

## MODULE DESCRIPTOR

### Module Title

Information Retrieval Systems

Reference	CMM539	Version	2
Created	April 2017	SCQF Level	SCQF 11
Approved	July 2016	SCQF Points	15
Amended	August 2017	ECTS Points	7.5

### Aims of Module

To introduce the student to fundamental roles and practical impacts of advanced information search systems, and adaptive or intelligent technology on web based products, systems, services and activities. To undertake and investigation of a topic, assess current information offerings, and develop an understanding of the methods and tools for a relevant technical application. To explore innovative smart information applications, products, solutions, or services that meet end-user or business needs that create entrepreneurial opportunities.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Explain the main concepts of current and intelligent technologies for information search and retrieval applications
- 2 Analyse and evaluate the effectiveness of information systems
- 3 Select appropriate information system technologies.
- 4 Design and/or implement intelligent web based information systems.
- 5 Communicate effectively findings, challenges, and solutions to problems in information systems explaining the methods and technical details.

### Indicative Module Content

Information collection: crawling and document/content pre processing. Information retrieval: indexing, search, and retrieval. Content: Web content, heterogeneous data, image/video/audio and multimedia content. Web and information environments: mobile information, context aware retrieval, ambient computing, cross/multilingual systems, and social media. Intelligent / adaptive systems: personalisation, recommendation, user modelling, and interactive smart information systems.