

Subject Name: - Automata Subject Code:-(PC-CS-AIML-301A) 5th Sem

LESSON PLAN

S.No.	Lecture No.	Topics to be covered	CO Covered	Assignment No	Teaching Methodology
1.	L-1	Study the concept of automata theory	CO1	Assignment -1	White Board
2.	L-2	automata. Intro of deterministic finite	CO1	Assignment -1	Smart Board
3.	L-3	Non deterministic finite automata (N DFA)	CO1	Assignment -1	Smart Board
4.	L-4	Desining of FA	CO2	Assignment -1	White Board
5.	L-5	Finite automata with e transitions	CO2	Assignment -1	White Board
6.	L-6	Regular expression (RE) of finite automata.	CO2	Assignment -1	White Board
7.	L-7	Applications of regular expressions	CO2	Assignment -1	White Board
8.	L-8	Algebraic laws of RE	CO2	Assignment -1	Smart Board
9.	L-9	Closure properties of RE	CO2	Assignment -1	White Board
10.	L-10	RE to NFA	CO2	Assignment -1	White Board
11.	L-11	DFA to RE	CO2	Assignment-2	White Board
12.	L-12	Minimization of NFA and DFA	CO2	Assignment-2	White Board
13.	L-13	DFA conversions	CO2	Assignment-2	White Board

14.	L-14	Parse tree	CO2	Assignment-2	White Board
15.	L-15	Context sensitive grammar	CO3	Assignment-2	White Board
16.	L-16	Applications of CSG	CO2	Assignment-2	White Board
17.	L-17	Regular grammar	CO2	Assignment-2	White Board
18.	L-18	Ambiguity and normal forms of CFG	CO3	Assignment-3	Smart Board
19.	L-19	Closure properties of CFL	CO3	Assignment-3	White Board
20.	L-20	and greibach normal forms	CO3	Assignment-3	White Board
21.	L-21	Pumping lemma theorem and its applications	CO3	Assignment-3	White Board
22.	L-22	Minimizations of finite automata	CO3	Assignment-3	White Board
23.	L-23	Recursive languages.	CO3	Assignment-3	White Board
24.	L-24	Intro to mealy and Moore machines	CO3	Assignment-3	White Board
25.	L-25	Equivalence of Moore and mealy machines	CO3	Assignment-3	Smart Board
26.	L-26	Designing of Moore and mealy machines	CO4	Assignment-3	Smart Board
27.	L-27	Intro to PDA	CO4	Assignment-3	Smart Board
28.	L-28	Language of PDA	CO4	Assignment-3	White Board
29.	L-29	Desiging of DPDA	CO4	Assignment-3	White Board
30.	L-30	Desiging of NPDA	CO4	Assignment-3	Smart Board
31.	L-31	Convert of PDA to CFG	CO4	Assignment-3	Smart Board

32.	L-32	Convert of CFG to PDA	CO4	Assignment-3	White Board
33.	L-33	Equivalence of PDA and CFG	CO4	Assignment-3	White Board
34.	L-34	Parikh theorem	CO4	Assignment-3	Smart Board
35.	L-35	Kleene's theorem	CO4	Assignment-3	White Board
36.	L-36	Intro to Turing Machine	CO4	Assignment-3	Smart Board