

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Lesson Plan

SEMESTER : V -A
 BRANCH : ISE
 SUBJECT : Management & Entrepreneurship for IT Industry
 SUBJECT CODE : 15CS51
 NO OF HRS/WK : 5

NAME OF THE FACULTY : Mr.Manoj Challa
 DATE OF COMMENCEMENT : 07/08/2017
 DATE OF CLOSING : 25/11/2017
 CLASS STRENGTH : 59
 TOTAL HRS : 55

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covered As per plan
1	1/1	07/08/2017	Discussed about Course outcomes & Objectives Module1 -Introduction of Management and Entrepreneurship	Chalk & Talk		
2	2/1	08/08/2017	Functional areas of management	”		
3	3/1	10/08/2017	Meaning, nature and characteristics of management	”		
4	4/1	11/08/2017	Scope of Management	”		
5	5/1	12/08/2017	levels and history of management	”		
6	6/1	14/08/2017	Brief overview of evolution of management.	”		
7	7/1	16/08/2017	Planning- Nature, importance	”		
8	8/1	18/08/2017	Types and steps in planning	”		
9	9/1	19/08/2017	Organizing- nature and purpose	”		
10	10/1	21/08/2017	Types of organization	”		
11		22/08/2017	Revision of Module-1	”		
12	1/2	23/08/2017	Module2 - Staffing- meaning, process of recruitment and selection.	”		
13	2/2	28/08/2017	Process of recruitment and selection.	”		

14	3/2	29/08/2017	Directing - meaning and nature of directing	„		
15	4/2	30/08/2017	Leadership styles, motivation theories	“		
16	5/2	31/08/2017	Controlling- meaning, steps in controlling,	„	Assignment- I	
17	6/2	01/09/2017	Methods of establishing control	„		
18	7/2	05/09/2017	Communication- Meaning and importance	„		
19	8/2	06/09/2017	Coordination- meaning and importance	„		
20		07/09/2017	Revision of Module-2	„		
21	1/3	08/09/2017	Module-3 Entrepreneur – meaning of entrepreneur	„		
22	2/3	09/09/2017	Types of entrepreneurship, stages of entrepreneurial process	„		
23	3/3	12/09/2017	Stages of entrepreneurial process	“		
24	4/3	13/09/2017	Role of entrepreneurs in economic development,	„		
25	5/3	14/09/2017	Entrepreneurship in India,	„		
26	6/3	15/09/2017	Identification of business opportunities- market feasibility study,	„		
27	7/3	22/09/2017	Technical feasibility study, financial feasibility study and social feasibility study	„		
28	8/3	25/09/2017	Barriers to entrepreneurship	„		
29		26/09/2017	Revision of Module -3	„		
30	1/4	27/09/2017	Module – 4 Preparation of project and ERP - meaning of project	„		
31	2/4	28/09/2017	Project identification	„		
32	3/4	03/10/2017	Project selection, project report	“		
33	4/4	06/10/2017	Need and significance of report	„		
34	5/4	07/10/2017	Contents and formulation, guidelines by planning commission	„		

			for project report			
35	6/4	09/10/2017	Enterprise Resource Planning: Meaning and Importance- ERP	”		
36	7/4	10/10/2017	Functional areas of Management – Marketing / Sales-	”		
37	8/4	11/10/2017	Supply Chain Management	”		
38	9/4	13/10/2017	Finance and Accounting – Human Resources	”	Assignment- II	
39	10/4	14/10/2017	Types of reports and methods of report generation	“		
40		16/10/2017	Revision of Module-4	”		
41	1/5	17/10/2017	Module 5- Micro and Small Enterprises: Definition of micro and small enterprises	”		
42	1/5	23/10/2017	Characteristics and advantages of micro and small enterprises,	”		
43	2/5	25/10/2017	Steps in establishing micro and small enterprises	”		
44	3/5	26/10/2017	Government of India industrial policy 2007 on micro and small enterprises	”		
45	4/5	27/10/2017	Case study (Microsoft),	”		
46	5/5	28/10/2017	Case study(Captain G R Gopinath)	”		
47	6/5	30/10/2017	Case study (N R Narayana Murthy & Infosys)	“		
48	7/5	02/11/2017	Institutional support: MSME-DI,	”		
49	8/5	03/11/2017	NSIC, SIDBI, KIADB, KSSIDC	”		
50	9/5	04/11/2017	TECSOK, KSFC, DIC	”	Assignment- III	
51	10/5	09/11/2017	District level single window agency	”		
52	11/5	10/11/2017	Introduction to IPR.	”		
53	12/5	14/11/2017	Introduction to IPR.	”		
54		15/11/2017	Revision of Module-5	”		
55		16/11/2017	Discussion of Question banks	“		

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 24
T2	Class # 25 – 53
IMP	

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

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Principles of Management -P. C. Tripathi, P. N. Reddy;	Tata McGraw Hill, 4th / 6 Edition, 2010.	9788121903240
Text Book	TB2	Dynamics of Entrepreneurial Development & Management -Vasant Desai Himalaya Publishing House. ,		13: 9789350970287.
Text Book	TB3	Entrepreneurship Development -Small Business Enterprises -Poornima M Charantimath	Pearson Education – 2006.	0123964644 9780123964649
Text Book	TB4	Management and Entrepreneurship- Kanishka Bedi- Oxford University	Press-2017	13: 9780198061908.

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Signature of HOD

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Lesson Plan

SEMESTER : V -B
 BRANCH : ISE
 SUBJECT : Management & Entrepreneurship for IT Industry
 SUBJECT CODE : 15CS51
 NO OF HRS/WK : 5

NAME OF THE FACULTY : Mr.Manoj Challa
 DATE OF COMMENCEMENT : 07/08/2017
 DATE OF CLOSING : 25/11/2017
 CLASS STRENGTH : 60
 TOTAL HRS :

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covered As per plan
1	1/1	08/08/2017	Discussed about Course outcomes & Objectives Module1 -Introduction of Management and Entrepreneurship	Chalk & Talk		
2	2/1	09/08/2017	Functional areas of management	”		
3	3/1	10/08/2017	Meaning, nature and characteristics of management	”		
4	4/1	10/08/2017	Scope of Management	”		
5	5/1	12/08/2017	levels and history of management	”		
6	6/1	16/08/2017	Brief overview of evolution of management.	”		
7	7/1	17/08/2017	Planning- Nature, importance	”		
8	8/1	18/08/2017	Types and steps in planning	”		
9	9/1	18/08/2017	Organizing- nature and purpose	”		
10	10/1	21/08/2017	Types of organization	”		
11		23/08/2017	Revision of Module-1	”		
12	1/2	24/08/2017	Module2 - Staffing- meaning, process of recruitment and selection.	”		
13	2/2	28/08/2017	Process of recruitment and selection.	”		

