Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Department Of Computer Science & I.T.

Structured Work Plan for Teaching

(29 – NOV - 18 TO 21- March-19)

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

Sr. No.	Class	Name of Asst. Prof.	Subject	Course Title	Course Code	Prctical paper code	Total Teaching Hours
1	M.Sc.C.S. F.Y. [II - Sem]	Mrs. Jadhav Jayshree M.	Computer Science	Internet Of Things	P-INT-228-I Total credit: 4	--	Th-60
2	M.Sc.C.S. S.Y. [IV - Sem]			Big data Analytics	P-BDA-426 Total credit: 4	P-LAC-431 Total credit: 4	Th-60 PR-15
3	B.C.A. T.Y.[VI-Sem		Computer Application	Oracle 10G DBA	U-ORD-699 Total credit: 3	U-LAC-704 Total credit: 2	Th-50 PR-15

Summary of Lession Plan

Name of Teacher: Mrs. Jadhav Jayshree M. **Class : M.Sc.C.S. F.Y(IISem)** **Teaching Hours: 60**

Sr. No.	Subject	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Internet Of Things P-INT-228-I	Unit-I : Introduction and concepts Definition and characteristics of IoT **Physical Design of IoT**- Things in IoT, IoT Protocols Logical Design of IoT- IoT functional blocks,IoT communication models IoTenabling **Technologies**-Wireless sensor networks, cloud computing, big data analytics, communication protocols, embedded systems IoTLevels and deployment templates-IoT Level1 to IoT Level6 **Unit-II: Domain Specific IoTs** Introduction Home automation- Smart lighting, smart appliances,	29.11.18 11.12.18	10.12.18 20.12.18	9 09	Class room Seminars	Mini Task on Unit I, unit II Unit III and Unit IV

		intrusion detection, smoke or gas detectors 8 Cities-Smart parking, smart lighting, smart roads, structural help monitoring, surveillance, emergency response Environment-Weather monitoring, Air pollution monitoring, forest fire detection, river flood detection Retail- Inventory management, smart payments, smart vending machines Logistics- Route generation and scheduling, fleet tracking, ship monitoring, remote vehicle diagnostic Agriculture- smart irrigation, green house control Industry- machine diagnostic, prognosis, indoor air quality monitoring	21.12.18 30.12.18	29.12.18 18.1.19	07 8		
		Unit-III: IoT Vs M2M and Developing IoTs M2M, Difference between IoT and M2M Difference between SDN and NFV for IoT- software defined networking and network function	29.01.19 10.2.18	9.02.19 17.2.18	08 06		

		virtualization, IoT Code generator **Unit-IV: IoT design methodology** Purpose and requirement specification Process specification Domain model specification Information model specification Service specification IoT level specification, Functional View specification Operational View specification Device and component integration Application Development with Python	18.2.19 1.3.19	28.2.19 19.3.19	09 08		

Summary of Lession Plan

Name of Teacher: Mrs. Jadhav Jayshree M. **Class : M.Sc.C.S. S.Y.(IV Sem)** **Teaching Hours: 60**

Subject	Unit and Chapter to be covered	Date From	Date To	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
Big data Analytics P-BDA-426	**Unit –I: Introduction to Big Data Analytics** **Big Data Overview**, Data Structures, Analyst Perspective on Data Repositories, State of the Practice in Analytics, Bl Versus Data Science, Current Analytical Architecture, **Drivers of Big Data**, Emerging Big Data Ecosystem and a New Approach to Analytics, Key Roles for the New Big Data Ecosystem, Examples of Big Data Analytics **Unit –II: Data Analytics Lifecycle** Data Analytics Lifecycle Overview: Key Roles for a Successful Analytics ,Project Background and Overview of Data Analytics Lifecycle Phase 1: Discovery: Learning the Business Domain, Resources, Framing the Problem, Identifying Key Stakeholders, Interviewing the	29.11.18 11.12.18 21.12.18	10.12.18 20.12.18 8.1.19	9 07 09	Class room Seminars	Unit I & Unit II (Mini Task)

