**COURSE DETAILS**

- **Course Code:** F28ED
- **Full Course Title:** User-Centred Experimental Design
- **SCQF Level:** 8
- **SCAF Credits:** 15
- **Available as Elective:** No

**DELIVERY LEVEL**

- **Undergraduate:** Yes
- **Postgraduate Taught:** No
- **Postgraduate Research:** No

**Additional Information:**

**COURSE AIMS**

To give students an introduction to designing, conducting, and analysing experiments that involve human participants, along with other basic methods of studying interaction with computational artifacts.

**LEARNING OUTCOMES – SUBJECT MASTERY**

Students will develop skills in the following areas:

- Collecting and working with user data according to legal and ethical guidelines
- Designing and conducting experiments to evaluate computational systems with users
- Analysing data to test hypotheses and and presenting statistical results to provide evidence for research questions

**LEARNING OUTCOMES – PERSONAL ABILITIES**

Students will develop skills in the following areas:

- Use discipline appropriate software for data analysis,
- Present, analyse and interpret simple numerical and graphical data gathered as part of evaluation studies. (PDP)
- Exercise autonomy and initiative by planning and managing their own work within a specified project; (PDP)
- Take responsibility for their own and other's work by contributing effectively and conscientiously to the work of a group (PDP)
- Communicate effectively to knowledgeable audiences by preparing informal presentations and written reports. (PDP)

**SYLLABUS**
F28ED User-Centred Experimental Design

Ethics of conducting experiments, working with users, experimental design, hypothesis testing, usability testing, basic descriptive and inferential statistics, qualitative analysis.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Level</th>
<th>Title</th>
<th>School</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>F27ID</td>
<td>7</td>
<td>Introduction to Interaction Design</td>
<td>School of Math and Comp Sci.</td>
<td>Pre-Requisite</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LOCATION AND ASSESSMENT METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edi</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>Y</td>
</tr>
<tr>
<td>Y</td>
</tr>
<tr>
<td>Y</td>
</tr>
<tr>
<td>Y</td>
</tr>
</tbody>
</table>

For ALP students - all coursework should be completed to a satisfactory standard (Grade D) for a student to pass the course but it will not form part of the final grade.