14	3/2	28/08/2017	Directing - meaning and nature of directing	„		
15	4/2	30/08/2017	Leadership styles, motivation theories	“		
16	5/2	01/09/2017	Controlling- meaning, steps in controlling,	„	Assignment- I	
17	6/2	04/09/2017	Methods of establishing control	„		
18	7/2	05/09/2017	Communication- Meaning and importance	„		
19	8/2	05/09/2017	Coordination- meaning and importance	„		
20		07/09/2017	Revision of Module-2	„		
21	1/3	09/09/2017	Module-3 Entrepreneur – meaning of entrepreneur	„		
22	2/3	11/09/2017	Types of entrepreneurship, stages of entrepreneurial process	„		
23	3/3	12/09/2017	Stages of entrepreneurial process	“		
24	4/3	12/09/2017	Role of entrepreneurs in economic development,	„		
25	5/3	14/09/2017	Entrepreneurship in India,	„		
26	6/3	22/09/2017	Identification of business opportunities- market feasibility study,	„		
27	7/3	23/09/2017	Technical feasibility study, financial feasibility study and social feasibility study	„		
28	8/3	25/09/2017	Barriers to entrepreneurship	„		
29		25/09/2017	Revision of Module -3	„		
30	1/4	27/09/2017	Module – 4 Preparation of project and ERP - meaning of project	„		
31	2/4	03/10/2017	Project identification	„		
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			for project report			
35	6/4	09/10/2017	Enterprise Resource Planning: Meaning and Importance- ERP	”		
36	7/4	11/10/2017	Functional areas of Management – Marketing / Sales-	”		
37	8/4	12/10/2017	Supply Chain Management	”		
38	9/4	13/10/2017	Finance and Accounting – Human Resources	”	Assignment- II	
39	10/4	13/10/2017	Types of reports and methods of report generation	“		
40		16/10/2017	Revision of Module-4	”		
41	1/5	23/10/2017	Module 5- Micro and Small Enterprises: Definition of micro and small enterprises	”		
42	1/5	24/10/2017	Characteristics and advantages of micro and small enterprises,	”		
43	2/5	25/10/2017	Steps in establishing micro and small enterprises	”		
44	3/5	25/10/2017	Government of India industrial policy 2007 on micro and small enterprises	”		
45	4/5	27/10/2017	Case study (Microsoft),	”		
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47	6/5	31/10/2017	Case study (N R Narayana Murthy & Infosys)	“		
48	7/5	02/11/2017	Institutional support: MSME-DI,	”		
49	8/5	02/11/2017	NSIC, SIDBI, KIADB, KSSIDC	”		
50	9/5	04/11/2017	TECSOK, KSFC, DIC	”	Assignment- III	
51	10/5	10/11/2017	District level single window agency	”		
52	11/5	13/11/2017	Introduction to IPR.	”		
53	12/5	14/11/2017	Introduction to IPR.	”		
54		14/11/2017	Revision of Module-5	”		
55		16/11/2017	Discussion of Question banks	“		

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 24
T2	Class # 25 – 53
IMP	

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

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Principles of Management -P. C. Tripathi, P. N. Reddy;	Tata McGraw Hill, 4th / 6 Edition, 2010.	9788121903240
Text Book	TB2	Dynamics of Entrepreneurial Development & Management -Vasant Desai Himalaya Publishing House. ,		13: 9789350970287.
Text Book	TB3	Entrepreneurship Development -Small Business Enterprises -Poornima M Charantimath	Pearson Education – 2006.	0123964644 9780123964649
Text Book	TB4	Management and Entrepreneurship- Kanishka Bedi- Oxford University	Press-2017	13: 9780198061908.

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Session wise – Course Plan

Department of Information Science and Engineering

SEMESTER	: V -A	NAME OF THE FACULTY	: PV Reddy
BRANCH	: ISE	DATE OF COMMENCEMENT	: 07-08-2017
SUBJECT	: Automata Theory and Computability	DATE OF CLOSING	: 16-11-2017
SUBJECT CODE	: 15CS54	CLASS STRENGTH	: 59
NO OF HRS/WK	: 6	TOTAL HRS	: 62

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	Topics covered As per plan
1	1/1	7/8/17	MODULE-1: Why study the theory of Computation, Languages and Strings? Strings	Chalk & Talk		
2	2/1	08/08/17	Strings, Languages	”		
3	3/1	09/08/17	Languages	”		
4	4/1	11/08/17	Language Hierarchy Computation	”		
5	5/1	11/08/17	Finite State machines: Deterministic FSM	”		
6	6/1	12/08/17	Regular Languages Designing DFSM	”		
7	7/1	14/8/17	Designing FSM	”		
8	8/1	16/8/17	Non-deterministic FSMs	”		
9	9/1	17/8/17	Equivalence of DFSM & NFSM	”	Assignment- I	
10	10/1	18/8/17	Bidirectional transducers	”		
11	11/1	19/8/17	From FSMs to operational systems Simulators for FSMs	”		
12	12/1	21/8/17	Minimizing FSMs	”		
13	13/1	22/8/17	Canonical form of regular languages	”		

14	14/1	23/8/17	Finite transducers	”		
15	1/2	24/8/17	Module-2: Regular expressions (RE): What is RE?	“		
16	2/2	29/8/17	RE to FSM	”		
17	3/2	29/8/17	FSM to RE; Kleene’s theorem	”		
18	4/2	30/8/17	Applications of Res	”		
19	5/2	31/8/17	Manipulating and Simplifying Res	”		
20	6/2	01/09/17	Regular grammars: Definition	”		
21	7/2	04/09/17	Regular languages and Regular grammars	”	Assignment –II	
22	8/2	06/09/17	Regular languages and nonregular languages: How many RIs	”		
23	9/2	06/09/17	Show that language is regular	“		
24	10/2	07/09/17	Closure properties of RLs	”		
25	11/2	08/09/17	Closure properties of RLs	”		
26	12/2	09/09/17	To show that some languages are not regular	”		
27	13/2	11/09/17	To show that some languages are not regular	”		
28	1/3	13/09/17	Module-3: Introduction to rewrite systems and grammars	”		
29	2/3	13/9/17	CFGs and Languages	”		
30	3/3	14/9/17	Designing CFGs	”		
31	4/3	15/9/17	Simplifying CFGs	”		
32	5/3	22/9/17	Proving that a grammar is correct	“		
33	6/3	23/9/17	Derivation and parse trees	”		
34	7/3	26/9/17	Ambiguity	”		
35	8/3	26/9/17	Normal forms	”		
36	9/3	27/9/17	Pushdown Automata: Definition	”		

