

Department of Information Science and Engineering

SEMESTER : V11 A
BRANCH : CSE
SUBJECT : Object Oriented Modeling and Design
SUBJECT CODE : 10CS71
NO OF HRS/WK : 5

NAME OF THE FACULTY : Mr.Manoj Challa
DATE OF COMMENCEMENT : 28th July 2016
DATE OF CLOSING : 9th Nov 2016
CLASS STRENGTH : 51
TOTAL HRS : 52

Session No	Chapter no (No of hrs planed for the chapter)	Date	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1.	1/1	28.07.16	UNIT – 1 Introduction, Modeling Concepts, class Modeling:	PPT, Board, chalk, duster	
2.	2/1	29.07.16	What is Object Orientation? What is OO development?	"	
3.	3/1	30.07.16	OO themes, Evidence for usefulness of OO development, OO modeling history.	"	
4.	4/1	01.08.16	Modeling as Design Technique: Modeling; abstraction; The three models. Class Modeling.	"	ASSIGNMENT-1
5.	5/1	02.08.16	Class Modeling: Object and class concepts.	"	Spot Quiz/ Concept Test
6.	6/1	04.08.16	Link and associations concepts,	"	Spot Quiz/ Concept Test
7.	7/1	05.08.16	Generalization and inheritance, A sample class model.	"	Class Work
8.	8/1	06.08.16	Navigation of class models; Practical tips.	"	Concept Test
9.	9/1	08.08.16	Revision , Solving Exercise problems	"	
10.	1/2	09.08.16	Unit-2:Advanced Class Modeling, State Modeling: Advanced object and class concepts: Association ends; N-ary associations,	"	
11.	2/2	11.08.16	Aggregation: (Aggregation Vs	"	

			association Vs Composition), Propagation of operation		
12.	3/2	12.08.16	Abstract classes: Multiple inheritance.	"	
13.	4/2	16.08.16	Class Modeling (Case Study)	"	Class Work
14.	5/2	17.08.16	Metadata, Reification, Constraints, Derived data, Packages; Practical tips.	"	ASSIGNMENT-2
15.	6/2	18.08.16	State Modeling: Events, States, Transitions and Conditions.	"	
16.	7/2	20.08.16	State diagrams. Examples	"	
17.	8/2	22.08.16	State diagram behavior; Practical tips.	"	
18.	9/2	23.08.16	Revision , Solving Exercise problems	"	
19.	1/3	24.08.16	Unit-3: Advanced State Modeling, Interaction Modeling: Advanced State Modeling: Nested state diagrams, Nested states, Signal generalization.	"	
20.	2/3	25.08.16	Concurrency	"	
21.	3/3	27.08.16	A sample state model, Relation of class and state models, Practical tips.	"	ASSIGNMENT-3
22.	4/3	29.08.16	Interaction Modeling: Use case models, Use case	"	
23.	5/3	30.10.16	Use case diagrams. Examples	"	
24.	6/3	31.10.16	Sequence models. Examples	"	
25.	7/3	01.09.16	Activity Models; Special constructs for activity models.	"	
26.	8/3	09.09.16	Quiz 1	"	
27.	1/5	10.09.16	Unit-5: Application Analysis, System Design: Application Analysis: Application interaction model.	"	
28.	2/5	13.09.16	Application class model.	"	
29.	3/5	14.09.16	Application state model , Adding operations.	"	
30.	4/5	15.09.16	Adding operations.	"	ASSIGNMENT-4
31.	5/5	17.09.16	Overview of system design: Estimating performance, Making a reuse plan;	"	
32.	6/5	19.09.16	Breaking a system in to sub-systems, Identifying concurrency.	"	
33.	7/5	20.09.16	Allocation of sub-systems; Management of data	"	

			storage, Handling global resources.		
34.	1/5	21.09.16	Choosing a software control strategy, Handling boundary conditions, Setting the trade-off priorities.	"	
35.	2/5	22.09.16	Common architectural styles, Architecture of the ATM system as the example.	"	
36.	3/6	24.09.16	Unit-6: Class Design, Implementation Modeling, Legacy Systems: Class Design: Overview of class design, Bridging the gap, Realizing use cases.	"	
37.	4/6	26.09.16	Designing algorithms, Recurring downwards. Refactoring, Design optimization.	"	ASSIGNMENT-5
38.	5/6	27.09.16	Reification of behavior, Adjustment of inheritance, Organizing a class design ,ATM example.	"	
39.	6/6	28.09.16	implementation Modeling: Overview of implementation; Fine-tuning classes, Generalizations, Realizing ,Testing	"	
40.	7/6	29.09.16	Legacy Systems: Reverse engineering; Building the class models	"	
41.	1/6	04.10.16	Building the interaction model; Building the state model; Reverse engineering tips; Wrapping; Maintenance. Revision	"	
42.	2/7	05.10.16	Unit-7: Design Patterns – 1: What is a pattern and what makes a pattern? Pattern categories.	"	
43.	3/7	06.10.16	Relationships between patterns, Pattern description.	"	
44.	4/7	07.10.16	Patterns and software Architecture.	"	ASSIGNMENT-6
45.	5/7	08.10.16	Forwarder-Receiver.	"	
46.	6/7	14.10.16	Client-Dispatcher-Server	"	
47.	7/7	17.10.16	Publisher-Subscriber	"	
48.	1/7	18.10.16	Revision	"	
49.	2/8	19.10.16	Unit-8: Design Patterns – 2, Idioms: Management Patterns: Command processor,		
50.	3/8	20.10.16	Command Processor (Contd)	"	
51.	4/8	22.10.16	View Handler	"	

52.	5/8	27.10.16	Idioms: Introduction, What can idioms provides? Idioms and style.	"	ASSIGNMENT-7
53.	6/8	28.10.16	Where to find idioms, Counted Pointer example.	"	
54.	7/8	02.11.16	Quiz-2	"	
55.	8/8	04.11.16	Student Presentation - Beyond the syllabus topic	"	
56.	9/4	05.11.16	Unit 4 : Process Overview, System Conception, Domain Analysis Process Overview: Development stages, Development life cycle	"	
57.	1/4	07.11.16	System Conception: Devising a system concept; Elaborating a concept; Preparing a problem statement.	"	
58.	2/4	07.11.16	Domain Analysis: Overview of analysis	"	ASSIGNMENT-8
59.	3/4	08.11.16	Domain class model	"	
60.	4/4	08.11.16	Domain state model	"	
61.	5/4	09.11.16	Domain interaction model, Iterating the analysis	"	
62.	6/4	09.11.16	Revision	"	

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 26
T2	Class # 27 - 48
IMP	Class # 49 - 62

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Leland.L.Beck: System Software,	3 rd Edition, Pearson Education, 1997.	978-81-317-6460-2
Text Book	TB2	John.R.Levine, Tony Mason and Doug Brown: Lex and Yacc,	O'Reilly, SPD, 1998.	1565920007, 9781565920002
References	RB1	D.M.Dhamdhare: System Programming and Operating Systems	2 nd Edition, Tata McGraw - Hill, 1999.	1449335942

Signature of faculty

Signature of HOD

Signature of Principal

Department of Information Science and Engineering

SEMESTER : V11 B	NAME OF THE FACULTY : Mr.Manoj Challa
BRANCH : ISE	DATE OF COMMENCEMENT : 28 th July 2016
SUBJECT : Object Oriented Modeling and Design	DATE OF CLOSING : 9 th Nov 2016
SUBJECT CODE : 10CS71	CLASS STRENGTH : 51
NO OF HRS/WK : 5	TOTAL HRS : 52

Session No	Chapter no (No of hrs planed for the chapter)	Date	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
63.	1/1	28.07.16	UNIT – 1 Introduction, Modeling Concepts, class Modeling:	PPT, Board, chalk, duster	
64.	2/1	29.07.16	What is Object Orientation? What is OO development?	"	
65.	3/1	01.08.16	OO themes, Evidence for usefulness of OO development, OO modeling history.	"	
66.	4/1	02.08.16	Modeling as Design Technique: Modeling; abstraction; The three models. Class Modeling.	"	ASSIGNMENT-1
67.	5/1	03.08.16	Class Modeling: Object and class concepts.	"	Spot Quiz/ Concept Test
68.	6/1	04.08.16	Link and associations concepts,	"	Spot Quiz/ Concept Test
69.	7/1	05.08.16	Generalization and inheritance, A sample class model.	"	Class Work
70.	8/1	08.08.16	Navigation of class models; Practical tips.	"	Concept Test
71.	9/1	09.08.16	Revision , Solving Exercise problems	"	
72.	1/2	10.08.16	Unit-2:Advanced Class Modeling, State Modeling: Advanced object and class concepts: Association ends; N-ary associations,	"	

73.	2/2	11.08.16	Aggregation: (Aggregation Vs association Vs Composition), Propagation of operation	“	
74.	3/2	12.08.16	Abstract classes: Multiple inheritance.	”	
75.	4/2	17.08.16	Class Modeling (Case Study)	”	Class Work
76.	5/2	18.08.16	Metadata, Reification, Constraints, Derived data, Packages; Practical tips.	”	ASSIGNMENT-2
77.	6/2	19.08.16	State Modeling: Events, States, Transitions and Conditions.	”	
78.	7/2	20.08.16	State diagrams. Examples	”	
79.	8/2	22.08.16	State diagram behavior; Practical tips.	”	
80.	9/2	24.08.16	Revision , Solving Exercise problems	”	
81.	1/3	25.08.16	Unit-3: Advanced State Modeling, Interaction Modeling: Advanced State Modeling: Nested state diagrams, Nested states, Signal generalization.	”	
82.	2/3	26.08.16	Concurrency	”	
83.	3/3	27.08.16	A sample state model, Relation of class and state models, Practical tips.	”	ASSIGNMENT-3
84.	4/3	29.08.16	Interaction Modeling: Use case models, Use case	”	
85.	5/3	31.08.16	Use case diagrams. Examples	”	
86.	6/3	01.09.16	Sequence models. Examples	”	
87.	7/3	02.09.16	Activity Models; Special constructs for activity models.	”	
88.	8/3	09.09.16	Quiz 1	”	
89.	1/5	10.09.16	Unit-5: Application Analysis, System Design: Application Analysis: Application interaction model.	”	
90.	2/5	14.09.16	Application class model.	”	
91.	3/5	15.09.16	Application state model , Adding operations.	”	
92.	4/5	16.09.16	Adding operations.	”	ASSIGNMENT-4
93.	5/5	17.09.16	Overview of system design: Estimating performance, Making a reuse plan;	”	
94.	6/5	19.09.16	Breaking a system in to sub-systems, Identifying concurrency.	”	
95.	7/5	21.09.16	Allocation of sub-systems;	”	

