Lakireddy Bali Reddy College of Engineering
(Autonomous)
Affiliated to JNTUK, Kakinada & Approved by AICTE,New Delhi
NAAC Accredited with "A" grade, Certified by ISO 9001:2008
DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE HANDOUT

PROGRAM : B.Tech., IV-Sem., IT

ACADEMIC YEAR : 2017-18

COURSE NAME & CODE : DATABASE MANAGEMENT SYSTEMS &S180

L-T-P STRUCTURE : 3-1-2

COURSE CREDITS : 3

COURSE INSTRUCTOR : **Dr. D.Naga Raju**

COURSE COORDINATOR : **Dr. D.Naga Raju**

PRE-REQUISITE: Elementary set theory, concepts of relations and functions, propositional logic data structures (trees, Graphs, dictionaries) & File Concepts.

COURSE OBJECTIVE:

This course enables the students to know about

- ✓ DBMS basic concepts, Database Languages.
- ✓ Data base Design.
- ✓ Normalization process and Transaction processing.
- ✓ Indexing.

COURSE OUTCOMES (CO)

CO1: Understand DBMS concepts, architecture & Data model.
CO2: Apply the concepts of relational algebra, calculus, and also SQL.
CO3: Apply the normalization process for data base design.
CO4: Understand the issues in transaction processing and Analyze different Concurrency and recovery strategies of DBMS
CO5: Analyze different file organization techniques & Indexing Techniques.

COURSE ARTICULATION MATRIX (Correlation between COs&POs,PSOs):

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	1	1	2	-	-	-	-	-	-	-	-	-	-	3	-
CO2	3	3	-	-	1	-	-	-	-	-	-	-	2	3	-
CO3	3	2	-	-	-	-	-	-	-	-	-	-	2	3	-
CO4	2	1	2	-	-	-	-	-	-	-	-	-	1	3	-
CO5	2	1	2	-	-	-	-	-	-	-	-	-	1	3	-

Note: Enter Correlation Levels **1** or **2** or **3.** If there is no correlation, **put '-'**
1- Slight (Low), **2 -** Moderate (Medium), **3 -** Substantial (High).

BOS APPROVED TEXT BOOKS:

T1 "Database Concepts", Korth, Silbertz, Sudarshan, McGraw Hill.

T2 "Fundamentals Of Database Systems", Elmasri, Navathe, Addision Wesley.

BOS APPROVED REFERENCE BOOKS:

R1 "Database Management System", Raghu Ramakrishna, McGraw Hill

R2 "DBMS: Complete Practical Approach", Maheshwari Jain, Firewall Media, New Delhi.

R3 "An Introduction to Database System", Date C J, Addision Wesley.

COURSE DELIVERY PLAN (LESSON PLAN):

UNIT –I: Introduction & Data modeling using the Entity Relationship Model

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Introduction, An overview of database management system	1	28-11-17		**TLM1**	CO1	T1,T2,R1	
2.	Database system Vs file system	1	29-11-17		**TLM1**	CO1	T1,T2,R1	
3.	Database system concepts and architecture	1	30-11-17		**TLM1**	CO1	T1,T2,R1	
4.	Data models schema and instances	1	01-12-17		**TLM1**	CO1	T1,T2,R1	
5.	Data independence and data base language and interfaces	1	05-12-17		**TLM1**	CO1	T1,T2,R1	
6.	Data definitions language, DML, Overall Database Structure	1	06-12-17		**TLM1**	CO1	T1,T2,R1	
7.	ER model concepts-notation for ER diagram	1	07-12-17		**TLM1**	CO1	T1,T2,R1	
8.	Mapping constraints, keys	1	08-12-17		**TLM1**	CO1	T1,T2,R1	
9.	Concepts of Super Key, candidate key, primary key	1	12-12-17		**TLM1**	CO1	T1,T2,R1	
10.	Generalization, aggregation	1	13-12-17		**TLM1**	CO1	T1,T2,R1	
11.	Reduction of an ER diagrams to tables, Extended ER model	1	14-12-17		**TLM1**	CO1	T1,T2,R1	
12.	Relationships of higher degree	1	15-12-17		**TLM1**	CO1	T1,T2,R1	
13.	Tutorial – I	1	19-12-17		**TLM1**	CO1	T1,T2,R1	
No. of classes required to complete UNIT-I		13			No. of classes taken:			

UNIT –II: Relational data Model and Language & Introduction to SQL

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
14.	Relational data model concepts	1	20-12-17		**TLM1**	CO2	T1,T2,R1	
15.	Integrity constraints: entity integrity, referential integrity	1	21-12-17		**TLM1**	CO2	T1,T2,R1	
16.	Keys constraints, Domain constraints	1	22-12-17		**TLM1**	CO2	T1,T2,R1	
17.	Relational algebra	1	26-12-17		**TLM1**	CO2	T1,T2,R1	
18.	Characteristics of SQL, Advantage of SQL	1	27-12-17		**TLM1**	CO2	T1,T2,R1	
19.	SQL data types and literals, Types of SQL commands	1	28-12-17		**TLM1**	CO2	T1,T2,R1	
20.	SQL operators and their procedure	1	29-12-18		**TLM1**	CO2	T1,T2,R1	
21.	Tables, views and indexes,	1	02-1-18		**TLM1**	CO2	T1,T2,R1	
22.	Queries and sub queries, Aggregate functions	1	03-1-18		**TLM1**	CO2	T1,T2,R1	
23.	Insert, update and delete operations	1	04-1-18		**TLM1**	CO2	T1,T2,R1	
24.	Unions, Intersection, Minus, Cursors in SQL	1	05-1-18		**TLM1**	CO2	T1,T2,R1	
25.	Tutorial – II	1	09-1-18		**TLM1**	CO2	T1,T2,R1	
No. of classes required to complete **UNIT-2**		12			No. of classes taken:			

UNIT –III: Normalization

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
26.	Functional Dependencies	1	10-01-18		**TLM1**	CO3	T1,T2,R1	
27.	Normal Forms: First, Second	1	11-01-18		**TLM1**	CO3	T1,T2,R1	
28.	Third Normal Forms	1	12-01-18		**TLM1**	CO3	T1,T2,R1	
29.	BCNF, Inclusion Dependences	1	17-01-18		**TLM1**	CO3	T1,T2,R1	
30.	Loss Less Join Decompositions	1	18-01-18		**TLM1**	CO3	T1,T2,R1	
31.	Tutorial – III	1	19-01-18		**TLM3**			
32.	Normalization Using FD,MVD	1	23-01-18		**TLM1**	CO3	T1,T2,R1	
33.	Normalization Using JD	1	24-01-18		**TLM1**	CO3	T1,T2,R1	
34.	Alternative Approaches To Database Design	1	25-01-18		**TLM1**	CO3	T1,T2,R1	
35.	Tutorial – IV	1	01-02-18		**TLM3**			

No. of classes required to complete **UNIT-3**	10			No. of classes taken:

UNIT –IV: Transaction Processing Concepts & Concurrency Control techniques

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
36.	Transaction System	1	02-02-18		**TLM1**	CO4	T1,T2,R1	
37.	Testing Of Serializability	1	06-02-18		**TLM1**	CO4	T1,T2,R1	
38.	Serializability Of Schedules	1	07-02-18		**TLM1**	CO4	T1,T2,R1	
39.	Conflict & View Serializable Schedule	1	08-02-18		**TLM1**	CO4	T1,T2,R1	
40.	Recoverability, Log Based Recovery, Checkpoints,	1	09-02-18		**TLM1**	CO4	T1,T2,R1	
41.	ARIES Algorithm, Deadlock Handling	1	14-02-18		**TLM1**	CO4	T1,T2,R1	
42.	Tutorial –V	1	15-02-18		**TLM3**			
43.	Concurrency Control	1	16-02-18		**TLM1**	CO4	T1,T2,R1	
44.	Techniques For Concurrency Control	1	20-02-18		**TLM1**	CO4	T1,T2,R1	
45.	Time Stamping Protocols For Concurrency Control	1	21-02-18		**TLM1**	CO4	T1,T2,R1	
46.	Locking, Validation Based Protocol	1	22-02-18		**TLM1**	CO4	T1,T2,R1	
47.	Multiple Granularity	1	23-02-18		**TLM1**	CO4	T1,T2,R1	
48.	Recovery With Concurrent Transactions	1	27-02-18		**TLM1**	CO4	T1,T2,R1	
No. of classes required to complete **UNIT-4**		13			No. of classes taken:			

UNIT-V: Storage and Indexing

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
49.	RAID Levels	1	28-03-18		**TLM1**	CO5	T1,T2,R1	
50.	RAID Levels	1	01-03-18		**TLM1**	CO5	T1,T2,R1	
51.	Page Formats	1	06-03-18		**TLM1**	CO5	T1,T2,R1	
52.	Record Formats	1	07-03-18		**TLM1**	CO5	T1,T2,R1	
53.	File Types And Organization	1	08-03-18		**TLM1**	CO5	T1,T2,R1	
54.	File Types And Organization	1	09-03-18		**TLM1**	CO5	T1,T2,R1	

55.	ISAM	1	13-03-18		**TLM1**	CO5	T1,T2,R1	
56.	B-Tree	1	14-03-218		**TLM1**	CO5	T1,T2,R1	
57.	B+-Tree, B+-Tree.	1	15-03-214		**TLM1**	CO5	T1,T2,R1	
58.	Tutorial – VI	1	16-03-18		**TLM3**			
No. of classes required to complete **UNIT-5**		10			No. of classes taken:			