37	10/3	28/9/17	PDA examples	”	Assignment –III	
38	11/3	03/10/17	Nondeterministic PDA	”		
39	12/3	04/10/17	Equivalence of CFGs and PDAs	”		
40	13/3	07/10/17	Non determinism and Halting	”		
41	14/3	07/10/17	Alternative equivalent definitions of PDA, Alternatives that are not equivalent to the PDA	”		
42	1/4	09/10/17	Module-4: Context-free and non-context free languages: where do the context-free languages fit Showing a language is context free	”		
43	2/4	10/10/17	Pumping Lemma for CFL	”		
44	3/4	11/10/17	Pumping Lemma for CFL	”		
45	4/4	12/10/17	Closure properties of CFLs	”		
46	5/4	14/10/17	Decidable questions	”		
47	6/4	14/10/17	Undecidable questions	”	Assignment –IV	
48	7/4	16/10/17	TM Machine: Model, representation, Language	”		
49	8/4	17/10/17	Design of TM	”		
50	9/4	23/10/17	Techniques of TM construction	”		
51	10/4	24/10/17	Techniques of TM construction	”		
52	1/5	26/10/17	Module 5: Variants of Turing Machines	”		
53	2/5	26/10/17	The model of linear bounded automata	”		
54	3/5	27/10/17	Decidability: Definition of an algorithm, Decidability, Decidable languages	”		
55	4/5	28/10/17	Halting problem of TM, Post correspondence problem	”		
56	5//5	30/10/17	Complexity: Growth rate of functions	”	Assignment –V	
57	6/5	31/10/17	Complexity: Growth rate of functions	”		
58	7/5	03/11/17	The class of P an NP	”		
59	8/5	03/11/17	Quantum computation, Quantum computers	”		

60	9/5	04/11/17	Church- Turing thesis	”		
61	10/5	09/11/17	Solving Exam questions			
62	11/5	10/11/17	Solving Exam questions			

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 – 31
T2	Class # 31 – 51
IMP	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	T1	Elaine Rich, Automata, Computability, and Complexity	1st Edition, 2012/2013. Pearson.	978-81-317-8822-6
Text Book	T2	Theory of Computer Science: Automata, Languages and Computation	3rd Edition, 2011, PHI	978-81-203-2968-3
Reference Book	R1	JE Hopcroft, Rajeev Motwani, J Ullman Introduction to Automata theory, Languages, and Computation,	3 rd Edition, Pearson	
Reference Book	R2	Michael Sipser: Introduction to the theory of Computation,	3 rd edition, Cengage learning, 2013	

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Session wise – Course Plan

Department of Information Science and Engineering

SEMESTER	: V -B	NAME OF THE FACULTY	: PV Reddy
BRANCH	: ISE	DATE OF COMMENCEMENT	: 07-08-2017
SUBJECT	: Automata Theory and Computability	DATE OF CLOSING	: 16-11-2017
SUBJECT CODE	: 15CS54	CLASS STRENGTH	: 60
NO OF HRS/WK	: 6	TOTAL HRS	: 62

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	Topics covered As per plan
1	1/1	7/8/17	MODULE-1: Why study the theory of Computation, Languages and Strings? Strings	Chalk & Talk		
2	2/1	07/08/17	Strings, Languages	”		
3	3/1	09/08/17	Languages	”		
4	4/1	09/08/17	Language Hierarchy Computation	”		
5	5/1	10/08/17	Finite State machines: Deterministic FSM	”		
6	6/1	12/08/17	Regular Languages Designing DFSM	”		
7	7/1	14/8/17	Designing FSM	”		
8	8/1	14/8/17	Non-deterministic FSMs	”		
9	9/1	17/8/17	Equivalence of DFSM & NFSM	”	Assignment- I	
10	10/1	22/8/17	Bidirectional transducers	”		
11	11/1	22/8/17	From FSMs to operational systems Simulators for FSMs	”		
12	12/1	24/8/17	Minimizing FSMs	”		
13	13/1	24/8/17	Canonical form of regular languages	”		

14	14/1	28/8/17	Finite transducers	”		
15	1/2	30/8/17	Module-2: Regular expressions (RE): What is RE?	“		
16	2/2	31/8/17	RE to FSM	”		
17	3/2	31/08/17	FSM to RE; Kleene’s theorem	”		
18	4/2	04/09/17	Applications of Res	”		
19	5/2	04/09/17	Manipulating and Simplifying Res	”		
20	6/2	05/09/17	Regular grammars: Definition	”		
21	7/2	07/09/17	Regular languages and Regular grammars	”	Assignment –II	
22	8/2	08/09/17	Regular languages and nonregular languages: How many RIs	”		
23	9/2	08/09/17	Show that language is regular	“		
24	10/2	11/09/17	Closure properties of RLs	”		
25	11/2	11/09/17	Closure properties of RLs	”		
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28	1/3	15/9/17	Module-3: Introduction to rewrite systems and grammars	”		
29	2/3	15/9/17	CFGs and Languages	”		
30	3/3	23/9/17	Designing CFGs	”		
31	4/3	23/9/17	Simplifying CFGs	”		
32	5/3	25/9/17	Proving that a grammar is correct	“		
33	6/3	27/9/17	Derivation and parse trees	”		
34	7/3	28/9/17	Ambiguity	”		
35	8/3	28/9/17	Normal forms	”		
36	9/3	04/10/17	Pushdown Automata: Definition	”		

37	10/3	04/10/17	PDA examples	”	Assignment –III	
38	11/3	06/10/17	Nondeterministic PDA	”		
39	12/3	09/10/17	Equivalence of CFGs and PDAs	”		
40	13/3	10/10/17	Non determinism and Halting	”		
41	14/3	10/10/17	Alternative equivalent definitions of PDA, Alternatives that are not equivalent to the PDA	”		
42	1/4	12/10/17	Module-4: Context-free and non-context free languages: where do the context-free languages fit Showing a language is context free	”		
43	2/4	12/10/17	Pumping Lemma for CFL	”		
44	3/4	13/10/17	Pumping Lemma for CFL	”		
45	4/4	16/10/17	Closure properties of CFLs	”		
46	5/4	17/10/17	Decidable questions	”		
47	6/4	17/10/17	Undecidable questions	”	Assignment –IV	
48	7/4	24/10/17	TM Machine: Model, representation, Language	”		
49	8/4	24/10/17	Design of TM	”		
50	9/4	25/10/17	Techniques of TM construction	”		
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55	4/5	31/10/17	Halting problem of TM, Post correspondence problem	”		
56	5//5	02/11/17	Complexity: Growth rate of functions	”	Assignment –V	
57	6/5	04/11/17	Complexity: Growth rate of functions	”		
58	7/5	09/11/17	The class of P an NP	”		
59	8/5	09/11/17	Quantum computation, Quantum computers	”		

60	9/5	13/11/17	Church- Turing thesis	”		
61	10/5	13/11/17	Solving Exam questions			
62	11/5	14/11/17	Solving Exam questions			

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 – 31
T2	Class # 31 – 51
IMP	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	T1	Elaine Rich, Automata, Computability, and Complexity	1st Edition, 2012/2013. Pearson.	978-81-317-8822-6
Text Book	T2	Theory of Computer Science: Automata, Languages and Computation	3rd Edition, 2011, PHI	978-81-203-2968-3
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Reference Book	R2	Michael Sipser: Introduction to the theory of Computation,	3 rd edition, Cengage learning, 2013	

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Department of Information Science and Engineering

SEMESTER : V
BRANCH : ISE
SUBJECT : **Programming in Java**
SUBJECT CODE : **15CS561**
NO OF HRS/WEEK : 4

