#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037 T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY



Session wise – Course Plan

Department of CSE

SEMESTER : V BRANCH : CSE SUBJECT : MANAGEMENT & ENTREPRENEURSHIP SUBJECT CODE:15CS51 NO OF HRS/WK: 5

NAME OF THE FACULTY : Mrs. Kokila DATE OF COMMENCEMENT : 07-08-2017

DATE OF CLOSING: 15-11-2017CLASS STRENGTH: 73TOTAL HRS: 50 Hours

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	Topics covered As per plan
1.	1/ I	7/8/17	Module 1: Management: Introduction of the subject	Chalk and Black Board		
2.	2/I	9/8/17	Meaning nature and characteristics of management	Chalk and Black Board		
3.	3/I	9/8/17	Goals of management, Levels of management	Chalk and Black Board		
4.	4/I	10/8/17	Functions of management	Chalk and Black Board		

5.	5/I	11/8/17	Management theories	Chalk and Black Board	
6.	6/I	14/8/17	Planning, nature, types of planning and significance	Chalk and Black Board	
7.	7/I	17/8/17	Steps in planning, organizing introduction	Chalk and Black Board	
8.	8/I	17/8/17	Process of recruitment and selection	Chalk and Black Board	
9.	9/I	18/8/17	Staffing and its importance	Chalk and Black Board	
10	10/I	19/8/17	Principles of organizing	Chalk and Black Board	
11	1/II	22/8/17	Module 2: Directing and Controlling: meaning and nature of directing	Chalk and Black Board	Assignment I
12	2/II	24/8/17	Leadership, meaning and leadership styles	Chalk and Black Board	
13	3/II	28/8/17	Motivation, meaning, significance	Chalk and Black Board	
14	4/II	29/5/17	Communication, meaning and importance	Chalk and Black Board	
15	5/II	31/8/17	Controlling, meaning, significance	Chalk and Black Board	
16	6/II	4/9/17	Controlling, meaning, steps and methods of establishing control	Chalk and Black Board	
17	7/II	4/9/17	Coordination – meaning and control	Chalk and Black Board	
18	8/II	8/9/17	Controlling, meaning, steps and methods of establishing control	Chalk and Black Board	

19	9/II	11/9/17	Communication theories	Chalk and Black Board	Submission of Assignment I
20	10/II	12/9/17	Barriers in communication	Chalk and Black Board	
21	1/III	13/9/17	Unit III- Entrepreneur meaning, characteristics and skills / qualities of Entrepreneur	Chalk and Black Board	
22	2/III	15/9/17	Types of entrepreneur, entrepreneurial process	Chalk and Black Board	
23	3/III	23/9/17	Role of entrepreneurship, and barriers	Chalk and Black Board	
24	4/III	23/9/17	Feasibility study of entrepreneurial development	Chalk and Black Board	Assignment II
25	5/III	25/9/17	Success stories of an entrepreneur	Discussion	
26	6/III	26/9/17	Risk involved in entrepreneurship, Stages of entrepreneurial process	Chalk and Black Board	
27	7/III	28/9/17	Feasibility studies of entrepreneurship	Chalk and Black Board	
28	8/III	4/10/17	Role of entrepreneurs in economic development	Chalk and Black Board	
29	9/III	4/10/17	Entrepreneurial development	Chalk and Black Board	
30	10/III	6/10/17	Case study	Discussions	
31	1/IV	7/10/17	Unit 4: Project management meaning, types of projects, Project identification	Chalk and Black Board	Submission of Assignment II
32	2/IV	10/10/17	Steps involved in project management	Chalk and Black Board	

33	3/IV	12/10/17	Project report, planning commission guidelines for project	Chalk and Black Board	
34	4/IV	12/10/17	ERP, meaning, importance for ERP	Chalk and Black Board	
35	5/IV	13/10/17	Application of ERP in the functional areas of management	Chalk and Black Board	
36	6/IV	14/10/17	ERP in finance, marketing, human resources	Chalk and Black Board	
37	7/IV	17/10/17	Significance of ERP in business	Chalk and Black Board	
38	8/IV	24/10/17	Types of reports, methods of report generation	Chalk and Black Board	
39	9/IV	24/10/17	Difficulties in ERP and its challenges	Chalk and Black Board	
40	10/IV	25/10/17	Case study	Discussions	
41	1/V	26/10/17	Unit 5: Micro and small enterprises Meaning of micro and small scale enterprises	Chalk and Black Board	Assignment III
42	2/V	28/10/17	Characteristics and merits of small scale enterprises	Chalk and Black Board	
43	3/V	31/10/17	Steps in establishing small and micro firms	Chalk and Black Board	
44	4/V	31/10/17	Institutional support to small and micro firms	Chalk and Black Board	
45	5/V	2/11/17	MSME, DI, NSIC	Chalk and Black Board	
46	6/V	3/11/17	SIDBI, KIADB, KSSIDC	Chalk and Black Board	
47	7/V	9/11/17	TECSOK, KSFC, DIC	Chalk and Black Board	

