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 **: 4+1* (TUTORIAL)**

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

NAME OF THE FACULTY: **CH.RAJU** ACADAMIC YEAR**: 2017-18**

UNIT	Date	Topic	No.of Hours Required/ topic
I	20-11-2017	Why Study Automata Theory? The Central Concepts of Automata Theory	1
	21-11-2017	Finite Automation, Transition Systems,Acceptance of a String by a Finite Automation,	1
	23-11-2017	DFA, Design of DFAs	1
	24-11-2017	NFA, Design of NFA	1
	25-11-2017	Equivalence of DFA and NFA, Conversion of NFA into DFA	1
	27-11-2017	Finite Automata with E-Transition	1
	28-11-2017	Minimization of Finite Automata	1
	30-11-2017	Mealy and Moore Machines	1
	4-12-2017	Applications and Limitation of Finite Automata.	1
	5-12-2017	Tutorial	1
	7-12-2017	unit-1 slip test	1
II	8-12-2017	Regular Expressions, Regular Sets, Identity Rules	1
	11-12-2017	Equivalence of two Regular Expressions	1
	12-12-2017	Tutorial	1
	14-12-2017	Manipulations of Regular Expressions	1
	15-12-2017	Finite Automata, and Regular Expressions, Inter Conversion,	1
	16-12-2017	Equivalence between Finite Automata and Regular Expressions,	1
	18-12-2017	Pumping Lemma, Closers Properties	1
	19-12-2017	Tutorial	1
	21-12-2017	Applications of Regular Expressions,	1
	22-12-2017	Finite Automata and Regular Grammars	1
	23-12-2017	Regular Expressions and Regular Grammars.	1
	26-12-2017	Tutorial	1
	28-12-2017	unit-2 slip test	1
III	29-12-2017	Formal Languages, Grammars, Classification of Grammars	1
	30-12-2017	Chomsky Hierarchy Theorem,	1
	1-1-2018	Context Free Grammar, Leftmost and Rightmost Derivations, Parse Trees, Ambiguous Grammars	1
	2-1-2018	Tutorial	1
	4-1-2018	Simplification of Context Free Grammars-Elimination of Useless Symbols, E-Productions and Unit Productions	1
	5-1-2018	Simplification of Context Free Grammars-Elimination of Useless Symbols, E-Productions and Unit Productions	1
	6-1-2018	Normal Forms for Context Free Grammars-Chomsky Normal Form	1
	8-1-2018	Greibach Normal Form	1
	9-1-2018	Tutorial	1
	11-1-2018	Pumping Lemma	1
	12-1-2018	Closure Properties, Applications of ContextFree Grammars.	1
MID-1	18-1-2018	Mid-1	1
	19-1-2018	Mid-1	1
	20-1-2018	Mid-1	1
	22-1-2018	Mid-1	1
	23-1-2018	Mid-1	1

IV	25-1-2018	Pushdown Automata, Definition, Model, Graphical Notation	1
	27-1-2018	Instantaneous Description Language Acceptance of pushdown Automata	1
	29-1-2018	Design of Pushdown Automata	1
	30-1-2018	Tutorial	1
	1-2-2018	Deterministic and Non – Deterministic Pushdown Automata	1
	2-2-2018	Equivalence of Pushdown Automata and Context Free Grammars Conversi	1
	3-2-2018	Two Stack Pushdown Automata	1
	5-2-2018	Application of Pushdown Automata	1
	6-2-2018	Tutorial	1
	8-2-2018	unit-4 slip test	1
V	9-2-2018	Turing Machine, Definition, Model	1
	10-2-2018	Representation of Turing Machines-Instantaneous Descriptions, Transition Tables and Transition Diagrams	1
	15-2-2018	Language of a Turing Machine, Design of Turing Machines	1
	16-2-2018	Techniques for Turing Machine Construction	1
	17-2-2018	Types of Turing Machines	1
	19-2-2018	Church's Thesis	1
	20-2-2018	Tutorial	1
	22-2-2018	Universal Turing Machine	1
	23-2-2018	Restricted Turing Machine.	1
	24-2-2018	unit-5 slip test	1
VI	26-2-2018	Decidable and Un-decidable Problems	1
	27-2-2018	Tutorial	1
	1-3-2018	Halting Problem of Turing Machines	1
	3-3-2018	Post's Correspondence Problem	1
	5-3-2018	Modified Post's Correspondence Problem	1
	6-3-2018	Classes of P and NP, NPHard and NP-Complete Problems	1
Revision	8-3-2018	Revision	1
	9-3-2018	Revision	1
	12-3-2018	Revision	1
	13-3-2018	Revision	1
	15-3-2018	Revision	1
	16-3-2018	Revision	1
	17-3-2018	Revision	1
Mid-2	19-3-2018	Mid-2	1
	20-3-2018	Mid-2	1
	22-3-2018	Mid-2	1
	23-3-2018	Mid-2	1
	24-3-2018	Mid-2	1
TOTAL NO.OF HOURS REQUIRED			78

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

Signature of the Faculty Signature of the HOD