




Waterford Institute *of* Technology  
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

POSTGRADUATE

# MSc in Computing (Multimedia and eLearning)

LEVEL **9**

Department of Computing, Mathematics and Physics



The MSc in Computing (Multimedia and eLearning) aims to produce graduates with knowledge, skills and expertise in Multimedia and eLearning. This Masters provides both technical and theoretical skills to students who would like to embrace a career in eLearning or Multimedia with an emphasis on research and development.

# MSc in Computing (Multimedia and eLearning)

## Course Outline

- The MSc in Computing (Multimedia and eLearning) is delivered full-time and part-time and aims to produce graduates who can:
- Reason and problem-solve to a high level in the context of multimedia development tools and eLearning platforms and their role within business, industry and research
  - Participate in the development of high-quality multimedia and eLearning educational products
  - Undertake research-based projects for industry, providing effective advice and leadership where required
  - Manage technology-based projects that require the handling of innovation and change in dynamic environments

This Masters is closely aligned with WeLearnT (WIT's eLearning Technologies research group [www.wit.ie/welearnt](http://www.wit.ie/welearnt)) within the computing department in WIT ([www.wit.ie/computing](http://www.wit.ie/computing))

The MSc in Computing (Multimedia and eLearning) provides both technical and theoretical skills to students who would like to embrace a career in eLearning or Multimedia with an emphasis on research and development. It is accessible to students with a strong interest in development (e.g. video games, 3D environments or web development), or design (e.g. HCI, eLearning or instructional design). After this Masters, successful students might pursue a career in the industry in Research and Development or in academia (e.g. PhD.).

## Programme Structure

Semester 1 (Sep - Jan)	Semester 2 (Feb - May)	Semester 3 (Jun - Sep)
<b>Do 3 plus the Research Methods module:</b> Game Design & Development Virtual Reality and Visualisation Dynamic User Interface Development Artificial Intelligence Mobile Multimedia Application Development Visual Principles Research Methods (Dissertation - Proposal)	<b>Do 3 plus the Research Methods module:</b> Elearning Theory & Models Instructional Design HCI & Cognitive Computing Media Processing Research Methods (Dissertation - Literature Review)	Dissertation - Final Report

For more detailed information regarding the programme modules please see [www.wit.ie/msccomputingmultimediaelearning](http://www.wit.ie/msccomputingmultimediaelearning)

## Career Opportunities

The Multimedia and eLearning industry is a major niche within the Information Communications Technologies (ICT) sector that has steadily increased over the past decade. Many Irish companies have been established or have migrated from related fields to provide multimedia services and products. Web design, digital and audio authoring tools, data management, telecommunications and computer-based training are some of the industry areas in which Irish companies have already begun to flourish.

There are many opportunities for multimedia developers and in particular for multimedia developers in the eLearning industry. A graduate from this course will also be equipped to pursue a research-oriented career in both industry and academia.

# Entry Details

## Entry Requirements

Students wishing to apply for this course will normally require an honours degree in computing, or cognate disciplines with a significant computing component.

International students are required to meet with the WIT postgraduate TOEFL/IELTS English language requirement standard.

## Fees

For information on fees please visit our web page at [www.wit.ie/pg](http://www.wit.ie/pg)

# Contacts

## Admissions queries contact:

Graduate Admissions,  
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## Academic queries contact:

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