PES UNIVERSITY

(Established under Karnataka Act no. 16 of 2013)

100ft Ring Road, BSK 3rd Stage, Hosakerehalli, Bengaluru - 560085

Department of Computer Science & Engineering

Automata Formal Languages & Logic

Course Instructor : Prof. Preet Kanwal

Sem 3

Unit 1
Finite State Machines

Class Hour	Topic	Textbook - Chapter & Section	Recorded Video	Slides	Notes	Homework	MCQ	Question Bank	Q&A	% Coverage	
										Unit	Total
1	Introduction to the Course	-	☑	☐	☐	☐	☐	☐	☐		
1	Unit 1 Outline	-	☑	☑	☐	☐	☐	☐	☐		
1	Mathematical Preliminaries : Sets	T1-1.1	☑	☑	☑	☐	☑	☑	☑		
2	Mathematical Preliminaries : Functions & Relations	T1-1.1	☑	☑	☑	☐	☑	☑	☑		
2	Basic Notations	T1-1.2	☑	☑	☐	☐	☐	☐	☐		
3 - 6	Deterministic Finite Acceptors	T1-2.1	☑	☑	☑	☑	☑	☑	☑		
7	Non -Deterministic Finite Acceptors, λ-NFA	T1-2.2	☑	☑	☑	☑	☑	☑	☑		
8	Equivalence of Deterministic and Non-deterministic Finite Acceptors	T1-2.3	☑	☑	☑	☑	☑	☑	☑	18	18
9 - 10	Reduction of the number of states in Finite Automata(Minimization of DFA)	T1-2.4	☑	☑	☑	☑	☑	☑	☑		
10	JFLAP - Short Tutorial	http://www.jflap.org/	☑	☐	☐	☐	☐	☐	☐		
	Applications of Finite State Machines	https://gamedevelopment.tutsplus.com/tutorials/finite-state-machines-theory-and-implementation--gamedev-11867 https://people.cs.clemson.edu/~goddard/texts/theoryOfComputation/5.pdf http://robotics.sk/go/FSM/finite-state-	☑	☑	☑	☐	☐	☐	☐		