Contents beyond the Syllabus

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
59.	CODD RULES	2			**TLM1**	CO1-CO5	T1,T2,R1	

Teaching Learning Methods					
TLM1	Chalk and Talk	TLM4	Problem Solving	TLM7	Seminars or GD
TLM2	PPT	TLM5	Programming	TLM8	Lab Demo
TLM3	Tutorial	TLM6	Assignment or Quiz	TLM9	Case Study

ACADEMIC CALENDAR:

Description	From	To	Weeks
I Phase of Instructions	27/11/2017	13/01/2017	7W
Sankranthi Holidays	14/01/2018	16/01/2018	1/2W
I Mid Examinations	17/01/2018	20/01/2018	½ W
II Phase of Instructions	22/01/2018	24/03/2018	9W
II Mid Examinations	26/03/2018	31/03/2018	1W
Preparation and Practicals	02/04/2018	14/04/2018	2W
Semester End Examinations	16/04/218	24/08/2018	2W

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5
Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5
Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: A=(A1+A2+A3+A4+A5)/5	1,2,3,4,5	A=5
Evaluation of Mid Marks: B=75% of Max(B1,B2)+25% of Min(B1,B2)	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	1,2,3,4,5	A+B=25
Semester End Examinations	1,2,3,4,5	C=75
Total Marks: A+B+C	1,2,3,4,5	100

Course Instructor **Course Coordinator** **Module Coordinator** **HOD**

LESSON PLAN

Course Code : S312 **Course Name: Microprocessors and Interfacing**

Programme: B.Tech IV Sem **Department:** IT

No	Tentative Date	Topics to be covered	No of classes	Content Delivery Method	Actual Date	Remarks /sign
		Unit-I				
1	27-11-2017	Introduction to Microprocessors- Purpose of Microprocessors, Different types of Microprocessors, their features and their comparison	1			
2	29-11-2017	Special functions of General purpose registers, 8086 flag register and function of 8086 Flags	1			
3	30-11-2017	**Tutorial-I**	1			
4	04-12-2017	8086 Microprocessor-Architecture	1			
5	06-12-2017	Addressing Modes of 8086	1			
6	07-12-2017	Instruction set of 8086	5			
7	15-12-2017	**Tutorial-II**	1			
		UNIT-II				
8	18-12-2017	Assembler Directives	1			
9	20-12-2017	Programs using Logical instructions	1			
10	21-12-2017	**Tutorial III**	1			
11	22-12-2017	Programs using String instructions	1			
12	27-12-2017	Programs using branch instructions	1			
13	28-12-2017	Sorting of numbers	1			
14	29-12-2017	**Tutorial IV**	1			
15	03-01-2018	Procedures and Macros	1			
16	04-01-2018	Programs using CALL instructions	1			
17	05-01-2018	Programs to evaluate arithmetic expressions	1			
18	08-01-2018	Pin Description of 8086	1			
19	10-01-2018	Max. Mode operation of 8086	1			
20	11-01-2018	Min mode operation of 8086	1			
21	12-01-2018	**Tutorial V**	1			
		UNIT-III				
22	22-01-2018	Machine cycles, T- States	1			
23	24-01-2018	Bus Cycle operation	1			
24	25-01-2018	Timing diagrams for read operation	1			
25	29-01-2018	Timing diagrams for write operation	1			
26	31-01-2018	Memory interfacing	1			
27	01-02-2018	I/O Interfacing	1			
28	02-02-2018	**Tutorial-VI**	1			
29	05-02-2018	Need for DMA,DMA data transfer Method	1			

30	07-02-2018	Interfacing with 8237/8257-Pin description of 8257	1			
31	08-02-2018	Programs on DMA Data transfer	1			
32	09-02-2018	**Tutorial-VII**	1			
UNIT-IV						
33	12-02-2018	8255 PPI	1			
34	14-02-2018	Various modes of operation.	1			
35	15-02-2018	Interfacing to 8086 Keyboard	1			
36	16-02-2018	**Tutorial-VIII**	1			
37	19-02-2018	Seven segment Displays	1			
38	21-02-2018	Stepper Motor	1			
39	22-02-2018	D/A converter interfacing	1			
40	23-02-2018	A/D converter interfacing	1			
41	26-02-2018	**Tutorial-IX**	1			
UNIT-V						
42	28-02-2018	Serial data transfer schemes, RS 232C	1			
43	01-03-2018	8251 USART architecture and pin description , USART interfacing with 8086	1			
44	05-03-2018	**Tutorial-X**	1			
45	07-03-2018	Interrupts: Interrupt structure of 8086, Interrupt Vector table;	2			
46	09-03-2018	Interrupt service routines	2			
47	14-03-2018	**Tutorial-XI**	1			
48	15-03-2018	Introduction to DOS, BIOS interrupts	2			
49	19-03-2018	8259 PIC Architecture and Pin Description	3			
50	23-03-2018	Interfacing 8259 with 8086, Cascading of interrupt controller and its importance	2			
51	28-03-2018	Introduction to microcontrollers	1			
52	29-03-2018	**Tutorial-XII**	1			

Total	
Total number of classes required to complete the syllabus	**62**
Total number of classes available as per Schedule	**62**

NOTE: DELIVERY METHODS : **DM1**: Lecture interspersed with discussions/DM 1, **DM2:** Tutorial, **DM3:** Lecture with a quiz, **DM4**: Assignment/Test, **DM5**: Demonstration (laboratory, field visit), **DM6:** Presentations/PPT

At the End of the course, students attained the **Course Outcomes:CO1,CO2,CO3,CO4,CO5**& sample proofs are enclosed in Course file.

Signature			
	Name of the Faculty K.V.Ashok	**Name of Course Coordinator Mr.B.V.N.R.Siva Kumar**	**HOD**

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L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

Department of Information Technology

COURSE HANDOUT

PROGRAM : B.Tech., IV-Sem., IT

ACADEMIC YEAR : 2017-18

COURSE NAME & CODE : **Managerial Economics and Financial Analysis**-S295

L-T-P STRUCTURE : 3-1-0

COURSE CREDITS : 3

COURSE INSTRUCTOR : **B.Kalyan Kumar**

COURSE COORDINATOR : **U.Ramababu**

PRE-REQUISITE: Economics and financial accounting

COURSE OBJECTIVE :

1. To know the concepts of economics and to make them effective business Decision makers.
2. To understand the concepts of production and cost for various business Decision.
3. To understand the different types of market, market structures & pricing Strategies which help to decision making.
4. To make students understand the various types of business organizations.
5. To understand the Fundamental of accounting and to explain the process Of preparing accounting Statements & analysis for effective business Decision.

COURSE OUTCOMES(CO)

CO1: Capable of analyzing fundamentals of economics concepts which helps In effective business administration.
CO2: Cost –out put relations understand.
CO3: Crate awareness on market structures and pricing policies of various Business.
CO4: Identify the types of Business organization of the company and the Implementation requirements of each one.
CO5: Financial position of the company can be analyzing with the help of Financial statements.

COURSE ARTICULATION MATRIX (Correlation between COs&POs,PSOs):

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	3							3	3	1	2	1			
CO2		3	-					-	2		2	1			
CO3					3		3		2		2	1			
CO4					3				2		2	1			
CO5					2		3	3	2		2	1			

Note: Enter Correlation Levels **1** or **2** or **3.** If there is no correlation, **put '-'**
1- Slight(Low), **2 -** Moderate(Medium), **3 -** Substantial (High)

BOS APPROVED TEXT BOOKS:

T1 Arysari: Managerial Economics and Financial Analysis, 2/e, TMH, 2005

BOS APPROVED REFERENCE BOOKS:

R1 Varsheny & Maheswari: Managerial Economics, Sultan Chand, 2003

R2 Ambrish Gupta, Financial Accounting for Management, Pearson Education, New Delhi.

R3 Lipey & Chrystel, Economics, Oxford university press.

R4 Domnick Salvatore, Manageraial Economics in a Global Economy, 4th Edition, Thomson.

