

Artificial Intelligence					
Course Code CIF61011	Student Workload 90 hours	Credits (according to ECTS) 4,5	Semester Semester 3	Frequency each even-semester	Duration 16 meetings
1	Types of courses <i>Compulsary</i> (Faculty level)	contact hours 63,27 hours	independent study 52,5 hours	class size 40 students	
2	Prerequisites for participation Have completed Computational Mathematics course				
3	Learning outcomes <ul style="list-style-type: none"> ● IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. ● IF-ILO-4 Graduates have the ability to think computationally, design-based thinking, conduct analysis with scientific writing, and are able to apply the values of Technopreneurship in creating product innovations in the Systems or Information Technology domain. ● IF-ILO-7 Mastering mathematical concepts and/or theoretical computational statistics. ● IF-ILO-10 Graduates are able to analyze, design, build and evaluate an intelligent system that has the ability to learn from the environment. 				
4	Subject aims <ul style="list-style-type: none"> ● Students are able to understand the image of artificial intelligence and its application in the real world. ● Students are able to analyze intelligent agents. ● Students are able to understand the theory of First Order Logic (FOL). ● Students are able to understand the concept of logic-based agents. ● Students are able to apply solution search with various uninformed search methods ● Student are able to understand the concept of Constraint Satisfaction Problems (CSP) ● Students are able to implement solution search with various informed search methods. ● Students are able to understand the theory of FOL inference and apply it in case studies. ● Students are able to apply to smart-based problems with ProLog language. ● Students are able to understand theories about uncertainty. ● Students are able to understand the concept of bayesian network in solving problems. 				

5	<p>Teaching methods</p> <p>lectures, case study, class discussion, presentation</p>
6	<p>Assessment methods</p> <p>assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment</p>
7	<p>This module is used in the following degree programs as well</p> <p>Information Engineering</p>
8	<p>Responsibility for module</p>
9	<p>Other information</p> <p>1.Rich, Elaine & Knight, Kevin, Artificial Intelligence, 2nd, McGraw-Hill, New York.</p> <p>2.Russell, Stuart; dan Norvig, Peter. 2003. Artificial Intelligence A Modern Approach. International Edition, Edisi 2. Pearson Prentice-Hall Education International. New Jersey.</p> <p>3.Kusumadewi; Sri. 2003. Artificial Intelligence (Teknik & Aplikasinya). Graha Ilmu. Yogyakarta.</p>