			Management of data storage, Handling global resources.		
96.	1/5	22.09.16	Choosing a software control strategy, Handling boundary conditions, Setting the trade-off priorities.	"	
97.	2/5	23.09.16	Common architectural styles, Architecture of the ATM system as the example.	"	
98.	3/6	24.09.16	Unit-6: Class Design, Implementation Modeling, Legacy Systems: Class Design: Overview of class design, Bridging the gap, Realizing use cases.	"	
99.	4/6	26.09.16	Designing algorithms, Recurring downwards. Refactoring, Design optimization.	"	ASSIGNMENT-5
100.	5/6	28.09.16	Reification of behavior, Adjustment of inheritance, Organizing a class design ,ATM example.	"	
101.	6/6	29.09.16	implementation Modeling: Overview of implementation; Fine-tuning classes, Generalizations, Realizing ,Testing	"	
102.	7/6	03.10.16	Legacy Systems: Reverse engineering; Building the class models	"	
103.	1/6	04.10.16	Building the interaction model; Building the state model; Reverse engineering tips; Wrapping; Maintenance. Revision	"	
104.	2/7	05.10.16	Unit-7: Design Patterns – 1: What is a pattern and what makes a pattern? Pattern categories.	"	
105.	3/7	07.10.16	Relationships between patterns, Pattern description.	"	
106.	4/7	07.10.16	Patterns and software Architecture.	"	ASSIGNMENT-6
107.	5/7	08.10.16	Forwarder-Receiver.	"	
108.	6/7	13.10.16	Client-Dispatcher-Server	"	
109.	7/7	14.10.16	Publisher-Subscriber	"	
110.	1/7	17.10.16	Revision	"	
111.	2/8	19.10.16	Unit-8: Design Patterns – 2, Idioms: Management Patterns: Command processor,		
112.	3/8	20.10.16	Command Processor (Contd)	"	

113.	4/8	21.10.16	View Handler	"	
114.	5/8	22.10.16	Idioms: Introduction, What can idioms provides? Idioms and style.	"	ASSIGNMENT-7
115.	6/8	27.10.16	Where to find idioms, Counted Pointer example.	"	
116.	7/8	02.11.16	Quiz-2	"	
117.	8/8	03.11.16	Student Presentation - Beyond the syllabus topic	"	
118.	9/4	04.11.16	Unit 4 : Process Overview, System Conception, Domain Analysis Process Overview: Development stages, Development life cycle	"	
119.	1/4	07.11.16	System Conception: Devising a system concept; Elaborating a concept; Preparing a problem statement.	"	
120.	2/4	07.11.16	Domain Analysis: Overview of analysis	"	ASSIGNMENT-8
121.	3/4	08.11.16	Domain class model	"	
122.	4/4	08.11.16	Domain state model	"	
123.	5/4	09.11.16	Domain interaction model, Iterating the analysis	"	
124.	6/4	09.11.16	Revision	"	

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 26
T2	Class # 27 – 48
IMP	Class # 49 – 62

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Leland.L.Beck: System Software,	3 rd Edition, Pearson Education, 1997.	978-81-317-6460-2
Text Book	TB2	John.R.Levine, Tony Mason and Doug Brown: Lex and Yacc,	O'Reilly, SPD, 1998.	1565920007, 9781565920002
References	RB1	D.M.Dhamdhere: System Programming and Operating Systems	2 nd Edition, Tata McGraw - Hill, 1999.	1449335942

Department of Information Science and Engineering

SEMESTER	: VII -A	NAME OF THE FACULTY	: Mrs. Divya Singh
BRANCH	: ISE	DATE OF COMMENCEMENT	: 25 July 2016
SUBJECT	: Information Systems	DATE OF CLOSING	: 19.11.2016
SUBJECT CODE	: 10IS72	CLASS STRENGTH	:51
NO OF HRS/WK	: 5	TOTAL HRS	: 60 hrs.

Sessio n No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1.	1/1	28.07.2016	UNIT-1(Foundation Concepts-1) Information Systems in Business: Introduction.	Board, chalk, duster	
2.	2/1	29.07.2016	The fundamental role of IS in business, Trends in IS.	„	
3.	3/1	30.07.2016	Managerial challenges of IT	„	
4.	4/1	1.08.2016	System Concepts: A foundation, Components of an Information System	„	
5.	5/1	2.08.2016	A foundation, Components of an Information System (continued)	„	
6.	6/1	3.08.2016	Information System Resources	„	
7.	7/1	4.08.2016	Information System activities, Recognizing Information Systems.	„	
8.	8/1	5.08.2016	Recognizing Information Systems,	„	Assignment- I
9.	9/1	6.08.2016	Revision of Unit I(Class Test)		
10.	2/1	9.08.2016	UNIT 2(Foundation Concepts – 2) Fundamentals of strategic advantages: Strategic IT, Competitive strategy concepts.	„	
11.	2/2	10.08.2016	Competitive advantage if IT, Strategic Uses of IT.	„	

12.	3/2	11.8.2016	Building Customer focused business, The value chain and strategic IS.	„	
13.	4/2	12.8.2016	Re-engineering business processes	„	
14.	5/2	16.08.2016	Becoming an agile company Creating a virtual company	„	
15.	6/2	18.08.2016	Building a knowledge-creating company	„	Assignment -II
16.	7/2	19.08.2016	Revision of Unit II(Class Test)	‘	
17.	1/3	22.08.2016	UNIT 3(Electronic Business Systems) Enterprise Business Systems: Introduction, Cross-functional enterprise applications.	„	
18.	2/3	23.8.2016	Enterprise application integration, Transaction processing systems.	„	
19.	3/3	25.8.2016	Enterprise collaboration systems.	„	
20.	4/3	26.8.2016	Functional Business Systems: Introduction, Marketing systems,	„	
21.	5/3	27.08.2016	Manufacturing systems, Human resource systems	„	
22.	6/3	29.08.2016	Accounting systems, Financial management systems.	„	Assignment –III
23.	7/3	30.08.2016	Revision of Unit III(Class Test)		
24.	1/4	1.09.2016	UNIT –4(Enterprise Business Systems) Customer relationship management: Introduction, What is CRM? The three phases of CRM	„	
25.	2/4	2.09.2016	Benefits and challenges of CRM, Trends in CRM	‘	
26.	3/4	9.09.2016	Enterprise resource planning: Introduction, What is ERP	„	
27.	4/4	10.09.2016	Benefits and challenges of ERP, Trends in ERP.	„	
28.	5/4	13.09.2016	Supply chain Management: Introduction, What is SCM?	„	
29.	6/4	15.09.2016	The role of SCM and its Benefits	„	
30.	7/4	16.09.2016	Challenges of SCM, Trends in SCM	„	Assignment –IV
31.	8/4	17.09.2016	Revision of Unit IV(Class Test)	„	
32.	1/5	19.09.2016	UNIT5(Electronic Commerce Systems) Electronic commerce fundamentals: Introduction, The scope of ecommerce,	„	
33.	2/5	20.09.2016	Essential e-commerce, processes, Electronic payment processes.	„	
34.	3/5	22.09.2016	e-Commerce applications and issues: E-commerce application trends,	‘	

35.	4/5	23.09.2016	e-Commerce applications and issues: E-commerce application trends(continued)	„	
36.	5/5	24.09.2016	Business-to- Consumer e-commerce,	„	
37.	6/5	26.09.2016	Web store requirements, Business-to-Business e-commerce,	„	
38.	7/5	27.09.2016	E-commerce marketplaces, Clicks and bricks in ecommerce.	„	Assignment -V
39.	8/5	29.09.2016	Revision (Class Test)		
40.	1/6	3.10.2016	UNIT 6 Decision support in business: Introduction, Decision support trends	„	
41.	2/6	4.10.2016	Decision support systems (DSS)	„	
42.	3/6	5.10.2016	Management Information Systems, Online analytical processing	‘	
43.	4/6	6.10.2016	Using DSS, Executive information systems	„	
44.	5/6	8.10.2016	Enterprise portals and decision support	„	
45.	6/6	13.10.2016	Knowledge management systems	„	
46.	7/6	14.10.2016	Business and Artificial Intelligence (AI)	„	
47.	8/6	17.10.2016	An overview of AI, Expert systems	„	Assignment -VI
48.	9/6	18.10.2016	UNIT 7 (Security and Ethical Challenges) Security, Ethical and societal challenges of IT: Introduction		
49.	1/7	20.10.2016	Ethical responsibility of business professionals.	„	
50.	2/7	21.10.2016	Computer crime Privacy issues	„	
51.	3/7	22.10.2016	Other challenges, Health issues.	‘	Assignment -VII
52.	4/7	27.10.2016	Societal solutions. Security management of IT: Introduction	„	
53.	5/7	28.10.2016	Tools of security management, Internetworked security defenses	„	
54.	6/7	3.11.2016	Other security measures, System Controls and audits	„	
55.	7/8	4.11.2016	Unit 8(Enterprise and Global IT Management) Managing IT: Business and IT Managing IT	„	Assignment - VIII
56.	1/8	5.11.2016	Business / IT planning Failures of IT management	„	

57.	2/8	7.11.2016	Managing global IT: The International Dimension Global IT Management		
58.	3/8	8.11.2016	Cultural , Political and Geo - Economic challenges,	”	
59.	4/8	9.11.2016	Global Business/ IT strategies, Global Business / IT applications, Global IT Platforms	”	
60.	5/8		Global data access issues Global Systems development.	‘	

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 21
T2	Class # 22 – 45
T3	Class # 46-60

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	James A. O’ Brien, George M. Marakas: Management Information Systems	7th Edition, Tata McGraw Hill, 2006	9-789814-59980-1
References	RB1	Kenneth C. Laudon and Jane P. Laudon: Management Information System, Managing the Digital Firm	11th Edition, Pearson Education, 2006..	9788129702531
References	RB2	Steven Alter: Information Systems The Foundation of E-Business	2ndEdition, Tata McGraw - Hill, 1999.	8129702533
References	RB3	W.S. Jawadekar: Management Information Systems	Tata McGraw Hill 1998.	0074631977, 978007461973

Signature of Faculty

Signature of HOD

Signature of Principal

Department of Information Science and Engineering

SEMESTER	: VII -B	NAME OF THE FACULTY	: Mrs. Divya Singh
BRANCH	: ISE	DATE OF COMMENCEMENT	: 25 July 2016
SUBJECT	: Information Systems	DATE OF CLOSING	: 19.11.2016
SUBJECT CODE	: 10IS72	CLASS STRENGTH	:
NO OF HRS/WK	: 5	TOTAL HRS	: 60 hrs.