48	8/V	13/11/17	District level single window agency	Chalk and Black Board		
49	9/V	13/11/17	IPR – Intellectual Property Rights meaning and its significance	Chalk and Black Board	Submission of Assignment III	
50	10/V	14/11/17	VTU Question paper - Discussion	Discussion		
51	11/V	15/11/17	VTU Question paper - Discussion	Discussion		

IAT # Syllabus

IAT	Syllabus
IAT 1	Classes # 1 to 22
IAT 2	Classes # 23-35
IAT 3	Classes # 36-50

Pools Type		Author & Title	Publication info		
Book Type	Code	Author & Title	Edition & Publisher	ISBN #	
Text Book	TB 1	Principles of Management – P.C Tripathi, P.N Reddy,	McGraw Hill Education, 6th Edition, 2017	ISBN-13:978- 93-5260-535-4	
Text Book	TB 2	Entrepreneurship Development Small Business Enterprises	Poornima M Charantimath, Pearson Education 2008	ISBN 978-81- 7758-260-4	
References	RB1	Dynamics of Entrepreneurial Development and Management	HPH 2007, Vasant Desai	ISBN: 978-81- 8488-801-2	
References	RB2	Essentials of Management: An International, Innovation and Leadership perspective	Harold Koontz, Heinz Weihrich McGraw Hill Education, 10th Edition 2016	ISBN- 978-93- 392-2286-4	



Session wise – Course Plan

Department of Computer Science and Engineering

SEMESTER	: V A	NAME OF THE FACULTY	: Sagarika Behera
BRANCH	: CSE	DATE OF COMMENCEMENT	5 : 07/08/17
SUBJECT	: Automata Theory and Computability	DATE OF CLOSING	: 16/11/17
SUBJECT COD	DE: 15CS54	CLASS STRENGTH	: 74
NO OF HRS/WI	X : 6	TOTAL HRS	: 64

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	08/08/17	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	"	Assignm ent- I	
4	4/1	10/08/17	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	16/8/17	Designing FSM	٤٦		
8	8/1	16/8/17	Non-deterministic FSMs	"		
9	9/1	17/8/17	Equivalence of DFSM &NFSM	,,		

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	23/8/17	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?	٤٦	
16	2/2	28/8/17	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	01/09/17	Manipulating and Simplifying Res	"	
20	6/2	01/09/17	Regular grammars: Definition	,,	
21	7/2	04/09/17	Regular languages and Regular grammars	"	Assignm ent –II
22	8/2	05/09/17	Regular languages and nonregular languages: How many Rls	,,	
23	9/2	06/09/17	Show that language is regular	٢٦	
24	10/2	07/09/17	Closure properties of RLs	"	
25	11/2	09/09/17	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	12/09/17	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	22/9/17	Simplifying CFGs	"	
32	5/3	22/9/17	Proving that a grammar is correct	د ٢	
33	6/3	23/9/17	Derivation and parse trees	"	
34	7/3	25/9/17	Ambiguity	"	
35	8/3	26/9/17	Normal forms	"	
36	9/3	27/9/17	Pushdown Automata: Definition	,,	
37	10/3	03/10/17	PDA examples	"	Assignm ent –III
38	11/3	03/10/17	Nondeterministic PDA	,,	
39	12/3	04/10/17	Equivalence of CFGs and PDAs	دى	
40	13/3	06/10/17	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	11/10/17	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	13/10/17	Decidable questions	,,	
47	6/4	14/10/17	Undecidable questions	د،	Assignm ent –IV
48	7/4	16/10/17	TM Machine: Model, representation, Language	"	

