Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF444	Artificial Intelligence	7	3	0	0	3	5

Prerequisites	INF223
Admission Requirements	INF223

Language of Instruction	
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	This course is an introduction to artificial intelligence and its applications. The objective of the course is to introduce the fundamental methods and approaches to define, formularize and solve AI problems through simple examples and applications.
Content	1. Intro to AI 2. Intelligents agents and environments 3. Problem formularization 4. Introduction to search algorithms 5. Uninformed search algorithms 6. Informed search algorithms 7. Adverserial search and game theory 8. Constraint satisfaction problems 9. Intro to knowledge, reasoning and planning 10. Propositional logic 11. First-order logic 12. Neurons and artificial neural networks 13. Uncertainty and probabilistic approaches 14. Project presentations
References	Artificial Intelligence: A Modern Approach, 4th edition, Stuart Russel & Peter Norvig, Pearson, 2020. Intelligence artificielle et informatique théorique, 2ème édition, J-M.Alliot & T.Schiex, Cépaduès, 2002.

Theory Topics

Week	Weekly Contents
1	Intro to AI
2	Intelligents agents and environments
3	Problem formularization
4	Introduction to search algorithms
5	Uninformed search algorithms
6	Informed search algorithms
7	Adverserial search and game theory
8	Constraint satisfaction problems
9	Intro to knowledge, reasoning and planning
10	Propositional logic
11	First-order logic
12	Neurons and artificial neural networks

Week	Weekly Contents
13	Uncertainty and probabilistic approaches
14	Project presentations