COURSE DELIVERY PLAN (LESSON PLAN): IT

UNIT-I : Introduction to Managerial Economics

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Syllabus discussion	1	27/11/17		**TLM-1**			
2.	Meaning , definitions	1	29/11/17		**TLM-1**			
3.	Micro, Macro economics	1	30/11/17		**TLM-1**			
4.	Nature	1	02/12/17		**TLM-1**			
5.	Scope	1	04/12/17		**TLM-1**			
6.	Limitations	1	06/12/17		**TLM-1**			
7.	Demand analysis	1	08/12/17		**TLM-1**			
8.	Demand determinants	1	09/12/17		**TLM-1**			
9.	Law of demand	1	11/12/17		**TLM-1**			
10.	Exceptions	1	13/12/17		**TLM-1**			
11.	Types of demand	1	15/12/17		**TLM-1**			
12.	Elasticity of demand	1	16/12/17		**TLM-1**			
13.	Demand forecasting	1	18/12/17		**TLM-1**			
14.	Methods of forecasting	1	20/12/17		**TLM-1**			
15.	**Tutorial-1**	1	22/12/17		**TLM-3**			
16.	**Quiz**	1	23/12/17		**TLM-6**			
No. of classes required to complete UNIT-I		16			No. of classes taken:			

UNIT-II : Theory of Production and Cost Analysis

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
17.	Production function	1	27/12/17		**TLM-1**			
18.	Isoquants, Isocosts, MRTS	1	29/12/17		**TLM-2**			
19.	Least cost combination	1	30/12/17		**TLM-2**			
20.	Laws of returns	1	03/01/18		**TLM-1**			
21.	Cost analysis	1	05/01/18		**TLM-1**			
22.	Cost & output relationship	1	06/01/18		**TLM-1**			
23.	Break-even analysis	1	08/01/18		**TLM-1**			
24.	Determination of BEP	1	10/01/18		**TLM-1**			
25.	Significance	1	12/01/18		**TLM-1**			
26.	Simple problems	1	13/01/18		**TLM-1**			
27.	**Quiz**	1	15/01/18		**TLM-6**			
28.	**Tutorial-2**	1	17/01/18		**TLM-3**			
No. of classes required to complete UNIT-II		11			No. of classes taken:			

UNIT-III : Introduction to Markets & Pricing Policies

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
29.	Types of competitions	1	19/01/18		**TLM-1**			
30.	MID-I							
31.	Features, perfect, monopoly	1	20/01/18		**TLM-1**			
32.	Monopolistic, oligopoly	1	22/01/18		**TLM-1**			
33.	Price-out determination	1	24/01/18		**TLM-1**			
34.	Price-out monopoly	1	26/01/18		**TLM-1**			
35.	Price-out monopolistic	1	27/01/18		**TLM-1**			
36.	Objectives	1	29/01/18		**TLM-1**			
37.	Policies of pricing	1	31/01/18		**TLM-1**			
38.	Methods of pricing	1	02/02/18		**TLM-1**			
39.	Methods of pricing	1	05/02/18		**TLM-1**			
40.	**Quiz**	1	07/02/18		**TLM-6**			
41.	**Tutorial -3**	1	09/02/18		**TLM-3**			
No. of classes required to complete UNIT-III		12			No. of classes taken:			

UNIT-IV: Capital and Capital Budgeting

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
42.	Capital , significance	1	10/02/18		**TLM-1**			
43.	Types of capital	1	12/02/18		**TLM-1**			
44.	Working capital requirements	1	14/02/18		**TLM-4**			
45.	Components of WC	1	16/02/18		**TLM-4**			
46.	Factors determining WC	1	17/02/18		**TLM-4**			
47.	Methods of raising funds	1	19/02/18		**TLM-4**			
48.	Scope of capital budgeting	1	21/02/18		**TLM-4**			
49.	Techniques of CB	1	23/02/18		**TLM-1**			
50.	Payback, ARR	1	24/02/18		**TLM-4**			
51.	IRR NPV	1	26/02/18		**TLM-4**			
52.	PI		28/03/18		**TLM-4**			
53.	**Tutorial-4**		02/03/18		**TLM-3**			
No. of classes required to complete UNIT-IV		12			No. of classes taken:			

UNIT-V: Introductin to Financial Accounting

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
54.	Double entry	2	03/03/18		**TLM-1**			
55.	Book keeping	1	05/03/18		**TLM-1**			
56.	Journal	1	07/03/18		**TLM-4**			
57.	Ledger	1	09/03/18		**TLM-4**			
58.	Trial balance	1	10/03/18		**TLM-4**			
59.	Final accounts	1	12/03/18		**TLM-4**			
60.	Ratio analysis	1	14/03/18		**TLM-4**			
61.	Liquidity ratio	1	16/03/18		**TLM-4**			
62.	Activity ratios	1	17/03/18		**TLM-4**			
63.	Capital , profitability ratios	1	19/03/18		**TLM-4**			
64.	**Tutorial -5**		21/03/18		**TLM-3**			
65.	MID-II							
No. of classes required to complete UNIT-V		13			No. of classes taken:			

Contents beyond the Syllabus

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
66.	Global market	1	08/02/18		**TLM-1**	C03	Internet	
67.	stock market	1	02/03/18		**TLM-1**	C04	e-journal	

Teaching Learning Methods					
TLM1	Chalk and Talk	**TLM4**	Problem Solving	**TLM7**	Seminars or GD
TLM2	PPT	**TLM5**	Programming	**TLM8**	Lab Demo
TLM3	Tutorial	**TLM6**	Assignment or Quiz	**TLM9**	Case Study

ACADEMIC CALENDAR:

Description	From	To	Weeks
I Phase of Instructions-1	27-11-17	13-01-18	7W
Sankranthi Holidays	14-01-18	15-01-18	-
I Mid Examinations	16-01-18	20-01-18	1W
II Phase of Instructions	22-01-18	24-03-18	9W
II Mid Examinations	26-03-18	31-03-18	1W
Preparation and Practicals	02-04-18	14-04-18	2W
Semester End Examinations	16-04-18	28-04-18	2W

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5
Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5
Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: A=(A1+A2+A3+A4+A5)/5	1,2,3,4,5	A=5
Evaluation of Mid Marks: B=75% of Max(B1,B2)+25% of Min(B1,B2)	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	**1,2,3,4,5**	**A+B=25**
Semester End Examinations	**1,2,3,4,5**	**C=75**
Total Marks: A+B+C	**1,2,3,4,5**	**100**

Course Instructor **Course Coordinator** **Module Coordinator** **HOD**

LAKKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

(Autonomous & Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi, NAAC Accredited with 'A' grade, Certified by ISO 9001:2015)

L B Reddy Nagar, Mylavaram-521 230, Krishna District, Andhra Pradesh.

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE HANDOUT

PROGRAM : B.Tech., IV-Sem., IT

ACADEMIC YEAR : 2017-18

COURSE NAME & CODE : Computer Organization - S169

L-T-P STRUCTURE : 3-1-0

COURSE CREDITS : 3

COURSE INSTRUCTOR : T. Suresh, Assistant Professor

COURSE COORDINATOR :

PRE-REQUISITE: Electronics Devices and Circuits, Digital Logic Design

COURSE OBJECTIVE:

Students will be able to make use of the binary number system to translate values to perform basic arithmetic operations and to construct machine code instructions. To design logical expressions and corresponding integrated logic circuits. To explore the pipeline concepts.

COURSE OUTCOMES (CO):

CO1: Identify the CPU micro-operations and instruction set of a digital computer.

CO2: Design of a control unit using micro=programmed control and hardwired control approaches and explore the basic concepts of CPU including STACK, Instruction formats and addressing modes.

CO3: Analyze parallel processing using pipelining and vector processing techniques and perform arithmetic operations on fixed and floating point numbers.

CO4: Analyze the memory hierarchy system.

CO5: Analyze the communication methods of I/O devices and standard I/O interfaces.

COURSE ARTICULATION MATRIX (Correlation between COs&POs,PSOs):

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	1		2										1	2	
CO2			2										1	2	
CO3	2		2										1	2	
CO4			2										2		
CO5			2										2		

Note: Enter Correlation Levels **1** or **2** or **3.** If there is no correlation, **put '-'**
1- Slight(Low), **2 -** Moderate(Medium), **3 -** Substantial (High).

BOS APPROVED TEXT BOOKS:

T1 M. Morris Mano, "Computer Systems Architecture", Pearson Education Publishers.

BOS APPROVED REFERENCE BOOKS:

R1 W. Stallings, "computer Organization and Architecture- Designing for Performance", Prentice Hall of India, 2002.

R2 D.A. Patterson and J.L. Hennessy, "computer Organization and Design- The Hardware / Software Interface", Morgan Kaufmann ,1998.

R3 JP. Hayes, "computer Architecture and Organization", McGraw - Hill ,1998

COURSE DELIVERY PLAN (LESSON PLAN):

UNIT-I : Register Transfer and Micro Operations:

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Introduction	2	28-11-2017		**TLM1/2**	CO1	**T1**	
2.	Register Transfer language	1	29-11-2017		**TLM1/2**	CO1	**T1**	
3.	Register transfer bus and memory transfers	1	01-12-2017		**TLM1/2**	CO1	**T1**	
4.	Arithmetic Micro operations,	1	05-12-2017		**TLM1/2**	CO1	**T1**	
5.	Logic micro operations	1	06-12-2017		**TLM1/2**	CO1	**T1**	
6.	Shift micro operations	1	08-12-2017		**TLM1/2**	CO1	**T1**	
7.	Arithmetic logic shift unit	1	09-12-2017		**TLM1/2**	CO1	**T1**	
8.	Tutorial – 1	1	12-12-2017		**TLM3**	CO1	**T1**	
9.	Instruction codes	1	13-12-2017		**TLM1/2**	CO1	**T1**	
10.	Computer Registers	1	15-12-2017		**TLM1/2**	CO1	**T1**	
11.	Computer instructions	1	16-12-2017		**TLM1/2**	CO1	**T1**	
12.	Instruction cycle	1	19-12-2017		**TLM1/2**	CO1	**T1**	
13.	Memory – Reference Instructions	1	20-12-2017		**TLM1/2**	CO1	**T1**	
14.	Input – Output and Interrupt	1	22-12-2017		**TLM1/2**	CO1	**T1**	
15.	Tutorial - 2	1	23-12-2017		**TLM3**	CO1	**T1**	
16.	Assignment/Quiz-1	1	26-12-2017		**TLM1/2**	CO1	**R1**	
No. of classes required to complete UNIT-I		17			No. of classes taken:			