49	8/4	23/10/17	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	25/10/17	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	30/10/17	Halting problem of TM, Post correspondence problem	د ۲	
56	5//5	30/10/17	Complexity: Growth rate of functions	,,	Assignm ent –V
57	6/5	31/10/17	Complexity: Growth rate of functions	"	
58	7/5	02/11/17	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	10/11/17	Solving Exam questions	,,	
62	11/5	10/11/17	Solving Exam questions	,,	
63		13/11/17	Revision	"	
64		14/11/17	Revision	"	

Sessional #	Syllabus
T1	Class # 01 – 27
T2	Class # 28 – 51
IMP	Class # 52 - 60

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

Book Type	Code	Author & Title	Publication info		
			Edition & Publisher	ISBN #	
Text Book	T1	Elaine Rich, Automata, Computability, and Complexity	2012/2013	978-81-317- 8822-6	
Text Book	Т2	K L P Mishra, N Chandrasekaran, Theory of Computer Science	3rd Edition, 2012, TMH	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		

#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037 T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Computer Science and Engineering

S	SEMESTER	: V -C	NAM
	BRANCH	: CSE	DAT
	SUBJECT	: Computer Networks	DAT
	SUBJECT CODE	: 15CS52	CLA
Ν	NO OF HRS/WK	: 6	TOT

NAME OF THE FACULTY: Shyamasree GhoshDATE OF COMMENCEMENT: 07.08.2017DATE OF CLOSING: 25.11.2017CLASS STRENGTH: 73TOTAL HRS: 67

	Chapter no	DATE	Topics planned for the session	Teaching	Assignm	Topics
Sessi	(No of hrs			Aids	ents/	covered
on	planed for				Tests	As per
No	the chapter)				planned	plan
					for the	
					chapter	
1		07/08/17	Introduction, Revision on Data	Chalk &		
1		07/08/17	Communication	Talk		
			(M-1)Application Layer	,,		
2	1/1	08/08/17	:Introduction Application and			
			Application Layer			



3	2/1	09/08/17	Network Application Architectures, Processes Communicating	,,	
4	3/1	10/08/17	Transport Services Available to Applications, Transport Services Provided by the Internet,	,,	
5	4/1	10/08/17	The Web and HTTP: Overview of HTTP, Non-persistent and Persistent Connections, HTTP Message Format	,,	
6	5/1	11/08/17	The Web and HTTP: Ctnd		
7	6/1	12/08/17	User-Server Interaction: Cookies, Web Caching, The Conditional GET	,,	
8	7/1	12/08/17	File Transfer: FTP Commands & Replies	٢,	
9	8/1	16/08/17	Electronic Mail in the Internet: SMTP, Comparison with HTTP	,,	
10	9/1	18/08/17	Mail Message Format, Mail Access Protocols	,,	
11	10/1	18/08/17	DNS; The Internet's Directory Service: Services Provided by DNS, Overview of How DNS Works	,,	
12	11/1	19/08/17	DNS Records	,,	
13	12/1	21/08/17	Peer-to-Peer Applications: P2P File Distribution	,,	
14	13/1	21/08/17	Distributed Hash Tables	,,	
15	14/1	23/08/17	Socket Programming: creating Network Applications: Socket Programming with UDP	," PPT	
16	15/1	28/08/17	Socket Programming with TCP.	د ،	
17	1/2	28/08/17	(M-2)Transport Layer : Introduction and Transport-Layer Services: Relationship Between Transport and Network Layers	,,	
18	2/2	29/08/17	Overview of the Transport Layer in the Internet, Multiplexing and Demultiplexing	,,	
19	3/2	30/08/17	Connectionless Transport: UDP,UDP Segment Structure,	,,	
20	4/2	30/08/17	UDPChecksum	,,	

