D21HM Human Factors Methods

**COURSE DETAILS**

<table>
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<tr>
<th>Course Code: D21HM</th>
<th>Full Course Title: Human Factors Methods</th>
<th>SCQF Level: 11</th>
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<tr>
<td>SCAF Credits: 15</td>
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<td>Available as Elective: No</td>
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**DELIVERY LEVEL**

| Undergraduate: Yes | Postgraduate Taught: Yes | Postgraduate Research: No |

**COURSE AIMS**

The course will equip students from academic and/or industrial backgrounds with knowledge on, and the means to deploy, a wide range of specialist human factors techniques. The emphasis is on method selection, application, combination and integration within existing business practices. Students will develop a critical awareness of what methods exist, how to apply them in practice and their principle benefits and limitations.

**LEARNING OUTCOMES – SUBJECT MASTERY**

On completion of this course, learners will be able to:

- Demonstrate knowledge and understanding of how human factors problems can differ from each other
- Demonstrate knowledge and understanding of how to select appropriate method(s).
- Apply this knowledge and understanding to a variety of problems and scenarios.
- Demonstrate critical awareness by showing how methods can be combined.

Demonstrate commercial relevance by showing how human factors methods can be embedded in existing business practices.

**LEARNING OUTCOMES – PERSONAL ABILITIES**

- An analytical approach to problems and an ability to generate novel solutions.
- An ability to relate theory and methods to practice.

**SYLLABUS**

The course covers the following key areas:

- Introduction to human factors problems and human factors methods
- Task analysis
- Cognitive task analysis
- Human error identification
• Situation awareness assessment
• Mental workload assessment
• Team assessment
• Interface analysis
• Design methods
• Performance time prediction
• Method integration
• Human factors integration

## COURSE RELATIONSHIPS
N/A

## LOCATION AND ASSESSMENT METHODS

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HW Online students can complete the assessment in any semester.

|     |     |     |     |       |     |      |     |     | Examination | 100    | 180       | Assessment  | Semester 3 |                 |

HW Online students can take the assessment in any semester.