Recovery:- Logical Backup -data pump export/import process , Physical backup - Offline Online backup, Flash Recovery area**	10-4-21	16-4-21	7	Seminars	Programming Assignments on RMAN
6		**Unit-IV** **Chap 6. Database Tuning Tuning - application design, effective table design, Distribution of CPU requirements, Effective application design, Tuning SQL, Impact of order of load rates, Additional Indexing options, Generating explain plan.**	17-4-21	25-4-21	10	Seminars	Programming Assignments
7		**Chap 7. Database Security and Auditing - Non database security, database authentication methods, database authentication, DBA authentication, user accounts, database authorization methods, auditing**	25-4-21	12-5-21	12	Mini Task	Assignment on User Creation

Name of Teacher: Mrs. Jadhav Jayshree M.   **Class   :** B.C.A. T.Y. [VI - Sem]

Teaching Hours: 52

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2	**Database Administration** **U-DBA-717**	**Chap 2. Tablespaces:** **Introduction to Tablespaces - Types of Tablespaces Working with Tablespaces - Creating Tablespaces, altering Tablespaces, modifying Tablespaces, Management of Tablespaces-**	13-3-21	22-3-21	9	Mini Task	Assignment on Tablespace Mgmt
3		**Unit-II** **Chap 3. Physical Database Layouts & storage management: Traditional disk space storage, Resizing tablespaces and database, Moving datafile, Moving online redo log file, moving control files, Undo basics**	23-3-21	29-3-21	7	Seminars	Test
4		**Chap 4. Backup and Recovery:-** **Logical Backup -data pump export/import process , Physical**	1-4-21	10-4-21	8	Mini Task	Test

		backup - Offline Online backup, **Flash Recovery area**					
5		**Unit-III** **Chap 5. Database Tuning - application design, effective table design, Distribution of CPU requirements, Effective application design, Tuning SQL, Impact of order of load rates, Additional Indexing options, Generating explain plan.**	11-4-21	22-4-21	12	Seminars	Assignments on Tunning Database
6		**Unit-IV** **Chap 6. Database Security and Auditing - Non database security, database authentication methods, database authentication, DBA authentication, user accounts, database authorization methods, auditing**	23-4-21	10-5-21	15	Seminars	Assignment on User Creation