Module Code  STU22001
Module Name  Software Applications II
ECTS Weighting  15 ECTS
Semester taught  Semester 1 & 2
Module Coordinator/s  Michael Walsh, Kerstin Ruhland

Module Learning Outcomes
On successful completion of this module, students will be able to:

   LO1. Develop software solutions with the following tools:
       • Microsoft Excel
       • Microsoft Access
       • Visual Basic for Applications
   LO2. Work independently and as part of a team to develop software solutions
   LO3. Work with written and oral descriptions of software application problems and apply suitable tools to build solutions
   LO4. Source relevant reference material to help in solving software issues
   LO5. Participate effectively in group discussions on technical issues and problems
   LO6. Produce, test and implement suitable software solutions

Module Content
The purpose of this module is to give students experience in advanced computer applications. This will include advanced spreadsheets using Microsoft Excel. The module will introduce students to database technology using Microsoft Access. Furthermore, students will learn how to program functions using Visual Basic for Applications.

Teaching and Learning Methods
This module is a computer laboratory-based module. Students are given notes that encourage self-paced learning. Interaction with the module instructor and peers is encouraged. This module is entirely examined by continuous assessment. Over the year students’ hand in approximately 10 assignments, based on a mixture of individual and group work.

Assessment Details

<table>
<thead>
<tr>
<th>Assessment Component</th>
<th>Brief Description</th>
<th>Learning Outcomes Addressed</th>
<th>% of total</th>
<th>Week set</th>
<th>Week due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical</td>
<td>Microsoft Excel Assignment</td>
<td>LO1, LO2, LO5</td>
<td>10%</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Practical</td>
<td>Microsoft Excel Assignment</td>
<td>LO1, LO2, LO3, LO4</td>
<td>20%</td>
<td>6</td>
<td>8</td>
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<tr>
<td>Practical</td>
<td>Visual Basic Assignment</td>
<td>LO1, LO2, LO5</td>
<td>10%</td>
<td>10</td>
<td>12</td>
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<tr>
<td>Practical</td>
<td>Visual Basic Assignment</td>
<td>LO1, LO6</td>
<td>10%</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>Practical</td>
<td>Microsoft Access Assignment</td>
<td>LO1, LO2, LO5</td>
<td>5%</td>
<td>13</td>
<td>13</td>
</tr>
</tbody>
</table>

1  TEP Glossary
2  TEP Guidelines on Workload and Assessment
# Reassessment Details

N/A

## Contact Hours and Indicative Student Workload

<table>
<thead>
<tr>
<th>Contact Hours (scheduled hours per student over full module), broken down by:</th>
<th>contact_lect+contact_lab+contact_tut+contact_other * MERGEFORMAT hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>lecture</td>
<td>0 hours</td>
</tr>
<tr>
<td>laboratory</td>
<td>44 hours</td>
</tr>
<tr>
<td>tutorial or seminar</td>
<td>0 hours</td>
</tr>
<tr>
<td>other</td>
<td>0 hours</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Independent study (outside scheduled contact hours), broken down by:</th>
<th>72 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>preparation for classes and review of material (including preparation for examination, if applicable)</td>
<td>36 hours</td>
</tr>
<tr>
<td>completion of assessments (including examination, if applicable)</td>
<td>36 hours</td>
</tr>
</tbody>
</table>

**Total Hours** 116 hours

## Recommended Reading List


All these texts are available on the Safari Tech Books Online database. These can be accessed from the local TCD library page at www.tcd.ie/Library/collections/databases.php

## Module Pre-requisites

**Prerequisite modules:** ST1001 – Software Applications I

## Module Co-requisites

N/A

## Module Website

N/A

## Last Update

31/07/2019 by Michael Walsh & Kerstin Ruhland