Sessio n No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1.	1/1	28.07.2016	UNIT-1(Foundation Concepts-1) Information Systems in Business: Introduction.	Board, chalk, duster	
2.	2/1	1.08.2016	The fundamental role of IS in business, Trends in IS.	„	
3.	3/1	2.08.2016	Managerial challenges of IT	„	
4.	4/1	2.08.2016	System Concepts: A foundation, Components of an Information System	„	
5.	5/1	3.08.2016	A foundation, Components of an Information System (continued)	„	Group Discussions
6.	6/1	6.08.2016	Information System Resources	„	Assignment- I
7.	7/1	8.9.2016	Information System activities, Recognizing Information Systems.	„	
8.	8/1	9.08.2016	Recognizing Information Systems,	„	Assignment- I
9.	9/1	9.08.2016	Revision of Unit I(Class Test)		
10.	2/1	16.08.2016	UNIT 2(Foundation Concepts – 2) Fundamentals of strategic advantages: Strategic IT, Competitive strategy concepts.	„	
11.	2/2	17.08.2016	Competitive advantage if IT, Strategic Uses of IT.	„	

12.	3/2	18.8.2016	Building Customer focused business, The value chain and strategic IS.	„	
13.	4/2	18.8.2016	Re-engineering business processes	„	
14.	5/2	19.08.2016	Becoming an agile company Creating a virtual company	„	
15.	6/2	23.08.2016	Building a knowledge-creating company	„	Assignment -II
16.	7/2	24.08.2016	Revision of Unit II(Class Test)	‘	
17.	1/3	25.08.2016	UNIT 3(Electronic Business Systems) Enterprise Business Systems: Introduction, Cross-functional enterprise applications.	„	
18.	2/3	25.8.2016	Enterprise application integration, Transaction processing systems.	„	
19.	3/3	26.8.2016	Enterprise collaboration systems.	„	
20.	4/3	30.8.2016	Functional Business Systems: Introduction, Marketing systems,	„	
21.	5/3	31.08.2016	Manufacturing systems, Human resource systems	„	
22.	6/3	1.09.2016	Accounting systems, Financial management systems.	„	Assignment –III
23.	7/3	1.09.2016	Revision of Unit III(Class Test)		
24.	1/4	2.09.2016	UNIT –4(Enterprise Business Systems) Customer relationship management: Introduction, What is CRM? The three phases of CRM	„	
25.	2/4	13.09.2016	Benefits and challenges of CRM, Trends in CRM	‘	
26.	3/4	14.09.2016	Enterprise resource planning: Introduction, What is ERP	„	
27.	4/4	15.09.2016	Benefits and challenges of ERP, Trends in ERP.	„	
28.	5/4	15.09.2016	Supply chain Management: Introduction, What is SCM?	„	
29.	6/4	16.09.2016	The role of SCM and its Benefits	„	
30.	7/4	20.09.2016	Challenges of SCM, Trends in SCM	„	Assignment –IV
31.	8/4	21.09.2016	Revision of Unit IV(Class Test)	„	
32.	1/5	22.09.2016	UNIT5(Electronic Commerce Systems) Electronic commerce fundamentals: Introduction, The scope of ecommerce,	„	
33.	2/5	22.09.2016	Essential e-commerce, processes, Electronic payment processes.	„	
34.	3/5	23.09.2016	e-Commerce applications and issues: E-commerce application trends,	‘	

35.	4/5	27.09.2016	e-Commerce applications and issues: E-commerce application trends(continued)	„	
36.	5/5	28.09.2016	Business-to- Consumer e-commerce,	„	
37.	6/5	29.09.2016	Web store requirements, Business-to-Business e-commerce,	„	
38.	7/5	29.09.2016	E-commerce marketplaces, Clicks and bricks in ecommerce.	„	Assignment -V
39.	8/5	29.09.2016	Revision (Class Test)		
40.	1/6	3.10.2016	UNIT 6 Decision support in business: Introduction, Decision support trends	„	
41.	2/6	6.10.2016	Decision support systems (DSS)	„	
42.	3/6	7.10.2016	Management Information Systems, Online analytical processing	‘	
43.	4/6	8.10.2016	Using DSS, Executive information systems	„	
44.	5/6	8.10.2016	Enterprise portals and decision support	„	
45.	6/6	13.10.2016	Knowledge management systems	„	
46.	7/6	18.10.2016	Business and Artificial Intelligence (AI)	„	
47.	8/6	19.10.2016	An overview of AI, Expert systems	„	Assignment -VI
48.	1/7	20.10.2016	UNIT 7 (Security and Ethical Challenges) Security, Ethical and societal challenges of IT: Introduction		
49.	2/7	20.10.2016	Ethical responsibility of business professionals.	„	
50.	3/7	27.10.2016	Computer crime Privacy issues	„	
51.	4/7	28.10.2016	Other challenges, Health issues.	‘	Assignment -VII
52.	5/7	2.11.2016	Societal solutions. Security management of IT: Introduction	„	
53.	6/7	3.11.2016	Tools of security management, Internetworked security defenses	„	
54.	7/7	3.11.2016	Other security measures, System Controls and audits	„	
55.	1/8	4.11.2016	Unit 8(Enterprise and Global IT Management) Managing IT: Business and IT Managing IT	„	Assignment - VIII
56.	2/8	5.11.2016	Business / IT planning Failures of IT management	„	

57.	3/8	7.11.2016	Managing global IT: The International Dimension Global IT Management		
58.	4/8	8.11.2016	Cultural , Political and Geo - Economic challenges,	”	
59.	5/8	9.11.2016	Global Business/ IT strategies, Global Business / IT applications, Global IT Platforms	”	
60.	7/8		Global data access issues Global Systems development.	‘	

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 21
T2	Class # 22 – 45
T3	Class # 46-60

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	James A. O’ Brien, George M. Marakas: Management Information Systems	7th Edition, Tata McGraw Hill, 2006	9-789814-59980-1
References	RB1	Kenneth C. Laudon and Jane P. Laudon: Management Information System, Managing the Digital Firm	11th Edition, Pearson Education, 2006..	9788129702531
References	RB2	Steven Alter: Information Systems The Foundation of E-Business	2ndEdition, Tata McGraw - Hill, 1999.	8129702533
References	RB3	W.S. Jawadekar: Management Information Systems	Tata McGraw Hill 1998.	0074631977, 978007461973

Signature of Faculty

Signature of HOD

Signature of Principal

Department of Information Science &Engineering

SEMESTER :	VII	NAME OF THE FACULTY :	Mrs .S.Geetha
BRANCH :	ISE	DATE OF COMMENCEMENT :	28.07.2016
SUBJECT :	Datawarehouse&DataMining	DATE OF CLOSING :	9.11.2016
SUBJECT CODE :	10IS74	CLASS STRENGTH :	A - 51
NO OF HRS/WK :	5	TOTAL HRS :	60

Sessi on No	Chapt er no (No of hrs plane d for the chapte r)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covere d As per plan
1	1/1	28.7.2016	UNIT – 1 Introduction	Board, chalk, duster		
2	2/1	30.7.2016	Guidelines for Data Warehouse Implementation	„		
3	3/1	1/8/2016	Data Ware house Metadata	„		
4	4/1	2/8/2016	Introduction, Operational Data Stores (ODS)	„		
5	5/1	3/8/2016	Extraction Transformation Loading (ETL)	„		
6	6/1	4/8/2016	DataWarehouses, Design Issues	„		
7	1/2	6/8/2016	UNIT – 2 OLAP introduction	„		
8	2/2	8/08/2016	Online Analytical Processing (OLAP)	Board, chalk, duster		
9	3/2	9/08/2016	Characteristics of OLAP systems	„		
10	4/2	10/08/2016	Multidimensional view and Data cube	„		

11	5/2	11/08/2016	Data Cube Implementations	”		
12	6/2	16/08/2016	Data Cube operations	”		
13	7/2	17/08/2016	UNIT- 3 INTRODUCTION	”		
14	1/3	18/08/2016	Implementation of OLAP and overview on OLAP Softwares.	”		
15	2/3	19/08/2016	DATA WARE HOUSE			
16	3/3	20/08/2016	Types of data			
17	4/3	23.8.2016	Data attributes		Assignment- I	
18	5/3	24.8.2016	Data mining	”		
19	6/3	25.8.2016	What is Data Mining?	”		
20	7/3	26.8.2016	The origins of data mining	”	Assignment -II	
21	1/4	27.8.2016	UNIT-4 Association Analysis: Problem Definition	”		
22	2/4	30.8.2016	Types of Data attributes	”		
23	3/4	31.8.2016	Data Quality		Assignment –III	
24	4/4	2/9/2016	Motivating Challenges	Board, chalk, duster		
25	5/4	9/9/2016	Data Mining Tasks	”		
26	6/4	10/9/2016	Frequent Itemset Generation: The Apriori Principle, Frequent Itemset Generation in the Apriori Algorithm	”		
27	7/4	13/9/2016	Candidate Generation and Pruning, Support Counting, Computational Complexity	”	Assignment –IV	
28	8/4	14/9/2016	Rule Generation	”		
29	1/7	15/09/2016	UNIT- 7 Cluster Analysis: Overview	”		
30	2/7	16/09/2016	Frequent Itemset Generation in FP-Growth Algorithm	”		
31	3/7	20/09/2016	Evaluation of Association Patterns: Objective Measures of Interestingness	”		

32	4/7	23/09/2016	FP-Growth Algorithm: FP-Tree Representation	”		
33	5/7	24/09/2016	K-means : The Basic K-means Algorithm	Board, chalk, duster	Assignment -V	
34	6/7	27/09/2016	Types of Cluster Analysis Methods	”		
35	7/7	27/09/2016	Partitional Methods	”		
36	7/7	28/09/2016	Hierarchical Methods	”		
37	7/7	3.10.2016	Density Based Methods	”		
38	7/7	4.10.2016	Quality and Validity of Cluster Analysis	”		
39	7/7	4.10.2016	Decision Trees	”		
40	7/7	6.10.2016	General approach to solve classification problem	”		
41	1/8	7.10.2016	UNIT – 8 Web Mining: Introduction	”		
42	2/8	8.10.2016	Data mining applications	”		
43	3/8	8.10.2016	Temporal data base mining	”		
44	4/8	13.10.2016	Web content mining	”		
45	5/8	14.10.2016	Web mining	”		
46	6/8	18.10.2016	Text clustering	”		
47	7/8	19.10.2016	Text Mining	”		
48	8/8	20.10.2016	Unstructured Text	”		
49	1/5	21.10.2016	UNIT – 5 Classification -1 : Basics	Board, chalk, duster		
50	2/5	22.10.2016	Rule Based Classifiers	”		
51	3/5	24.10.2016	Nearest Neighbor Classifiers	”		
52	4/5	25.10.2016	Direct Methods for Rule Extraction	”		
53	5/5	26.10.2016	Indirect Methods for Rule Extraction	”		
54	6/5	28.10.2016	Characteristics of Rule-Based Classifiers	”		

55	7/5	2.11.2016	Nearest-Neighbor classifiers: Algorithm	„		
56	8/5	3.11.2016	Estimating Predictive accuracy of classification methods	„		
57	1/6	4.11.2016	UNIT – 6 Classification - 2 : Bayesian Classifiers	„		
58	2/6	5.11.2016	Improving accuracy of clarification methods	„		
59	2/6	8.11.2016	Evaluation criteria for classification methods	„		
60	3/6	9.11.2016	Multiclass Problem, Bayesian network	„		

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 24
T2	Class # 25 – 51
Improvement Test	Class # 52 – 60

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Pang-Ning Tan, Michael Steinbach, Vipin Kumar: Introduction to Data Mining,	Pearson Education, 2005.	978-81-317-5904-2
Text Book	TB2	G. K. Gupta: Introduction to Data Mining with Case Studies	3 rd Edition, PHI, New Delhi, 2009.	1565920007, 9781565920002
References	RB1	Arun K Pujari: Data Mining Techniques	2 nd Edition, Universities Press, 2009	1449335942