UNIT-II : Micro Programmed Control:

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
17.	Control memory, Address sequencing	1	27-12-2017		**TLM1/2**	CO2	**T1**	
18.	Micro program example	1	29-12-2017		**TLM1/2**	CO2	**T1**	
19.	Design of control unit Hard wired control	2	30-12-2017		**TLM1/2**	CO2	**T1**	
20.	Micro programmed control	1	02-01-2018		**TLM1/2**	CO2	**T1**	
21.	Tutorial- 3	1	03-01-2018		**TLM3**	CO2	**T1**	
22.	**Central Processing Unit:** STACK organization.	1	03-01-2018		**TLM1/2**	CO2	**T1**	
23.	Program control	1	05-01-2018		**TLM1/2**	CO2	**T1**	
24.	Instruction formats	1	06-01-2018		**TLM1/2**	CO2	**T1**	
25.	Addressing modes	1	09-01-2018		**TLM1/2**	CO2	**T1**	

26.	Data Transfer	1	10-01-2018		**TLM1/2**	CO2	**T1**	
27.	Data Manipulation	1	10-01-2018		**TLM1/2**	CO2	**T1**	
28.	Reduced Instruction set computer	1	12-01-2018		**TLM1/2**	CO2	**T1**	
29.	Differences between RISC and CISC	1	12-01-2018		**TLM1/2**	CO2	**T1**	
30.	Tutorial - 4	1	13-01-2018		**TLM3**	CO2	**T1**	
31.	Assignment/Quiz-2	1	13-01-2018		**TLM1/2**	CO2	**R2**	
No. of classes required to complete UNIT-II		17			No. of classes taken:			

UNIT-III : Pipelining and Vector Processing:

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
32.	Introduction, Parallel processing	1	23-01-2018		**TLM1/2**	CO3	**T1**	
33.	Pipelining, Arithmetic Pipeline	1	24-01-2018		**TLM1/2**	CO3	**T1**	
34.	RISC pipeline	1	27-01-2018		**TLM1/2**	CO3	**T1**	
35.	Instruction Pipeline	1	27-01-2018		**TLM1/2**	CO3	**T1**	
36.	Vector Processing	1	30-01-2018		**TLM1/2**	CO3	**T1**	
37.	Tutorial-5	1	31-01-2018		**TLM3**	CO3	**T1**	
38.	Data Representation, Fixed Point	1	02-02-2018		**TLM1/2**	CO3	**T1**	
39.	Floating Point Representation	1	03-02-2018		**TLM1/2**	CO3	**T1**	
40.	Addition, subtraction and multiplication Algorithms	1	06-02-2018		**TLM1/2**	CO3	**T1**	
41.	Tutorial-6	1	07-02-2018		**TLM3**	CO3	**T1**	
42.	Division Algorithms	1	09-02-2018		**TLM1/2**	CO3	**T1**	
43.	Floating – point Arithmetic operations	1	10-02-2018		**TLM1/2**	CO3	**T1**	
44.	Decimal Arithmetic unit, Decimal Arithmetic operations	1	14-02-2018		**TLM1/2**	CO3	**T1**	
45.	Assignment/Quiz-3	1	16-02-2018		**TLM3**	CO3	**R1**	
No. of classes required to complete UNIT-III		13			No. of classes taken:			

UNIT-IV : Memory Organization:

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
46.	Memory Hierarchy	1	17-02-2018		**TLM1/2**	CO4	**T1**	
47.	Main memory	1	20-02-2018		**TLM1/2**	CO4	**T1**	
48.	Auxiliary memory	1	21-02-2018		**TLM1/2**	CO4	**T1**	
49.	Associative memory	1	23-02-2018		**TLM1/2**	CO4	**T1**	
50.	Tutorial-7	1	24-02-2018		**TLM3**	CO4	**T1**	
51.	Cache memory	1	27-02-2018		**TLM1/2**	CO4	**T1**	
52.	Virtual memory	1	03-03-2018		**TLM1/2**	CO4	**T1**	
53.	Tutorial-8	1	06-03-2018		**TLM3**	CO4	**T1**	
54.	Assignment/Quiz-4	1	07-03-2018		**TLM1/2**	CO4	**R2**	
No. of classes required to complete UNIT-IV		8			No. of classes taken:			

UNIT-V : Input-Output Organization:

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
55.	Peripheral Devices	1	09-03-2018		**TLM1/2**	CO5	**T1**	
56.	Input-Output Interface	1	10-03-2018		**TLM1/2**	CO5	**T1**	
57.	Modes of Transfer	1	10-03-2018		**TLM1/2**	CO5	**T1**	
58.	Priority Interrupt	1	13-03-2018		**TLM1/2**	CO5	**T1**	
59.	Direct memory Access	1	14-03-2018		**TLM1/2**	CO5	**T1**	
60.	Tutorial-9	1	17-03-2018		**TLM3**	CO5	**T1**	
61.	Input–Output Processor (IOP)	1	20-03-2018		**TLM1/2**	CO5	**T1**	
62.	Serial communication	1	21-03-2018		**TLM1/2**	CO5	**T1**	
63.	Serial communication	1	23-03-2018		**TLM1/2**	CO5	**T1**	
64.	Tutorial-10	1	24-03-2018		**TLM3**	CO5	**T1**	
65.	Assignment/Quiz-5	1	27-03-2018		**TLM1/2**	CO5	**R1**	
No. of classes required to complete UNIT-V				No. of classes taken:				

Contents beyond the Syllabus

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
66.	Booting Process	1	28-03-2018		**TLM1/2**		**R2**	
67.	Synchronization	1	30-03-2018		**TLM1/2**	CO3	**R1**	
68.	Scheduling	1	31-03-2018		**TLM1/2**	CO3	**R1**	

Teaching Learning Methods					
TLM1	Chalk and Talk	**TLM4**	Problem Solving	**TLM7**	Seminars or GD
TLM2	PPT	**TLM5**	Programming	**TLM8**	Lab Demo
TLM3	Tutorial	**TLM6**	Assignment or Quiz	**TLM9**	Case Study

ACADEMIC CALENDAR:

Description	From	To	Weeks
I Phase of Instructions-1	27-11-2017	13-01-2018	7 W
I Mid Examinations	16-01-2018	20-01-2018	1 W
II Phase of Instructions	22-01-2018	31-03-2018	9W (1 W CRT)
II Mid Examinations	02-04-2018	07-04-2018	1 W
Preparation and Practicals	09-04-2018	21-04-2018	2 W
Semester End Examinations	23-04-2018	05-05-2018	2 W

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5

Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5
Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: A=(A1+A2+A3+A4+A5)/5	1,2,3,4,5	A=5
Evaluation of Mid Marks: B=75% of Max(B1,B2)+25% of Min(B1,B2)	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	**1,2,3,4,5**	**A+B=25**
Semester End Examinations	**1,2,3,4,5**	**C=75**
Total Marks: A+B+C	**1,2,3,4,5**	**100**

Course Instructor	Course Coordinator	Module Coordinator	HOD
T. Suresh	T. Suresh	T. Suresh	Dr. D. Naga Raju

LAKKIREDDY BALI REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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L B Reddy Nagar, Mylavaram-521 230, Krishna District, Andhra Pradesh.

COURSE HANDOUT

PROGRAM : B.Tech., IV-Sem., IT

ACADEMIC YEAR : 2017-18

COURSE NAME & CODE : SOFTWARE ENGINEERING.

L-T-P STRUCTURE : 3-1-0

COURSE CREDITS : 3

COURSE INSTRUCTOR : **Dr. B. Rama Devi.**

COURSE COORDINATOR :

PRE-REQUISITE: C programming, Database Management Systems**.**

COURSE OBJECTIVE:

1. Be employed in industry, government, or entrepreneurial endeavors to demonstrate Professional advancement through significant technical achievements and expanded Leadership responsibility;
2. Demonstrate the ability to work effectively as a team member and/or leader in an ever-changing professional environment;
3. Progress through advanced degree or certificate programs in computing, science, engineering, business, and other professionally related fields.

COURSE OUTCOMES (CO)

CO1: Outline the fundamentals of software engineering concepts and software process standards.
CO2: Analyse appropriate process model and software engineering practices.
CO3: Analyse requirements of software system and explore all requirements gathering approaches.
CO4: Creating an architectural design using design engineering process.
CO5: Apply software strategies and software testing tactics for testing real time projects effectively.

COURSE ARTICULATION MATRIX (Correlation between COs&POs,PSOs):

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	1	1	-	-	-	-	-	-	-	2	-	-	3	2	-
CO2	1	1	3	-	-	-	-	-	1	2	-	-	3	-	-
CO3	1	2	-	-	-	-	-	-	1	2	-	-	2	-	-
CO4	1	-	3	2	-	-	1		1	-	-	-	-	3	2
CO5	1	-	-	2	-	-	-	-	-	-	-	-	-	-	2

Note: Enter Correlation Levels **1** or **2** or **3.** If there is no correlation, **put '-'**
1- Slight (Low), **2 –** Moderate (Medium), **3 -** Substantial (High).

BOS APPROVED TEXT BOOKS:

T1 TEXT BOOK Roger Pressman, "Software engineering- A practitioner's Approach", McGraw-Hill International Edition, 2005, 6th edition.

