<table>
<thead>
<tr>
<th><strong>Module Code</strong></th>
<th>CS7IS2</th>
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<tbody>
<tr>
<td><strong>Module Name</strong></td>
<td>Artificial Intelligence</td>
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<tr>
<td><strong>ECTS weighting</strong></td>
<td>5</td>
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<tr>
<td><strong>Term</strong></td>
<td>MT</td>
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<tr>
<td><strong>Contact Hours</strong></td>
<td>Lectures: 2 hours per week (22 hours) &lt;br&gt;Reading and assimilation: 53 hours &lt;br&gt;Continuous assessment: 50 hours</td>
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<tr>
<td><strong>Module Personnel</strong></td>
<td>Dr. Annalina Caputo</td>
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| **Learning Outcomes** | On successful completion of this module a student should be able to:  
IS2LO1 Appreciate the scope, applications and limitations of artificial intelligence  
IS2LO2 Choose and use appropriate representations for various kinds of knowledge;  
IS2LO3 Comprehend and apply search, reasoning and planning strategies;  
IS2LO4 Develop intelligent systems that handle uncertainty;  
IS2LO5 Apply knowledge representation, reasoning, and machine learning techniques to real-world problems in natural language processing, perception or robotics. |
| **Module Learning Aims** | This module aims to provide students with a thorough overview of the techniques that underlie intelligent systems and an ability to apply these techniques to real-world problems. |
| **Module Content**  | Specific topics addressed in this module include:  
- Search  
- Problem solving  
- Knowledge and reasoning – representations, logic, reasoning  
- Classical automated planning  
- Representing and reasoning with uncertainty  
- Learning,  
- Introductions to topics in Natural Language Processing, Perception, Robotics. |
| **Co-requisite**    | CS7CS4 Machine Learning |
| **Assessment Details** | Coursework: 50%  
Exam: 50%  
Assignments will provide practical experience, in both theory and programming. |