ST.ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Lecture Schedule

NAME OF THE SUBJECT: **FLAT** NO. OF LECTURES PER WEEK **: 5+1* (TUT)**

YEAR-SEM, : **II B.TECH- II SEM** BRANCH & SECTION: CSE - C

NAME OF THE FACULTY: **CH.RAJU** ACADAMIC YEAR**: 2018-19**

S.NO	Date	unit	Topic
1	19-11-2018	I	**Finite Automata:** Why Study Automata Theory?
2	20-11-2018		The Central Concepts of Automata Theory
3	22-11-2018		Automation, Finite Automation, Transition Systems
4	23-11-2018		Acceptance of a String by a Finite Automation
5	24-11-2018		DFA, Design of DFAs NFA
6	26-11-2018		Design of NFA
7	27-11-2018		Tutorial
8	28-11-2018		Equivalence of DFA and NFA
9	29-11-2018		Conversion of NFA into DFA
10	30-11-2018		Finite Automata with E-Transition
11	1/12/2018		Minimization of Finite Automata
12	3/12/2018		Mealy and Moore Machines
13	4/12/2018		Tutorial
14	5/12/2018		Applications & Limitation of Finite Automata
15	6/12/2018		UNIT-1 slip test
16	7/12/2018	II	Regular Expressions, Regular Sets, Identity Rules
17	8/12/2018		Equivalence of two REs
18	10/12/2018		Manipulations of Regular Expressions, Inter Conversion
19	11/12/2018		Tutorial
20	12/12/2018		Equivalence between Finite Automata and Regular Expressions
21	13-12-2018		Pumping Lemma, Closer Properties
22	14-12-2018		Applications of Regular Expressions
23	15-12-2018		Finite Automata and Regular Grammars
24	17-12-2018		Regular Expressions and Regular Grammars
25	18-12-2018		Tutorial
26	19-12-2018		unit-2 slip test
27	20-12-2018	III	**Context Free Grammars,** Formal Languages
28	21-12-2018		Grammars, Classification of Grammars
29	22-12-2018		Chomsky Hierarchy Theorem
30	26-12-2018		CFG, Leftmost and Rightmost Derivations, Parse Trees
31	27-12-2018		Ambiguous Grammars
32	28-12-2018		Simplification of Context Free Grammars
33	29-12-2018		Elimination of Useless Symbols
34	31-12-2018		Null and Unit Productions
35	2/1/2019		Normal Forms for Context Free Grammars – CNF
36	3/1/2019		Normal Forms for Context Free Grammars - GNF
37	4/1/2019		Pumping Lemma, Closure Properties, Applications
38	5/1/2019	Revision	Revision
39	7/1/2019		Revision
40	8/1/2019		Tutorial
41	9/1/2019		Revision
42	10/1/2019		Revision
43	11/1/2019		Revision
44	17-01-2019	MID-1	MID-1(Revision)
45	18-01-2019		MID-1(Revision)
46	19-01-2019		MID-1(Revision)
47	21-01-2019		MID-1(Revision)
48	22-01-2019		MID-1(Revision)
49	23-01-2019		MID-1(Revision)

50	24-01-2019	IV	**Pushdown Automata:** Definition, Model, Graphical Notation
51	25-01-2019		Instantaneous Description, Language Acceptance, Design
52	28-01-2019		Deterministic Pushdown Automata
53	29-01-2019		Tutorial
54	30-01-2019		Non – Deterministic Pushdown Automata
55	31-01-2019		Examples on PDA design
56	1/2/2019		Equivalence of Pushdown Automata and Context Free Grammars
57	2/2/2019		Examples on Intrconversion
58	4/2/2019		Conversion of Pushdown Automata and Context Free Grammars
59	5/2/2019		Tutorial
60	6/2/2019		Two Stack Pushdown Automata
61	7/2/2019		Application of Pushdown Automata
62	8/2/2019		unit-4 slip test
63	11/2/2019	V	**Turning Machine :** Definition, Model
64	12/2/2019		Tutorial
65	13-02-2019		Representation of Turing Machines
66	14-02-2019		Instantaneous Descriptions
67	15-02-2019		Transition Tables and Transition Diagrams
68	16-02-2019		Language of a Turing Machine
69	18-02-2019		Design of Turing Machines
70	19-02-2019		Tutorial
71	20-02-2019		Design of Turing Machines-Examples
72	21-02-2019		Design of Turing Machines-Examples
73	22-02-2019		Techniques for Turing Machine Construction
74	23-02-2019		Types of Turing Machines
75	25-02-2019		Church's Thesis
76	26-02-2019		Universal Turing Machine
77	27-02-2019		Restricted Turing Machine
78	28-02-2019		unit-5 slip test
79	1/3/2019	VI	**Computability**
80	2/3/2019		Decidable
81	5/3/2019		Tutorial
82	6/3/2019		Un-decidable Problems
83	7/3/2019		Halting Problem of TM
84	8/3/2019		Post's Correspondence Problem
85	11/3/2019		Modified Post's Correspondence Problem
86	12/3/2019		Tutorial
87	13-03-2019		Classes of P and NP
88	14-03-2019		NP- Hard
89	15-03-2019		NP-Complete Problems
90	16-03-2019		Satisfiability Problem
91	18-03-2019		Vertex Colouring Problem
92	19-03-2019		Tutorial
93	20-03-2019		Other Examples on Computational [Problems
94	22-03-2019	Revision	Revision
95	23-03-2019		Revision
96	25-03-2019	MID-2	MID-2(Revision)
97	26-03-2019		MID-2(Revision)
98	27-03-2019		MID-2(Revision)
99	28-03-2019		MID-2(Revision)
100	29-03-2019		MID-2(Revision)
101	30-03-2019		MID-2(Revision)

Text Books:

1. Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson.
2. Web Technologies, Uttam K Roy, Oxford
3. The Web Warrior Guide to Web Programming, Bai, Ekedahl, Farrelll, Gosselin, Zak, Karparhi

Reference Books:

1. Ruby on Rails Up and Running, Lightning fast Web development, Bruce Tate, Curt Hibbs,Oreilly (2006)
2. Programming Perl, 4ed, Tom Christiansen, Jonathan Orwant, Oreilly (2012)
3. Web Technologies, HTML< JavaScript, PHP, Java, JSP, XML and AJAX, Black book, Dream Tech
4. An Introduction to Web Design, Programming, Paul S Wang, Sanda S Katila, Cengage

Faculty HOD

12	8	11	10	13	12	66

CLS	66
TUT	12
UNIT TESTS	4
MIDS	12
REVISIONS	7
	101