BOS APPROVED REFERENCE BOOKS:

R1 Ian Somerville, "Software engineering", Pearson education, 2008, 8th edition.

R2 Ali Behforooz and Frederick J Hudson, "Software Engineering Fundamentals", Oxford University Press, New Delhi, 1996.

R3 Stephan Schach, "Software Engineering", Tata McGraw Hill, 2007.

R4 Pfleeger and Lawrence, "Software Engineering: Theory and Practice, Pearson education, 2001, 1995, PHI, second edition.

COURSE DELIVERY PLAN (LESSON PLAN): Section-A

UNIT- I : Introduction to software engineering and Software process

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Introduction to Subject, Course Outcomes	1	27/11/2017		**TLM1**	CO1	TI,R1	
2.	Introduction to software engineering	1	29/11/2017		**TLM1,2**	CO1	TI,R1	
3.	The evolving role of Software, software	1	01/12/2017		**TLM1,2**	CO1	TI,R1	
4.	changing nature of software	1	04/12/2017		**TLM1**	CO1	TI,R1	
5.	legacy software, software myths	1	06/12/2017		**TLM1**	CO1	TI,R1	
6.	TUTORIAL-1	1	08/12/2017		**TLM3**			
7.	Software process: layered technology	1	11/12/2017		**TLM1,2**	CO1	TI,R1	
8.	process frame work, CMMI	1	13/12/2017		**TLM1**	CO1	TI,R1	
9.	process patterns, assessment	1	15/12/2017		**TLM1**	CO1	TI,R1	
10.	personal and team process models	1	16/12/2017		**TLM1,2**		TI,R1	
11.	process technology, product and process	1	18/12/2017		**TLM1**		TI,R1	
12.	TUTORIAL-2	1	20/12/2017		**TLM3**		TI,R1	
13.	Assignment/Quiz-1	1	22/12/2017		**TLM6**			
No. of classes required to complete UNIT-I		13			No. of classes taken:			

UNIT- II : Process models and Software engineering practice

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
14.	Introduction to UNIT-II	1	23/12/2017		**TLM1**	CO2	TI,R1	
15.	Prescriptive models	1	27/12/2017		**TLM1**	CO2	TI,R1	
16.	water fall model, incremental model	1	29/12/2017		**TLM1**	CO2	TI,R1	

17.	evolutionary and specialized process models	1	30/12/2017		**TLM1**	CO2	TI,R1	
18.	unified process model	1	03/01/2018		**TLM1**	CO2	TI,R1	
19.	TUTORIAL-3	1	05/01/2018		**TLM3**			
20.	communication and planning practice	1	06/01/2018		**TLM1**	CO2	TI,R1,R3	
21.	Modelling practices, construction practice and deployment.	1	08/01/2018		**TLM1**	CO2	TI,R1,R2	
22.	TUTORIAL-4	1	10/01/2018		**TLM3**	CO		
23.	Assignment/Quiz-2	1	12/01/2018		**TLM6**			
No. of classes required to complete UNIT-II		10			No. of classes taken:			

UNIT- III : Requirements Engineering and Building the analysis model

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
24.	A bridge to design and construction	1	22/01/2018		**TLM1**	CO3	TI,R1,R2	
25.	RE tasks, Initiating the RE process	1	24/01/2018		**TLM1**	CO3	TI,R1,R2,R3	
26.	Eliciting Requirements, developing use cases.	1	26/01/2018		**TLM1,2**	CO3	TI,R1,R3	
27.	Building the analysis models	1	29/01/2018		**TLM1**	CO3	TI,R1	
28.	Negotiating and validating requirements	1	02/02/2018		**TLM1**	CO3	TI,R1	
29.	TUTORIAL-5	1	03/02/2018		**TLM3**			
30.	Requirements analysis, analysis modelling approaches.	1	05/02/2018		**TLM1,2**	CO3	TI,R1	
31.	Data modelling concepts, OOA	1	07/02/2018		**TLM1,2**	CO3	TI,R1	
32.	scenario based modelling	1	09/02/2018		**TLM1**	CO3	TI,R1	
33.	Flow rated modelling, class based modelling, Creating a behavior model	1	12/02/2018		**TLM1,2**	CO3	TI,R1	
34.	TUTORIAL-6	1	14/02/2018		**TLM3**			
35.	Assignment/Quiz-3	1	16/02/2018		**TLM6**			
No. of classes required to complete UNIT-III		12			No. of classes taken:			

UNIT- IV : Design Engineering and Creating Architectural design

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
36.	Introduction to UNIT-IV	1	17/02/2018		**TLM1**	CO4	TI,R1	
37.	Design within the context of software engineering	1	19/02/2018		**TLM1,2**	CO4	TI,R1	
38.	Design process and Software quality	1	21/02/2018		**TLM1**	CO4	TI,R1	

39.	Design concepts, Design model	1	23/02/2018		**TLM1**	CO4	TI,R1	
40.	pattern based software design	1	24/02/2018		**TLM1**	CO4	TI,R1	
41.	TUTORIAL-7	1	26/02/2018		**TLM3**	CO4		
42.	Data design, Architectural styles	1	28/02/2018		**TLM1,2**	CO4	TI,R1	
43.	Patterns, architectural design	1	03/03/2018		**TLM1**	CO4	TI,R1	
44.	TUTORIAL-8	1	05/03/2018		**TLM3**	CO4		
45.	Assignment/Quiz-4	1	07/03/2018		**TLM6**			
No. of classes required to complete UNIT-IV		10			No. of classes taken:			

UNIT- V : Testing Strategies and Debugging Testing tactics

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
46.	Introduction to UNIT-V	1	07/03/2018		**TLM** 1	CO5	TI,R1,R2	
47.	A strategic to software testing, strategic issue	1	09/03/2018		**TLM** 1,2	CO5	TI,R1,R2	
48.	test strategies for conventional software	1	12/03/2018		**TLM** 1,2	CO5	TI,R1,R2	
49.	object oriented software, validation testing	1	14/03/2018		**TLM** 1	CO5	TI,R1,R3	
50.	TUTORIAL-9	1	16/03/2018		**TLM**3			
51.	software testing fundamentals	1	17/03/2018		**TLM** 1	CO5	TI,R1,R3	
52.	white box testing: basis path testing	1	19/03/2018		**TLM** 1,2	CO5	TI,R1,R2	
53.	control structure testing	1	19/03/2018		**TLM** 1	CO5	TI,R1,R2	
54.	Black box testing, OO testing methods	1	21/03/2018		**TLM** 1,2	CO5	TI,R1,R3	
55.	Assignment/Quiz-5	1	23/03/2018		**TLM6**			
No. of classes required to complete UNIT-V		10			No. of classes taken:			

Contents beyond the Syllabus

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Software testing techniques	1	24/03/2018		**TLM** 1,2	CO1-CO5	TI,R1,R3	
2.	Software Reliability, Software Quality	1	24/03/2018		**TLM** 1,2	CO1-CO5	TI,R1,R2	

Teaching Learning Methods					
TLM1	Chalk and Talk	**TLM4**	Problem Solving	**TLM7**	Seminars or GD
TLM2	PPT	**TLM5**	Programming	**TLM8**	Lab Demo
TLM3	Tutorial	**TLM6**	Assignment or Quiz	**TLM9**	Case Study

ACADEMIC CALENDAR:

Description	From	To	Weeks
I Phase of Instructions-1	27-11-2017	13-01-18	7w
Sankranthi Holidays			
I Phase of Instructions-II			
I Mid Examinations	16-01-2018	20-01-2018	1w
II Phase of Instructions	22-01-2018	23-03-2018	9w
II Mid Examinations	26-03-2018	31-03-2018	1w
Preparation and Practicals	02-04-2018	14-04-2018	2w
Semester End Examinations	16-04-2018	28-04-2018	2w

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5
Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5
Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: A=(A1+A2+A3+A4+A5)/5	1,2,3,4,5	A=5
Evaluation of Mid Marks: B=75% of Max(B1,B2)+25% of Min(B1,B2)	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	**1,2,3,4,5**	**A+B=25**
Semester End Examinations	**1,2,3,4,5**	**C=75**
Total Marks: A+B+C	**1,2,3,4,5**	**100**

Course Instructor **Course Coordinator** **Module Coordinator** **HOD**

LESSON PLAN

Department: INFORMATION TECHNOLOGY **Program: B.Tech**
Course :PROBABILITY AND STATISTICS (S351)
SEM: IV **Academic Year : 2017-18**

1. **Pre-requisites**: None

2. **Course Educational Objectives (CEOs):** In this course the students are able to understand the applications of probability distributions. They also learn various sample tests in testing the hypothesis and correlation, regression of a bi-variate data.

3.Course Outcomes (COs): At the end of the course, the student will be able to :

CO1: Predict various probabilistic situations based on various laws of probability and random variables.
CO2: Distinguish among the criteria of selection and application of Binomial, Poisson, Normal and Gamma distributions.
CO3: Estimate the point and interval estimators of mean, variance and proportion for the given Sample data.
CO4: Apply various sample tests like Z-test, t-test, F-test and x2 -test for decision making regarding the population based on sample data.
CO5: Estimate the level of correlation, the linear relationship for the given bivariate data and the best fit curve of the given data by the method of least squares.

