# Course descriptor F21AD

<table>
<thead>
<tr>
<th>Course code</th>
<th>F21AD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course title</td>
<td>Advanced Interaction Design</td>
</tr>
<tr>
<td>Credits</td>
<td>15</td>
</tr>
<tr>
<td>School</td>
<td>Mathematical and Computer Sciences</td>
</tr>
<tr>
<td>SCQF Level</td>
<td>11</td>
</tr>
<tr>
<td>Semester</td>
<td>2</td>
</tr>
</tbody>
</table>

## Aims
This course aims to give students the opportunity to develop:
- An extensive, detailed and critical knowledge of requirements gathering, design and evaluation techniques in interaction design
- An awareness of current research and emerging issues in the field of interaction design
- A range of specialised skills, and research methods involved in working with users

## Syllabus
- Current and emerging topics in Interaction Design including: user demographics, patterns in technology adoption, interaction design lifecycles, user interface design patterns, prototyping methods, a wide range of qualitative and quantitative data gathering and analysis techniques, accessibility, and a range of research case studies covering cutting edge issues in the field.

## Learning Outcomes

### Subject Mastery
Students will develop skills in the following areas:
- Review, critically analyse, evaluate, and synthesise previous research projects in the field of interaction design
- Identify and propose innovative solutions in response to analysis of users’ requirements.
- Make informed judgements about appropriate methodologies for developing and evaluating technologies suitable for user demographics and background experience.

### Personal Abilities
Students will develop skills in the following areas:
- Use discipline appropriate software for data analysis, prototyping and learning.
- Present, analyse and interpret numerical and graphical data gathered as part of evaluation studies.
- Communicate effectively to knowledgeable audiences by preparing formal and informal presentations and written reports.
- Exercise autonomy and initiative by planning and managing their own work; develop strategies for independently solving problems and taking the initiative.

- Take responsibility for their own and other’s work by contributing effectively and conscientiously to the work of a group, actively maintaining good working relationships with group members, and leading the direction of the group where appropriate.

- Reflect on roles and responsibilities by critically reflecting on their own and others’ roles and responsibilities.

- Deal with complex professional and ethical issues including working with human subjects and wider issues relating to technology in society

| Assessment method | 50% written examination, 50% course work |