			Drive in Lee of Delights Dete			
01	5 10	01/00/17	Principles of Reliable Data	,,		
21	5/2	01/09/17	Transfer: Building a Reliable Data			
			Transfer Protocol			
22	6/2	05/09/17	Pipelined Reliable Data Transfer	"		
22	0/2	03/07/17	Protocols, Go-Back-N			
22	7/2	05/00/17	Selective repeat	,,		
23	7/2	05/09/17	l			
			Connection-Oriented Transport	د ۲		
24	8/1	06/09/17	TCP: The TCP Connection, TCP			
2-1	0/1	00/07/17	Segment Structure			
					A ·	
25	9/2	07/09/17	Round-Trip Time Estimation and	,,	Assignm	
23	912	07/09/17	Timeout, Reliable Data Transfer		ent –I	
			Flow Control, TCP Connection			
26	10/2	07/09/17		"		
20		07707717	Management			
			Principles of Congestion Control:			
			The Causes and the Costs of	,,		
27	11/2	09/09/17				
			Congestion, Approaches to			
			Congestion Control			
28	12/2	12/09/17	Network-assisted congestion-	"		
20			control example			
29	13/2	12/09/17	ATM ABR Congestion control	,,		
27	13/4	12/03/17				
20	1/2	12/00/17	TCP Congestion Control: Fairness.	"		
30	1/3	13/09/17				
			(M-3)The Network layer: What's	,,		
31	2/3	14/09/17	Inside a Router?: Input Processing,	77		
		11/0/11	Switching, output Processing			
├ ──┤		+			+ +	
	_		Where Does Queuing Occur?	"		
32	3/3	14/09/17	Routing control plane			
			IPv6, A Brief foray into IP Security	د،		
33	4/3	22/09/17				
55	J/J					
-						
			Routing Algorithms: The Link-			
34	5/3	25/09/17	State (LS) Routing Algorithm			
			The Link-State (LS) Routing			
35	6/3	25/09/17	Algorithm Ctnd	,,		
55	0/3	23/09/17				
36	7/3	26/09/17	The Distance-Vector (DV) Routing			
50	115	20/03/17	Algorithm			
27	0/2	07/00/117	The Distance-Vector (DV) Routing	,,		
37	8/3	27/09/17	Algorithm Ctnd	<i>,,</i>		

38	9/3	27/09/17	Hierarchical Routing, Routing in the Internet	"	
39	10/3	03/10/17	Intra-AS Routing in the Internet: RIP	"	
40	11/4	06/10/17	Intra-AS Routing in the Internet: OSPF	"	
41	12/4	06/10/17	Inter/AS Routing: BGP	"	
42	1/4	07/10/17	Broadcast Routing Algorithms and Multicast.	٢,	
43	2/4	09/10/17	(M-4)Wireless and mobile networks: Cellular Internet Access: An Overview of Cellular Network Architecture	,,	
44	3/4	09/10/17	3G Cellular Data Networks: Extending the Internet to Cellular subscribers	"	Assignm ent -II
45	4/4	11/10/17	On to 4G:LTE	,,	
46	5/4	13/10/17	Mobility management: Principles, Addressing	,,	
47	6/4	13/10/17	Routing to a mobile node, Mobile IP	,,	
48	7/4	14/10/17	Managing mobility in cellular Networks,	,,	
49	8/4	16/10/17	Routing calls to a Mobile user	"	
50	9/4	16/10/17	Handoffs in GSM,	٢,	
51	1/5	23/10/17	Wireless and Mobility: Impact on Higher-layer protocols	,,	
52	2/5	25/10/17	(M-5) Multimedia networking : Properties of video, properties of Audio	"	
53	3/5	25/10/17	Types of multimedia Network Applications,	"	
54	4/5	26/10/17	Streaming stored video: UDP Streaming	"	
55	5/5	27/10/17	HTTP Streaming	"	
56	6/5	27/10/17	Adaptive streaming	"	
57	7/5	30/10/17	DASH	"	
58	8/5	02/11/17	Content distribution Networks	٢)	

59	9/5	02/11/17	Network Support for Multimedia: Dimensioning Best-Effort Networks	,,	
60	10/5	03/11/17	Providing Multiple Classes of Service	"	
61	11/5	04/11/17	Diffserv		
62	12/5	04/11/17	Per-Connection Quality-of-Service (QoS) Guarantees: Resource Reservation and Call Admission		
63		10/11/17	Revision		
64		14/11/17	Revision		
65		14/11/17	Revision		
66		15/11/17	Revision		
67		21/11/17	Revision		

Sessional #	Syllabus
T1	Class # 01 - 29
T2	Class # 29 – 41
Т3	

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

Book Type	Code	Author & Title	Publication info		
			Edition & Publisher	ISBN #	
Text Book	TB1	James F Kurose and Keith W Ross, Computer Networking, A Top-Down Approach,	6th edition, Pearson,2017.	ISBN-10: 0- 13-285620-4	

