



LESSON PLAN

Department: CSE
Course: – Data Mining and Data Warehouse
SEM: VII

Program: B.Tech

Academic Year: 2017-18

1. Pre-requisites: DBMS, Probability and Statistics.

2. Course Educational Objectives (CEOs):

Students will be enabled to understand and implement classical models and algorithms in data warehousing and data mining. They will learn how to analyze the data, identify the problems, and choose the relevant models and algorithms to apply. They will further be able to assess the strengths and weaknesses of various methods and algorithms and to analyze their behaviour.

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

CO1: Outline the basic concepts of data warehouse & data mining.
CO2: Apply data pre-processing, generalization and data characterization techniques to provide suitable input for a range of data mining algorithms.
CO3: Analyze and provide solutions for real world problems using mining association techniques.
CO4: Examine the different classification & clustering techniques in data mining.
CO5 Apply data mining techniques to complex data objects like spatial data, multimedia data and web mining.

4. Course Articulation Matrix:

COs	POs												PSOs			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	2	1												3		
CO2	2	1	1	2										3		
CO3	2	2	2	2	2									3		
CO4	2		2	3										3		
CO5	2		3	3										3		
S=3=STRONGLY AGREE (100%), M=2= MODERATELY (66%), L=1=LIGHTLY (33%)																

5. Course Delivery Plan:


S.NO	TOPIC TO BE COVERED	No.of Classes		Date	DM
		As per the Schedule	Taken		
Unit-1 (INTRODUCTION TO DMDW)					
1	Introduction-Data, Info. Importance of DMDW	1			1
2	Why we need Data warehouse	1			1
3	OLTP vs. OLAP	1			1
4	Multidimensional data models	1			1
5	Multidimensional data models	1			1
6	DWH Architecture	1			1
7	Concept Hierarchy, OLAP Operations	1			1,2
8	Types of OLAP servers, Meta Data Repository	1			1,2
9	DWH Implementation	1			1,2
10	Further Development	1			2
11	DWH to Data Mining	1			2
12	Tutorial -1	1			3
Number of classes		12			
Unit-II (PRE PROCESSING TECHNIQUES)					
13	Why we need pre-processing	1			1
14	Data Cleaning	2			1
15	Data Integration	1			1
16	Correlation & Chi square Analysis	2			1
17	Data Transformation	1			1
18	Data Reduction	1			1
19	Discretization & Concept hierarchy generation	1			1,2
20	Data mining primitives	1			1,2
21	Graphical user interfaces	1			2
22	Tutorial -2	1			3
Number of classes		12			
Unit –III ASSOCIATION RULE MINING)					

23	Association rule mining	1			1
24	Apriori algorithm	3			1,2
25	FP growth algorithm	2			1,2
26	Single dimensional Boolean association from transitional database	1			1,2
27	Multi-level association rules from transitional databases	2			1,2
28	Tutorial - 3	1			3
Number of classes		10			
Unit – IV (CLASIFICATION AND CLUSTERING)					
29	Classification and Prediction	1			1
30	Issues and Decision Tree induction	2			1
31	Bayesian classification	2			1,2
32	Rule based Classification	1			1
33	Other Classification methods	1			1,2
34	Prediction	1			1,2
35	Classifier accuracy ,Cluster analysis	1			1
36	Decision tree induction algorithm	1			1,2
38	K-Nearest Neighbor algorithm	2			1,2
39	Hierarchical clustering algorithm	1			1,2
40	Outlier Analysis	1			1
41	Tutorial-4	1			3
		15			
Unit – V (DATA MINING APPLICATIONS)					
42	Multi-dimensional analysis and descriptive mining of complex data	1			1,2
43	Spatial databases	2			1,2
44	Multimedia databases	1			1,2
45	Time series and sequence of data	1			1,2
46	Text databases	1			1,2
47	World wide web	1			1,2
48	Applications and trends in data mining	1			1,2
49	Tutorial-5	1			3
Number of classes		9			
Total Number of classes		58			

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	Dr D Veeraiah	Dr D Veeraiah	Dr D Veeraiah	Dr N Ravi Shankar

	LESSON PLAN		
	Department: CSE Course: – C# AND .NET PROGRAMMING SEM: VII	Program: B.Tech Academic Year: 2017-18	

1. Pre-requisites: C, C++, JAVA Languages

2. Course Educational Objectives (CEOs):

This course will cover the practical aspects of multi-tier application development using the .NET framework. The goal of this course is to introduce the basics of distributed application development. Technologies covered include the Common Language Runtime (CLR), .NET framework classes, C#, ASP.NET, and ADO.NET.

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

CO1: Identify the basic constructs of C# and .NET Framework with a view of using them in problem solving.

CO2: Apply object oriented features of C# to solve real world problems.

CO3: Demonstrate the usage of ADO.NET to create window applications for database access.

CO4: Design ASP.NET web applications to create user friendly environment.

CO5: Analyse the features like security, assemblies and CLR in .NET framework.

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
T170	CO1	2	2	3		3								3		
	CO2	2	2	3		3								3		

	CO3	2	2	3		3								3	3	
	CO4	2	2	3		3								3	3	
	CO5	2	3	3		3								3	2	
1 = Slight (Low)		2 = Moderate (Medium)					3-Substantial(High)									

5. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No.of Classes		Date	DM
		As per the Schedule	Taken		
Unit-1 (INTRODUCTION TO C#)					
1	Understanding .NET Framework	1			1
2	Introduction to C#	1			1
3	Overview of C#	1			1
4	Literals, Variables, Data Types	1			1,2
5	Operators, checked and unchecked operators	1			1,2
6	Expressions, Branching	1			1,2
7	Looping Statements	1			1,2
8	TUTORIAL-1	1			3
9	implicit and explicit casting	1			1,2
10	Constant, Arrays	1			1,2
11	Array Class, Array List	1			1,2
12	String, String Builder	1			1,2
13	Structure, Enumerations	1			1,2
14	boxing and unboxing.	1			1,2
15	TEST-1	1			4
Number of classes		15			
Unit-II (OBJECT ORIENTED ASPECTS OF C#)					
16	Class, Objects	1			1,2
17	Constructors and its types	1			1,2
18	inheritance	1			1,2
19	properties, indexers	1			1,2

