<table>
<thead>
<tr>
<th>Module Code</th>
<th>CS7IS2</th>
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<tbody>
<tr>
<td>Module Name</td>
<td>Artificial Intelligence</td>
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<tr>
<td>ECTS weighting</td>
<td>5</td>
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<tr>
<td>Term</td>
<td>MT</td>
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**Contact Hours**
- Lectures: 2 hours per week (22 hours)
- Reading and assimilation: 53 hours
- Continuous assessment: 50 hours

**Module Personnel**
Assistant Professor Tim Fernando

**Learning Outcomes**
On successful completion of this module a student should be able to:
- IS2LO1 Appreciate scope and limitations of computer simulation of human cognition (ISLO3, ISLO1)
- IS2LO2 Apply concepts based on ontological methods and theories (ISLO2)
- IS2LO3 Analyze logics and psychological schema for representing knowledge;
- IS2LO4 Comprehend and apply reasoning and planning strategies (ISLO4)
- IS2LO5 Utilize developments in biologically-inspired intelligence (ISLO3)

**Module Learning Aims**
This module aims to provide students with a deep appreciation of and practice of the text analysis techniques used in analysing content, formal models of reasoning with content, and biologically inspired representation and reasoning systems.

**Module Content**
Specific topics addressed in this module include:
- Ontologies;
- Knowledge Representation: Schema, Networks and Description Logic;
- Models of human cognitive architecture;
- Models of human reasoning including reasoning under uncertainty;
- Natural language processing

**Recommended Reading List**

**Assessment Details**
Coursework: 50%
Exam: 50%

An essay on an agreed topic will be due at the start of the final week of the semester. The essay will report on a substantial individual project. The project may be analytical or involve implementation, but will include critical evaluation in either case. The project will be negotiated to address student interests, current topics in the wider literature and achievement of learning outcomes.