Reference s	RB1	Behrouz A Forouzan, Data and Communications and Networking	5th edition, McGraw Hill, Indian Edition,2017	ISBN-13: 978- 1259064753
Reference s	RB2	Larry L Peterson and Brusce S Davie, Computer Networks	5th edition, ELSEVIER	ISBN: 978012385059 1
Reference	RB3	Andrew S Tanenbaum, Computer Networks	5th edition, Pearson	ISBN-13: 978- 0-13-212695-3
Reference s	RB4	Mayank Dave, Computer Networks	2nd edition, Cengage Learning	ISBN 10: 8131509869

#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037 T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Computer Science and Engineering

SEMESTER	: V C	NAME OF THE FACULTY	: Swetha KV
BRANCH	: CSE	DATE OF COMMENCEMENT	: 07/08/2017
SUBJECT	: Database Management System	DATE OF CLOSING	: 25/11/2017
SUBJECT CODE	: 15CS53	CLASS STRENGTH	: 73
NO OF HRS/WK	: 5	TOTAL HRS	:67

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		Module 1:	Chalk &		
1		7-Aug-17	Introduction to databases	Talk		
2	2/1		Characteristics of database	,,		
2		8-Aug-17	approach			
	3/1		Advantages of using the DBMS	,,		
3			approach			
		10-Aug-17	History of database applications			
4	4/1		Data Models, Schemas	,,		
4		12-Aug-17	And Instances			



			Three schema architecture, data			
			independence			
	5/1			,,		
			Database languages &			
5			Interfaces, Database System			
			Environment			
		12-Aug-17				
	6/1		Entity types	"		
			Entity sets			
6			Attributes			
Ũ			Roles			
			Structural constraints			
		14-Aug-17	Weak entity types	٤,		
7	7/1	16 Aug 17	ED diagrama	C y		
	8/1	16-Aug-17	ER diagrams		Assignm	
8	0/1	17-Aug-17	Examples	Projector	ent- I	
-	9/1			Chalk &		
9		21-Aug-17	Specialization and Generalization.	Talk		
10	10/1	21-Aug-17	Revision of Module 1	,,		
	1/2		Module 2: Relational Model.	,,		
11			Relational Model Concepts,			
		22-Aug-17	Relational Model Constraints			
12	2/2	23-Aug-17	Relational database schemas	"		
13	3/2		Update Operations, Transactions,	"		
15		24-Aug-17				
14	4/2	30-Aug-17	Dealing with Constraint Violations	,,		
15	5/2		Unary and Binary relational	د،		
	(12)	31-Aug-17	operations			
	6/2		Additional relational operations (aggregate, grouping, etc.)	"		
16			Examples of Queries in relational			
		31-Aug-17	algebra			
	7/2		Mapping Conceptual Design into a	,,		
17			Logical Design			
		1-Sep-17				
18	8/2		Relational Database Design using	,,		
10		4-Sep-17	ER-to-Relational mapping.			
19	9/2	7-Sep-17	SQL data definition and data types	"	Assignm ent -II	
20	10/2	7-Sep-17 7-Sep-17	Specifying constraints in SQL	,,		
	11/2	1	Retrieval queries in SQL			
21	× × / #	8-Sep-17	The second secon	"		

	12/2		INSERT, DELETE, UPDATE			
22	14/4		statements in SQL, Additional	"		
22		9-Sep-17	features of SQL			
	13/2		Revision of Module 2	٤ ٦		
23		11-Sep-17				
	1/3		Module 3: SQL : Advances	,,		
24			Queries			
		14-Sep-17				
25	2/3		More complex SQL retrieval	"		
23		14-Sep-17	queries (contd)			
26	3/3	1	Specifying constraints as assertions	,,		
26		15-Sep-17	and action triggers			
27	4/3	22 6 17	Views in SQL	"		
	5/2	22-Sep-17	Calendaria de la contrata de COL			
	5/3		Schema change statements in SQL, Database Application	"		
28			Development: Accessing databases			
		23-Sep-17	from applications			
	6/3		An introduction to JDBC, JDBC	,, and		
29	0.0	27-Sep-17	classes and interfaces	Projector		
20	7/3	1	SQLJ	Chalk &		
30		27-Sep-17		Talk		
	8/3		Stored Procedures	,,		
31						
		28-Sep-17				
	9/3		Case study: The internet	٢,		
32			Bookshop.			
		3-Oct-17				
	10/3		Internet Applications:	"	Assignm	
33			The three-Tier application		ent –III	
		4- Oct -17	architecture,			
34	11/3		The presentation layer, The Middle	"		
54		9- Oct -17	Tier			
35	12/3	0.0.17	Revision of Module 3	"		
	1/4	9- Oct -17	N. I. I. A. N. 1'			
	1/4		Module 4: Normalization: Database Design Theory.	••		
			Introduction to Normalization using			
36			Functional and Multivalued			
			Dependencies: Informal design			
		10- Oct -17	guidelines for relation schema			
27	2/4		Informal design guidelines for	,,		
37		11- Oct -17	relation schema			
38	3/4		Functional Dependencies	,,		
50		12- Oct -17				