20	Index overloading	1			1,2
21	polymorphism	1			1,2
22	sealed class and methods	1			1,2
23	TUTORIAL-2	1			3
24	interface, abstract class	1			1,2
25	abstract and interface	1			1,2
26	operator overloading	1			1,2
27	delegates, events	1			1,2
28	errors and exception	1			1,2
29	Threading.	1			1,2
30	TEST-2	1			4
Number of classes		15			
Unit -III (APPLICATION DEVELOPMENT ON .NET)					
31	Building windows application	1			1,2
32	Creating our own window forms	2			1,2 &5
33	window forms with events and controls	2			1,2 &5
34	menu creation	1			1,2
35	inheriting window forms	1			1,2
36	SDI and MDI application	1			1,2
37	Dialog Box(Modal and Modeless)	1			1,2
38	TUTORIAL - 3	1			3
39	accessing data with ADO.NET	2			1,2 & 5
40	DataSet, typed dataset	1			1,2
41	Data Adapter	1			1,2
42	Updating database using stored procedures	1			1,2
43	SQL Server with ADO.NET	2			1,2 & 5
44	handling exceptions	1			1,2
45	validating controls	1			1,2

46	Windows application configuration	1			1,2
47	TEST - 3	1			4
Number of classes		21			
Unit - IV (WEB BASED APPLICATION DEVELOPMENT ON .NET)					
48	Programing web application with web forms	1			1,2
49	ASP.NET introduction	1			1,2
50	working with XML and .NET	2			1,2
51	Creating Virtual Directory and Web Application	2			1,2
52	session management techniques	2			1,2
53	web.config	1			1,2
54	TUTORIAL - 4	1			3
55	web services	2			1,2 & 5
56	passing datasets	1			1,2
57	returning datasets from web services	2			1,2
58	handling transaction	1			1,2
59	handling exceptions	1			1,2
60	returning exceptions from SQL Server	2			1,2 &5
61	TEST - 4	1			4
Number of classes		20			
Unit - V (CLR AND .NET FRAMEWORK)					
62	Assemblies	1			1,2
63	Versioning, Attributes	1			1,2
64	reflection	1			1,2
65	viewing meta data	1			1,2
66	TUTORIAL - 5	1			3
67	type discovery	1			1,2
68	Reflection on type	1			1,2
69	marshalling, remoting	1			1,2
70	security in NET	1			1,2
71	TEST -5	1			4
Number of classes		10			
Total Number of classes		81			

Delivery Methods (DM):

S168	CO1	2	1	3														3
	CO2		2	2								1						3
	CO3		1	2	2							1						3
	CO4		1	2	2							1						3
	CO5		1	2	2							1						3
1 = Slight (Low) Substantial(High) 2 = Moderate (Medium) 3-																		

2. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No. of Classes		Date	DM
		As per the Schedule	Taken		
Unit-1					
1	What is Design Pattern?	1			1
2	Design Patterns in Smalltalk MVC	1			1
3	Describing Design Patterns	1			1
4	The catalog of Design patterns	1			1
5	Organizing the catalog	1			1
6	How design patterns solve design problems	1			1
7	How to select a design pattern	1			1
8	How to use a design pattern.	1			1,2
9	Revision	1			1,2
10	Tutorial - 1 / Test - 1	1			3, 4
Number of classes		10		--	
Unit-II					
11	Designing a document editor:	1			1
12	Design problems	1			1
13	Document structure	1			1
14	Formatting	1			1,2
15	Embellishing the user interface	1			1
16	Supporting multiple look-and-feel standards	1			1
16	Supporting multiple window systems	1			1


17	User operations	1			1
18	spelling checking	1			1,2
19	Hyphenation summary	1			1,2
20	Revision	1			1
21	Tutorial - 2 / Test - 2	1			3, 4
Number of classes		11		--	
Unit-III					
22	Creational Patterns: Abstract Factory	1			1,2
23	Builder.	1			1,2
24	Factory Method: Intent, Also Known As, Motivation,	1			1,2
25	Applicability, Structure, Collaborations.	1			1,2
26	Prototype , singleton	2			1,2
27	Discussion on creational patterns	1			1,2
28	Structural pattern part –I: Adapter	1			1,2
29	Bridge	1			1,2
30	Composite.	1			1,2
31	Structural pattern part –II: Decorator	1			1,2
32	Facade	1			1,2
33	Flyweight, Proxy	1			1,2
34	Tutorial - 3 / Test - 3	1			3, 4
Number of classes		14		--	
Unit-IV					
35	Behavioural pattern part –I:	2			1,2
36	Chain of responsibility	1			1,2
37	Command	1			1,2
38	Interpreter	1			1,2
39	Iterator	1			1,2
40	Behavioural pattern part –II:	2			1,2
41	Mediator	1			1,2
42	Observer	1			1,2
43	State	1			1,2
44	Strategy	1			1,2
45	Template Method	2			1,2
46	Visitor	1			1,2
47	Discussion of Behavioural patterns.	2			1,2
48	Tutorial - 4 / Test - 4	1			3, 4

Number of classes		14			--
Unit-V					
49	What to expect from Design Patterns	1			1
50	A brief history	1			1
51	The pattern community	2			1,2
52	An invitation	1			1,2
53	A pattern thought	2			1,2
54	Revision	1			1,2
55	Tutorial - 5 / Test - 5	1			3, 4
Number of classes		9			-
Content beyond the syllabus					
56		1			1,2
Total Number of classes		59			--

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	Sk. Johny Basha	J. Nageswara Rao	Dr. Ch. Venkata Narayana	Dr. N. Ravi Shankar

	LESSON PLAN	
	Department: CSE Course: – Data Mining and Data Warehouse SEM: VII SECTION A	Program: B.Tech Academic Year:

1. Pre-requisites: DBMS, Probability and Statistics.

2. Course Educational Objectives (CEOs):

Students will be enabled to understand and implement classical models and algorithms in data warehousing and data mining. They will learn how to analyze the data, identify the problems, and choose the relevant models and algorithms to apply. They will further be able to assess the strengths and weaknesses of various methods and algorithms and to analyze their behaviour.

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

CO1: Outline the basic concepts of data warehouse & data mining.

CO2: Apply data pre-processing, generalization and data characterization techniques to provide suitable input for a range of data mining algorithms.
CO3: Analyze and provide solutions for real world problems using mining association techniques.
CO4: Examine the different classification & clustering techniques in data mining.
CO5 Apply data mining techniques to complex data objects like spatial data, multimedia data and web mining.