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T:+9180 28524466 / 77

**CMR INSTITUTE
OF TECHNOLOGY**



Session wise – Course Plan

Department of Information Science & Engineering

SEMESTER :	VII	NAME OF THE FACULTY :	Mrs .S.Geetha
BRANCH :	ISE	DATE OF COMMENCEMENT :	28.07.2016
SUBJECT :	Datawarehouse&DataMining	DATE OF CLOSING :	9.11.2016
SUBJECT CODE :	10IS74	CLASS STRENGTH :	B-51
NO OF HRS/WK :	5	TOTAL HRS :	60

Sessi on No	Chapt er no (No of hrs plane d for the chapte r)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covere d As per plan
1	1/1	28.7.2016	UNIT – 1 Introduction	Board, chalk, duster		
2	2/1	30.7.2016	Guidelines for Data Warehouse Implementation	”		
3	3/1	1/8/2016	Data Ware house Metadata	”		
4	4/1	2/8/2016	Introduction, Operational Data Stores (ODS)	”		
5	5/1	3/8/2016	Extraction Transformation Loading (ETL)	”		
6	6/1	4/8/2016	Data Ware houses, Design Issues	”		
7	1/2	6/8/2016	UNIT – 2 OLAP introduction	”		
8	2/2	8/08/2016	Online Analytical Processing (OLAP)	Board, chalk, duster		
9	3/2	9/08/2016	Characteristics of OLAP systems	”		

10	4/2	10/08/2016	Multidimensional view and Data cube	”		
11	5/2	11/08/2016	Data Cube Implementations	”		
12	6/2	16/08/2016	Data Cube operations	”		
13		17/08/2016	UNIT- 3 INTRODUCTION	”		
14	1/3	18/08/2016	Data mining task	”		
15	2/3	19/08/2016	DATA WARE HOUSE			
16	3/3	22/08/2016	Types of data			
17	4/3	23.8.2016	Data attributes		Assignm ent- I	
18	5/3	24.8.2016	Data mining	”		
19	6/3	25.8.2016	What is Data Mining?	”		
20	7/3	26.8.2016	The origins of data mining	”	Assignm ent -II	
21	1/4	27.8.2016	UNIT-4 Association Analysis: Problem Definition	”		
22	2/4	30.8.2016	Types of Data attributes	”		
23	3/4	31.8.2016	Data Quality		Assignm ent –III	
24	4/4	2/9/2016	Motivating Challenges	Board, chalk, duster		
25	5/4	9/9/2016	Data Mining Tasks	”		
26	6/4	10/9/2016	Frequent Itemset Generation: The Apriori Principle, Frequent Itemset Generation in the Apriori Algorithm	”		
27	7/4	10/9/2016	Candidate Generation and Pruning, Support Counting, Computational Complexity	”	Assignm nt –IV	
28	8/4	13/9/2016	Rule Generation	”		
29	1/7	14/09/2016	UNIT- 7 Cluster Analysis: Overview	”		
30	2/7	16/09/2016	Frequent Itemset Generation in FP-Growth Algorithm	”		
31	3/7	20/09/2016	Evaluation of Association Patterns: Objective Measures of Interestingness	”		

32	4/7	23/09/2016	FP-Growth Algorithm: FP-Tree Representation	”		
33	5/7	24/09/2016	K-means : The Basic K-means Algorithm	Board, chalk, duster	Assignment -V	
34	6/7	27/09/2016	Types of Cluster Analysis Methods	”		
35	7/7	27/09/2016	Partitional Methods	”		
36	7/7	28/09/2016	Hierarchical Methods	”		
37	7/7	3.10.2016	Density Based Methods	”		
38	7/7	4.10.2016	Quality and Validity of Cluster Analysis	”		
39	7/7	4.10.2016	Decision Trees	”		
40	7/7	6.10.2016	General approach to solve classification problem	”		
41	1/8	7.10.2016	UNIT – 8 Web Mining: Introduction	”		
42	2/8	8.10.2016	Data mining applications	”		
43	3/8	8.10.2016	Temporal data base mining	”		
44	4/8	13.10.2016	Web content mining	”		
45	5/8	14.10.2016	Web mining	”		
46	6/8	18.10.2016	Text clustering	”		
47	7/8	19.10.2016	Text Mining	”		
48	8/8	20.10.2016	Unstructured Text	”		
49	1/5	21.10.2016	UNIT – 5 Classification -1 : Basics	Board, chalk, duster		
50	2/5	22.10.2016	Rule Based Classifiers	”		
51	3/5	24.10.2016	Nearest Neighbor Classifiers	”		
52	4/5	25.10.2016	Direct Methods for Rule Extraction	”		
53	5/5	26.10.2016	Indirect Methods for Rule Extraction	”		
54	6/5	28.10.2016	Characteristics of Rule-Based Classifiers	”		

55	7/5	2.11.2016	Nearest-Neighbor classifiers: Algorithm	”		
56	8/5	3.11.2016	Estimating Predictive accuracy of classification methods	”		
57	1/6	4.11.2016	UNIT – 6 Classification - 2 : Bayesian Classifiers	”		
58	2/6	5.11.2016	Improving accuracy of clarification methods	”		
59	2/6	8.11.2016	Evaluation criteria for classification methods	”		
60	3/6	9.11.2016	Multiclass Problem, Bayesian network	”		

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 24
T2	Class # 25 – 51
Improvement Test	Class # 52 – 60

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Pang-Ning Tan, Michael Steinbach, Vipin Kumar: Introduction to Data Mining,	Pearson Education, 2005.	978-81-317-5904-2
Text Book	TB2	G. K. Gupta: Introduction to Data Mining with Case Studies	3 rd Edition, PHI, New Delhi, 2009.	1565920007, 9781565920002
References	RB1	Arun K Pujari: Data Mining Techniques	2 nd Edition, Universities Press, 2009	1449335942

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Session wise – Course Plan

Department of Information Science and Engineering

SEMESTER : VII –A
BRANCH : ISE
SUBJECT : Programming the Web
SUBJECT CODE : 10CS73
NO OF HRS/WK : 5

NAME OF THE FACULTY : Shilpa Pande
DATE OF COMMENCEMENT : 28 July 2016
DATE OF CLOSING :
CLASS STRENGTH : 48
TOTAL HRS : 60

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	1/1	28/7	Introduction	Chalk & Talk	
2	2/1	29/7	Unit 1- Fundamentals of Web, XHTML – 1: Internet, WWW, Web Browsers and Web Servers,	”	
3	3/1	30/7	URLs, MIME, HTTP, Security,	”	Assignment-1
4	4/1	1/8	The Web Programmers Toolbox.XHTML: Basic syntax	”	
5	5/1	2/8	Standard structure, Basic text markup	”	
6	6/1	4/8	Images, Hypertext Links.	”	
7	1/7	5/8	Unit 2- XHTML – 2, CSS: XHTML, Lists, Tables, Forms,	”	
8	2/7	6/8	Frames CSS: Introduction, Levels of style sheets, Style specification formats,	”	
9	3/7	8/8	Selector forms, Property value forms	”	Assignment-2
10	4/7	9/8	Font properties, List properties, Color,	”	
11	5/7	11/8	Alignment of text, The box model	”	
12	6/7	12/8	, Background images, The and <div> tags,	”	
13	7/7	16/8	Conflict resolution & Examples	”	
14	1/3	17/8	Unit 3-Javascript: Overview of Javascript, Object orientation and	”	

			Javascript		
15	2/3	18/8	Syntactic characteristics, Primitives, operations, and expressions,	“	
16	3/3	20/8	Screen output and keyboard input, Control statements	”	Assignment-3
17	4/3	22/8	Object creation and modification, Arrays, Functions,	”	
18	5/3	23/8	Constructors, Pattern matching using regular expressions	”	
19	6/3	24/8	Errors in scripts, Examples.	”	
20	1/4	25/8	Unit 4: Javascript and HTML Documents, Dynamic Documents with Javascript: The Javascript execution environment, The Document Object Model,	”	
21	2/4	27/8	Element access in Javascript, Events and event handling, Handling events from theBody elements,	”	
22	3/4	29/8	Button elements, Text box and Password elements,	”	Assignment-4
23	4/4	30/8	The DOM 2 event model, The navigator object,	“	
24	5/4	31/8	DOM tree traversal and modification. Introduction to dynamic documents	”	
25	6/4	1/9	Positioning elements, Moving elements,Element visibility, Changing colors and fonts, Dynamic content,	”	
26	7/4	9/9	Stacking elements, Locating the mouse cursor, Reacting to a mouse click, Slow movement of elements, Dragging and dropping elements	”	
27	1/5	10/9	UNIT – 5 XML: Introduction, Syntax, Document structure,	”	
28	2/5	13/9	Document type definitions,Namespaces	”	
29	3/5	14/9	XML schemas, Displaying raw XML documents,	”	Assignment-5
30	4/5	15/9	Displaying XML documents with CSS,	”	
31	5/5	17/9	XSLT style sheets	”	
32	6/5	19/9	XML processors, Web services.	“	
33	1/7	20/9	UNIT – 6 Perl, CGI Programming: Origins and uses of Perl, Scalars and their operations	”	
34	2/6	21/9	Assignment statements and simple input and output, Control statements,	”	
35	3/6	22/9	Fundamentals of arrays, Hashes, References, Functions, Pattern matching	”	Assignment-6
36	4/6	24/9	File input and output; Examples	”	

37	5/6	26/9	The Common Gateway Interface; CGI linkage; Query string format; CGI.pm module	”	
38	6/6	27/9	A survey example; Cookies	”	
39	7/6	28/9	Database access with Perl and MySQL and examples	“	
40	1/7	29/9	UNIT – 7 PHP: Origins and uses of PHP, Overview of PHP, General syntactic characteristics	”	
41	2/7	4/10	Primitives, operations and expressions, Output, Control statements, Arrays	”	
42	3/7	5/10	Functions, Pattern matching,	”	Assignment-7
43	4/7	6/10	Form handling, Files	”	
44	5/7	7/10	Cookies, Session tracking,	”	
45	6/7	8/10	Database access with PHP and MySQL.	”	
46	7/7	14/10	Examples	”	
47	1/8	17/10	UNIT – 8 Ruby, Rails: Origins and uses of Ruby	“	
48	2/8	18/10	Scalar types and their operations, Simple input and output	”	
49	3/8	19/10	Control statements, Arrays, Hashes,	”	Assignment-8
50	4/8	20/10	Methods, Classes, Code blocks and iterators	”	
51	5/8	22/10	Pattern matching	”	
52	6/8	27/10	Overview of Rails, Document requests,	”	
53	7/8	28/10	Processing forms,	”	
54	8/8	2/11	, Rails applications with Databases, Layouts	”	
55	9/8	3/11	Database programs Examples	“	
56		4/11	Revision	”	
57		5/11	Revision	”	
58		7/11	Revision	”	
59		8/11	Revision	”	
60		9/11	Revision	”	

