<table>
<thead>
<tr>
<th>Module Code</th>
<th>ST3001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Title</td>
<td>Software Applications III</td>
</tr>
<tr>
<td>Pre-requisites</td>
<td>Software Applications I &amp; II</td>
</tr>
<tr>
<td>ECTS</td>
<td>10</td>
</tr>
<tr>
<td>Chief Examiner</td>
<td>Aideen Keaney</td>
</tr>
</tbody>
</table>
| Delivery | 2 hours per week Semester 1 & Semester 2  
This course is a computer laboratory based course. Students are given notes that encourage self paced learning. Interaction with the course instructor and peers is encouraged. |
| Aims | This course will introduce students to Visual Basic programming and will use Visual Basic.NET to learn how to build small software applications. The course will also give students experience in client server database technologies. This course will be based on various databases such as MySQL and Microsoft Access. The course will introduce students to writing database queries using SQL. HTML and PHP will be used to develop user front ends to these databases. |
| Learning Outcomes | On successful completion of this course, students will be able to:  
• Develop software applications with the following tools:  
  o Microsoft Access  
  o Visual Basic.NET  
  o MySQL  
  o Dreamweaver MX  
  o PHP  
• Work independently and also as part of a team to develop software solutions.  
• Work with written and oral descriptions of software application problems and apply suitable tools to build solutions.  
• Source relevant reference material to help in solving software issues.  
• Participate effectively in group discussions on technical issues and problems.  
• Produce, test and implement suitable software solutions. |
| Syllabus | • Building databases with Microsoft Access.  
• Programming with Visual Basic.NET  
• Using Visual Basic.NET to access Databases  
• Generating SQL queries  
• Creating online databases |
- Using PHP to access online databases

| Assessment | This course is entirely examined by continuous assessment. Over the year students hand in approximately 10 assignments, based on a mixture of individual and group work. Students must attend a minimum of 75% of classes and are expected to obtain a passing grade in the coursework. Failure to achieve this may result in students having to undertake additional project work satisfactorily over the summer in order to pass the year. |