4. Course Articulation Matrix:

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

S=3=STRONGLY AGREE (100%), M=2= MODERATELY (66%), L=1=LIGHTLY (33%)

5. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No.of Classes		Date	DM
		As per the Schedule	Taken		
Unit-1 (INTRODUCTION TO DMDW)					
1	Syllabus overview - Introduction	1			1
2	Introduction-Data, Info. Importance of DMDW	1			1
3	Data warehouse briefing	1			1
4	Data warehouse Need	1			1,2
5	OLTP vs OLAP	1			1,2
6	Multidimensional data models	1			1,2
7	Multidimensional data models	1			1,2


8	Concept Hierarchy, OLAP Operations	1			3
9	DWH Architecture	1			1,2
10	Types of OLAP servers, Meta Data	1			1,2
11	DWH Implementation	1			1,2
12	Further Development, DWH to Data Mining	1			1,2
13	Tutorial -1	1			3
Number of classes		13			
Unit-II (PRE PROCESSING TECHNIQUES)					
14	Why we need pre-processing	1			1,2
15	Data Cleaning	1			1,2
16	Data Integration	1			1,2
17	Chi square Analysis	1			1,2
18	Data Transformation	1			1,2
19	Data Reduction	1			1,2
20	Discretization & Concept hierarchy generation	1			3
21	Data mining primitives	1			1,2
22	Graphical user interfaces	1			1,2
23	Tutorial -2	1			3
Number of classes		10			
Unit –III ASSOCIATION RULE MINING)					
24	Association rule mining	1			1,2
25	Apriori algorithm	3			1,2
26	FP growth algorithm	2			1,2
27	Single dimensional Boolean association from transitional database	1			1,2
28	Multi-level association rules from transitional databases	2			1,2
29	Tutorial - 3	1			3
Number of classes		10			
Unit – IV (CLASIFICATION AND CLUSTERING)					
30	Classification and Prediction	1			1,2
31	Issues and Decision Tree induction	2			1,2
32	Bayesian classification	2			1,2
33	Rule based Classification	1			1,2
34	Other Classification methods	1			1,2

35	Prediction	1			1,2
36	Classifier accuracy ,Cluster analysis	1			3
38	Decision tree induction algorithm	1			1,2
39	K-Nearest Neighbor algorithm	2			1,2
40	Hierarchical clustering algorithm	1			1,2
41	Outlier Analysis	1			1,2
42	Tutorial-4	1			3
		15			
Unit – V (DATA MINING APPLICATIONS)					
43	Multi-dimensional analysis and descriptive mining of complex data	1			1,2
44	Spatial databases	1			1,2
45	Spatial databases contd...	1			1,2
46	Multimedia databases	1			1,2
47	Time series and sequence of data	1			3
48	Text databases	1			1,2
49	World wide web	1			1,2
50	Applications and trends in data mining	1			1,2
51	Tutorial-5	1			3
Number of classes		9			
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				

	LESSON PLAN	Date:
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	SUBJECT NAME : Design Pattern BRANCH: CSE SEM & SECTION: VII& B	27/06/2017 To 04 /11/2017
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S186 – Design Pattern

Lecture: 3 Periods/week	Internal Marks	: 25
Tutorial : 1	External Marks	: 75
Credits : 3	External Examinations	: 3 Hrs

UNIT – I

Introduction: What is Design pattern?, Design patterns in Smalltalk MVC, Describing Design patterns, the catalog of Design patterns, Organizing the catalog, How design patterns solve design problems, How to select a design pattern, How to use a design pattern.

UNIT – II

A Case study: Designing a document editor: Design problems, Document structure, Formatting, Embellishing the user interface, supporting multiple look-and-feel standards, supporting multiple window systems, User operations spelling checking and Hyphenation summary

UNIT – III

Creational Patterns: Abstract factory, Builder, Factory method, Prototype singleton, Discussion on creational patterns.

Structural pattern part –I: Adapter, Bridge, and Composite.

Structural pattern part –II: Decorator, Acade, Flyweight, Proxy

UNIT – IV

Behavioral pattern part –I: Chain of responsibility, Command, Interpreter, and Iterator.

Behavioral pattern part –II: Mediator, Observer, State, Strategy, Template Method, Visitor, Discussion of Behavioral patterns.

UNIT – V

What to expect from Design patterns, a brief history, the pattern community, an invitation, and a pattern thought.

TEXTBOOKS

1. Erich Gamma, Design Patterns, Pearson Education.
2. Eric Freeman, Head First Design patterns, Oreilly-SPD.

REFERENCES

1. Mark Grand, Pattern's in JAVA Vol-I Wiley DreamTech.
2. Alan Aalloway, Design patterns Explained Pearson Education.
3. F. Buschmann & others, J Pattern oriented Software Architecture, John Wiley & Sons.
4. Mark Grand, Pattern's in JAVA Vol-II, Wiley DreamTech.

Pre requisite: Knowledge of Unified modelling language.

Course Educational Objectives:

CEO1: To understand that design patterns are standard solutions to common software design problems.

CE02: To be able to use systematic approach that focus and describe abstract systems of interaction between classes, objects, and communication flow.

Course Outcomes:

CO1: Identify the design patterns to solve object oriented design problems


CO2: Analyze and combine design patterns to work together in software design process

CO3: construct software systems and components using design pattern (catalog's)

CO4: implement creational patterns (Singleton, Factory, Abstract Factory), structural patterns for given applications

CO5: Evaluate design solutions by using behavioral patterns

	Lakireddy Bali Reddy College of Engineering
	Department of CSE

	Outcome based lesson plan	
	Academic year: 2016-17	Course: Design Pattern
	Programme: B.Tech	Unit No: 1 to 5
	Year & Sem: IV & VII	Section: B

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			
UNIT-I:						
1	What is Design pattern?	27/06/17		2	1	1,3,5,7
2	Design patterns in Smalltalk MVC	29/06/17		2	1	
3	Describing Design patterns	30/06/17		2	1	
4	The catalog of Design patterns	1/07/17		2	1	
5	Organizing the catalog	4/07/17		2	1	
6	How design patterns solve design problems	6/07/17		2	1	
7	How to select a design pattern,	7/07/17		2	1	

8	How to use a design pattern.	11/07/17		2	1,3	
9	Revision	12/07/17		2	1,3	
10	Assignment Test-1	13/07/17		2	1,3	
11	Tutorial Class-1	14/07/17		2	1	
UNIT-II						
12	Designing a document editor:	15/07/17		2	1	
13	Design problems	18/07/17		2	1	
14	Document structure	19/07/17		2	1	
15	Formatting, Embellishing the user interface	20/07/17		2	1	
				2	1	
16	Supporting multiple look-and-feel standards	21/07/17		2	1	
18	Supporting multiple window systems	22/07/17		2	1	
19	User operations spelling checking	25/07/17		2	1	
20	Hyphenation summary	27/07/17		2	1	1,3,5,7
21	Revision	28/07/17		2	1	
22	Assignment Test-2	29/07/17		2	1	
23	Tutorial Class-2	1/8/17		2	1	

UNIT –III:						
24	Creational Patterns: Abstract Factory	03/08/17		2	2	1,3,5,7
25	Builder.	04/08/17		2	2	
26	Factory Method: Intent, Also Known As, Motivation, Applicability, Structure, Collaborations.	5/08/17		2	2	
27	Prototype , singleton	8/08/17		2	2	

28	Discussion on creational patterns	10/08/17		2	2
29	Structural pattern part –I: Adapter	11/08/17		2	2
30	Bridge, Composite. Structural pattern part –II:	12/08/17		2	2
31	Decorator ,Acade, Flyweight, Proxy	17/08/17		2	2
32	Revision	18/08/17		2	2
33	Assignment Test-3/ Tutorial Class-3	19/08/17		2	2
MID-I EXAM [21/08/2017 TO 26/08/17]					
34	UNIT-IV				
35	Behavioral pattern part –I:	29/08/17		2	2
36	Chain of responsibility	31/08/17			
37	Command,	1/09/17			
38	Interpreter	2/09/17			
39	Iterator.	5/09/17		2	1,2
40	Behavioral pattern part –II:	7/09/17		2	1,2
41	Mediator	08/09/17		2	2
42	Observer	12/09/17		2	2
43	State	14/0917		2	2
44	Strategy	15/09/17		2	2
45	Template Method,	16/09/17		2	1,2
46	Visitor,	19/09/17		2	2

38

1,3,5,7

47	Discussion of Behavioral patterns.	21/09/17		2	2	
48	Revision	22/09/17		2	2	
49	Assignment Test-4	23/09/17		2	2	
50	Tutorial Class-4	26/09/17		2	1,2	
51	UNIT-V					
52	What to expect from Design patters,	03/10/17				
53	A brief history,	5/10/17		2	1,2	1,3,5,7
54	The pattern community,	6/10/17		2	1,2	
55	An invitation,	7/10/17		2	1,2	
56	A pattern thought.	10/10/17		2	1,2	
57	Revision	11/10/17		2	1,2	
58	Assignment Test-5	12/10/17		2	1,2	
59	Tutorial Class-5	13/10/17		2	1,2	
60	Revision-1	14/10/17		2	1,2	
61	Revision-1	17/10/17		2	1,2	
62	Quiz-1	19/10/17				
63	Revision-2	20/10/17		2	1,2	
64	Revision-2	21/10/17		2	1,2	
65	Quiz-2	24/10/17				
66	Revision-3	26/10/17		2	1,2	
67	Revision-3	27/10/17		2	1,2	
68	Quiz-3	28/10/17				
69	Revision-4	31/10/17		2	1,2	
70	Revision-5	2/11/17		2	1,2	
71	Revision-5	3/11/17		2	1,2	
72	Quiz-5	4/11/17		2	1,2	

II MID EXAMS[6/11/17 TO11/11/17]

Resources Used:

TEXT BOOK

1. Erich Gamma, Design Patterns, Pearson Education.

REFERENCES:

1. Mark Grand, Pattern's in JAVA Vol-I Wiley DreamTech.
2. Alan Aalloway, Design patterns Explained Pearson Education.
3. F. Buschmann & others, J Pattern oriented Software Architecture, John Wiley & Sons.
4. Mark Grand, Pattern's in JAVA Vol-II, Wiley DreamTech.

Assessment Summary:

Assessment Task	Weight age (Marks)	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
Assignments/ Quizzes/ Tutorials	05					
Surprise Tests	--					
Mid Exams	20					
Model Exams	--					

End Exam	75					
Total	100					

Mapping Course Outcomes with Programme Outcomes:

Course Code	Unit	Course Outcomes					Programme Outcomes										
		1	2	3	4	5	a	b	c	d	e	f	g	h	i	j	k
T214	I	×						×	×		×				×		×
	II		×					×	×		×				×		×
	III			×				×	×		×				×		×
	IV				×			×	×		×				×		×
	V					×		×	×		×				×		×

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	J.N.RAO			Dr. N. Ravi Shankar
Sign with Date				

LAKKIREDDY BALI REDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
(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., VII-Sem., CSE-B
ACADEMIC YEAR : 2017-18
COURSE NAME & CODE : Industrial Management (S270)
L-T-P STRUCTURE : 4-1-0
COURSE CREDITS : 3
COURSE INSTRUCTOR : Mr. K.Ravi Kiran Yasaswi
COURSE COORDINATOR : Mr. U.Rambabu

Course Educational Objectives:

1. To make students understand management, its principles, contribution to management, organization, and its basic issues and types
2. To make students the concept of plant location and its factors and plant layout and types, method of production and work study importance
3. To make students understand quality control uses and material management techniques
4. To make understand the concept of HRM and its functions
5. To make students understand PERT & CPM methods in effective project management and need of project crashing and its consequence on cost of project

Course Outcomes: After the completion of the course, students should be able to

CO1: Apply management principles to the various situations to be in a position to know which type of business organization structure suits

CO2: Able to make decision making relating to the problems in operations and production activities there by improving the productivity by proper utilization of input factors by designing the better working methods and with better work study techniques.

CO3: Able to improve quality of working through SQC techniques and also in a position to reduce the investment in materials through better control of inventory

CO4: Able to manage people in working environment with the practices of HRM across corporate businesses.

CO5: Able to use PERT & CPM techniques in effective project management to identify critical path and try to complete projects on time as well as reducing the project durations if need arises.

COURSE ARTICULATION MATRIX (Correlation between Cos & POs, PSOs)

Mapping CO with PO

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

Resources Used:

Text Book:

Management Science, TMH, Dr. Aryasri, 4th edition, 2009

References:

1. Kooniz and Waihrich- Essentials of Management, TMH, 8th edition, 2010
2. O.P.Khana, Industrial Engineering and Management.

COURSE DELIVERY PLAN (LESSON PLAN): Section-B**UNIT-I: Over view of Industrial Management**

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
1.	Over view of industrial management	1	29-06-2017		TLM1	
2.	Management Introduction and Definition,	1	30-06-2017		TLM1	
3.	Nature Importance of management	1	01-07-2017		TLM1	
4.	Functions	1	03-07-2017		TLM1	
5.	Taylor's scientific management theory	1	06-07-2017		TLM1	
6.	Fayal's principles of management	1	07-07-2017		TLM1	
7.	Contribution of Elton mayo	1	08-07-2017		TLM1	
8.	MASLOW theory	1	10-07-2017		TLM1	
9.	Tutorials and Herzberg theory of motivation	1	13-07-2017		TLM1	
10.	Douglas MC Gregor theory of motivation	1	14-07-2017		TLM1	
11.	basic concepts of Organization Basic concept	1	15-07-2017		TLM1	

12.	Authority and responsibility and Delegation of Authority and responsibility	1	17-07-2017		TLM1	
13.	Span of control	1	20-07-2017		TLM1	
14.	Departmentation and Decentralization	1	21-07-2017		TLM1	
15.	Orgn.structure :line organization structure	1	22-07-2017		TLM1	
16.	Line and staff organization & tutorial	1	24-07-2017		TLM1	
17.	Functional organization organization	1	27-07-2017		TLM1	
18.	Committee and Matrix	1	28-07-2017		TLM1	
No. of classes required to complete UNIT-I		18	No. of classes taken:			

UNIT II Operations Management

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
19.	UNIT II Operations Management	1	29-07-2017		TLM1	
20.	Plant location ,Factors influencing location	1	31-07-2017		TLM1	
21.	Principles and types of plant layouts	1	03-08-2017		TLM1	
22.	Methods of production : job batch and mass production	1	04-08-2017		TLM1	
23.	Work study	1	05-08-2017		TLM1	
24.	Basic procedure involved in method study	1	07-08-2017		TLM1	
25.	Work measurement Objectives and Importance	1	10-08-2017		TLM1	
26.	Basic procedure involved in work measurement	1	11-08-2017		TLM1	
27.	Problems on time study	1	12-08-2017		TLM1	
No. of classes required to complete UNIT-II		09	No. of classes taken:			

UNIT-III : Quality and materials management

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
28.	UNIT III quality and materials management	1	14-08-2017		TLM1	
29.	Statistical quality control Meaning	1	17-08-2017		TLM1	
30.	Variables and attributes	1	18-08-2017		TLM1	
31.	X chart problems and R Chart problems	1	19-08-2017		TLM1	
32.	I MID EXAM	1	21-08-2017			
33.	I MID EXAM	1	24-08-2017			
34.	I MID EXAM	1	26-08-2017			
35.	C Chart problems And P Chart problems	1	28-08-2017		TLM1	
36.	C Chart problems AND P Chart problems	1	31-08-2017		TLM1	
37.	Acceptance sampling &	1	01-09-2017		TLM1	

	Sampling plans					
38.	Deming's contribution to quality	1	04-09-2017		TLM1	
39.	Materials management : Objectives of Materials management	1	07-09-2017		TLM1	
40.	Need for inventory control	1	08-09-2017		TLM1	
41.	Purchase procedure, Store records	1	09-09-2017		TLM1	
42.	Methods of inventory control	1	11-09-2017		TLM1	
43.	Store records	1	14-09-2017		TLM1	
44.	ABC analysis & EOQ analysis EOQ Problems	1	15-09-2017		TLM1	
45.	Stock levels & Problems on stock levels	1	16-09-2017		TLM1	
46.	Tutorial	1	18-09-2017			
No. of classes required to complete UNIT-III		15	No. of classes taken:			

UNIT-IV : Human Resource management

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
47.	UNIT IV Human Resource management	1	21-09-2017		TLM1	
48.	Concepts of HRM Basic functions of HR manager	1	22-09-2017		TLM1	
49.	Basic functions of HR manager	1	23-09-2017		TLM1	
50.	Man power planning	1	25-09-2017		TLM1	
51.	Recruitment	1	28-09-2017		TLM1	
52.	Selection	1	29-09-2017		TLM1	
53.	Training and development	1	05-10-2017		TLM1	
54.	Placement	1	06-10-2017		TLM1	
55.	Wage and salary administration	1	07-10-2017		TLM1	

56.	Promotion Transfer & Separation	1	09-10-2017		TLM1	
57.	Performance Appraisal	1	12-10-2017		TLM1	
58.	Job evaluation	1	13-10-2017		TLM1	
59.	Merit raring	1	14-10-2017		TLM1	
60.	Tutorial	1	16-10-2017		TLM1	
No. of classes required to complete UNIT-IV		14	No. of classes taken:			

UNIT-V : Project management

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
61.	UNIT V project management	1	19-10-2017		TLM1	
62.	Early techniques in project management	1	20-10-2017		TLM1	
63.	Network analysis	1	21-10-2017		TLM1	
64.	Rules for drawing of networks	1	23-10-2017		TLM1	
65.	Critical path method	1	26-10-2017		TLM1	
66.	Identifying critical path	1	27-10-2017		TLM1	
67.	Problems on CPM	1	28-10-2017		TLM1	
68.	Problems on CPM	1	30-10-2017		TLM1	
69.	Problems on CPM	1	02-11-2017		TLM1	
70.	Programme evaluation and review technique (PERT)	1	03-11-2017		TLM1	
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	HOD Sign Weekly
71.	Corporate social responsibility	1	03-11-17		TLM1	

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	19-06-2017	05-08-2017	7 W
I Mid Examinations	07-08-2017	12-08-2017	1 W
II Phase of Instructions	16-08-2017	14-10-2017	9 W
II Mid Examinations	16-10-2017	21-10-2017	1 W
Preparation and Practicals	23-10-2017	02-11-2017	2 W
Semester End Examinations	03-11-2017	18-11-2017	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

K.Ravi Kiran Yasaswi
Course Instructor

U.Rambabu
Course Coordinator

U.Rambabu
Module Coordinator

Prof. A.Adishesha Reddy.
HOD

	LESSON PLAN	
	Department: CSE Course : -E-COMMERCE(S205) SEM: VII-SEC B	Program: B.Tech Academic Year : 2017-18

Pre-requisites: Knowledge of security concepts and also networking.

3. Course Educational Objectives (CEOs):

CEO1: Understanding of a broad range of Internet tools.

CEO2: Business models and applications and Benefits and risks

2. Course Outcomes (COs):

At the end of the course, the student will be able to

CO1: Evaluate electronic commerce frame work, features and functions of E-commerce

CO2: Analyze Business model for e-commerce, Intra organizational commerce and supply chain management

CO3: Analyze modes of electronic commerce and Identify approaches for secure electronic commerce

CO4: Categorize electronic payment systems and evaluate security of e-commerce

CO5: Explore various approaches and technologies used in business over the internet

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
S205	CO1		1				1									
	CO2						1								3	
	CO3						3									
	CO4						3									1
	CO5						2									2
		1 = Slight (Low)				2 = Moderate (Medium)				3-Substantial(High)						

4. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No.of Classes		Date	DM
		As per the Schedule	Taken		
Unit-1					
1	Overview of Electronic Commerce	2			1
2	Electronic Commerce-Frame work	1			1
3	Anatomy of E-Commerce applications	1			1
4	Features of e-commerce	1			1
5	Functions of e-commerce	1			1
6	E-commerce practices	1			1
7	Traditional Practices	1			1
8	scope and limitations of e-commerce	1			1,3
9	Overview of Electronic Commerce	1			1,3
10	Electronic Commerce-Frame work	1			1,3
11	Anatomy of E-Commerce applications	1			1
12	Revision	1			1
13	Assignment Test-1	1			1,3
14	Tutorial Class-1	1			1,3

Number of classes	15			
Unit-II				
15	Business Model for E- Commerce	1		1,3
16	B2B, B2C, C2C, C2B	2		1,3
	Inter Organizational Commerce - EDI, EDI Implementation	1		1,3
	Value added networks	1		1
	Value added networks	1		1
	Intra Organizational Commerce	1		1
	Automation	1		1
	Customization and internal Commerce	1		1
	Supply chain Management.	1		1,3
	Revision	1		1,3
	Assignment Test-2	1		1
	Tutorial Class-2	1		1
	Number of classes	13		
Unit-III				
	Modes of Electronic Commerce: Electronic Data Interchange	1		1,3
	Electronic Commerce with	1		1,3
	Commerce Net Advocacy, web	1		1,3
	Approaches to Safe Electronic	1		1
	Secure Transactions, Secure Electronic	2		2
	Secure Electronic Transaction (SET)	2		3
	Certificates for authentication	1		1,3
	Web Servers and Enterprise	1		1
	Revision	1		2
	Assignment Test-3/ Tutorial Class-3	1		1,3
	Total Number of classes	12		
MID-I EXAM [21/08/2017 TO 28/08/17]				
Unit-IV				
	Electronic payment systems	1		1,2
	Digital Token-Based	1		1,2
	Smart Cards, Credit Cards	1		2
	Risks in Electronic Payment systems	1		2
	Security of e-commerce	1		2
	Setting up Internet security	1		2
	Security of e-commerce	1		1,2

	Encryption	1		2
	Digital signature	1		2
	Digital signature	1		2
	Methods of Digital Signature	1		2
	Other Security Measures	1		1,2
	Discussion on Security Measures.	1		1,3
	Revision	1		1,3
	Assignment Test-4	1		1,3
	Tutorial Class-4	1		1
	Total Number of classes	16		

Unit-V

	Internet Resources for Commerce:	1		1,2
	Internet Applications for Commerce,	2		1,2
	Searching the Internet. Advertising on	1		2
	Advertising on the Web, Marketing	2		2
	Approaches and Technologies: EP and	2		2
	Revision	1		2
	Assignment Test-5	1		1,2
	Tutorial Class-5	1		2
	Revision-1	1		2
	Revision-1	1		2
	Quiz-1	1		2
	Revision-2	1		1,2
	Revision-2	1		1,3
	Quiz-2	1		1,3
	Revision-3	1		1,3
	Revision-3	1		1
	Quiz-3	1		2
	Revision-4	1		1,2
	Revision-5	1		1,3
	Revision-5	1		1,3
	Quiz-5	1		1,3
	Total Number of classes	24		

II MID EXAMS[6/11/17 TO11/11/17]


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	L KRANTHI			Dr N RAVI

	KUMAR			SHANKAR
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PRINCIPAL

	LESSON PLAN	
	Department: CSE Course : -E-COMMERCE(S205) SEM: VII-SEC A	Program: B.Tech Academic Year : 2017-18

Pre-requisites: Knowledge of security concepts and also networking.

5. Course Educational Objectives (CEOs):

CEO1: Understanding of a broad range of Internet tools.

CEO2: Business models and applications and Benefits and risks

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

:

CO1: Evaluate electronic commerce frame work, features and functions of E-commerce

CO2: Analyze Business model for e-commerce, Intra organizational commerce and supply chain management

CO3: Analyze modes of electronic commerce and Identify approaches for secure electronic commerce

CO4: Categorize electronic payment systems and evaluate security of e-commerce

CO5: Explore various approaches and technologies used in business over the internet

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	
S205	CO1		1				1										
	CO2						1								3		
	CO3						3										
	CO4						3										1
	CO5						2										2
		1 = Slight (Low)				2 = Moderate (Medium)				3-Substantial(High)							

6. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No.of Classes	Date	DM
------	---------------------	---------------	------	----

