

 Xangdu _Songh Churthable Trust's (Rogd.)
 A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (East), Mumbai - 400 101.

 THACKDERENDE & TECHNOLOGY
 Tel: 6730 8000 / 8100 / 8



TCE	Г/FRM/IP-08/10							Revision: B	
		(Practical	Semester F / Tutorials	Plan / Assignme	nt)				
Seme	Semester: V Subject: Advanced Database Management System		Course: B.E.(IT) Class: T.E(IT) A			Batches-LAB : A2-206, B2-204, B3-207 Batch Size: 20			
Subje									
Labo Mrs. Mrs. Mrs.	ratory faculty in charge: Nishtha Mathur (204) Mary Margarat (206) Pranjali Kasture(207)						Lab. Assis Mr N	stant /Attendant: . Vinod Mourya Mr. Anil Taware	
Sr.	TITLES Experiments/Tutorials/ Assignments (Planning with use of Technology)	Planned Date			Completion Date Re			Remarks	
110.		A2	B2	B3	A2	B2	B3		
1	Problem Definition and draw ER/EER diagram.	26-7-17	28-7-17	24-7-17					
2	To study SQL: A) To study DDL, DML, DCL commands B) To study Order By, Group by, nested and recursive queries. C) To study SQL Joins.	2-08-17	4-8-17	31-8-17					
3	To study advanced SQL 1: A) To study Views, Constrains B) To study triggers and assertions C) To study SQL store procedures	9-08-17	11-8-17	7-8-17					
Desig	gn/ Development Experiments:								
4	To study advanced SQL 2: A) To study embedded SQL, dynamic SQL and SQLJ. B) Implementation of integration of an application with database using JDBC. C) Implementation of Language Integrated Query (LINQ).	16-8-17	18-8-17	14-8-17					
5	To implement Database Indexing and Hashing.	30-8-17	1-9-17	4-9-17					
6	Creating and querying an Object database using ODL and OOL.	6-9-17	8-9-17	11-9-17					
7	To Study Distributed Database: A) Implement Horizontal, Vertical and Hybrid fragmentation on Database B) To study Query Processing and Optimization in Distributed Databases.	13-9-17	15-9-17	18-9-17					



Xingdia_Single Charittable Trust's (Regil.) A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Xandivali (East), Mumbai - 400 101. THAKUR CODE FOR ENCIDE Cont. of Maharashtra & Affiliated to University of Mumbai*) Tel:: 6730 8000 / 8100 / 8107 Fax: 2846 1890 (Accredited Programmes by National Board of Accreditation, New Delhi**) Tel:: cr30 8000 / 8100 / 8107 Fax: 2846 1890 **Permaent Affiliated to Programmes: - Computer Engineering - Electronics & Telecommunication Engineering - Information Technology (wcf: AX:2015-16 onwards) **1st time Accredited UG Programmes: - Computer Engineering - Electronics & Telecommunication Engineering - Information Technology 4 **2nd time Accredited UG Programmes: - Computer Engineering - Electronics & Telecommunication Engineering - Information Technology - Information Technology - Sectorics & Telecommunication Engineering - Information Technology - Sectorics Engineering - Sectorics Engineering - Information Technology - Sectorics Engineering - Sectorics - Sectorics - Sectorics -



8	To Study database security techniques – SQL injection, inference attacks etc.	20-9-17	15-9-17	18-9-17						
9	 A. Problem Definition for a Data Warehouse, Construction of Star Schema Model. B. Creation of a DW and running OLAP operations on them (Roll up, Drill down, Slice, Dice, pivot) 	4-10-17	22-9-17	25-9-17						
Grou	Group Learning Activity:									
10	 A) To Study ETL process. B) To Perform Data Loading, Cleansing and retrieval using Python and MySQL. 	4-10-17	22-9-17	25-9-17						
11	A) To Study Open SourceDatabases.B) To Study NoSQL.	11-10-17	13-10-17	16-10-17						
12	Mini Project (Mini project based on entire curriculum of ADBMS)	11-10-17	13-10-17	16-10-17						
1										

Bridge courses Objective: Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field. (30 Hrs / Semester / student)

Sr. No.	Bridge courses/Technology	Duration (Week/hrs)	Modes of Learning	Recommended Sources		
1.	Prerequisite course: Database Management Systems	2 Weeks / 3 Hrs	Self-Learning/ Revision	Korth, Slberchatz, Sudarshan, "Database System Concepts", 6 th Edition, McGraw – Hill		
2	Advanced course: Database Application development using open source database.	06 Weeks / 2 Hrs	Technology Based learning	 <u>http://blog.capterra.com/free-database-software/</u> <u>http://opensourceforu.com/2015/0</u> <u>1/developing-applications-using-nosql-databases/</u> <u>https://www.mongodb.com/scale/open-source-software-development</u> <u>https://www.osalt.com/databases</u> <u>https://www.mysql.com/</u> 		



Zagda Singh Charitable Thust's (Alogel.) A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (East), Mumbai - 400 101. THAKUR COLLEGE OF ENGUNEERING & TECHNOLOGY Tel:: 6730 8000 / 8100 / 8107 Fax: 2846 1890 (Approved by AICTE, Govt. of Maharahtra & Affiliated to University of Mumbai*) Tel:: 6730 8000 / 8100 / 8107 Fax: 2846 1890 *Arcredited Programmes by National Board of Accreditation, New Delhi**) Tel:: 6730 8000 / 8101 / 8100 **Permaent Affiliated UG Programmes: Computer Engineering * Electronics & Telecommunication Engineering * Information Technology (wcf: AY.2015-16 onwards) **1t time Accredited UG Programmes: Computer Engineering * Electronics & Telecommunication Engineering * Information Technology & Electronics Engineering * Information Technology * Electronics Engineering * Information Technology *



Mini /Minor Projects Objective: To get hands on experience to execute projects with respect to student choice in the following areas. (30 Hrs / Semester / Student). (Total 120 Hrs) The areas are :

1. Research 2. Core 3. Interdisciplinary 4. Application Minor project : As per University Scheme

Sr. No	Project Title/Group Size		Cl	ass	Type / Project Hours	Modes of Learning	of Reference	
07	 Implem Databa ER dia Schem Schem Implem wareho and ET Open S Databa develo source Group Per Group 	nentation of use design with gram, Star a, Snowflake a and Fact Table. nentation data ousing operations 'L operation's for Source Databases. use Application pment using open database. Size- 2 Students oup	TE IT A, B		Application / 120 Hrs	Project Based Learning	 http://searchsqlserver.tec htarget.com/definition/da tabase-management- system http://datawarehouse4u.i nfo/ETL-process.html https://www.osalt.com/da tabases http://www.dbta.com/Col umns/DBA-Corner/The- DBAs-Guide-to- Application- Development- 92526.aspx 	
	Planned	Completed		Planned	Completed		Planned	Completed
No. of Prac.	Basic Exp: 3 Design based: 6 Group Learning:3 Bridge Course: 2 Minor Project: 3		No. of Assign.	03		No. of Tutorial		
DOSLNE:			DOSLE (engaged in some other dates):					



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Group activities are required to be added with the practical related to course to enhance the learning activity of the student in the course. Group activity includes: Group presentation, new experiment design, mini projects etc.

Note:

1. The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.

2. Learning objective and outcome shall be clearly stated with each of experiments/ tutorials/ assignments and are required to be mapped at the end of the semester.

3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

Mrs. Radhika Kotecha Name & Signature of Faculty Dr. Rajesh Bansode Signature of HOD

Signature of Principal / Dean(Academics)

Date:

Date:

Date: