



Programme of Module "Artificial Intelligence"

- Code: DT0171
- Type of course unit: Compulsory (Master Degree in Computer Science curriculum SEAS)
- Level of course unit: Postgraduate Degrees
- Semester: 1

Number of ects credits: (Master Degree in Computer Science) 6 (workload 150 hours)

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<b>1</b>	<b>Course objectives</b>	The course aims at providing knowledge on basic concepts of Artificial Intelligence and heuristic programming.
<b>2</b>	<b>Course content and learning outcomes (dublin descriptors)</b>	<p>Topics of the module include:</p> <ul style="list-style-type: none"> <li>• Heuristic problem solving</li> <li>• Theorem proving and Prolog</li> <li>• Planning</li> <li>• Natural Language processing</li> <li>• Probabilistic and Information theoretic reasoning</li> <li>• Machine Learning</li> </ul>
<b>3</b>	<b>Course prerequisites</b>	Competence in programming and data structures.
<b>4</b>	<b>Teaching methods and language</b>	<p>Lectures  <b>Language:</b> English  <b>Reference textbooks</b></p> <ul style="list-style-type: none"> <li>• D. Poole, A. Mackworth, R. Goebel, <i>Computational Intelligence a logical approach</i>. Oxford University Press. 1998.</li> <li>• S. Russell, T. Norvig, <i>Intelligenza Artificiale un approccio moderno</i>. Prentice Hall. (vol. 1) 2005.</li> </ul>
<b>5</b>	<b>Assessment methods</b>	Written test, homework evaluation, and discussion of an implementation project.