20	4/4		Normal Forms based on Primary	٤٦	
39		13- Oct -17	Keys		
	5/4		Second and Third Normal Forms	,,	
40					
		16- Oct -17			
	6/4		Boyce-Codd Normal Form,	,,	
41			Multivalued Dependency and		
		16- Oct -17	Fourth Normal Form		
10	7/4		Join Dependencies and Fifth	,,	
42		17 Oct 17	Normal		
	8/4	17- Oct -17	Form		
43	0/4	23- Oct -17	Normalization Algorithms: Inference Rules	,,	
	9/4	23-001-17	Equivalence, and Minimal		
44	217	24- Oct -17	Cover	,,	
	10/4		Properties of Relational	,,	Assignm
17			Decompositions, Algorithms for	,,	ent –IV
45			Relational Database Schema		
		25- Oct -17	Design		
	11/4		Nulls, Dangling tuples, and	,,	
46			alternate Relational Designs		
		26- Oct -17		6.2	
1-	12/4		Further discussion of Multivalued	23	
47		27 0 4 17	dependencies and 4NF, Other		
	13/4	27- Oct -17	dependencies and Normal Forms Revision of Module 4		
48	13/4	27 0 4 17	Revision of Module 4	,,	
	1/5	27- Oct -17	Module 5: Transaction Processing.		
49	1/5		Introduction to Transaction	,,	
77		28- Oct -17	Processing		
70	2/5		Transaction and System concepts	,,	
50		30- Oct -17	,	77	
	3/5		Desirable properties of	,,	
51			Transactions, Characterizing		
		31- Oct -17	schedules based on recoverability		
52	4/5		Characterizing schedules based on	,,	
		2-Nov-17	Serializability		
53	5/5	3-Nov-17	Transaction support in SQL	,,	
	6/5	5-1101-17	Two-phase locking techniques for		
54	010	4-Nov-17	Concurrency Control	"	
	7/5		Two-phase locking techniques for	٤٦	
55		4-Nov-17	Concurrency Control (contd)		
56	8/5		Concurrency control based on	,,	Assignm
56		9-Nov-17	Timestamp ordering		ent -V
		7107-17			

F7	9/5		Multiversion Concurrency control	22	
57		10-Nov-17	techniques		
	10/5		Validation Concurrency control	,,	
58			techniques, Granularity of Data		
50			items and Multiple Granularity		
		13-Nov-17	Locking		
	11/5		Recovery Concepts, NO-	"	
			UNDO/REDO recovery based on		
59			Deferred update, Recovery		
		16 17	techniques based on immediate		
	10/5	16-Nov-17	update		
	12/5		Shadow paging, Database backup	"	
60			and recovery from catastrophic failures		
		16-Nov-17	lanures		
	13/5	10-110-17	Revision of Module 5		
61	10/0		Kevision of would 5		
			REVISION		
62					
63			REVISION		
0.5			REVISION		
64					
			REVISION		
65			DEVISION		
66			REVISION		

Sessional #	Syllabus
T1	Class # 01 - 30
T2	Class # 31 – 61
Т3	

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

Book Type	Code	Author & Title	Publicatic	n info
			Edition & Publisher	ISBN #

Text Book	TB1	Database systems Models, Languages, Design and Application Programming, Ramez Elmasri and Shamkant B. Navathe,	7th Edition, Pearson Education	978-81-317-9247- 6
Text Book	TB2	Database management systems, Ramakrishnan, and Gehrke,	3rd Edition, McGraw- Hill, 2014.	9780072465631
Reference	RB1	Silberschatz Korth and Sudharshan: Database System Concepts	6th Edition, Mc-Graw- Hill, 2013	9780071325226