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 19
T2	Class # 27 – 46
T3	

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Robert W. Sebesta: Programming the World Wide Web	4th Edition, Pearson Education, 2008	978-81-317-6458-9
References	RB1	M. Deitel, P.J. Deitel, A. B. Goldberg: Internet & World Wide Web How to Program	4th Edition, Pearson Education, 2004	978-81-317-2522-1
References	RB2	Chris Bates: Web Programming Building Internet Applications	3rd Edition, Wiley India, 2007.	978-81-265-1290-4
References	RB3	Xue Bai et al: The web Warrior Guide to Web Programming	Cengage Learning, 2003	978-81-315-0017-0

Signature of faculty

Signature of HOD

Signature of Principal

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T:+9180 28524466 / 77

**CMR INSTITUTE
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Session wise – Course Plan

Department of Information Science and Engineering

SEMESTER : VII –A
 BRANCH : ISE
 SUBJECT : Programming the Web
 SUBJECT CODE : 10CS73
 NO OF HRS/WK : 5

NAME OF THE FACULTY : Shilpa Pande
 DATE OF COMMENCEMENT : 28 July 2016
 DATE OF CLOSING :
 CLASS STRENGTH : 48
 TOTAL HRS : 60

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	1/1	29/7	Introduction	Chalk & Talk	
2	2/1	1/8	Unit 1- Fundamentals of Web, XHTML – 1: Internet, WWW, Web Browsers and Web Servers,	”	
3	3/1	2/8	URLs, MIME, HTTP, Security,	”	Assignment-1
4	4/1	2/8	The Web Programmers Toolbox.XHTML: Basic syntax	”	
5	5/1	3/8	Standard structure, Basic text markup	”	
6	6/1	5/8	Images, Hypertext Links.	”	
7	1/7	8/8	Unit 2- XHTML – 2, CSS: XHTML, Lists, Tables, Forms,	”	
8	2/7	9/8	Frames CSS: Introduction, Levels of style sheets, Style specification formats,	”	
9	3/7	9/8	Selector forms, Property value forms	”	Assignment-2
10	4/7	10/8	Font properties, List properties, Color,	”	
11	5/7	12/8	Alignment of text, The box model	”	
12	6/7	17/8	, Background images, The and <div> tags,	”	
13	7/7	18/8	Conflict resolution & Examples	”	
14	1/3	18/8	Unit 3-Javascript: Overview of Javascript, Object orientation and Javascript	”	
15	2/3	19/8	Syntactic characteristics, Primitives, operations, and expressions,	”	
16	3/3	22/8	Screen output and keyboard input, Control statements	”	Assignment-3
17	4/3	24/8	Object creation and modification, Arrays, Functions,	”	
18	5/3	25/8	Constructors, Pattern matching using regular expressions	”	
19	6/3	25/8	Errors in scripts, Examples.	”	
20	1/4	26/8	Unit 4: Javascript and HTML Documents, Dynamic Documents with Javascript: The Javascript execution environment, The Document Object	”	

			Model,		
21	2/4	29/8	Element access in Javascript, Events and event handling, Handling events from theBody elements,	”	
22	3/4	31/8	Button elements, Text box and Password elements,	”	Assignment-4
23	4/4	1/9	The DOM 2 event model, The navigator object,	“	
24	5/4	1/9	DOM tree traversal and modification. Introduction to dynamic documents	”	
25	6/4	2/9	Positioning elements, Moving elements,Element visibility, Changing colors and fonts, Dynamic content,	”	
26	7/4	10/9	Stacking elements, Locating the mouse cursor, Reacting to a mouse click, Slow movement of elements, Dragging and dropping elements	”	
27	1/5	14/9	UNIT – 5 XML: Introduction, Syntax, Document structure,	”	
28	2/5	15/9	Document type definitions,Namespaces	”	
29	3/5	15/9	XML schemas, Displaying raw XML documents,	”	Assignment-5
30	4/5	16/9	Displaying XML documents with CSS,	”	
31	5/5	19/9	XSLT style sheets	”	
32	6/5	21/9	XML processors, Web services.	“	
33	1/7	22/9	UNIT – 6 Perl, CGI Programming: Origins and uses of Perl, Scalars and their operations	”	
34	2/6	22/9	Assignment statements and simple input and output, Control statements,	”	
35	3/6	23/9	Fundamentals of arrays, Hashes, References, Functions, Pattern matching	”	Assignment-6
36	4/6	26/9	File input and output; Examples	”	
37	5/6	28/9	The Common Gateway Interface; CGI linkage; Query string format; CGI.pm module	”	
38	6/6	29/9	A survey example; Cookies	”	
39	7/6	29/9	Database access with Perl and MySQL and examples	“	
40	1/7	3/10	UNIT – 7 PHP: Origins and uses of PHP, Overview of PHP, General syntactic characteristics	”	
41	2/7	5/10	Primitives, operations and expressions, Output, Control statements, Arrays	”	
42	3/7	6/10	Functions, Pattern matching,	”	Assignment-7
43	4/7	7/10	Form handling, Files	”	

44	5/7	8/10	Cookies, Session tracking,	”	
45	6/7	8/10	Database access with PHP and MySQL.	”	
46	7/7	13/10	Examples	”	
47	1/8	17/10	UNIT – 8 Ruby, Rails: Origins and uses of Ruby	“	
48	2/8	19/10	Scalar types and their operations,Simple input and output	”	
49	3/8	20/10	Control statements, Arrays, Hashes,	”	Assignment-8
50	4/8	20/10	Methods,Classes, Code blocks and iterators	”	
51	5/8	21/10	Pattern matching	”	
52	6/8	27/10	Overview of Rails, Document requests,	”	
53	7/8	28/10	Processing forms,	”	
54	8/8	2/11	, Rails applications with Databases, Layouts	”	
55	9/8	3/11	Database programs Examples	“	
56		3/11	Revision	”	
57		4/11	Revision	”	
58		7/11	Revision	”	
59		9/11	Revision	”	
60		9/11	Revision	”	

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 19
T2	Class # 27 – 46
T3	

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Robert W. Sebesta: Programming the World Wide Web	4th Edition, Pearson Education, 2008	978-81-317-6458-9
References	RB1	M. Deitel, P.J. Deitel, A. B. Goldberg: Internet & World Wide Web How to Program	4th Edition, Pearson Education, 2004	978-81-317-2522-1
References	RB2	Chris Bates: Web Programming Building Internet Applications	3rd Edition, Wiley India, 2007.	978-81-265-1290-4
References	RB3	Xue Bai et al: The web Warrior Guide to Web Programming	Cengage Learning, 2003	978-81-315-0017-0

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Signature of Principal

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**CMR INSTITUTE
OF TECHNOLOGY**



Session wise – Course Plan

Department of Information Science and Engineering

SEMESTER : VII A
BRANCH : ISE
SUBJECT : JAVA AND J2EE
SUBJECT CODE : 10IS753
NO OF HRS/WK : 5

NAME OF THE FACULTY : LOHITH RAJ SN
DATE OF COMMENCEMENT : 28/07/2016
DATE OF CLOSING : 19/11/2016
CLASS STRENGTH : 48
TOTAL HRS : 60

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	1/1	29/07/2016	Introduction to Java: Java and Java applications, JDK, Java is interpreted, JVM.	Chalk & Talk	
2	2/1	30/07/2016	Byte Code, Object-oriented programming	„	

3	3/1	01/08/2016	Simple Java programs Boolean variables, int, long, char, operators.	”	
4	4/1	01/08/2016	Arrays, white spaces, literals, assigning values.	”	
5	5/1	03/08/2016	Creating and destroying objects, Access specifiers.	”	Assignment- I
6	6/1	05/08/2016	Arithmetic Operators, Bitwise operators.	”	
7	7/1	06/08/2016	The Assignment Operator, The ? Operator, Operator Precedence	”	
8	8/1	08/08/2016	Logical expression, Type casting, Strings	”	
9	9/1	08/08/2016	Selection statement, iteration statements, Jump Statements.	”	
10	1/2	10/08/2016	Classes, Inheritance, Exceptions, Applets Classes in Java, Declaring a class, Class name, Creating Instances of class, Constructors, Super classes, Inner classes.	”	
11	2/2	12/08/2016	Simple, multiple inheritances, Multilevel inheritance.	”	
12	3/2	16/08/2016	Overriding, overloading.	”	Assignment – II
13	4/2	17/08/2016	Exception handling in Java.	”	
14	5/2	17/08/2016	Two types of Applets, Applet basics, Applet Architecture, An Applet skeleton.	”	
15	6/2	19/08/2016	Simple Applet display methods, Requesting repainting.	”	
16	7/2	22/08/2016	Using the Status Window, The HTML APPLET tag.	”	
17	8/2	23/08/2016	Passing parameters to Applets; getDocumentbase() and getCodebase()	”	
18	9/2	24/08/2016	ApletContext and showDocument(), The AudioClip Interface.	”	
19	10/2	24/08/2016	The AppletStub Interface, Output to the Console.	”	
20	1/3	26/08/2016	Multi-Threaded Programming, Event Handling Threads, How to make the classes threadable	”	
21	2/3	29/08/2016	Extending threads, Implementing runnable	”	

22	3/3	30/08/2016	Synchronization, Changing state of the thread	”	Assignment – III
23	4/3	31/08/2016	Bounded buffer problems, read-write problem, Producer-consumer problems	“	
24	5/3	31/08/2016	Two event handling mechanisms	”	
25	6/3	02/09/2016	The delegation event model, Event classes, Sources of events.	”	
26	7/3	10/09/2016	Event listener interfaces, Using the delegation event model.	”	
27	8/3	13/09/2016	Adapter classes, Inner classes.	”	
28	1/4	14/09/2016	Swings The origins of Swing, Two key Swing features.	”	
29	2/4	14/09/2016	Components and Containers, The Swing Packages	”	
30	3/4	16/09/2016	A simple Swing Application,	”	Assignment – IV
31	4/4	19/09/2016	Create a Swing Applet, JLabel and ImageIcon, JTextField	”	
32	5/4	20/09/2016	The Swing Buttons and example	“	
33	6/4	21/09/2016	JtabbedPane Examples	”	
34	7/4	21/09/2016	JScrollPane, JList and examples	”	
35	8/4	23/09/2016	JcomboBox, JTable and examples	”	
36	1/5	26/09/2016	J2EE Overview, Database Access: The Concept of JDBC, JDBC Driver Types, JDBC Packages,	”	
37	2/5	27/09/2016	A Brief Overview of the JDBC process	”	
38	3/5	28/09/2016	Database Connection,	”	
39	4/5	28/09/2016	Associating the JDBC/ODBC Bridge with the Database	“	Assignment – V
40	5/5	03/10/2016	Statement Objects and examples	”	
41	6/5	05/10/2016	ResultSet and example programs	”	