NAME OF THE FACULTY : **Mrs. Anu Jose**
DATE OF COMMENCEMENT : **17/8/2017**
DATE OF CLOSING : **25/11/2017**
CLASS STRENGTH : **60**
TOTAL HRS : **40**

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covered As per plan
1	1/1	17/08/2017	Module1 An Overview of Java: Object-Oriented Programming.	Chalk & Talk		
2	2/1	18/08/2017	A First Simple Program, Two Control Statements, Using Blocks of Code.	”		
3	3/1	19/08/2017	Lexical Issues, The Java Class Libraries.	”		
4	4/1	22/08/2017	Data Types, Variables, and Arrays: Java Is a Strongly Typed Language.	”		
5	5/1	24/08/2017	The Primitive Types, Integers, Floating-Point Types, Characters, Booleans, A Closer Look at Literals	”		
6	6/1	28/08/2017	Type Conversion and Casting, Automatic Type Promotion in Expressions	”		
7	7/1	29/08/2017	Arrays, A Few Words About Strings	”	Assignm ent- I	
8	8/1	31/08/2017	Tutorials and Discussion Question Bank Creation and Discussions	”		
9	1/2	4/09/2017	Module2 Operators: Arithmetic Operators, The Bitwise Operators	”		
10	2/2	5/09/2017	Relational Operators, Boolean Logical Operators	”		
11	3/2	6/09/2017	The Assignment Operator, The ? Operator, Operator Precedence, Using Parentheses	”		

12	4/2	8/09/2017	Control Statements: Java's Selection Statements, Iteration Statements, Jump Statements.	”	Assignment-II	
13	5/2	11/09/2017	Tutorials and Discussion Question Bank Creation and Discussions	”		
14	1/3	12/09/2017	Module3 Introducing Classes: Class Fundamentals, Declaring Objects, Assigning Object Reference Variables	”		
15	2/3	13/09/2017	Introducing Methods, Constructors, The this Keyword	”		
16	3/3	15/09/2017	Garbage Collection, The finalize() Method, Overloading Methods, Using Objects as Parameters	”		
17	4/3	23/09/2017	A Closer Look at Argument Passing, Returning Objects , Recursion	”		
18	5/3	25/09/2017	Introducing Access Control, A Stack Class, A Closer Look at Methods and Classes	”		
19	6/3	26/09/2017	Understanding static, Introducing final, Arrays Revisited	”		
20	7/3	28/09/2017	Inheritance: Inheritance, Using super, Creating a Multilevel Hierarchy, When Constructors Are Called	”		
21	8/3	4/10/2017	Method Overriding, Dynamic Method Dispatch	”		
22	9/3	6/10/2017	Using Abstract Classes, Using final with Inheritance (Already discussed in lecture 19), and The Object Class.	”	Assignment- III	
23	10/3	7/10/2017	Tutorials and Discussion Question Bank Creation and Discussions	”		
24	1/4	10/10/2017	Module 4 Exception Handling: Exception-Handling Fundamentals, Exception Types,	”		
25	2/4	12/10/2017	Uncaught Exceptions, Using try and catch, Multiple catch Clauses,	”		
26	3/4	13/10/2017	Nested try Statements, finally,	”		
27	4/4	14/10/2017	throw, throws, Java's Built-in Exceptions	”		
28	5/4	17/10/2017	Creating Your Own Exception Subclasses	”		
29	6/4	24/10/2017	Chained Exceptions, Using Exceptions.	”		

30	7/4	25/10/2017	Creating Your Own Exception	“		
31	8/4	26/10/2017	Packages and Interfaces: Packages, Access Protection, Importing Packages, Interfaces	”	Assignm ent- IV	
32	9/4	28/10/2017	Tutorials and Discussion Question Bank Creation and Discussions	”		
33	1/5	31/10/2017	Module5 I/O Basics: Reading Console Input, Writing Console Output, The PrintWriter Class, Reading and Writing Files	”		
34	2/5	2/11/2017	Applet Fundamentals	”		
35	3/5	3/11/2017	The transient and volatile Modifiers, Using instanceof, strictfp, Native Methods,	”		
36	4/5	9/11/2017	Using assert, Static Import, Enumerations, Type Wrappers, Invoking Overloaded Constructors Through this()	”		
37	5/5	13/11/2017	String Handling : The String Constructors, String Length, Special String Operations, Character Extraction, String Comparison, Searching Strings, Modifying a String, Data Conversion Using valueOf(), Changing the Case of Characters Within a String,	”	Assignm ent- V	
38	6/5	14/11/2017	Additional String Methods ,StringBuffer, StringBuilder	”		
39	7/5	15/11/2017	Tutorials and Discussion Question Bank Creation and Discussions	“		
40		14/11/2017	Previous Year Question paper Discussions	”		

Syllabus for Internal Assessment Tests (IAT) *

Sessional #	Syllabus
T1	Class # 01 - 16
T2	Class # 16 –35
T3	Class # 35- – 40

*: 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, Tata McGraw Hill, 2007.	
References	RB1	Mahesh Bhawe and Sunil Patekar- "Programming with Java"	First Edition, Pearson Education, 2008.	9788131720806
References	RB2	Rajkumar Buyya, S Thamarasi selvi, xingchen chu, Object oriented Programming with java	Tata McGraw Hill education private limited.	
References	RB3	E Balagurusamy, Programming with Java A primer	Tata McGraw Hill companies.	
References	RB4	. Anita Seth and B L Juneja, JAVA One step Ahead	Oxford University Press, 2017.	

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SEMESTER : V A
BRANCH : ISE
SUBJECT : ADVANCED JAVA AND J2EE
SUBJECT CODE : 15CS553
NO OF HRS/WK : 5

NAME OF THE FACULTY : PRASAD M S
DATE OF COMMENCEMENT : 07/08/2017
DATE OF CLOSING : 25/11/2017
CLASS STRENGTH : 59
TOTAL HRS : 55

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covered As per plan
1	1/1	7/8/2017	Module 1 Enumerations, Autoboxing and Annotations(metadata): Enumerations, Enumeration fundamentals, the values() and valueOf() Methods	Chalk & Talk/ Hands on		
2	2/1	8/8/2017	java enumerations are class types, enumerations Inherits Enum, example	„		
3	3/1	8/8/2017	type wrappers, Autoboxing, Autoboxing and Methods, Autoboxing/Unboxing occurs in Expressions	„		
4	4/1	10/8/2017	Autoboxing/Unboxing Boolean and character values , A word of Warning. Autoboxing/Unboxing helps prevent errors	„		
5	5/1	12/8/2017	Annotations, Annotation basics	„		
6	6/1	14/8/2017	specifying retention policy	„		
7	7/1	16/8/2017	Obtaining Annotations at run time by use of reflection	„		
8	8/1	16/8/2017	Annotated element Interface, Using Default values	„		
9	9/1	18/8/2017	Marker Annotations	„		
10	10/1	21/8/2017	Single Member annotations, Built- In annotations	„		