	Analytics Sponsor, Developing Initial Hypotheses , 1dentifying Potential Data Sources. Phase 2: Data Preparation: Preparing the Analytic Sandbox, Performing ETLT, Learning About the Data, Data Conditioning, Survey and Visualize, Common Tools for the Data PreparationPhase. Phase 3: Model Planning: Data Exploration and Variable Selection, Model Selection, Common Tools for the Model Planning Phase. Phase 4: Model Building: Common Tools for the Mode/Building Phase. Phase 5: Communicate Results. Phase 6: Operationalize. **Unit- III: Review of Basic Data Analytic Methods Using R** Introduction to R: Graphical User Interfaces, Data Import and Export, Attribute and Data Types, Descriptive Statistics, Exploratory Data Analysis, Visualization Before Analysis, Dirty Data, Visualizing a Single Variable, Examining Multiple Variables, Data Exploration Versus Presentation Statistical Methods for Evaluation: Hypothesis Testing, Difference of Means,Wilcoxon Rank-Sum Test, Type I and Type II Errors, Power and Sample Size, ANOVA. **Unit –IV: Advanced Analytical Theory and Methods: Clustering**	8.1.19 29.01.19 10.2.18	18.1.19 9.02.19 17.2.18	08 10 06		Unit III and Unit IV (Programming Assignments)

	Overview of Clustering ,K-means, Use Cases, Overview of the Method, Determining the Number of Clusters , Diagnostics , Contents , Reasons to Choose and Cautions.	18.2.19 1.3.19	28.2.19 19.3.19	09 08		
	Unit test 22-3-19 to 30-3-19					

Summary of Lession Plan

Name of Teacher: Mrs. Jadhav Jayshree M. **Class :** B.C.A. T.Y. [VI - Sem] **Teaching Hours: 50**

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	Oracle 10G DBA U-ORD-699	**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**	29-11-18	31-12-18	25	Class Seminars	Assignment on Server Architecture
2		**Chap 2. Tablespaces: Introduction to Tablespaces - Types of Tablespaces Working with Tablespaces - Creating Tablespaces, altering Tablespaces, modifying Tablespaces, Management of Tablespaces-**				Mini Task	Class test
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**	1-1-19	19-1-19	16	Seminars	Test
4		**Chap 4. RAC Database & Backup -**				Mini Task	Test

		data pump export/import process , Physical backup - Offline Online backup, Flash Recovery area					
5		**Unit-III RMAN & Database Tuning Chap 5. – RMAN Characterstics Of Recovery Manager**	23-1-19	28-2-19	20	Seminars	Assignments on Tunning Database
6		**Chap 6.- Database Tuning application design, effective table design, Distribution of CPU requirements, Effective application design, Tuning SQL,**				Seminars	
		Unit-IV Chap 6. Database Security and Auditing - Non database security, database authentication methods, database authentication, DBA authentication, user accounts, database authorization methods, auditing	1-3-19	18-3-19	15		Task on DB Security
		Unit test 22-3-19 to 30-3-19					

Co-Ordinator **Course Teacher**

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Department Of Computer Science & I.T.

Structured Work Plan for Teaching

(2 – July -2018 TO 3- Oct - 2018)

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

Sr. No.	Class	Name of Asst. Prof.	Subject	Course Title	Course Code	Practical paper code	Total Teaching Hours
1	M.Sc.C.S. F.Y. [I - Sem]	Mrs. Jadhav Jayshree M.	Computer Science	Data Mining	P-DAM-130 Total credit: 4	---	Th-60
2	M.Sc.C.S. S.Y. [III - Sem]			Linux Administration	P-LIA-329 Total credit: 4	LAB. COURSE - V P-LAC-332 Total credit: 4	Th-60 PR-15
3	B.C.A.T.Y.(V-sem)		Computer Application	Oracle 10G SQL&PL/SQL	U-ORA-598 Total credit: 3	U-LAC-602 Total credit: 2	Th-50 PR-15

Name of Teacher: Mrs. Jadhav Jayshree M. **Class : M.Sc.C.S. F.Y(I Sem)** **Teaching Hours: 60**

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 and date
1	**Data Mining P-DAM-130**	**Unit I: Introduction to Data Mining with related concepts:** -Basic Data Mining Tasks, Data Mining Issues. -Knowledge Discovery in Databases (KDD Process). -OLTP system, Information Retrieval system, Decision Support Systems, Multidimensional Schemas, OLAP, Web Search Engines.	11-7-18	31-7-18	20	Class room Seminars	Mini Task on Unit I
2		**Unit II: Data Mining Techniques: Classification** -Introduction to Data Mining Techniques. -A statistical Perspective on Data Mining, Decision Trees, Neural Networks. -Issues in Classification, Bayesian Classification, Distance Based	1-8-18	15-8-18	12		Mini Task on Unit II