42	7/5	06/10/2016	Transaction Processing, Metadata	”	
43	8/5	07/10/2016	Data types, Exceptions.	”	
44	1/6	07/10/2016	Servlets: The Life Cycle of a Servlet, Using Tomcat for Servlet Development	”	
45	2/6	13/10/2016	A simple Servlet	”	Assignment – VI
46	3/6	17/10/2016	The Servlet API, The Javax.servlet Package	”	
47	4/6	18/10/2016	Reading Servlet Parameter,;	”	
48	5/6	19/10/2016	The Javax.servlet.http package.	”	
49	6/6	19/10/2016	Handling HTTP Requests and Responses.	”	
50	7/6	21/10/2016	Using Cookies, Session Tracking.	”	
51	1/7	27/10/2016	JSP, RMI: JSP, JSP Tags, Tomcat, Request String.	”	
52	2/7	28/10/2016	User Sessions and example programs	”	Assignment – VII
53	3/7	02/11/2016	Cookies, Session Objects.	”	
54	4/7	02/11/2016	Remote Method Invocation concept	”	
55	5/7	04/11/2016	Server side, Client side.	”	
56	1/8	07/11/2016	Enterprise Java Beans: Enterprise java Beans, Deployment Descriptors	”	
57	2/8	08/11/2016	Session Java Bean	”	Assignment – VIII
58	3/8	09/11/2016	Entity Java Bean.	”	
59	4/8	09/11/2016	Message-Driven Bean.	”	
60	5/8	09/11/2016	The JAR File.	”	

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 – 26
T2	Class # 27 – 42

T3	Class # 43- 60
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*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Herbert Schildt: Java The Complete Reference.	7 th Edition , TMH	978-0-07-063677-4
Text Book	TB2	Jim Keogh: J2EE -The Complete Reference, Tata McGraw Hill.	2002, TMH	978-0-07-052912-0
References	RB1	E Balagurusamy: Programming with JAVA	2 nd Edition, TMH	0-07-463542-5

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**CMR INSTITUTE
OF TECHNOLOGY**



Session wise – Course Plan

Department of Information Science and Engineering

SEMESTER : VII B
BRANCH : ISE
SUBJECT : JAVA AND J2EE
SUBJECT CODE : 10IS753
NO OF HRS/WK : 5

NAME OF THE FACULTY : LOHITH RAJ SN
DATE OF COMMENCEMENT: 28/07/2016
DATE OF CLOSING : 19/11/2016
CLASS STRENGTH : 51
TOTAL HRS : 60

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	1/1	29/07/2016	Introduction to Java: Java and Java applications, JDK, Java is interpreted, JVM.	Chalk & Talk	
2	2/1	29/07/2016	Byte Code, Object-oriented programming	„	
3	3/1	01/08/2016	Simple Java programs Boolean variables, int, long, char, operators.	„	Assignment- I

4	4/1	02/08/2016	Arrays, white spaces, literals, assigning values.	”	
5	5/1	03/08/2016	Creating and destroying objects, Access specifiers.	”	
6	6/1	05/08/2016	Arithmetic Operators, Bitwise operators.	”	
7	7/1	05/08/2016	The Assignment Operator, The ? Operator, Operator Precedence	”	
8	8/1	06/08/2016	Logical expression, Type casting, Strings	”	
9	9/1	09/08/2016	Selection statement, iteration statements, Jump Statements.	”	
10	1/2	10/08/2016	Classes, Inheritance, Exceptions, Applets Classes in Java, Declaring a class, Class name, Creating Instances of class, Constructors, Super classes, Inner classes.	”	
11	2/2	12/08/2016	Simple, multiple inheritances, Multilevel inheritance.	”	Assignment – II
12	3/2	12/08/2016	Overriding, overloading.	”	
13	4/2	16/08/2016	Exception handling in Java.	”	
14	5/2	18/08/2016	Two types of Applets, Applet basics, Applet Architecture, An Applet skeleton.	”	
15	6/2	19/08/2016	Simple Applet display methods, Requesting repainting.	”	
16	7/2	22/08/2016	Using the Status Window, The HTML APPLET tag.	”	
17	8/2	22/08/2016	Passing parameters to Applets; getDocumentbase() and getCodebase()	”	
18	9/2	23/08/2016	ApletContext and showDocument(), The AudioClip Interface.	”	
19	10/2	25/08/2016	The AppletStub Interface, Output to the Console.	”	
20	1/3	26/08/2016	Multi-Threaded Programming, Event Handling Threads, How to make the classes threadable	”	
21	2/3	29/08/2016	Extending threads, Implementing runnable	”	
22	3/3	29/08/2016	Synchronization, Changing state of the thread	”	Assignment – III

23	4/3	30/08/2016	Bounded buffer problems, read-write problem, Producer-consumer problems	“	
24	5/3	01/09/2016	Two event handling mechanisms	”	
25	6/3	02/09/2016	The delegation event model, Event classes, Sources of events.	”	
26	7/3	10/09/2016	Event listener interfaces, Using the delegation event model.	”	
27	8/3	10/09/2016	Adapter classes, Inner classes.	”	
28	1/4	13/09/2016	Swings The origins of Swing, Two key Swing features.	”	
29	2/4	15/09/2016	Components and Containers, The Swing Packages	”	
30	3/4	16/09/2016	A simple Swing Application,	”	Assignment – IV
31	4/4	19/09/2016	Create a Swing Applet, JLabel and ImageIcon, JTextField	”	
32	5/4	19/09/2016	The Swing Buttons and example	“	
33	6/4	20/09/2016	JtabbedPane Examples	”	
34	7/4	22/09/2016	JScrollPane, Jlist and examples	”	
35	8/4	23/09/2016	JcomboBox, JTable and examples	”	
36	1/5	26/09/2016	J2EE Overview, Database Access: The Concept of JDBC, JDBC Driver Types, JDBC Packages,	”	
37	2/5	26/09/2016	A Brief Overview of the JDBC process	”	
38	3/5	27/09/2016	Database Connection,	”	
39	4/5	29/09/2016	Associating the JDBC/ODBC Bridge with the Database	“	Assignment – V
40	5/5	03/10/2016	Statement Objects and examples	”	
41	6/5	05/10/2016	ResultSet and example programs	”	
42	7/5	05/10/2016	Transaction Processing, Metadata	”	

43	8/5	06/10/2016	Data types, Exceptions.	”	
44	1/6	08/10/2016	Servlets: The Life Cycle of a Servlet, Using Tomcat for Servlet Development	”	
45	2/6	13/10/2016	A simple Servlet	”	Assignment – VI
46	3/6	17/10/2016	The Servlet API, The Javax.servlet Package	”	
47	4/6	17/10/2016	Reading Servlet Parameter,;	”	
48	5/6	18/10/2016	The Javax.servlet.http package.	”	
49	6/6	20/10/2016	Handling HTTP Requests and Responses.	”	
50	7/6	21/10/2016	Using Cookies, Session Tracking.	”	
51	1/7	27/10/2016	JSP, RMI: JSP, JSP Tags, Tomcat, Request String.	”	
52	2/7	27/10/2016	User Sessions and example programs	”	Assignment – VII
53	3/7	28/10/2016	Cookies, Session Objects.	”	
54	4/7	03/11/2016	Remote Method Invocation concept	”	
55	5/7	04/11/2016	Server side, Client side.	”	
56	1/8	07/11/2016	Enterprise Java Beans: Enterprise java Beans, Deployment Descriptors	”	
57	2/8	07/11/2016	Session Java Bean	”	Assignment – VIII
58	3/8	08/11/2016	Entity Java Bean.	”	
59	4/8	09/11/2016	Message-Driven Bean.	”	
60	5/8	09/11/2016	The JAR File.	”	

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 – 26
T2	Class # 27 – 42
T3	Class # 43- 60

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Herbert Schildt: Java The Complete Reference.	7 th Edition , TMH	978-0-07-063677-4
Text Book	TB2	Jim Keogh: J2EE -The Complete Reference, Tata McGraw Hill.	2002, TMH	978-0-07-052912-0
References	RB1	E Balagurusamy: Programming with JAVA	2 nd Edition, TMH	0-07-463542-5

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	UNIT 1/1	28/7	UNIT 1 :Introduction to Information Storage Management, Storage System Environment: Information Storage, Evolution of Storage Technology Architecture, Data Center Infrastructure	Black Board, chalk & Duster	

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**CMR INSTITUTE
OF TECHNOLOGY**



Session wise – Course Plan

Department of Computer Science and Engineering

SEMESTER : VII
BRANCH : ISE
SUBJECT : Storage Area Networks
SUBJECT CODE : 10IS765
NO OF HRS/WK : 5

NAME OF THE FACULTY : ESTHER PRISCILLA.E
DATE OF COMMENCEMENT : 28.7.2016
DATE OF CLOSING : 9.11.2016
CLASS STRENGTH :
TOTAL HRS : 60

2	UNIT 1/2	29/7	Challenges in Managing Information	Black Board, chalk & Duster	
3	UNIT 1/3	29/7	Information Life cycle Components of Storage System Environment	Black Board, chalk & Duster	
4	UNIT 1/4	1-Aug	Disk Drive Components, Performance	Black Board, chalk & Duster	
				PPT	
5	UNIT 1/5	3-Aug	Fundamental Laws, Components of Host	Black Board, chalk & Duster	
6	UNIT 1/6	4-Aug	Application Requirements, Disk Performance	Black Board, chalk & Duster	
7		5-Aug	Test		
8	UNIT 2/1	5-Aug	UNIT 2: Data Protection, Intelligent Storage System: Implementation of RAID, RAID Array Components	Black Board, chalk & Duster	
9	UNIT 2/2	8-Aug	RAID Levels, RAID levels Comparison	Black Board, chalk & Duster	
10	UNIT 2/3	10-Aug	RAID Impaction Disk Performance	Black Board, chalk & Duster	
11	UNIT 2/4	11-Aug	Hot Spares Components of an Intelligent Storage System	Black Board, chalk & Duster	

				PPT	
12	UNIT 2/5	12-Aug	Intelligent Storage Array	Black Board, chalk & Duster	Assignment-1
13		12-Aug	TEST		
14	UNIT 3/1	17-Aug	UNIT 3 :DAS, SCSI and SAN: Types of DAS, DAS Benefits and Limitations	Black Board, chalk & Duster	
15	UNIT 3/2	19-Aug	Disk Drive Interfaces	Black Board, chalk & Duster	
16	UNIT 3/3	20-Aug	Introduction to Parallel SCSI, Overview of Fibre Channel	Black Board, chalk & Duster	
17	UNIT 3/4	22-Aug	The SAN and Its Evolution, Components of SAN,	Black Board, chalk & Duster	
18	UNIT 3/5	22-Aug	Fibre Channel Connectivity, Fibre Channel Ports,	Black Board, chalk & Duster	
19	UNIT 3/6	24-Aug	Fibre Channel Architecture, Zoning,	Black Board, chalk & Duster	
				PPT	ASSIGNMENT 2
20	UNIT 3/7	26-Aug	Fibre Channel Login Types, Fibre Channel Topologies	Black Board, chalk & Duster	