11	11/1	22/8/2017	Revision	”		
12	1/2	23/8/2017	Module 2: The collections and Framework: Collections Overview, Recent Changes to Collections	”		
13	2/2	23/8/2017	The Collection Interfaces	”		
14	3/2	28/8/2017	The Collection Classes	”		
15	4/2	30/8/2017	Accessing a collection Via an Iterator	”		
16	5/2	31/8/2017	Storing User Defined Classes in Collections	”		
17	6/2	1/9/2017	The Random Access Interface, Why Generic Collections?	”	Assignm ent- I	
18	7/2	1/9/2017	Working With Maps	”		
19	6/2	5/9/2017	Comparators	”		
20	8/2	7/9/2017	The Collection Algorithms	”		
21	9/2	8/9/2017	The legacy Classes and Interfaces	”		
22	10/2	9/9/2017	Parting Thoughts on Collections	”		
23	11/2	9/9/2017	Revision	”		
24	1/3	12/9/2017	Module 3 Introduction, Networking Basics, Protocols, Internet Address (IPv4 and IPv6), Ports	”		
25	2/3	14/9/2017	Classes and Interfaces in java.net, class InetAddress, Constructors of class in Serverside Program InetAddress, Methods of classInet Address	”		
26	3/3	15/9/2017	class URL, Constructors of URL class, Methods of URL class, class URL Connection	”		
27	4/3	22/9/2017	TCP/IP Server Socket Programming, Constructors of classSocket, Methods of class Socket, Class ServerSocket	”		
28	5/3	22/9/2017	Constructors of class ServerSocket, Methods of class ServerSocket	”		
29	6/3	25/9/2017	Communication through Sockets, Client-side Socketp programming	”		
30	7/3	27/9/2017	Users/UnreliableDatagramProtocol, classDatagramPacket, Constructors	”		

31	8/3	28/9/2017	Methods of class Datagram Packets, DatagramSocket Class	”		
32	9/3	3/10/2017	Constructors of class DatagramSocket, Methods of class DatagramSocket, Programs for Sending and Receiving Datagram	“		
33	10/3	3/10/2017	Creating a Datagram Packet for Sending and Receiving ,Writing Code for Receiving Datagram	”		
34	11/3	6/10/2017	Revision	”		
35	1/4	9/10/2017	Module 4 Java Beans Introduction to Java Beans, Attributes of Beans, Benefits of Using Beans, Properties of a Bean, Java Bean API, Interfaces	”		
36	2/4	10/10/2017	Classes of java. Bean package(Java SE 8),class Beans, Building Java Beans with NETBEAN IDE, Source Code Generated by IDE	”	Assignm ent -II	
37	3/4	11/10/2017	Changing Properties of Components, Class Methods, class Property Change Support, Building a Composite Component Bean	”		
38	4/4	11/10/2017	JAR Files, Creating a JAR file, Viewing the contents of a JAR File	”		
39	5/4	13/10/2017	Java Beans Project 1—Construct a Bean Containing a Label and a Scrollbar, Java Beans Project 2— Construct a Bean to illustrate MouseEvents, Java Beans Project 3— Construct a Bean to illustrate Working of RadioButtons	“		
40	6/4	16/10/2017	Java Beans Project 4—Construct a Bean Containing ComboBox, Java Beans Project 5, Application Program, Application Project 1, Application Project 2	”		
41	7/4	17/10/2017	Java Servlets: Introduction, HTTP Basics, Life Cycle of a Servlet, Servlet Architecture, Setting up Web Server for Servlet Deployment	”		
42	8/4	23/10/2017	Classes Defined in javax.servlet.http Package, Interfaces Defined in javax.servlet.http Package, Handling HTTP Request and	”		

			Response			
43	9/4	23/10/2017	Writing Servlet, Reading Servlet Parameters, Classes in javax.servlet Package	„		
44	10/4	25/10/2017	Session Tracking and Session Management, Session Tracking Techniques	„		
45	11/4	27/10/2017	Http Redirects in Servlets, Securing Servlets, Application Program.	„		
46	1/5	28/10/2017	Module 5 Introduction, JDBC Architecture	„		
47	2/5	30/10/2017	Two-tier Architecture for DataAccess, Three-tier Architecture for DataAccess	„		
48	3/5	30/10/2017	Installing MySQL and MySQL Connector/J,SQL Statements	„	Assignment –III	
49	4/5	2/11/2017	JDBC Environment Setup, JDBC Connectivity Model and API	„		
50	5/5	4/11/2017	Establishing JDBC Database Connections	„		
51	6/5	9/11/2017	Load and Register the JDBC Driver, Defining the ConnectionURL	„		
52	7/5	10/11/2017	ResultSet Interface, Navigating the ResultSet ,	„		
53	8/5	10/11/2017	ResultSet MetaData interface	„		
54	9/5	14/11/2017	Creating JDBC Application, JDBC Batch Processing	„		
55	10/5	16/11/2017	JDBC Transaction Management, Application Programs.	„		

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Syllabus for Internal Assessment Tests (IAT)

Sessional #	Syllabus
T1	Class # 01 - 23
T2	Class # 24 – 45
IMP	Class # 46 – 55

*: 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	7th Edition, Tata McGraw Hill, 2007	978-0-07-063677-4
Text Book	TB2	Uttam K. Roy , Advanced JAVA Programming	Oxford University Press	
References	RB1	Jim Keogh: J2EE - The Complete Reference	Tata McGraw Hill, 2007	1449335942
References	RB2	Y. Daniel Liang: Introduction to JAVA Programming	7th Edition, Pearson Education, 2007.	
References	RB3	Stephanie Bodoff et al: The J2EE Tutorial	2nd Edition, Pearson Education, 2004	

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SEMESTER : V B
BRANCH : ISE
SUBJECT : ADVANCED JAVA AND J2EE
SUBJECT CODE : 15CS553
NO OF HRS/WK : 5

NAME OF THE FACULTY : PRASAD M S
DATE OF COMMENCEMENT : 07/08/2017
DATE OF CLOSING : 25/11/2017
CLASS STRENGTH : 60
TOTAL HRS : 56

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planed for the chapter	Topics covered As per plan
1	1/1	7/8/2017	Module 1 Enumerations, Autoboxing and Annotations(metadata): Enumerations, Enumeration fundamentals, the values() and valueOf() Methods	Chalk & Talk/ Hands on		
2	2/1	8/8/2017	java enumerations are class types, enumerations Inherits Enum, example	„		
3	3/1	9/8/2017	type wrappers, Autoboxing, Autoboxing and Methods, Autoboxing/Unboxing occurs in Expressions	„		
4	4/1	10/8/2017	Autoboxing/Unboxing Boolean and character values, A word of Warning. Autoboxing/Unboxing helps prevent errors	„		
5	5/1	11/8/2017	Annotations, Annotation basics	„		
6	6/1	14/8/2017	specifying retention policy	„		
7	7/1	16/8/2017	Obtaining Annotations at run time by use of reflection	„		
8	8/1	17/8/2017	Annotated element Interface, Using Default values	„		
9	9/1	18/8/2017	Marker Annotations	„		
10	10/1	19/8/2017	Single Member annotations, Built- In annotations	„		

