<table>
<thead>
<tr>
<th>Module Code</th>
<th>CS7IS4</th>
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</thead>
<tbody>
<tr>
<td>Module Name</td>
<td>Text Analytics</td>
</tr>
<tr>
<td>ECTS weighting</td>
<td>5</td>
</tr>
<tr>
<td>Term</td>
<td>HT</td>
</tr>
<tr>
<td>Contact Hours</td>
<td>2 lecture hours per week</td>
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<tr>
<td>Module Personnel</td>
<td>Associate Professor Carl Vogel</td>
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</tbody>
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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.