



Waterford Institute *of* Technology  
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Postgraduate

# MSc in Computing (Enterprise Software Systems)

Department of Computing, Mathematics and Physics

Level 9



The MSc in Computing (Enterprise Software Systems) is designed to develop and refine a set of skills essential for successful engagement of enterprises with information and communications technology (ICT). The main themes of the programme are business analysis and enterprise software development, supporting the entire business systems lifecycle.

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# MSc in Computing (Enterprise Software Systems)

## Course Outline

This MSc programme is designed to develop and refine a set of skills essential for successful engagement of enterprises with information and communications technology (ICT). The main themes of the programme are business systems analysis and enterprise software development, supporting the entire business systems lifecycle. The course aims to produce graduates who can:

1. Reason and problem-solve to a high level in the context of enterprise software and its role in business, industry and research
2. Participate constructively in the strategic deployment of enterprise software
3. Manage the development of high-quality enterprise software products and services
4. Undertake research-based projects for industry, providing effective advice and leadership where required
5. Manage technology-based projects that require the handling of innovation and change in dynamic environments

Whereas this course is targeted at IT professionals who would participate in the programme on a part-time basis and complete the programme over two years, the modular design also allows for completion in one year full-time. The structure of this programme is the same as the other taught MSc in Computing courses within the Department of Computing Maths & Physics (CMP) in WIT. It is a 90 credit programme consisting of six taught modules plus a dissertation and was developed through consultation with IT and software development companies in the South East region. See module groupings below.

## Course Delivery

The course will be delivered in a one module per day format, with lectures directly followed by practical laboratory sessions. This structure offers the flexibility to those working in industry to take specific modules on a day-release basis.

## Course Structure – Module Groupings

<b>Computer Systems:</b> Choose at least 1	Distributed Systems IT Architecture Communications Infrastructure & Security
<b>Business &amp; Analysis:</b> Choose at least 1	Business Intelligence Business Process Analysis & Design Information Systems Project Management Organisational Renewal and Performance
<b>Software Development:</b> Choose at least 1	Enterprise Web Development Agile Software Development Mobile Web Development Mobile Application Development
<b>Free Electives</b>	Design Patterns Enterprise Component Development Dynamic User Interface Development Graph Theory & Optimisation
<b>Mandatory</b>	Research Methods and Dissertation



## Entry Details

Applicants will normally require an Honours Degree in Computing or equivalent. The course is targeted at IT professionals who would participate in the programme on a part-time basis and complete the programme over two years.

## Fees

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

## Applications

Please apply online at [www.pac.ie](http://www.pac.ie)

## Contacts

### Admissions queries contact:

Graduate Admissions  
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### Academic queries contact:

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