

**Acropolis Technical Campus, Indore, 452020, (M.P.)**  
**Department of Computer Science & Engineering**  
**Course Plan**  
**UG**

*Theory of Computation*

Course Code	<b>CS-505</b>	Session: July-Dec 2016	Semester: V
Tutor	1. Prof. B.K.Mishra(A,B) 2. Prof. Sumit S Jain (C)	Revision date :	Branch: CSE
E mail	bkmishra.etc@acropolis.in sumit.jain.etc@acropolis.in	Mob. No: 8889170153, 9827330833	No. of Pages: /

### 1. Scheme of the Semester Containing the Course

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted						Credits Allotted Subjectwise			Total Credits	Remarks	
			Theory Slot			Practical Slot			Period per week					
			End Sem	Mid Sem/MST (Two tests avg)	Quiz, Assignment	End Sem	Term work		Total Marks	L	T			P
1	CS-505	Theory of Computation	70	20	10	0	0	0		100	3	1	0	4

### 2. Course Overview

The purpose of this subject is to cover the underlying concepts and techniques used in Theory of Computation. In this course we cover finite automata, pushdown automata, Context free grammars and Turing machines. We also cover Pumping Lemma for Regular Language & Context Free Language.

### 3. Course Learning Objectives (CLO)

The Learning Objective of Theory of Computation are such that the student will

CLO1: Study various types of Finite Automata.

CLO2: Appreciate to prove equivalence of language described by Automata.

CLO3: Understand the grammar and PDA for a given language.

CLO4: Grasp the comprehensive knowledge of Turing Machine.

CLO5: Acquire awareness about the concepts of tractability, decidability, NP completeness.

CLO6: Understand the challenge for Theoretical Computer Science and its contribution.

### 4. Course Outcomes: (CO)

At the end of the course, student would be able to demonstrate the knowledge and ability to

CO1: To identify different type of Finite Automata and its capability.

CO2: Analyze Regular Language and Context Free Grammar.

CO3: Illustrate Push Down Automata for a given Language and discuss its properties

CO4: Discuss abstract model of computing machine through Turing Machine and its types.

CO5: Draw to create modern techniques to solve NP completeness problems.

CO6: Recognize whether a problem is decidable or undecidable.

# Course File Machine Drawing Subject Code A4031

**Minjie Lin**



**Course File Machine Drawing Subject Code A4031:**

## Embracing the Beat of Expression: An Psychological Symphony within **Course File Machine Drawing Subject Code A4031**

In a world eaten by screens and the ceaseless chatter of immediate transmission, the melodic beauty and emotional symphony produced by the prepared term frequently diminish in to the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. However, located within the pages of **Course File Machine Drawing Subject Code A4031** a stunning literary treasure brimming with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that fascinating masterpiece conducts readers on a mental journey, skillfully unraveling the concealed songs and profound affect resonating within each carefully constructed phrase. Within the depths of this emotional examination, we can examine the book is main harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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