		As per the Schedule	Taken		
Unit-1					
1	Overview of Electronic Commerce	2	2	27/06/17	1
2	Electronic Commerce-Frame work	2	2	29/06/17	1
3	Anatomy of E-Commerce applications	2	2	30/06/17	1
4	Features of e-commerce	2	2	1/07/17	1
5	Functions of e-commerce	2	1	4/07/17	1
6	E-commerce practices	2	2	6/07/17	1
7	Traditional Practices	2	2	7/07/17	1
8	scope and limitations of e-commerce	2	2	11/07/17	1,3
9	Overview of Electronic Commerce	2	2	12/07/17	1,3
10	Electronic Commerce-Frame work	2	1	13/07/17	1,3
11	Anatomy of E-Commerce applications	2	2	12/07/17	1
12	Revision	1	1	13/07/17	1
13	Assignment Test-1	1	1	13/07/17	1,3
14	Tutorial Class-1	1	1	13/07/17	1,3
Number of classes		25	23		
Unit-II					
15	Business Model for E- Commerce	2	2	15/07/17	1,3
16	B2B, B2C, C2C, C2B	2	2	18/07/17	1,3
	Inter Organizational Commerce - EDI, EDI Implementation	2	2	19/07/17	1,3
	Value added networks	2	2	20/07/17	1
	Value added networks	2	2	20/07/17	1
	Intra Organizational Commerce - work Flow	2	2	21/07/17	1
	Automation	2	2	22/07/17	1
	Customization and internal Commerce	2	1	25/07/17	1
	Supply chain Management.	2	2	27/07/17	1,3
	Revision	2	1	28/07/17	1,3
	Assignment Test-2	2	2	29/07/17	1
	Tutorial Class-2	1	1	1/8/17	1
Number of classes		23	22		
Unit-III					
77	Modes of Electronic Commerce: Electronic Data Interchange	2	2	03/08/17	1,3

78	Electronic Commerce with	2	2	04/08/17	1,3
77	Commerce Net Advocacy, web	2	2	5/08/17	1,3
	Approaches to Safe Electronic	2	2	8/08/17	1
	Secure Transactions, Secure Electronic	2	2	10/08/17	2
	Secure Electronic Transaction (SET)	2	1	11/08/17	3
	Certificates for authentication	2	1	12/08/17	1,3
	Web Servers and Enterprise	2	2	17/08/17	1
	Revision	2	2	18/08/17	2
	Assignment Test-3/ Tutorial Class-3	2	2	19/08/17	1,3
	Total Number of classes	20	18		
MID-I EXAM [21/08/2017 TO 28/08/17]					
Unit-IV					
	Electronic payment systems	2	2	29/08/17	1,2
	Digital Token-Based	2	2	31/08/17	1,2
	Smart Cards, Credit Cards	2	2	1/09/17	2
	Risks in Electronic Payment systems	2	2	2/09/17	2
	Security of e-commerce	2	2	5/09/17	2
	Setting up Internet security	2	2	7/09/17	2
	Security of e-commerce	2	2	08/09/17	1,2
	Encryption	2	1	12/09/17	2
	Digital signature	2	2	14/09/17	2
	Digital signature	2	2	15/09/17	2
	Methods of Digital Signature	2	2	16/09/17	2
	Other Security Measures	2	2	19/09/17	1,2
	Discussion on Security Measures.	2	2	21/09/17	1,3
	Revision	2	1	22/09/17	1,3
	Assignment Test-4	2	1	23/09/17	1,3
	Tutorial Class-4	2	2	26/09/17	1
	Total Number of classes	32	30		
Unit-V					
	Internet Resources for Commerce:	2	2	03/10/17	1,2
	Internet Applications for Commerce,	1	1	5/10/17	1,2
	Searching the Internet. Advertising on	2	2	6/10/17	2
	Advertising on the Web, Marketing	2	2	7/10/17	2
	Approaches and Technologies: EP and	2	2	10/10/17	2
	Revision	2	2	11/10/17	2
	Assignment Test-5	2	2	12/10/17	1,2
	Tutorial Class-5	2	2	13/10/17	2
	Revision-1	1	1	14/10/17	2
	Revision-1	2	2	17/10/17	2
	Quiz-1	2	2	19/10/17	2
	Revision-2	2	2	20/10/17	1,2
	Revision-2	2	2	21/10/17	1,3


	Quiz-2	2	2	24/10/17	1,3
	Revision-3	1	1	26/10/17	1,3
	Revision-3	2	2	27/10/17	1
	Quiz-3	1	2	28/10/17	2
	Revision-4	2	2	31/10/17	1,2
	Revision-5	2	2	2/11/17	1,3
	Revision-5	1	1	3/11/17	1,3
	Quiz-5	1	1	4/11/17	1,3
	Total Number of classes	36	32		
II MID EXAMS[6/11/17 TO11/11/17]					

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	TNVS PRAVEEN			Dr N RAVI SHANKAR

PRINCIPAL

	LESSON PLAN	
	Department: CSE Course: – Mobile Computing Lab SEM: VII	Program: B.Tech Academic Year: 2017-18

1. Pre-requisites: Knowledge in Java and XML

2. Course Educational Objectives (CEOs):

1. Hardware devices and interacting with these devices.
2. Mobile operating systems available.
3. Programming applications on a mobile system.
4. Data and knowledge management.

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

CO 1 Create simple mobile applications using J2ME for low constraint devices

CO 2 Design and Develop simple android applications for smart phones

CO 3 Deployment of applications in stores (ex: google play store)

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
L165	CO1			1	1	3								2		
	CO2			2	2	3								2		
	CO3			2	2	3								2		
		1 = Slight (Low)				2 = Moderate (Medium)				3-Substantial(High)						

5. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No.of Classes		Date	DM
		As per the	Taken		
1	1. Write a J2ME program to show how to change the font size and color.	1			5,6
2	Write a J2ME program which creates the following kind of menu. * cut * copy * past * delete * select all * unselect all	1			5,6
3	Create a J2ME menu which has the following options (Event Handling): • cut - can be on/off • copy - can be on/off • paste - can be on/off • delete - can be on/off • select all - put all 4 options on • unselect all - put all	1			5,6