11	11/1	22/8/2017	Revision	”		
12	1/2	23/8/2017	Module 2: The collections and Framework: Collections Overview, Recent Changes to Collections	”		
13	2/2	24/8/2017	The Collection Interfaces	”		
14	3/2	28/8/2017	The Collection Classes	”		
15	4/2	29/8/2017	Accessing a collection Via an Iterator	”		
16	5/2	31/8/2017	Storing User Defined Classes in Collections	”		
17	6/2	1/9/2017	The Random Access Interface, Why Generic Collections?	”	Assignm ent- I	
18	7/2	4/9/2017	Working With Maps	”		
19	6/2	5/9/2017	Comparators	”		
20	8/2	6/9/2017	The Collection Algorithms	”		
21	9/2	8/9/2017	The legacy Classes and Interfaces	”		
22	10/2	9/9/2017	Parting Thoughts on Collections	”		
23	11/2	11/9/2017	Revision	”		
24	1/3	12/9/2017	Module 3 Introduction, Networking Basics, Protocols, Internet Address (IPv4 and IPv6), Ports	”		
25	2/3	13/9/2017	Classes and Interfaces in java.net, class InetAddress, Constructors of class in Serverside Program InetAddress, Methods of classInet Address	”		
26	3/3	15/9/2017	class URL, Constructors of URL class, Methods of URL class, class URL Connection	”		
27	4/3	22/9/2017	TCP/IP Server Socket Programming, Constructors of classSocket, Methods of class Socket, Class ServerSocket	”		
28	5/3	23/9/2017	Constructors of class ServerSocket, Methods of class ServerSocket	”		
29	6/3	25/9/2017	Communication through Sockets, Client-side Socketp programming	”		
30	7/3	26/9/2017	Users/UnreliableDatagramProtocol, classDatagramPacket, Constructors	”		

31	8/3	28/9/2017	Methods of class Datagram Packets, DatagramSocket Class	”		
32	9/3	3/10/2017	Constructors of class DatagramSocket, Methods of class DatagramSocket, Programs for Sending and Receiving Datagram	“		
33	10/3	4/10/2017	Creating a Datagram Packet for Sending and Receiving ,Writing Code for Receiving Datagram	”		
34	11/3	6/10/2017	Revision	”		
35	1/4	7/10/2017	Module 4 Java Beans Introduction to Java Beans, Attributes of Beans, Benefits of Using Beans, Properties of a Bean, Java Bean API, Interfaces	”		
36	2/4	10/10/2017	Classes of java. Bean package(Java SE 8),class Beans, Building Java Beans with NETBEAN IDE, Source Code Generated by IDE	”	Assignm ent -II	
37	3/4	11/10/2017	Changing Properties of Components, Class Methods, class Property Change Support, Building a Composite Component Bean	”		
38	4/4	12/10/2017	JAR Files, Creating a JAR file, Viewing the contents of a JAR File	”		
39	5/4	13/10/2017	Java Beans Project 1—Construct a Bean Containing a Label and a Scrollbar, Java Beans Project 2— Construct a Bean to Illustrate MouseEvents, Java Beans Project 3— Construct a Bean to Illustrate Working of RadioButtons	“		
40	6/4	14/10/2017	Java Beans Project 4—Construct a Bean Containing ComboBox, Java Beans Project 5, Application Program, Application Project 1, Application Project 2	”		
41	7/4	17/10/2017	Java Servlets: Introduction, HTTP Basics, Life Cycle of a Servlet, Servlet Architecture, Setting up Web Server for Servlet Deployment	”		
42	8/4	23/10/2017	Classes Defined in javax.servlet.http Package, Interfaces Defined in javax.servlet.http Package, Handling HTTP Request and Response	”		

43	9/4	24/10/2017	Writing Servlet, Reading Servlet Parameters, Classes in javax.servlet Package	„		
44	10/4	25/10/2017	Session Tracking and Session Management, Session Tracking Techniques	„		
45	11/4	26/10/2017	Http Redirects in Servlets, Securing Servlets, Application Program.	„		
46	1/5	28/10/2017	Module 5 Introduction, JDBC Architecture	„		
47	2/5	30/10/2017	Two-tier Architecture for DataAccess, Three-tier Architecture for DataAccess	‘		
48	3/5	31/10/2017	Installing MySQL and MySQL Connector/J,SQL Statements	„	Assignment –III	
49	4/5	2/11/2017	JDBC Environment Setup, JDBC Connectivity Model and API	„		
50	5/5	3/11/2017	Establishing JDBC Database Connections	„		
51	6/5	4/11/2017	Load and Register the JDBC Driver, Defining the ConnectionURL	„		
52	7/5	9/11/2017	ResultSet Interface, Navigating the ResultSet ,	„		
53	8/5	10/11/2017	ResultSet MetaData interface	„		
54	9/5	13/11/2017	Creating JDBC Application, JDBC Batch Processing	„		
55	10/5	14/11/2017	JDBC Transaction Management, Application Programs.	‘		
56	11/5	15/11/2017	Revision	„		

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Syllabus for Internal Assessment Tests (IAT)

Sessional #	Syllabus
T1	Class # 01 - 23
T2	Class # 24 – 45
IMP	Class # 46 – 56

*: 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	7th Edition, Tata McGraw Hill, 2007	978-0-07-063677-4
Text Book	TB2	Uttam K. Roy , Advanced JAVA Programming	Oxford University Press	
References	RB1	Jim Keogh: J2EE - The Complete Reference	Tata McGraw Hill, 2007	1449335942
References	RB2	Y. Daniel Liang: Introduction to JAVA Programming	7th Edition, Pearson Education, 2007.	
References	RB3	Stephanie Bodoff et al: The J2EE Tutorial	2nd Edition, Pearson Education, 2004	

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SEMESTER	:V	NAME OF THE FACULTY	:Prasad B S
BRANCH	:Open Elective	DATE OF COMMENCEMENT	:16/08/2017
SUBJECT	:Artificial Intelligence	DATE OF CLOSING	:25/11/2017
SUBJECT CODE	:15CS562	CLASS STRENGTH	:67
NO OF HRS/WK	:4	TOTAL HRS	:40

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	Topics covered As per plan
1	1/1	17/08/17	Module 1 -Introduction to AI, AI problems	Chalk & Talk		
2	2/1	18/08/17	AI technique, Level of Model, Criteria for success	„		
3	3/1	19/08/17	State space search, production systems	„		
4	4/1	22/08/17	Problem characteristics, Production system characteristics	„		
5	5/1	24/08/17	Issues in the design of search programs, additional problems	„		
6	6/1	29/08/17	Heuristic search techniques, Generate and test, Hill climbing	„		
7	7/1	31/08/17	Best First Search, Problem reduction	„	Assignment- I	
8	8/1	04/09/17	Constraint Satisfaction, Means-ends analysis	„		
9	1/2	05/09/17	Module II - Approaches to knowledge representation and issues	„		
10	2/2	06/09/17	Using Predicate Logic, representing simple facts	„		
11	3/2	08/09/17	Representing Instance and ISA relationships	„		
12	4/2	11/09/17	Computable Functions and predictions	„		