4. Course Articulation Matrix:

Course Code	COs	Programme Outcomes												PSOs		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
S134	CO1	3	2	1	2								2			
	CO2	3	2	2	3								2			
	CO3	3	2	2	2								2			
	CO4	3	3	3	3								2			
	CO5	3	2	2	3								2			
1 = Slight (Low) 2 = Moderate (Medium) 3-Substantial(High)																

5.Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	As per the schedule		Actual Date	DM
		Number of classes	Date		
	Unit-1				
1	Introduction class	1	27-11-17		1
2	Introduction to probability	1	28-11-17		1
3	Basic definitions, simple problems	1	30-11-17		1
4	Problem on addition theorem	1	02-12-17		1
5	Conditional probability	1	04-12-17		1
6	Multiplication theorem, examples	1	05-12-17		1
7	Independent events, theorems	1	07-12-17		1
8	Problems on multiplication theorem	1	11-12-17		1
9	Problems on independent events	1	12-12-17		1
10	Baye's theorem	1	14-12-17		1
11	Problems on baye's theorem	1	16-12-17		1
12	Tutorial	1	18-12-17		3
13	Assignment & Quiz questions	1	19-12-17		4
	Number of classes	13			
	Unit-II				
14	Random variables(discrete & continuous)	1	21-12-17		1
15	Mathematical Expectation ,relations	1	23-12-17		1
16	Problems on PMF	1	26-12-17		1
17	Problems on PDF	1	28-12-17		1
18	Binomial Distribution , mean and variance	1	30-12-17		1
19	Problems on Binomial distribution	1	02-01-18		1
20	Poisson distribution, mean and variance	1	04-01-18		1
21	Problems on Poisson distribution	1	06-01-18		1
22	Normal distribution	1	08-01-18		1
23	Problems on Normal Distribution	1	09-01-18		1
24	Gamma distribution, simple applications	1	11-01-18		1
25	Tutorial, Assignment & Quiz	1	12-01-18		3,4
	Number of classes	12			
	Unit-III				
26	Sampling distribution ,definitions	1	22-01-18		1
27	Sampling distribution of mean	1	23-01-18		1
28	problems	1	25-01-18		1
29	Problems on central limit theorem	2	27-01-18 29-01-18		1
30	Estimation	1	30-01-18		1
31	Point and interval estimation	1	01-02-18		1
32	Interval estimation of mean	1	03-02-18		1
33	Interval estimation of proportion	1	06-02-18		1
34	Tutorial, Assignment & Quiz	1	08-02-18		3,4
	Number of classes	10			
	Unit-IV				
35	Testing of Hypothesis , definitions	1	12-02-18		1
36	Z-test for single mean	1	15-02-18		1
37	Z-test for difference of means	1	17-02-18		1
38	Z-test for single proportion	1	19-02-18		1
39	Z-test for difference of proportions	1	20-02-18		1
40	t-test for single mean	1	22-02-18		1

41	t-test for difference of means	1	24-02-18		1
42	F-test for population variances	1	26-02-18		1
43	χ^2 test for goodness of fit	1	27-02-18		1
44	χ^2 test for independence of attributes	1	01-03-18		1
45	Tutorial, Assignment & Quiz	1	03-03-18		3,4
	Number of classes	11			
Unit-V					
46	Simple Bi-variate Correlation	1	05-03-18		1
47	Problems on Pearson's Correlation	1	06-03-18		1
48	Regression lines	1	08-03-18		1
49	Problems on Regression lines	1	12-03-18		1
50	Problems on Regression coefficients	1	13-03-18		1
51	Problems on rank Correlation	1	15-03-18		1
52	Problems on repeated ranks	1	17-03-18		1
53	Fitting a straight line, Second degree	1	19-03-18		1
54	Fitting of exponential and other curves	1	20-03-18		1
55	Tutorial	1	22-03-18		3
56	Assignment & Quiz questions	1	24-03-18		4
	Number of classes	11			
	Total Number of classes	57			

Delivery Methods (DM):

1.Chalk & Talk 2. ICT Tools 3. Tutorial 4. Assignment/Test/Quiz
5. Laboratory/Field Visit 6. Web based learning.

	Course Instructor	**Course Coordinator**	**Module Coordinator**	**HOD**
Signature				
Name of the Faculty	**M.Rami Reddy**			

PRINCIPAL

LAKKIREDDY BALI REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
(Autonomous & Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi, NAAC Accredited with 'A' grade, Accredited by NBA, Certified by ISO 9001:2015)
L B Reddy Nagar, Mylavaram-521 230, Krishna District, Andhra Pradesh.

COURSE HANDOUT

PROGRAM : B.Tech., IV-Sem., IT

ACADEMIC YEAR : 2017-18

COURSE NAME & CODE : S355: PROFESSIONAL ETHICS & HUMAN VALUES

L-T-P STRUCTURE : 3-0-0

COURSE CREDITS : 0

COURSE INSTRUCTOR : **N SAMBASIVA RAO**

COURSE COORDINATOR : **D KALYANI**

PRE-REQUISITE:

- **COURSE OBJECTIVE** : To create an awareness on engineering ethics and human values
- To elucidate the importance of the social responsibility of an Engineer.
- To eliminate Ethical Dilemma and to develop autonomous nature in Engineers while discharging duties in professional life.

COURSE OUTCOMES(CO)

At the end of the course, the student

- Acquires and understanding of the basic concepts of Professional ethics and human values & Students also gain the practical implication of ethical theories
- Knows the duties and rights towards the society in an engineering profession
- Learns about dilemmas and moral issues and be able to apply these concepts to solve various Professional problems.
- Students also gain the practical implication of evacuation from risk & maintaining confidentiality.
- Meets the challenges and develop the skill as 'risk bearer'.
- Understands the importance of risk evacuation system in reality

COURSE ARTICULATION MATRIX (Correlation between COs&POs,PSOs):

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	L	-	-	-	-	S	-	-	-	-	-	-	-
CO3	-	L	M	-	-	-	-	-	M	-	-	-	-	-	-
CO4	-	-	-	L		M	-	-	L	-	-	-	-	-	-
CO5	-	-	-	-	-	L	M	-	-	-	-	L	-	-	-

Note: Enter Correlation Levels **1** or **2** or **3.** If there is no correlation, **put '-'**
1- Slight(Low), **2 -** Moderate(Medium), **3 -** Substantial (High).

BOS APPROVED TEXT BOOKS:

T1 R.S.Nagarajan, a Textbook on "Professional Ethics and Human Values", New Age Publishers – 2006.

T2 Mike Martin and Roland Schinzinger, "Ethics in engineering", McGraw Hill, New York 1996.

BOS APPROVED REFERENCE BOOKS:

R1 Govindarajan M, Natarajan S, Senthil Kumar V. S, " Engineering Ethics", Prentice Hall of India, New Delhi, 2004.

R2 Charles D. Fleddermann, "Engineering Ethics", Pearson Education/ Prentice Hall, New Jersey,2004 (Indian Reprint now available)

COURSE DELIVERY PLAN (LESSON PLAN):

UNIT-I : ETHICS

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Introduction to Subject	01	27-11-2016		**TLM1**			
2.	Course Outcomes	01	28-11-2016		**TLM1**			
3.	Introduction to UNIT-I	01	29-11-2016		**TLM1**			
4.	Senses of 'Engineering Ethics' -	01	04-12-2017		**TLM1**			
5.	Variety of moral issues -	01	05-12-2017		**TLM1**			
6.	Types of inquiry, Moral dilemmas Moral autonomy -	01	06-12-2017		**TLM1**			
7.	Consensus and controversy –- Kohlberg's theory Gilligan's theory	01	11-12-2017		**TLM2**			
8.	Models of Professional Roles	01	12-12-2017		**TLM1**			
9.	Theories about right action- Self interest Customs and religion, Uses of Ethical theories.	01	13-12-2017		**TLM2**			
10.	TUTORIAL-1	01	18-12-2017		**TLM3**			
11.	Assignment/Quiz – 1	01	19-12-2017		**TLM6**			
No. of classes required to complete UNIT-I					No. of classes taken:			

UNIT-II : HUMAN VALUES

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
12.	Introduction to UNIT-II	01	20-12-2017		**TLM1**			
13.	Morals, Values and Ethics –	01	26-12-2017		**TLM1**			
14.	Integrity – Work Ethic –	01	27-12-2017		**TLM2**			
15.	Service Learning - Civic Virtue – Respect for Others –	01	02-01-2018		**TLM1**			
16.	Living Peacefully – Caring – Sharing -	01	03-01-2018		**TLM2**			
17.	Honesty – Courage– Valuing Time - Cooperation – Commitment –	01	08-01-2018		**TLM1**			
18.	Empathy – Self Confidence – Character – Spirituality	01	09-01-2018		**TLM1**			
19.	TUTORIAL-2	01	10-01-2018		**TLM3**			
20.	Assignment/Quiz – 2	01	15-01-2018		**TLM6**			
No. of classes required to complete UNIT-II					No. of classes taken:			

