### Module Descriptor

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<th>Academic Year</th>
<th>2009-2010</th>
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<tr>
<td>Module Code</td>
<td>CS7048</td>
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<tr>
<td>Module Title</td>
<td>Data Communications and Wireless Networking Practical</td>
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| Pre-requisites | CS7002 Data Communications and Wireless Networking  
CS7054 Mobile and Autonomous Systems Research |
| ECTS          | 5         |
| Chief Examiner| Dr. Ciaran Mc Goldrick |
| Teaching Staff| Dr. Ciaran Mc Goldrick |
| Delivery      | 2 hours per week. Students will work in small groups on practical problems in the Data Communications and Wireless Networking domain. Students will produce an academic paper to a standard suitable for publication in an IEEE/ACM Conference or Journal. |

### Aims

Students will acquire and demonstrate competence and capability in the areas of:

- Teamwork
- Time management
- Research Methods
- Project Planning
- Literature Review
- Project Specification
- Project and Experiment Design
- Project Execution
- Project Outcomes
- Clear, concise, appropriate and articulate dissemination of project outputs in the form of an IEEE/ACM calibre paper

Students will be assessed and graded on all these elements.

### Learning Outcomes

Upon completion of this module, students will have demonstrated competence and capabilities in:

- Identifying valid, appropriate and tractable research questions intended to advance the state-of-the-art in a given area
- Documenting the proposed research strategies, outcomes and contributions
- Designing, executing and evolving experimental strategies likely to address the prevailing research question
- Critically assessing and validating the outputs of their work, and that of their colleagues
- Documenting and disseminating their findings to a standard commensurate with that of their peers
- Demonstrated capabilities to work independently and within a group to achieve a common goal
### Syllabus
This module does not have a traditional syllabus. It is goal and outcome focussed, with students continuously assessed on their progress and achievements.

### Assessment
The module is goal and outcome focussed, with students continuously assessed on their progress and achievements. The overall assignment of marks to each constituent element is agreed with the students (within predetermined ranges) at the start of the module. The assessment categories are:
- Teamwork
- Time management
- Research Methods
- Project Planning
- Literature Review
- Project Specification
- Project and Experiment Design
- Project Execution
- Project Outcomes
- Clear, concise, appropriate and articulate dissemination of project outputs in the form of an IEEE/ACM calibre paper

### Bibliography
Students will identify their own reading material as a core element of this module

### Website
http://webct.tcd.ie