



KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: IT/CSIT

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Theory of computation

Name of Faculty with designation : Mr. Chain Singh (Assistant Professor)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	08.01.2018 Monday	VI CSIT& VI ECS	1	Finite state system and basic definitions NDFA.	.....	Assignment of 02 Ques. given
January	10.01.2018 Wednesday	VI CSIT& VI ECS	1	Deterministic finite automata (DFA), Equivalence of DFA and NDFA finite automata with E-moves.		Assignment of 02 Ques. given
January	12.01.2018 Friday	VI CSIT& VI ECS	1	Properties and limitations of FSM. Equivalence of moore and mealy machines.		Assignment of 02 Ques. given
January	15.01.2018 Monday	VI CSIT& VI ECS	1	Equivalence of moore and mealy machines.		Assignment of 02 Ques. given
January	17.01.2018 Wednesday	VI CSIT& VI ECS	1	Minimization of finite automata.		Assignment of 02 Ques. given
January	19.01.2018 Friday	VI CSIT& VI ECS	1	Myhill-Nerode Theorem.		Assignment of 02 Ques. given
January	29.01.2018 Monday	VI CSIT& VI ECS	1	Regular expression		Assignment of 02 Ques. given
February	02.02.2018 Friday	VI CSIT& VI ECS	1	Equivalence of finite automata and Regular Expressions		Assignment of 02 Ques. given
February	05.02.2018 Monday	VI CSIT& VI ECS	2	state and prove Arden's Method.		Assignment of 02 Ques. given
February	07.02.2018 Wednesday	VI CSIT& VI ECS	2	finite automata to Regular expression conversion		Assignment of 02 Ques. given
February	09.02.2018 Friday	VI CSIT& VI ECS	2	The Pumping Lemma for Regular Sets, Applications of the pumping lemma,		Assignment of 02 Ques. given
February	19.02.2018 Monday	VI CSIT& VI ECS	2	Context free and Context sensitive grammar		Assignment of 02 Ques. given
February	21.02.2018 Wednesday	VI CSIT& VI ECS	2	Types of Grammar		Assignment of 02 Ques. given

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February	23.02.2018 Friday	VI CSIT& VI ECS	2	Ambiguity regular grammar		Assignment of 02 Ques. given
February	26.02.2018 Monday	VI CSIT& VI ECS	2	Reduced forms of context free Grammar		Assignment of 02 Ques. given
February	28.02.2018 Wednesday	VI CSIT& VI ECS	2	Removal of useless Symbols, unit production and null production Chomsky Normal Form (CNF)		Assignment of 02 Ques. given
March	05.03.2018 Monday	VI CSIT& VI ECS	2	Griebach Normal Form (GNF)		Assignment of 02 Ques. given
March	07.03.2018 Wednesday	VI CSIT& VI ECS	3	Introduction to Pushdown Machines		Assignment of 02 Ques. given
March	09.03.2018 Friday	VI CSIT& VI ECS	3	Design a PDA		Assignment of 02 Ques. given
March	12.03.2018 Monday	VI CSIT& VI ECS	3	Design of T.M,		Assignment of 02 Ques. given
March	14.03.2018 Wednesday	VI CSIT& VI ECS	3	Deterministic and Non-Deterministic Turing Machines		Assignment of 02 Ques. given
March	16.03.2018 Friday	VI CSIT& VI ECS	3	Halting problem of T.M., PCP Problem		Assignment of 02 Ques. given
March	26.03.2018 Monday	VI CSIT& VI ECS	4	Chomsky hierarchies of grammars,		Assignment of 02 Ques. given
March	28.03.2018 Wednesday	VI CSIT& VI ECS	4	Unrestricted grammars,		Assignment of 02 Ques. given
April	02.04.2018 Monday	VI CSIT& VI ECS	4	Context sensitive languages, Relation between languages of classes.		Assignment of 02 Ques. given
April	04.04.2018 Wednesday	VI CSIT& VI ECS	4	Computability		Assignment of 02 Ques. given
April	06.04.2018 Friday	VI CSIT& VI ECS	4	Primitive Recursive Functions		Assignment of 02 Ques. given
April	09.04.2018 Monday	VI CSIT& VI ECS		Revision		Assignment of 02 Ques. given