

## Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF323	Automata Theory and Formal Languages	6	3	0	0	3	4

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	Learn the basics of language theory Introduce the basics of computability, decidability and complexity.
Content	Introduction, formal languages??, grammars - Chomsky grammars - grammars and automata - Regular Expressions - Deterministic Finite Automata - Non-Deterministic Automata - Automata with epsilon moves- equivalence between DFA NFA NFA-EPS - Minimization of DFA - Pumping lemma - closure properties of regular languages - ??notions of computability and decidability
References	- Introduction to Automata, Theory, Languages and Computation, J.E. Hopcroft, Jeffrey D. Ullman, Rajeev Motwan, Addison Wesley - Logique(s), langages formels et complexité pour l'informatique, Narendra Jussien, Hermes - Elements of Automata Theory, Jacques Sakarovitch , Cambridge University Press

## Theory Topics

Week	Weekly Contents
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