21		27-Aug	TEST		
22	UNIT 4/1	29-Aug	UNIT 4:NAS IP SAN: General – Purpose Service vs. NAS Devices	Black Board, chalk & Duster	
23	UNIT 4/2	29-Aug	Benefits of NAS, NAS File I / O	Black Board, chalk & Duster	
24	UNIT 4/3	31-Aug	Components of NAS	Black Board, chalk & Duster	
25	UNIT 4/4	2-Sep	NAS Implementations	Black Board, chalk & Duster	
		9/6/2016 ,9/7/201 6,9/8/20 16	INTERNAL TEST		
26	UNIT 4/5	9-Sep	NAS95File-Sharing Protocols, NAS I/O Operations	Black Board, chalk & Duster	
27	UNIT 4/6	10-Sep	Factors Affecting NAS Performance and Availability ,iSCSI, FCIP	Black Board, chalk & Duster PPT	
28		10-Sep	TEST		
29	UNIT 5/1	14-Sep	UNIT 5:Content Address Storage, Storage Virtualization: Fixed Content and Archives, Types of Archive	Black Board, chalk & Duster	
30	UNIT 5/2	16-Sep	Features and Benefits of CAS, CAS Architecture	Black Board, chalk & Duster	

31	UNIT 5/3	17-Sep	Object Storage and Retrieval in CAS, CAS Examples Forms of Virtualization	Black Board, chalk & Duster	
32	UNIT 5/4	19-Sep	SNIA Storage Virtualization Taxonomy	Black Board, chalk & Duster	Assignment-3
33	UNIT 5/5	19-Sep	Storage Virtualizations Configurations	Black Board, chalk & Duster	
34	UNIT 5/6	21-Sep	Storage Virtualization Challenges, Types of Storage Virtualization	Black Board, chalk & Duster	
35		23-Sep	TEST		
36	UNIT 6/1	24-Sep	UNIT 6:Business Continuity, Backup and Recovery: Information Availability, BC Terminology	Black Board, chalk & Duster	
37	UNIT 6/2	26-Sep	BC Planning Life cycle, Failure Analysis	Black Board, chalk & Duster	
38	UNIT 6/3	26-Sep	Business Impact Analysis, BC Technology Solutions, Backup Purpose	Black Board, chalk & Duster	
39	UNIT 6/4	28-Sep	Backup Considerations, Backup Granularity	Black Board, chalk & Duster	
40	UNIT 6/5	3-Oct	Recovery Considerations, Backup Methods	Black Board, chalk & Duster	

41	UNIT 6/6	4-Oct	Backup Process, Backup and restore Operations	Black Board, chalk & Duster	
42	UNIT 6/7	5-Oct	Backup Topologies	Black Board, chalk & Duster	
43	UNIT 6/8	5-Oct	Backup in NAS Environments	Black Board, chalk & Duster PPT	Assignment 4
44		7-Oct	TEST		
45	UNIT 7/1	13-Oct	UNIT 7:Local Replication, Remote Replication: Source and Target, Uses of Local Replicas	Black Board, chalk & Duster	
46	UNIT 7/2	14-Oct	Data Consistency	Black Board, chalk & Duster	
47	UNIT 7/3	17-Oct	Local Replication Technologies	Black Board, chalk & Duster	
48	UNIT 7/4	17-Oct	Restore and Restart Considerations	Black Board, chalk & Duster	
49	UNIT 7/5	18-Oct	Creating Multiple Replicas,	Black Board, chalk & Duster	
50	UNIT 7/6	20-Oct	Management Interface	Black Board, chalk & Duster	
51	UNIT 7/7	21-Oct	Modes of Remote Replication	Black Board, chalk & Duster	
52	UNIT 7/8	22-Oct	Remote Replication Technologies	Black Board, chalk & Duster	
53	UNIT 7/9	22-Oct	Network Infrastructure	Black	

				Board, chalk & Duster PPT	
		24,25,26	INTERNAL TEST-2		
54	UNIT 8/1	27-Oct	UNIT 8:Securing the Storage Infrastructure, Managing the Storage Infrastructure: Storage Security Framework	Black Board, chalk & Duster	
55	UNIT 8/2	27-Oct	Risk Triad, Storage Security Domains	Black Board, chalk & Duster	
56	UNIT 8/3	2-Nov	Security Implementations in Storage Networking Monitoring the Storage Infrastructure	Black Board, chalk & Duster	
57	UNIT 8/4	4-Nov	Storage Management Activities,	Black Board, chalk & Duster	
58	UNIT 8/5	5-Nov	Storage Infrastructure Management Challenges	Black Board, chalk & Duster	
59	UNIT 8/6	7-Nov	Developing an Ideal Solution	Black Board, chalk & Duster	Assignment 5
60		7-Nov	Solving VTU Question paper	Black Board, chalk & Duster PPT	
61		9-Nov	Solving VTU Question paper	Black Board, chalk & Duster	

Sessional #	Syllabus
T1	Class # 01 – 27
T2	Class # 28 - 47

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	G. Somasundaram, Alok Shrivastava: Information Storage and Management	Wiley India, 2009.	978-81-265-3750-1
References	TB2	Ulf Troppens, Rainer Erkens and Wolfgang Muller: Storage Networks Explained	Wiley India, 2003.	978-81-265-1832-6
References	RB1	Rebert Spalding: Storage Networks, The Complete Reference	Tata McGraw Hill, 2003.	978-0-07-053292-2

Signature of faculty

Signature of HOD

Signature of Principal

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T: +9180 28524466 / 77

**CMR INSTITUTE
OF TECHNOLOGY**



Session wise – Course Plan

Department of Computer Science and Engineering

SEMESTER : VII
BRANCH : ISE

NAME OF THE FACULTY : ESTHER PRISCILLA.E
DATE OF COMMENCEMENT : 28.7.2016

SUBJECT : Storage Area Networks
 SUBJECT CODE : 10IS765
 NO OF HRS/WK : 5

DATE OF CLOSING : 9.11.2016
 CLASS STRENGTH :
 TOTAL HRS : 60

Session No	Chapter no (No of hrs planned for the chapter)	DATE	Topics planned for the Session	Teaching Aids	Assignments/ Tests planned for the chapter
			UNIT 1 :Introduction to Information Storage Management, Storage System Environment:	Black Board, chalk & Duster	
1	UNIT 1/1	28/7	Topics planned for the Session Evolution of Storage Technology Architecture, Data Center Infrastructure	Teaching Aids	Assignments/ Tests planned for the chapter
			Challenges in Managing Information	Black Board, chalk & Duster	
2	UNIT 1/2	29/7		Black Board, chalk & Duster	
3	UNIT 1/3	29/7	Information Life cycle Components of Storage System Environment	Black Board, chalk & Duster	
4	UNIT 1/4	1-Aug	Disk Drive Components, Performance	Black Board, chalk & Duster	
				PPT	
5	UNIT 1/5	3-Aug	Fundamental Laws, Components of Host	Black Board, chalk & Duster	
6	UNIT 1/6	4-Aug	Application Requirements, Disk Performance	Black Board, chalk & Duster	
7		5-Aug	Test		
8	UNIT 2/1	5-Aug	UNIT 2: Data Protection, Intelligent Storage System: Implementation of RAID, RAID Array Components	Black Board, chalk & Duster	

9	UNIT 2/2	8-Aug	RAID Levels, RAID levels Comparison	Black Board, chalk & Duster		
10	UNIT 2/3	10-Aug	RAID Impaction Disk Performance	Black Board, chalk & Duster		
11	UNIT 2/4	11-Aug	Hot Spares Components of an Intelligent Storage System	Black Board, chalk & Duster		
				PPT		
12	UNIT 2/5	12-Aug	Intelligent Storage Array	Black Board, chalk & Duster	Assignment-1	
13		12-Aug	TEST			
14	UNIT 3/1	17-Aug	UNIT 3 :DAS, SCSI and SAN: Types of DAS, DAS Benefits and Limitations	Black Board, chalk & Duster		
15	UNIT 3/2	19-Aug	Disk Drive Interfaces	Black Board, chalk & Duster		
16	UNIT 3/3	20-Aug	Introduction to Parallel SCSI, Overview of Fibre Channel	Black Board, chalk & Duster		
17	UNIT 3/4	22-Aug	The SAN and Its Evolution, Components of SAN,	Black Board, chalk & Duster		
18	UNIT 3/5	22-Aug	Fibre Channel Connectivity, Fibre Channel Ports,	Black Board, chalk & Duster		

19	UNIT 3/6	24-Aug	Fibre Channel Architecture, Zoning,	Black Board, chalk & Duster	ASSIGNMENT 2
				PPT	
20	UNIT 3/7	26-Aug	Fibre Channel Login Types, Fibre Channel Topologies	Black Board, chalk & Duster	
21		27-Aug	TEST		
22	UNIT 4/1	29-Aug	UNIT 4:NAS IP SAN: General – Purpose Service vs. NAS Devices	Black Board, chalk & Duster	
23	UNIT 4/2	29-Aug	Benefits of NAS, NAS File I/O	Black Board, chalk & Duster	
24	UNIT 4/3	31-Aug	Components of NAS	Black Board, chalk & Duster	
25	UNIT 4/4	2-Sep	NAS Implementations	Black Board, chalk & Duster	
		9/6/2016 ,9/7/2016 6,9/8/2016	INTERNAL TEST		
26	UNIT 4/5	9-Sep	NAS95File-Sharing Protocols, NAS I/O Operations	Black Board, chalk & Duster	
27	UNIT 4/6	10-Sep	Factors Affecting NAS Performance and Availability ,iSCSI, FCIP	Black Board, chalk & Duster PPT	

28		10-Sep	TEST		
29	UNIT 5/1	14-Sep	UNIT 5:Content Address Storage, Storage Virtualization: Fixed Content and Archives, Types of Archive	Black Board, chalk & Duster	
30	UNIT 5/2	16-Sep	Features and Benefits of CAS, CAS Architecture	Black Board, chalk & Duster	
31	UNIT 5/3	17-Sep	Object Storage and Retrieval in CAS, CAS Examples Forms of Virtualization	Black Board, chalk & Duster	
32	UNIT 5/4	19-Sep	SNIA Storage Virtualization Taxonomy	Black Board, chalk & Duster	Assignment-3
33	UNIT 5/5	19-Sep	Storage Virtualizations Configurations	Black Board, chalk & Duster	
34	UNIT 5/6	21-Sep	Storage Virtualization Challenges, Types of Storage Virtualization	Black Board, chalk & Duster	
35		23-Sep	TEST		
36	UNIT 6/1	24-Sep	UNIT 6:Business Continuity, Backup and Recovery: Information Availability, BC Terminology	Black Board, chalk & Duster	
37	UNIT 6/2	26-Sep	BC Planning Life cycle, Failure Analysis	Black Board, chalk & Duster	
38	UNIT 6/3	26-Sep	Business Impact Analysis, BC Technology Solutions, Backup	Black Board,	