13	5/2	12/09/17	Resolution	”		
14	6/2	13/09/17	Natural Deduction, Representing knowledge using rules.	”		
15	7/2	15/09/17	Procedural Vs Declarative knowledge, Logic programming	“		
16	8/2	13/09/17	Forward vs Backward reasoning, Matching, Control knowledge.	”	Assignment -II	
17	1/3	23/09/17	Module III -Symbolic Reasoning under uncertainty: Nonmonotonic reasoning	”		
18	2/3	25/09/17	Implementation issues	”		
19	3/3	26/09/17	Augmenting a Problem solver	”		
20	4/3	28/09/17	DFS-Implementation	”		
21	5/3	04/10/17	BFS -Implementation	”		
22	6/3	06/10/17	Probability and Bayes Theorem	”		
23	7/3	07/10/17	Certainty factors and Rule based system. Bayesian Networks	“		
24	8/3	10/10/17	Dumpster shafer theory, Fuzzy logic, Semantic nets and frames.	”	Assignment –III	
25	1/4	12/10/17	Module IV - Conceptual dependency, Scripts	”		
26	2/4	13/10/17	Cyc project	”		
27	3/4	14/10/17	Game playing, Overview	”		
28	4/4	17/10/17	Minmax search procedure	”		
29	5/4	24/10/17	Adding alpha beta cutoffs	”		
30	6/4	25/10/17	Additional refinements	”		
31	7/4	26/10/17	Iterative deepening	”		
32	8/4	28/10/17	Refrences on Specific Games.	“		
33	1/5	31/10/17	Module V - Natural Language processing, Syntactic processing	”	Assignment -IV	
34	2/5	02/11/17	Semantic analysis	”		
35	3/5	03/11/17	Discourse and pragmatic processing	”		
36	4/5	09/11/17	Statistical natural language processing	”		

37	5/5	13/11/17	Learning, Rote learning, learning by advice	”		
38	6/5	14/11/17	Learning in problem solving, Induction, Explanation	”	Assignment -V	
39	7/5	15/11/17	Neural net learning and Genetic Learning	“		
40	8/5	15/11/17	Expert system shells	”		

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Syllabus for Internal Assessment Tests (IAT)

Sessional #	Syllabus
T1	Class # 01 – 18
T2	Class # 19 – 36
IMP	

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

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	E. Rich , K. Knight & S. B. Nair - Artificial Intelligence	3rd Edition, McGraw Hill, 2011.	0070087709
References	RB1	Stuart Rusell, Peter Norving- Artificial Intelligence: A Modern Approach	2 nd Edition , Pearson Education	0-13-604259-7
References	RB2	Dan W. Patterson, Introduction to Artificial Intelligence and Expert Systems	Pentice Hal of India	9788120307773, 8120307771
References	RB3	G. Luger, “Artificial Intelligence: Structures and Strategies for complex problem Solving”,	4 th Edition, Pearson education	0321545893
References	RB4	Artificial Intelligence and Expert Systems Development by D W Rolston	3rd Edition, McGraw Hill, 2011.	0070536147
References	RB5	N.P. Padhy “Artificial Intelligence and Intelligent Systems”	Oxford University Press-2015	0195671546

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

SEMESTER	: V A	NAME OF THE FACULTY	: Poornima HN
BRANCH	: ISE	DATE OF COMMENCEMENT	: 07/08/2017
SUBJECT	: Database Management System	DATE OF CLOSING	: 25/11/2017
SUBJECT CODE	: 15CS53	CLASS STRENGTH	: 59
NO OF HRS/WK	: 6	TOTAL HRS	: 67

LESSON PLAN

Session Plan	(No of hrs planed for the chapter /Unit No	Date	Topics Planned for the session	Teaching Aids	Assignments / Tests planned for the chapter	Topics covered As per plan
1	1/1	7-Aug-17	Module 1 Introduction to Databases: Introduction	Chalk & Talk		
2	2/1	8-Aug-17	Characteristics of database approach	Chalk & Talk		
3	3/1	9-Aug-17	Activity : design a database system	Chalk & Talk		
4	4/1	9-Aug-17	Advantages of using the DBMS approach History of database applications	Chalk & Talk		
5	5/1	10-Aug-17	Overview of Database Languages and Architectures: Data Models Schemas Instances	Chalk & Talk		
6	6/1	11-Aug-17	Three schema architecture data independence Database languages Interfaces	Chalk & Talk		
7	7/1	14-Aug-17	Conceptual Data Modelling using Entities and Relationships: Entity types Entity sets Attributes Roles Structural constraints	Chalk & Talk	Assignment - 1 Entity types	

			Weak entity types			
8	8/1	15-Aug-17	ER diagrams	Chalk & Talk		
9	9/1	16-Aug-17	Examples	Chalk & Talk		
10	10/1	17-Aug-17	Specialization and Generalization.	Chalk & Talk		
11	11/1	17-Aug-17	Revision of Module 1	Chalk & Talk		
12	1/2	18-Aug-17	Module 2 Relational Model: Relational Model Concepts, Relational Model Constraints	Chalk & Talk		
13	2/2	19-Aug-17	Relational database schemas	Chalk & Talk		
14	3/2	22-Aug-17	Update Operations	Chalk & Talk		
15	4/2	23-Aug-17	Transactions, Dealing with Constraint Violations	Chalk & Talk		
16	5/2	24-Aug-17	Relational Algebra: Unary and Binary relational operations	Chalk & Talk		
17	6/2	24-Aug-17	Additional relational operations (aggregate, grouping, etc.) Examples of Queries in relational algebra	Chalk & Talk		
18	7/2	28-Aug-17	Mapping Conceptual Design into a Logical Design: Mapping Conceptual Design into a Logical Design	Chalk & Talk		
19	8/2	29-Aug-17	Relational Database Design using ER-to-Relational mapping.	Chalk & Talk	Assignment - 2	
20	9/2	31-Aug-17	SQL data definition and data types	Chalk & Talk		
21	10/2	1-Sep-17	Specifying constraints in SQL	Chalk & Talk		
22	11/2	4-Sep-17	Retrieval queries in SQL	Chalk & Talk		
23	12/2	4-Sep-17	INSERT, DELETE, UPDATE statements in SQL , Additional features of SQL	Projector		
24	13/2	5-Sep-17	Revision of Module 2	Chalk & Talk		
25	1/3	6-Sep-17	Module – 3 SQL : Advances Queries: More complex SQL retrieval queries	Chalk & Talk		
26	2/3	8-Sep-17	More complex SQL retrieval queries (contd)	Chalk & Talk		
27	3/3	9-Sep-17	Specifying constraints as assertions and action triggers	Chalk & Talk		
28	4/3	11-Sep-17	Views in SQL Schema change statements in SQL,	Chalk & Talk	Assignment - 3	
29	5/3	11-Sep-17	Database Application Development: Database Application Development:	Chalk & Talk		

