Module description:
The module will provide students with an introductory overview of the methods, applications and impact of learning analytics on teaching and learning. The module will help students to develop the knowledge and skills needed to interpret the results of learning analytics and use the information to enhance teaching and learning. Students will also be encouraged to critically evaluate learning analytics methods.

This module aims to:
- Raise awareness of current trends in the use and application of a variety of technological tools in educational contexts.
- Provide students with an overview of what is meant by learning analytics, the data collection methods available and how learning analytics might impact on instruction.
- Develop students’ skills in analysing and interpreting the data provided by learning analytics to devise appropriate and constructive interventions.
- Provide an opportunity for students to critically evaluate various learning analytics methods and tools in light of learning and motivation theories.

Learning outcomes
On completion of this module, students will be able to:
- Demonstrate sufficient knowledge and understanding of the key features of learning analytics to explain its purpose in instructional design and delivery to non-specialist audiences.
- Apply knowledge of learning and motivation theories in order to identify and select key learning environment data.
- Undertake inferential analysis of learning data and specify appropriate interventions to enhance learning and teaching.
- Critically evaluate a proprietary learning analytic tool, e.g. Gradebook on VLE.

Syllabus
- The background, features and purpose of learning analytics methods in teaching and learning
- The theoretical background for learning analytics, e.g. theories of learning and learner motivation
- How to analyse and interpret the data
- Examining the validity of inferences
- Determining the clarity of learning analytics results
- Identifying and implementing appropriate interventions based on data
- Evaluating a variety of learning analytics methods
- Reflection on own experience of learning analytics

Learning and teaching methods
Input will be delivered through specified reading materials and pre-recorded lecture-casts provided on the UoEO Learning Platform. This is supported by guided discussion forums, and biweekly online question and answer sessions (using synchronous communication software and application sharing facility). The pre-recorded lecture-casts and online Q & A sessions will include referenced use of selected case studies drawn from the reading materials and the tutors’ professional / educational contexts and experience. Self-managed learning will supplement input and to this end students will be given direction on required and indicative reading, including relevant websites, and encouraged to identify and share appropriate web-based resources with their peers.

The pedagogical approach for this module is informed by the principles of collaborative enquiry and constructionism. Collaborative enquiry is supported through our internet-mediated learning platform, the aim of which is to facilitate the activity of the learning community through online dialogue, peer discussion and feedback. The participants’ subject understanding, engagement and learning experience will be enhanced through interactions in which they explain their perceptions, discuss their views, share their experience, and receive feedback from peers and tutors.

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<th>Description of unit of assessment</th>
<th>Length/Duration</th>
<th>Submission Date</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>Online test</td>
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<td>Week 3</td>
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<tr>
<td>Data analysis task</td>
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