UNIT-III : ENGINEERING AS SOCIAL EXPERIMENTATION

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
21.	Introduction to UNIT-III	01	22-01-2018		**TLM1**			
22.	Engineering as experimentation -	01	23-01-2018		**TLM1**			
23.	Engineering Projects VS. Standard Experiments - Engineers as responsible experimenters	01	24-01-2018		**TLM2**			
24.	Codes of ethics - Industrial Standards -	01	29-01-2018		**TLM1**			
25.	A balanced outlook on law-		30-01-2018					
26.	The challenger case study. TUTORIAL-3	01	31-01-2018		**TLM3, TLM9**			
27.	Assignment/Quiz – 3	01	05-02-2018		**TLM6**			
No. of classes required to complete UNIT-III					No. of classes taken:			

UNIT-IV : SAFETY, RESPONSIBILITIES AND RIGHTS

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
28.	Introduction to UNIT-IV	01	06-02-2018		**TLM1**			

29.	Safety and risk-	01	07-02-2018		**TLM1**			
30.	Assessment of safety and risk-	01	12-02-2018		**TLM1**			
31.	Risk benefit analysis and reducing risk-	01	14-02-2018		**TLM1**			
32.	Three Mile Island and Chernobyl case study - Collegiality and loyalty - Respect for authority -	01	19-02-2018		**TLM9**			
33.	Collective bargaining – Confidentiality-	01	20-02-2018		**TLM1**			
34.	Conflicts of interest - Occupational crime -	01	21-02-2018		**TLM2**			
35.	Professional Rights- Employee rights-		26-02-2018					
36.	Intellectual Property Rights (IPR) discrimination.	01	27-02-2018		**TLM1**			
37.	TUTORIAL-4	01	28-02-2018		**TLM3**			
38.	Assignment/Quiz – 4	01	05-03-2018		**TLM6**			
No. of classes required to complete UNIT-IV					No. of classes taken:			

UNIT-V : GLOBAL ISSUES

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
39.	Introduction to UNIT-V	01	06-03-2018		**TLM1**			
40.	Multinational Corporation's - Environmental ethics- computer ethics -weapons development	01	07-03-2018		**TLM1**			
41.	Engineers as managers - consulting engineers-	01	12-03-2018		**TLM2**			
42.	engineers as expert witnesses and advisors, Moral leadership -	01	13-03-2018		**TLM1**			
43.	sample code of Ethics (Specific to a particular Engineering Discipline).	01	14-03-2018		**TLM1**			
44.	TUTORIAL-5	01	19-03-2018		**TLM3**			
45.	Assignment/Quiz – 5	01	20-03-2018		**TLM6**			
No. of classes required to complete UNIT-V					No. of classes taken:			

Teaching Learning Methods					
TLM1	Chalk and Talk	**TLM4**	Problem Solving	**TLM7**	Seminars or GD
TLM2	PPT	**TLM5**	Programming	**TLM8**	Lab Demo
TLM3	Tutorial	**TLM6**	Assignment or Quiz	**TLM9**	Case Study

ACADEMIC CALENDAR:

Description	From	To	Weeks
I Phase of Instructions-1	27-11-2017	13-01-2018	
Sankranthi Holidays			
I Phase of Instructions-II			
I Mid Examinations	16-01-2018	20-01-2018	
II Phase of Instructions	22-01-2018	24-03-2018	
II Mid Examinations	26-03-2018	31-03-2018	
Preparation and Practicals	02-04-2018	14-04-2018	
Semester End Examinations	16-04-2018	28-04-2018	

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5
Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5
Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: A=(A1+A2+A3+A4+A5)/5	1,2,3,4,5	A=5
Evaluation of Mid Marks: B=75% of Max(B1,B2)+25% of Min(B1,B2)	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	**1,2,3,4,5**	**A+B=25**
Semester End Examinations	**1,2,3,4,5**	**C=75**
Total Marks: A+B+C	**1,2,3,4,5**	**100**

Course Instructor **Course Coordinator** **Module Coordinator** **HOD**

	LESSON PLAN	Date: 27/11/2017 To 25/04/2018
	Sub. Name : DATABASE MANAGEMENT SYSTEMS LAB Branch: IT Semester: IV	

L130 – DATABASE MANAGEMENT SYSTEMS LAB

Lecture	**: 3 Periods/week**	**Internal Marks**	**: 25**
		External Marks	**: 50**
Credits	**: 2**	**External Examinations**	**: 3 Hrs**

Course Educational Objectives:

The major objective of this lab is to provide a strong formal foundation in database concepts, technology and practice to the participants to groom them into well-informed database application developers.

The sub-objectives are:

- To give a good formal foundation on the relational model of data
- To present SQL and procedural interfaces to SQL comprehensively
- To give an introduction to systematic database design approaches covering conceptual design, logical design and an overview of physical design

Course Outcomes

After undergoing this laboratory module, the participant should be able to:

CO 1 Design & implement a database schema for a given problem-domain.

CO 2 Create database using SQL and implement various integrity constraints.

CO 3 Apply PL/SQL Programming for problem solving.

Pre requisite: Knowledge of basic SQL commands.

CYCLE-1

1) Create a table STUDENT with appropriate data types and perform the following queries. Roll number, student name, date of birth, branch and year of study.

1. Insert 5 to 10 rows in a table?
2. List all the students of all branches
3. List student names whose name starts with ‘s’
4. List student names whose name contains ‘s’ as third literal
5. List student names whose contains two ‘s’ anywhere in the name
6. List students whose branch is NULL
7. List students of CSE & ECE who born after 1980
8. List all students in reverse order of their names
9. Delete students of any branch whose name starts with ‘s’
10. Update the branch of CSE students to ECE
11. Display student name padded with ‘*’ after the name of all the students

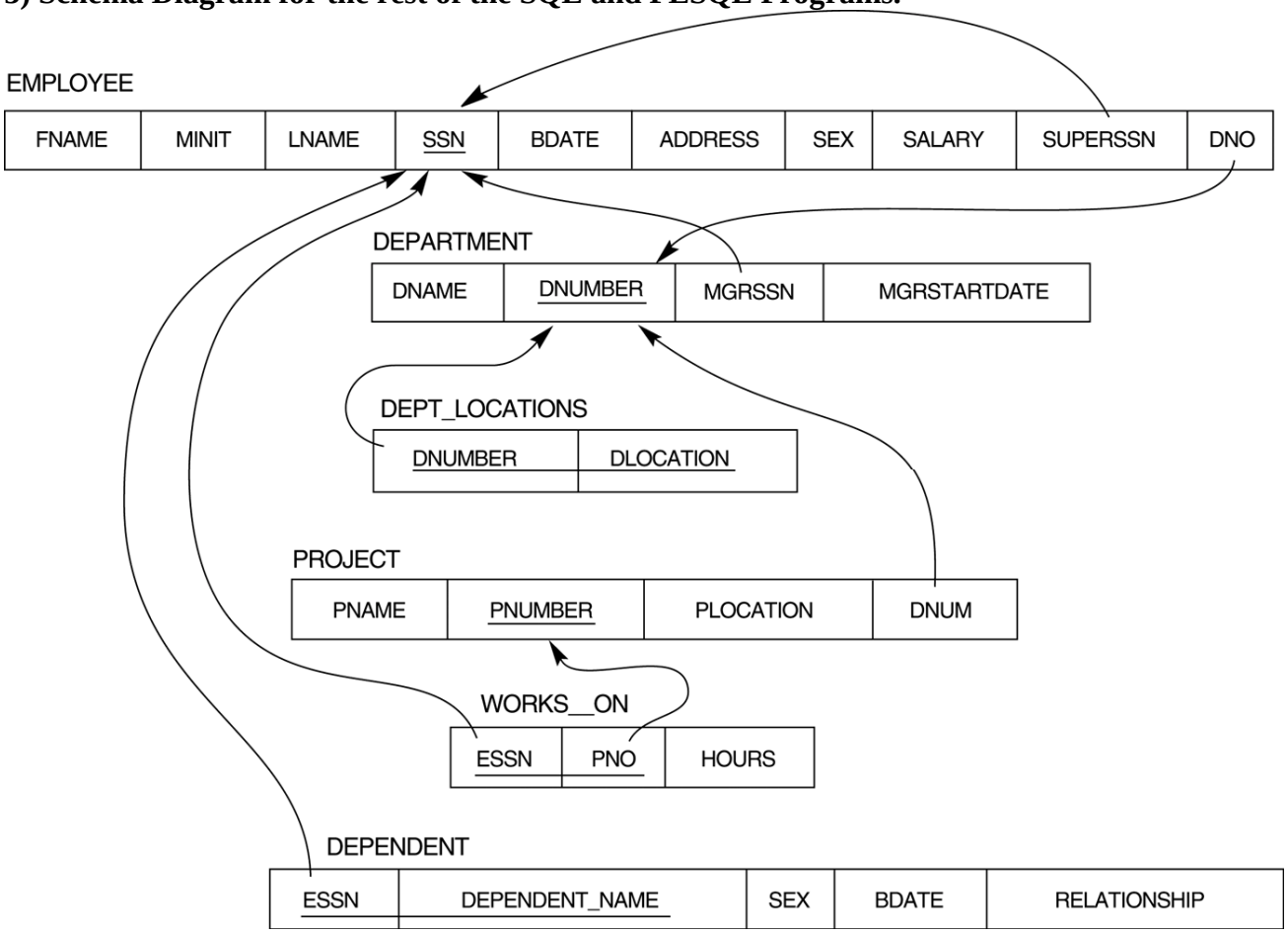
2) Create the following tables based on the above Schema Diagram with appropriate data types and constraints and perform the following queries.