			Accessing databases from applications			
30	6/3	12-Sep-17	An introduction to JDBC, JDBC classes and interfaces	Chalk & Talk		
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32	8/3	15-Sep-17	Stored Procedures	Chalk & Talk		
33	9/3	22-Sep-17	Case study: The internet Bookshop.	Chalk & Talk		
34	10/3	23-Sep-17	Internet Applications: The three-Tier application architecture,	Chalk & Talk		
35	11/3	23-Sep-17	The presentation layer, The Middle Tier	Projector		
36	12/3	25-Sep-17	Revision of Module 3	Chalk & Talk		
37	1/4	26-Sep-17	Module – 4 Normalization: Database Design Theory Introduction to Normalization using Functional and Multivalued Dependencies: Informal design guidelines for relation schema	Chalk & Talk		
38	2/4	28-Sep-17	Informal design guidelines for relation schema	Chalk & Talk		
39	3/4	3-Oct-17	Functional Dependencies	Chalk & Talk		
40	4/4	4-Oct-17	Normal Forms based on Primary Keys	Chalk & Talk	Assignment - 4	
41	5/4	4-Oct-17	Second and Third Normal Forms	Chalk & Talk		
42	6/4	6-Oct-17	Boyce-Codd Normal Form, Multivalued Dependency and Fourth Normal Form	Chalk & Talk		
43	7/4	7-Oct-17	Join Dependencies and Fifth Normal Form	Chalk & Talk		
44	8/4	10-Oct-17	Normalization Algorithms: Inference Rules	Chalk & Talk		
45	9/4	11-Oct-17	Equivalence, and Minimal Cover	Chalk & Talk		
46	10/4	12-Oct-17	Properties of Relational Decompositions, Algorithms for Relational Database Schema Design	Chalk & Talk		
47	11/4	12-Oct-17	Nulls, Dangling tuples, and alternate Relational Designs	Chalk & Talk		
48	12/4	13-Oct-17	Further discussion of Multivalued dependencies and 4NF, Other dependencies and Normal Forms	Projector		
49	13/4	14-Oct-17	Revision of Module 4	Chalk & Talk		
50	1/5	17-Oct-17	Module – 5 Transaction Processing: Introduction to Transaction Processing	Chalk & Talk		
51	2/5	23-Oct-17	Transaction and System concepts	Chalk & Talk		
52	3/5	24-Oct-17	Desirable properties of Transactions, Characterizing schedules based on recoverability	Chalk & Talk		
53	4/5	24-Oct-17	Characterizing schedules based on	Chalk & Talk	Assignment - 5	

			Serializability			
54	5/5	25-Oct-17	Transaction support in SQL	Chalk & Talk		
55	6/5	26-Oct-17	Concurrency Control in Databases: Two-phase locking techniques for Concurrency Control	Chalk & Talk		
56	7/5	28-Oct-17	Two-phase locking techniques for Concurrency Control (contd)	Chalk & Talk		
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62	13/5	9-Nov-17	Shadow paging, Database backup and recovery from catastrophic failures	Projector		
63	14/5	10-Nov-7	Revision of Module 5	Projector		
64		13-Nov-17	REVISION	Projector		
65		13-Nov17	REVISION	Projector		
66		14-Nov17	REVISION	Projector		
67		15-Nov17	REVISION	Projector		

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IAT #	Syllabus
IAT-1	Class # 01-34
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*: See calendar of events for the schedules of IATs.

Literature:

Book TypeCode		Author & Title	Publication information	
			Edition // Publisher	ISBN #
Text Book	TB1	Database systems Models, Languages, Design and Application Programming, Ramez Elmasri and Shamkant B. Navathe,	7 th Edition, Pearson Education	978-81-317-9247-6
Text Book	TB2	Database management systems, Ramakrishnan, and Gehrke,	3 rd Edition, McGraw-Hill, 2014.	9780072465631
Reference	RB1	Silberschatz Korth and Sudharshan: Database System Concepts	6 th Edition, Mc-Graw-Hill, 2013	9780071325226
Reference	RB1	Coronel, Morris, and Rob, Database Principles Fundamentals of Design, Implementation and Management,	Cengage Learning 2012.	9788177585568

SEMESTER : V B
BRANCH : ISE
SUBJECT : Database Management System
SUBJECT CODE : 15CS53
NO OF HRS/WK : 6

NAME OF THE FACULTY : Poornima HN
DATE OF COMMENCEMENT : 07/08/2017
DATE OF CLOSING : 25/11/2017
CLASS STRENGTH : 60
TOTAL HRS : 67

LESSON PLAN

Session Plan	(No of hrs planed for the chapter /Unit No	Date	Topics Planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	1/1	7-Aug-17	Module 1 Introduction to Databases: Introduction	Chalk & Talk		
2	2/1	8-Aug-17	Characteristics of database approach	Chalk & Talk		
3	3/1	9-Aug-17	Activity : design a database system	Chalk & Talk		
4	4/1	10-Aug-17	Advantages of using the DBMS approach History of database applications	Chalk & Talk		
5	5/1	11-Aug-17	Overview of Database Languages and Architectures: Data Models Schemas Instances	Chalk & Talk		
6	6/1	12-Aug-17	Three schema architecture data independence Database languages Interfaces	Chalk & Talk		
7	7/1	14-Aug-17	Conceptual Data Modelling using Entities and Relationships: Entity types Entity types Entity sets Attributes Roles Structural constraints	Chalk & Talk	Assignment -1	

			Weak entity types			
8	8/1	15-Aug-17	ER diagrams	Chalk & Talk		
9	9/1	16-Aug-17	Examples	Chalk & Talk		
10	10/1	17-Aug-17	Specialization and Generalization.	Chalk & Talk		
11	11/1	18-Aug-17	Revision of Module 1	Chalk & Talk		
12	1/2	19-Aug-17	Module 2 Relational Model: Relational Model Concepts, Relational Model Constraints	Chalk & Talk		
13	2/2	21-Aug-17	Relational database schemas	Chalk & Talk		
14	3/2	22-Aug-17	Update Operations	Chalk & Talk		
15	4/2	23-Aug-17	Transactions, Dealing with Constraint Violations	Chalk & Talk		
16	5/2	24-Aug-17	Relational Algebra: Unary and Binary relational operations	Chalk & Talk		
17	6/2	28-Aug-17	Additional relational operations (aggregate, grouping, etc.) Examples of Queries in relational algebra	Chalk & Talk		
18	7/2	29-Aug-17	Mapping Conceptual Design into a Logical Design: Mapping Conceptual Design into a Logical Design	Chalk & Talk		
19	8/2	30-Aug-17	Relational Database Design using ER-to-Relational mapping.	Chalk & Talk	Assignment -2	
20	9/2	31-Aug-17	SQL data definition and data types	Chalk & Talk		
21	10/2	1-Sep-17	Specifying constraints in SQL	Chalk & Talk		
22	11/2	4-Sep-17	Retrieval queries in SQL	Chalk & Talk		
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