INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

THEORY OF COMPUTATION

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	**Dr. K Srinivasa Reddy**	Department:	**IT**
Regulation:	**IARE - R16**	Batch:	**2016 - 2020**
Course Name:	**Theory of Computation**	Course Code:	**AIT002**
Semester:	**IV**	Target Value:	**60% (1.8)**

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Make use of deterministic finite automata and non-deterministic finite automata for modeling lexical analysis and text editors.	1.6	2.8	1.8	Attainment target reached
CO2	Extend regular expressions and regular grammars for parsing and designing programming languages.	1.6	2.8	1.8	Attainment target reached
CO3	Illustrate the pumping lemma on regular and context free languages for performing negative test.	0.6	2.8	1	Attainment target is not yet reached.
CO4	Demonstrate context free grammars, normal forms for generating patterns of strings and minimize the ambiguity in parsing the given strings	1.6	2.8	1.8	Attainment target reached
CO5	Construct push down automata for context free languages for developing parsing phase of a compiler..	1.6	2.8	1.8	Attainment target reached
CO6	Apply Turing machines and Linear bounded automata for recognizing the languages,complex problems	2.3	2.8	2.4	Attainment target reached

Action taken report: (To be filled by the concerned faculty / course coordinator)

CO 3: Need to provide more problems and assignments on CFG and normal forms, and also additional digital resourceswhich enables the students to gain more problem-solving skills.

Course Coordinator **Mentor** **HOD**