<table>
<thead>
<tr>
<th><strong>Module Code</strong></th>
<th>CS7IS4</th>
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<tbody>
<tr>
<td><strong>Module Name</strong></td>
<td>Text Analytics</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>HT (2nd Semester)</td>
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<tr>
<td><strong>Contact Hours</strong></td>
<td>2 lecture hours per week</td>
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<tr>
<td><strong>Module Personnel</strong></td>
<td>Associate Professor Carl Vogel</td>
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**Module Learning Outcomes**

On successful completion of this module, students should be able to:
- IS4LO1 Grasp the scope and limitations of finite state methods;
- IS4LO2 Apply concepts from model theory and category theory within content analytics;
- IS4LO3 Analyze, using qualitative and quantitative methods, entailments in natural language texts, distinguishing entailments from suggestions and associations;
- IS4LO4 Comprehend and apply methods of sentiment analysis and metaphor understanding

**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.

**Module Content**

Specific topics addressed in this module include:
- Finite state methods for representation and reasoning, model theoretic semantics and institutions
- Meaning preserving syntactic alternations, text-entailment, text-associations
- Unsupervised language category learning (word senses, topic modelling)
- Statistical Language Processing
- Sentiment and metaphor analysis

**Recommended Reading List**


**Assessment Details**

Coursework: 100%

An essay on an agreed topic will be due at the start of the final week of the semester. The essay will be constructed as a candidate submission to the International Workshop on Computational Semantics.