#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037 T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY



Department of Computer Science and Engineering

SEMESTER	: V	NAME OF THE FACULTY	: Asst Prof. Apurva
Kulkarni			
BRANCH	: CSE	DATE OF COMMENCEMENT	: 17/8/2017
SUBJECT	: Programming in Java (open elective)	DATE OF CLOSING	: 25/11/2017
SUBJECT CO	DE: 15CS561	CLASS STRENGTH	:
NO OF HRS/W	/K : 4	TOTAL HRS	:39

	Chapter no	DATE	Topics planned for the session	Teaching	Assignment	Topics
Sessi	(No of hrs			Aids	s/Tests	covered
on	planed for				planned for	As per
No	the				the chapter	plan
	chapter)					
			Induction class, Subject	Chalk &		
1	1/1	17/8/17	Overview and prerequisites	Talk		
				I alk		
			Module 1: An Overview of Java:	,,		
2	2/1	18/8/17	Object-Oriented Programming, A			
2	<i>2</i> /1	10/0/17	First Simple Program A Second			
			Short Program			



3	3/1	19/8/17	Two Control Statements ,Using Blocks of Code, Lexical Issues,The Java Class Libraries	,,	
4	4/1	22/8/17	Data Types, Variables	"	
5	5/1	24/8/17	Type Carting and conversion	,,	
6	6/1	28/8/17	1D & 2 D array and programs	"	
7	7/1	29/8/17	Strings : simple program	,,	
8	8/1	31/8/17	Tutorial	,,	Assignment - I
9	1/2	4/9/17	Module 2: Operators Arithmetic,Bitwise,Relational,Log ical operator	,,	
10	2/2	5/9/17	Boolean,Assignment,Conditional, Precedence	,,	
11	3/2	6/9/17	Control statements:if-else switch	٢,	
12	4/2	8/9/17	For,while,do-while	"	
13	5/2	11/9/17	Nested loops,break-continue	,,	
14	6/2	12/9/17	Programs	,,	
15	7/2	13/9/17	Programs and Tutorial	,,	Assignment - II
16	1/3	15/9/17	Module 3:Introduction to classes,declaring object,new	"	
17	2/3	23/9/17	Introducing method, constructor	,,	
18	3/3	25/9/17	Stack class	,,	
19	4/3	26/9/17	Passing object, Recursion	,,	
20	5/3	28/9/17	Programs on class-object concept	٤,	
21	6/3	4/10/17	Access control: static and final	,,	
22	7/3	6/10/17	Inheritance,types	"	
23	8/3	7/10/17	Method overriding,dynamic method dispatch	,,	
24	9/3	10/10/17	Program and Tutorial	"	Assignment - III
25	1/4	12/10/17	Module 4:Package Introduction &	,,	

			small program			
26	2/4	13/10/17	Access Protection,Importing package eg.	"		
27	3/4	14/10/17	Interface example	,,		
28	4/4	17/10/17	Exception Handling : Introduction	"		
29	5/4	24/10/17	Types of exception handling,uncaught exception	"		
30	6/4	25/10/17	Trycatch, multiple catchclause.	••		
31	7/4	26/10/17	Throw, throws, finally	"		
32	8/4	28/10/17	Built in exception, writing own exception.	٢٦		
33	9/4	31/10/17	Programs and tutorial	,,	Assignment - IV	
34	1/5	2/11/17	Module 5: Enumeration and program, Wrapper, types, programs	"		
35	2/5	3/11/17	Applets,transient and volatile modifiers,instance of,native methods	"		
36	3/5	10/11/17	IO Basics,Reading and writing files	"		
37	4/5	13/11/17	String handling methods	"		
38	5/5	14/11/17	String Buffer and string builder	"		
39	6/5	15/11/17	Tutorial	"		

Sessional #	Syllabus	
T1	Module1&Module2	
T2	Module3&Module4	
Т3	Module5	

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

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.	
References	RB1	Mahesh Bhave and Sunil Patekar- "Programming with Java"	First Edition, Pearson Education,2008.	978813172080 6
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.	