SAILORS (Saild, Salname, Rating, Age)
RESERVES (Sailid, boatid, Day)
BOATS (Boatid, Boat-name, Color)

1. Insert 5 to 10 rows in all tables?

2. Find the name of sailors who reserved boat number 3.
3. Find the name of sailors who reserved green boat.
4. Find the colors of boats reserved by “Ramesh”.
5. Find the names of sailors who have reserved atleast one boat.
6. Find the all sailid of sailors who have a rating of 10 or have reserved boated 104.
7. Find the Sailid’s of sailors with age over 20 who have not registered a red boat.
8. Find the names of sailors who have reserved a red or green boat.
9. Find sailors whose rating is better than some sailor called ‘Salvador’.
10. Find the names of sailors who are older than the oldest sailor with a rating of 10.

3) Schema Diagram for the rest of the SQL and PLSQL Programs.



Create the following tables based on the above Schema Diagram with appropriate data types and constraints.
EMPLOYEE (Fname, Mname, Lname, SSN, Bdate, Address, Gender, Salary, SuperSSN, Dno)
DEPARTMENT(Dnumber, Dname, MgrSSN, Mgrstartdate)
DEPENDENT (ESSN, Dependent_Name, Gender, Bdate, Relationship)

1) Insert 5 to 10 rows into all the tables.
2) Display all employee’s names along with their department names.
3) Display all employee’s names along with their dependent details.
4) Display name and address of all employees who work for ‘ECE’ department.
5) List the names of all employees with two or more dependents.
6) List the names of employee who have no dependents.
7) List the names of employees who have at least one dependent.
8) List the names of the employees along with names of their supervisors using aliases.
9) Display name of the department and name of manager for all the departments.
10) Display the name of each employee who has a dependent with the same first name and gender as the employee.
11) List the names of managers who have at least one dependent.
12) Display the sum of all employees’ salaries as well as maximum, minimum and average salary in the entire departments department wise if the department has more than two employees.

13) List the departments of each female employee along with her name.
14) List all employee names and also the name of the department they manage if they happen to manage a dept.
15) Display the name of the employee and his / her supervisor's name.

4) Create the following tables based on the above Schema Diagram with appropriate data types and constraints in addition to the tables in Experiment 2.

DEPT_LOCATIONS (Dnumber, Dloaction)
PROJECT (Pname, Pnumber, Plocation, Dnum)
WORKS_ON(ESSN, Pno, Hours).

1) Insert 5 to 10 rows into all the tables.
2) Find the names of the employees who work on all the projects controlled by the department 'ECM'.
3) List the project number, name and no. Of employees who work on that project for all the projects.
4) List the names of all the projects controlled by the departments department wise.
5) Retrieve the names of employees who work on all projects that 'John' works on.
6) List the project numbers for projects that involve an employee either as worker or as a manager of the department that controls the project.
7) List the names of all employees in one department who work more than 10 hours on one specific project.
8) For each project, list the project name and total hours (by all employees) spent on that project.
9) Retrieve the names of all employees who work on every project.
10) Retrieve the names of all employees who do not work on any project.
11) Display the name and total no. of hours worked by an employee who is working on maximum no. of projects among all the employees.
12) Display the names of all employees and also no. of hours, project names that they work on if they happen to work on any project(use outer join).
13) List the employee name, project name on which they work and the department they belong to for all the employees using alias names for the resulting columns.
14) Retrieve the names of all employees who work on more than one project department wise.
15) List all the departments that contain at least one occurrence of 'C' in their names.

5) Create a view that has project name, controlling department name, number of employees and total hours worked on the project for each project with more than one employee working on it.

1) List the projects that are controlled by one department from this view.
2) List the managers of the controlling departments for all the projects.
3) Demonstrate one update operation on this view.
4) List the Location of the controlling departments for all the projects.
5) Retrieve the data from the view.

PL/SQL LAB CYCLE

CYCLE-II

6. Write a PL/SQL Block to find whether the number is Armstrong or not.
7. Write a PL/SQL program for generating Fibonacci series
8. Write an anonymous PL/SQL block that fetches and displays the data from employee table to the console.
9. Write a program that updates salaries of all employees with 10 % hike (use cursors).
10. Write a program to fetch salary and employee name from employee table for a given user input. When no data found raise an exception that prints the message "no data found".
11. Write a program to find the number of records of any given table using % ROWCOUNT.
12. Write a cursor to display the list of employees and total salary department wise.
13. Write a database trigger on employee table so that the trigger fires when all the DML statements are executed (print appropriate message).
14. Write a trigger in such a way that it should not allow insert or update or delete on Wednesday and Thursday and display the proper message.
15. Write a procedure to display the name and salary of employee when user inputs SSN using IN/OUT parameters.

16. Write a function to check the validity of the given employee number from the employee table (print the appropriate message using PL/SQL block).
17. Visit TPC and submit report.

	Lakireddy Bali Reddy College of Engineering	
	Department of IT	
	Outcome based lesson plan	
	Academic year: 2017-2018	Course: DBMS Lab
	Programme: B.Tech	Exp No: 1 to 17
	Year & Sem: II & II (IV sem)	

S.No	Teaching Learning Process (TLP)	Delivery Methods (DM)	Assessment Methods (AM)
1	Solving Real world problem	Chalk & Talk	Assignments
2	Explaining application before theory	ICT tools	Quiz
3	Solving problems	Group discussions	Tutorials
4	Designing of experiments	Industrial visit	Surprise Tests
5	Problems on environmental, economics, health & safety	Field work	Mid Exams
6	Problems on professional & ethics	Case studies	Model Exam
7	Seminar	Mini Projects	QAs
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date		TLP	DM	AM
		Tentative	Actual			
1	Introduction to DBMS	28/11/2017 30/11/2017		1	1,2	2,4,6
2	**CYCLE-I :** EXP-1	05/12/2017 07/12/2017		1	1	
3	EXP-2	12/12/2017 14/12/2017		1	1	
4	EXP-3	19/12/2017 21/12/2017		1	1	
5	EXP-4	26/12/2017 28/12/2017		1	1	
6	EXP-5	02/01/2018 04/01/2018		1	1	
7	**CYCLE-II :** EXP-6,EXP7	09/01/2018 11/01/2018		1	1	
8	EXP-8,EXP9	18/01/2018 23/01/2018		1	1,2	
09	EXP-10,EXP11	25/01/2018 30/01/2018		1	1	
10	EXP-12	01/02/2018 06/02/2018		1	1	
11	EXP-13	08/02/2018 20/02/2018		1	1,2,9	
12	EXP-14	22/02/2018 27/02/2018		1	1,2,9	
13	EXP-15	01/03/2018 06/03/2018		1	1	
14	EXP-16,EXP17	20/03/2018 22/03/2018		1	1,2,9	

15	Internal Exam	27/03/2018 12/04/2018		

Assessment Summary:

Assessment Task	Weight age (Marks)	**Course Outcomes**		
		CO1	CO2	CO3
Day-Day Performance	10			
Record	05			
Internal Test	10			
Surprise Tests	--			
Model Exams	--			
End Exam	50			
Total	75			

Mapping Course Outcomes with Programme Outcomes:

Course Code	Course Outcomes			Programme Outcomes													
	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
L130	2	2			3					1		2	1	3		2	2	
	2	2			3					1		2	1	3		2	2	
	2	2	2		3					1		2	3	3		2	2	2

` **(S=strongly (100%) (M=moderately (70%) (L=lightly (50%))**

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	Dr.D.Naga Raju	Dr.D.Naga Raju	Dr.D.Naga Raju	Dr.D.Naga Raju
Sign with Date				

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

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Faculty Name:,K.V.ASHOK,V.RAVISEKHAR REDDY,M.SIVA SANKARA RAO **LAB SCHEDULE** **Date: 27-11-2017.**

Year: B.Tech - IV SEM **MICROPROCESSORS & INTERFACING** **IT**

S.NO.	UNIT	DESCRIPTION	II Batch(TUE)		I Batch(THU)		Signature
			Planned	Performed	Planned	Performed	
1.		Introduction to 8086 Kits & Debug	28/11/17		30/11/17		
2.		Programs on Data Transfer & Exchange	05/12/17		07/12/17		
3.		Programs on ADD,ADC,SUB	12/12/17		14/12/17		
4.		Programs on MUL & DIV	19/12/17		21/12/17		
5.		Programs on code Conversion	26/12/17		28/12/17		
6.		Programs on Sorting	02/01/18		04/01/18		
7.		Programs on String	09/01/18		11/01/18		
8.		Programs on Subroutines, MASM	30/01/18		01/02/18		
9.		DAC Interfacing- Generation of Waveforms	06/02/18		08/02/18		
10.	Cycle	ADC Interfacing	20/02/18		15/02/18		
11.	Cycle	Stepper Motor Interfacing	27/02/18		22/02/18		
12.	Cycle	Key Board Interfacing	06/03/18		01/03/18		
13.	Cycle	Display Interfacing	13/03/18		08/03/18		
14.	Cycle	8051 Program- Program & IO	20/03/18		15/03/18		
15.	Cycle	INTERNAL EXAM	27/03/18		22/03/18		

Signature of the Faculty **HEAD OF THE DEPARTMENT, IT**

Faculty Name: :,K.V.ASHOK,V.RAVISEKHAR REDDY,M.SIVA SANKARA RAO