			Purpose	chalk & Duster	
39	UNIT 6/4	28-Sep	Backup Considerations, Backup Granularity	Black Board, chalk & Duster	
40	UNIT 6/5	3-Oct	Recovery Considerations, Backup Methods	Black Board, chalk & Duster	
41	UNIT 6/6	4-Oct	Backup Process, Backup and restore Operations	Black Board, chalk & Duster	
42	UNIT 6/7	5-Oct	Backup Topologies	Black Board, chalk & Duster	
43	UNIT 6/8	5-Oct	Backup in NAS Environments	Black Board, chalk & Duster PPT	Assignment 4
44		7-Oct	TEST		
45	UNIT 7/1	13-Oct	UNIT 7:Local Replication, Remote Replication: Source and Target, Uses of Local Replicas	Black Board, chalk & Duster	
46	UNIT 7/2	14-Oct	Data Consistency	Black Board, chalk & Duster	
47	UNIT 7/3	17-Oct	Local Replication Technologies	Black Board, chalk & Duster	
48	UNIT 7/4	17-Oct	Restore and Restart Considerations	Black Board, chalk & Duster	
49	UNIT 7/5	18-Oct	Creating Multiple Replicas,	Black Board, chalk & Duster	
50	UNIT 7/6	20-Oct	Management Interface	Black	

				Board, chalk & Duster	
51	UNIT 7/7	21-Oct	Modes of Remote Replication	Black Board, chalk & Duster	
52	UNIT 7/8	22-Oct	Remote Replication Technologies	Black Board, chalk & Duster	
53	UNIT 7/9	22-Oct	Network Infrastructure	Black Board, chalk & Duster PPT	
		24,25,26	INTERNAL TEST-2		
54	UNIT 8/1	27-Oct	UNIT 8:Securing the Storage Infrastructure, Managing the Storage Infrastructure: Storage Security Framework	Black Board, chalk & Duster	
55	UNIT 8/2	27-Oct	Risk Triad, Storage Security Domains	Black Board, chalk & Duster	
56	UNIT 8/3	2-Nov	Security Implementations in Storage Networking Monitoring the Storage Infrastructure	Black Board, chalk & Duster	
57	UNIT 8/4	4-Nov	Storage Management Activities,	Black Board, chalk & Duster	
58	UNIT 8/5	5-Nov	Storage Infrastructure Management Challenges	Black Board, chalk & Duster	
59	UNIT 8/6	7-Nov	Developing an Ideal Solution	Black Board, chalk & Duster	Assignment 5
60		7-Nov	Solving VTU Question paper	Black Board, chalk & Duster PPT	

61		9-Nov	Solving VTU Question paper	Black Board, chalk & Duster	
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Sessional #	Syllabus
T1	Class # 01 – 27
T2	Class # 28 - 47

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	G. Somasundaram, Alok Shrivastava: Information Storage and Management	Wiley India, 2009.	978-81-265-3750-1
References	TB2	Ulf Troppens, Rainer Erkens and Wolfgang Muller: Storage Networks Explained	Wiley India, 2003.	978-81-265-1832-6
References	RB1	Rebert Spalding: Storage Networks, The Complete Reference	Tata McGraw Hill, 2003.	978-0-07-053292-2

Signature of faculty

Signature of HOD

Signature of Principal

Department of Computer Science and Engineering

SEMESTER : VII –A & B
BRANCH : CSE
SUBJECT : C# with .NET
SUBJECT CODE: 10CS761
NO OF HRS/WK: 5

NAME OF THE FACULTY : Shivaraj Veerappa Banakar
DATE OF COMMENCEMENT : 01/07/2016
DATE OF CLOSING :
CLASS STRENGTH :
TOTAL HRS : 54

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	1/1	1/8	The Philosophy of .NET: Understanding the Previous State of Affairs, The.NET Solution	Chalk & Talk	
2	2/1	1/8	The Building Block of the .NET Platform (CLR,CTS, and CLS)	”	
3	3/1	3/8	The Role of the .NET Base Class Libraries, What C# Brings to the Table, An Overview of .NET Binaries (aka Assemblies), the Role of the Common Intermediate Language, The Role of .NET Type Metadata, The Role of the assembly Manifest	”	Assignment- I
4	4/1	3/8	Compiling CIL to Platform – Specific Instructions, Understanding the Common Type System, Intrinsic CTS Data Types	”	
5	5/1	6/8	Understanding the Common Languages Specification, Understanding the Common Language Runtime	”	
6	6/1	8/8	A tour of the .NET Namespaces, Increasing Your Namespace Nomenclature, Deploying the .NET Runtime.	”	
7	1/2	8/8	Building C# Applications: The Role of the Command Line Compiler (csc.exe)	”	
8	2/2	10/8	Building C# Application using csc.exe Working with csc.exe	”	

			Response Files		
9	3/2	10/8	Generating Bug Reports, Remaining g C# Compiler Options	”	
10	4/2	16/8	The Command Line Debugger (cordbg.exe) Using the, Visual studio .NET IDE, Other Key Aspects of the VS.NET IDE	”	Assignment - II
11	5/2	17/8	C# “Preprocessor:” Directives	”	
12	6/2	17/8	An Interesting Aside: The System. Environment Class.	”	
13	1/3	19/8	C# Language Fundamentals: The Anatomy of Basic C# Class, Creating objects: Constructor Basics	”	
14	2/3	19/8	The Composition of a C# Application, Default assignment and Variable Scope, The C# Member Initialization Syntax, Basic Input and Output with the Console Class	”	
15	3/3	23/8	Understanding Value Types and Reference Types Converting Between Value Types and Reference Types: Boxing and Unboxing, Defining Program Constants	”	
16	4/3	24/8	Understanding Value Types and Reference Types Converting Between Value Types and Reference Types: Boxing and Unboxing, Defining Program Constants	”	
17	5/3	24/8	The Master Node: System, Object, The System Data Types (and C# Aliases) C# Iteration Constructs, C# Controls Flow Constructs	”	Assignment – III
18	6/3	26/8	The Complete Set of C# Operators, Defining Custom Class Methods	”	
19	7/3	26/8	Understating Static Methods, Methods Parameter Modifies, Array Manipulation in C#, String Manipulation in C#,	”	
20	8/3	30/8	C# Enumerations, Defining Structures in C#, Defining Custom Namespaces.	”	
21	1/4	31/8	Object- Oriented Programming with C# introduction	”	

22	2/4	31/8	Recapping the Pillars of OOP, The First Pillars: C#'s Encapsulation Services	”	
23	3/4	2/9	Pseudo- Encapsulation: Creating Read-Only Fields	‘	
24	4/4	2/9	The Second Pillar: C#'s Inheritance Supports, keeping Family Secrets: The “Protected” Keyword, Nested Type Definitions	”	Assignment – IV
25	5/4	13/9	The Third Pillar: C #'s Polymorphic Support, Casting Between	”	
26	6/4	14/9	Forms Defining of the C# Class, Definition the “Default Public Interface” of a Type	”	
27	1/5	14/9	Exceptions and Object Lifetime: Ode to Errors, Bugs, and Exceptions	”	
28	2/5	16/9	The Role of .NET Exception Handling, the System. Exception Base Class, Throwing a Generic Exception, Catching Exception	”	
29	3/5	16/9	CLR System – Level Exception (System. System Exception), Custom Application Level Exception (System. System Exception)	”	
30	4/5	20/9	Handling Multiple Exception, The Family Block, the Last Chance Exception Dynamically Identifying Application – and System Level Exception	”	
31	5/5	21/9	Debugging System Exception Using VS. NET, Understanding Object Lifetime, the CIT of “new”, The Basics of Garbage Collection	”	
32	6/5	21/9	Finalization a Type, The Finalization Process, Building an Ad Hoc Destruction Method	‘	
33	7/5	23/9	Garbage Collection Optimizations, The System. GC Type.	”	Assignment - V
34	1/6	23/9	Interfaces and Collections: Defining Interfaces Using C# Invoking Interface Members at the object Level, Exercising the Shapes Hierarchy	”	
35	2/6	27/9	, Understanding Explicit Interface Implementation, Interfaces As Polymorphic Agents, Building Interface Hierarchies	”	

36	3/6	28/9	Interfaces Using VS .NET, understanding the IConvertible Interface, Building a Custom Enumerator (IEnumerable and Enumerator)	”	
37	4/6	28/9	Building Cloneable objects (ICloneable)	”	
38	5/6	3/10	Building Comparable Objects (I Comparable)	”	
39	6/6	3/10	Exploring the system. Collections Namespace, Building a Custom Container (Retrofitting the Cars Type)	“	
40	1/7	6/10	Callback Interfaces, Delegates, and Events	”	
41	2/7	7/10	Advanced Techniques: Understanding Callback Interfaces, Understanding the .NET Delegate Type	”	Assignment - VI
42	3/7	7/10	Members of System. Multicast Delegate, The Simplest Possible Delegate Example, Building More a Elaborate Delegate Example	”	
43	4/7	13/10	Understanding Asynchronous Delegates, Understanding (and Using)Events.	”	
44	5/7	13/10	A Variation of the Cars Indexer Internal Representation of Type Indexer. Using C# Indexer from VB .NET	”	
45	6/7	18/10	Overloading operators, The Internal Representation of Overloading Operators, interacting with Overload Operator from Overloaded- Operator- Challenged Languages	”	
46	7/7	19/10	Creating Custom Conversion Routines, Defining Implicit Conversion Routines	”	
47	8/7	19/10	The Internal Representations of Customs Conversion Routines	“	
48	9/7	21/10	The Advances Keywords of C#, A Catalog of C# Keywords Building a Custom Indexer	”	
49	1/8	21/10	Understanding .NET assemblies: Problems with Classic COM Binaries, An Overview of .NET Assembly, Building a Simple File Test Assembly	”	Assignment - VII

50	2/8	28/10	A C#. Client Application, A Visual Basic .NET Client Application, Cross Language Inheritance, Exploring the Car Library's, Manifest, Exploring the Car Library's Types, Building the Multifile Assembly	”	
51	3/8	2/11	Using Assembly, Understanding Private Assemblies, Probing for Private Assemblies (The Basics), Private Assemblies XML Configurations Files	”	
52	4/8	2/11	Probing for Private Assemblies (The Details), Understanding Shared Assembly	”	
53	5/8	4/11	Understanding Shared Names, Building a Shared Assembly, Understanding Delay Signing	”	
54	6/8	4/11	Installing/Removing Shared Assembly, Using a Shared Assembly	”	
55		8/11	Revision		
56		9/11	Revision		
57		9/11	Revision		

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Syllabus for Internal Assessment Tests (IAT)

Sessional #	Syllabus
T1	Class # 01 - 31
T2	Class # 31 – 54
T3	

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication information	
			Edition // Publisher	ISBN
Text Book	TB1	Andrew Troelsen: Programming C# with .NET 3.0	Special Edition, Dream tech Press, India, 2007,4 Edition, Wiley India 2009	978-81-8128- 682-6
Text Book	TB2	E. Balagurusamy: Programming in C#	2 nd Edition, Tata McGraw Hill	9780070067570
Reference	RB1	Tom Archer: Inside	WP Publishers, 2001.	9789350041253
Reference	RB2	Herbert Schildt: C# - The Complete	Tata McGraw Hill, 2004	0070486751

Signature of faculty

Signature of HOD

Signature of Principal