		Algorithms, Decision Tree-Based Algorithm:CART,Neural Network-Based Algorithm:NN Supervised Learning.					
3		**Unit III: Clustering & Association Rules** -Introduction to Clustering, outliers, K-Means clustering, Nearest Neighbor Algorithm,BRICH algorithm. -Introduction to Association Rules, Large Itemsets, Basic Algorithms: Apriori Algorithm, Data Parallelism, Comparing Approaches.	16-8-18	27-8-18	10		Mini Task on Unit III
4		**Unit IV: APPLICATIONS AND TRENDS IN DATA MINING** Data Mining Applications, Data Mining System Products, Introduction to Web Mining.	1-9-18	16-9-18	15		Mini Task on Unit IV
5		**Unit Test 4-10-18 to 11-10-18**					

Name of Teacher: Mrs. Jadhav Jayshree M. **Class : M.Sc.C.S. F.Y (III Sem)** **Teaching Hours: 60**

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 and date
1	Linux Administration P-LIA-329	**UNIT I** **Introduction** to Linux and Linux Files and Directories , Linux File System -Boot block, Super block and Data blocks, how Unix/Linux kernel access files. The shell Scripts, Linux standard file system, Essential Linux commands: cat, less and more, Printing Files: lpr, lpq, and lprm Managing Directories: mkdir, rmdir, ls, cd, and pwd File and Directory Operations: find, cp, mv, rm,andln Archiving and compressing files Filters and pipes: head, tail, wc, pr, cut, paste, sort, uniqe, grep, egrep, fgrep, tee	2-7-18	25-7-18	15	Class room Seminars	Mini Task on Unit I
2		**UNIT II** Managing Users and File system :User Accounts, Managing Groups, Managing Users, Managing Passwords, Getting System Administrator Privileges to Regular	1-8-18	15-8-18	15		Mini Task on Unit II

		Users , Mounting File Systems automatically: /etc/fstab Mounting File Systems Manuallu: mount and unmount Converting an existing ext2 Filesystem to ext3 Creating a File systems: mkfs, mke2fs, mkswap, parted and fdisk, Relocating a File System					
3		**UNIT III** Backing Up, Recovery and Printing with Linux Choosing a Backup Strategy, Choosing a Backup Hardware and Media, Using Backup Software, Recovery Overview of Linux Printing, Configuring and Managing Print Services, Creating and Configuring Local Printers, Creating Network Printers, Console Print Control, Using the Common UNIX Printing System (CUPS) GUI	18-8-18	30-8-18	15		Mini Task on Unit III
4		**UNIT IV** Network Connectivity and Managing DNS Networking with TCP/IP , Network Organization, Hardware Devices for Networking , Using Network Configuration Tools , Dynamic Host Configuration Protocol , Using the Network File System, Putting Samba to work Managing DNS Configuring DNS, Essential DNS concept , Overview of DNS Tools, Configuring Name servers with BIND, providing DNS for Real Domain.	1-9-18	21-9-18	15		Mini Task on Unit IV
5		**Unit Test 4-10-18 to 11-10-18**					

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	Oracle 10G SQL&PL/SQL (U-ORA-598)	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	2-7-18	31-7-18	20		Practical Assignment
2		Chap 2. Grouping Data In SQL Oracle Views: Types, creating and managing views Group by and having clause				Quries Solving Task	Assignment on Views
3		Unit -II Chap 3. SQL Functions: Single Row Functions, Character Functions, Number Functions, Date Functions, Conversion Functions	1-8-18	14-8-18	12	Quries Solving Task	Assignment on joins

4		Chap 4. Joining Tables &Working with Sub queries Natural Join/Inner Join/Equijoin/outer join / selfjoin Subqueries: Single Row Sub query, Multiple RowSub					
5		Unit-III Chap 5. Security:Creating and Managing Users,System/Object Privileges Cre	16-8-18	10-9-18	20		Programming task
6		Chap 6. PL/SQL Overview PL/SQL block structure Condition logic Loops					Programming task
7		Unit-IV Chap 7 . Advance in PL/SQL Exception Handling in PL/SQL,cursor,triggers . PL/SQL Procedures and functions	11-9-18	21-9-18	15		
8		**Unit Test 4-10-18 to 11-10-18**					

Co-Ordinator **Course Teacher**