F28ED User-Centred Experimental Design

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.

COURSE RELATIONSHIPS

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<tr>
<th>Course Code</th>
<th>Level</th>
<th>Title</th>
<th>School</th>
<th>Type</th>
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<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>
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LOCATION AND ASSESSMENT METHODS

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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.