## Module Title
Communications and Networks

## School
Engineering and Physical Sciences

## Module Template - Module Descriptor

<table>
<thead>
<tr>
<th>Module Title</th>
<th>Communications and Networks</th>
</tr>
</thead>
<tbody>
<tr>
<td>School</td>
<td>Engineering and Physical Sciences</td>
</tr>
<tr>
<td>Level</td>
<td>11 (SCQF)</td>
</tr>
<tr>
<td>Module Code</td>
<td>B39QE</td>
</tr>
<tr>
<td>Term</td>
<td>1</td>
</tr>
<tr>
<td>Credits</td>
<td>12 SCQF</td>
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</tbody>
</table>

Any changes to the Module Descriptor may be made only with approval of the Undergraduate/Postgraduate Studies Committee

1. **Pre-requisites**
   Mathematics and Computing at level 7 appropriate to electrical communications

2. **Linked Modules**
   None

3. **Excluded Modules**
   None

4. **Degrees for which this is a core module**
   MSc IT (software systems)(MACS), (applied systems)(EPS), (mobile communications)(EPS)

5. **Aims**
   (a) To equip students with an understanding of concepts in digital communications.
   (b) To give an introduction of mobile communication systems.
   (c) To investigate network protocols and theory for both communication systems and computers.

6. **Learning Outcomes**

   **Subject Mastery**
   - Critical understanding of concepts in communication networks at the physical layer, data link layer, MAC sublayer, network layer, and transport layer of the ISO OSI model.
   - Ability to critically analyze and solve problems in communication networks.

   **Personal Abilities**
   - Ability to critically discuss technical issues associated with digital communications and networking technologies.
   - Ability to critically apply the theory to the analysis and design of communication network protocols.

7. **Assessment & Re-assessment Methods**
   - Formative assessment by coursework.
   - Summative assessment by written examination.

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**Date and Version**

<table>
<thead>
<tr>
<th>Date</th>
<th>4/8/00</th>
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<td>15/8/05</td>
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<tr>
<td>Version Number</td>
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See accompanying **Module Syllabus** and **Module Administration** for further details about this module.