4	<p>Create a MIDP application, which draws a bar graph to the display. Data values can be given at int[] array. You can enter four data (integer) values to the input text field.</p>	1			5,6
5	<p>Create an MIDP application which examine, that a phone number, which a user has entered is in the given format (Input checking):</p> <p>* Area code should be one of the following: 040, 041, 050, 0400, 044</p> <p>* There should 6-8 numbers in telephone number (+ area code)</p>	1			5,6
6	<p>Write a sample program to show how to make a SOCKET Connection from J2ME Phone. This J2ME sample program shows how to how to make a SOCKET Connection from a J2ME Phone. Many a times there is a need to connect backend HTTP server from the J2ME application. Show how to make a SOCKET connection from the phone to port 80</p>	1			5,6
7	<p>Login to HTTP Server from a J2ME Program. This J2ME sample program shows how to display a simple LOGIN SCREEN on the J2ME phone and how to authenticate to a HTTP server. Many J2ME applications for security reasons require the authentication of the user. This free J2ME sample program, shows how a J2ME application can do authentication to the backend server. Note: Use Apache Tomcat Server as Web Server and MySQL as Database Server.</p>	1			5,6

8	<p>The following should be carried out with respect to the given set of application domains: (Assume that the Server is connected to the well-maintained database of the given domain. Mobile Client is to be connected to the Server and fetch the required data value/information)</p> <ul style="list-style-type: none"> • Students Marks Enquiry • Town/City Movie Enquiry • Railway/Road/Air (For example PNR) Enquiry/Status • Sports (say, Cricket) Update • Town/City Weather Update • Public Exams (say Intermediate or SSC)/ Entrance (Say EAMCET) Results <p>Enquiry Divide Student into Batches and suggest them to design database according to their domains and render information according the requests.</p>	1			5,6
9	Write an Android application program that displays Hello World using Terminal.	1			5,6
10	Write an Android application program that displays Hello World using Eclipse.	1			5,6
11	Write an Android application program that accepts a name from the user and displays the hello name to the user in response as output using Eclipse.	1			5,6
12	<p>Write an Android application program that demonstrates the following:</p> <ul style="list-style-type: none"> (i) Linear Layout (ii) Relative Layout (iii) Table Layout (iv) Grid View layout 	1			5,6


13	Write an Android application program that converts the temperature in Celsius to Fahrenheit.	1			5,6
14	Write an Android application program that demonstrates intent in mobile application development	1			5,6
Number of classes		14			
Total Number of classes		14			

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				

PRINCIPAL

	LESSON PLAN	
	Department: CSE Course: – Mobile Computing SEM: VII	Program: B.Tech Academic Year: 2017-18

1. Pre-requisites: Knowledge in Computer Networks

2. Course Educational Objectives (CEOs):

Various types of MAC protocols and Routing protocols and architectures over a network. To understand the issues involved in mobile communication system design and analysis. Various Hybrid wireless network architecture and issues over them. Recent advances in wireless networks

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

CO1: Analyze design issues of MAC in mobile networks

CO2: Explore the functioning of Network and Transport layers in mobile networks

CO3: Analyze the routing protocols in MANET'S

CO4: Identify various components of android application development

CO5: Evaluate various VOIP protocols

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	
T170	CO1																
	CO2			1		1											
	CO3			2		2											
	CO4			2	1												
	CO5			2	2	3											
		1 = Slight (Low)				2 = Moderate (Medium)				3-Substantial(High)							

5. Course Delivery Plan:

S.NO	TOPIC TO BE COVERED	No.of Classes		Date	DM
		As per the	Taken		
Unit-1 Introduction to Mobile Computing, GSM, (Wireless) Medium Access Control					
1	Introduction to MC, novel applications, limitations, and architecture.	1			1
2	System architecture	1			1,2
3	Mobile services, Protocols	1			1
4	Localization and calling	1			1,2
5	Handover	1			1,2

6	Security, and New data services	1			1,2
7	Motivation for a specialized MAC	1			1,2
8	Motivation for a specialized MAC (Continued.....)	1			1,2
9	SDMA	1			1,2
10	FDMA	1			1,2
11	TDMA	1			1,2
12	CDMA	1			1,2
13	Tutorial-1	1			3
14	Class Test-1	1			4
Number of classes		14			
Unit-II Mobile Network Layer and Transport Layer					
15	Mobile IP Introduction	1			1,2
16	IP packet delivery	1			1,2
17	Agent advertisement and discovery	1			1,2
18	Registration, Tunnelling	1			1,2
19	Encapsulation, Optimizations	1			1,2
20	Traditional TCP, Indirect TCP	1			1,2
21	Snooping TCP, Mobile TCP	1			1,2
22	Fast retransmit/fast recovery	1			1,2
23	Transmission/time-out freezing	1			1,2
24	Selective retransmission, Transaction oriented TCP	1			1,2
25	Tutorial-2	1			3
26	Class Test-2	1			4
Number of classes		12			
Unit –III Mobile Ad hoc Networks and Ad Hoc Wireless networks					
27	Overview, Properties of a MANET, spectrum of MANET applications	1			1,2
28	routing and various routing algorithms	1			1,2
29	routing and various routing algorithms	1			1,2
30	routing and various routing algorithms	1			1,2
31	security in MANETs	1			1,2
32	Introduction, Issues in Ad Hoc Wireless networks	1			1,2

33	Routing Protocols: Table Driven: DSDV, WRP	1			1,2
34	Routing Protocols: On Demand: AODV, DSR.	1			1,2
35	Tutorial-3	1			1,2
36	Class Test-3	1			1,2
Number of classes		10			
Unit – IV Introduction to Android and Application Structure					
37	What is Android? Setting up development environment	1			1,2
38	Dalvik Virtual Machine & .apk file extension,	1			1,2
39	Activities	1			1,2
40	Services	1			1,2
41	Broadcast Receivers	1			1,2
42	Content providers	1			1,2
43	Views & notifications,	1			1,2
44	Intents & Intent Filters	1			1,2
45	Android API levels	1			1,2
46	AndroidManifest.xml, uses-permission & uses-sdk	1			1,2
47	Resources & R.java, Assets, Layouts & Draw able Resources,	1			1,2
48	Activities and Activity lifecycle	1			1,2
49	First sample Application	1			1,2
50	Tutorial-4	1			3
51	Class Test-4	1			4
Number of classes		15			
Unit – V Protocols and Tools					
52	VOIP (what is VoIP? VoIP issues, VoIP architectures, VoIP protocol	1			1,2
53	Wireless Application Protocol-WAP	1			1,2
54	Bluetooth	1			1,2
55	IOS: What is ios? history	1			1,2
56	IOS: features, applications	1			1,2
57	Tutorial-5	1			3
58	Class Test-5	1			4
Number of classes		7			
Total Number of classes		58			

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				

PRINCIPAL