MSC. ENERGY MANAGEMENT
Level 9 Masters Degree

The programme was developed in response to a need in Industry for a master's degree programme that integrates energy, environmental issues and management. The programme was designed in conjunction with the Energy Institute and industry, this level 9 accredited Masters degree offers students an opportunity to work in the vibrant field of Energy Management.

The programme will enhance the present and future effectiveness of managers, engineers and scientists by providing an opportunity to study the theory and practice of current developments, laws, standards, technologies, management, economics and finance, associated with European energy and environmental issues. Graduates from the programme will be effective managers of environmental technology with an in-depth awareness of resource management under financial and environmental constraints.

The programme is designed primarily for engineers, but will also be of interest to scientists, managers and multi-discipline professionals such as environment health officers, architects and planning officers. Graduates are highly sought-after and can expect full employment in this regard as energy managers, energy strategists and resource planners.

Some of the graduates from this programme...

**Damien Flynn** is an experienced Mechanical Building Services Engineer and returned DIT to pursue an MSc in Energy Management, graduating in 2016. Damien has played a leading role in many high profile projects including the Bord Gais Energy Theatre, Miesian Plaza, University College Dublin and Pharmaceutical Facilities for US multinational companies. Damien’s specialism is in energy and sustainability and post occupancy evaluation of buildings. He is currently Honorary Treasurer of CIBSE Ireland. “I would recommend that experienced Engineer’s give this course serious consideration to meet the academic requirement for C Eng”

**Vicki Whitty** enrolled in the MSc in Energy Management in 2014 after completing an honours degree in Biomedical Engineering. Vicki is currently an Energy Engineer at Bilfinger HSG Facility Management where her main roles include CHP modelling, ISO50001 implementation, energy saving calculations, and energy data analysis for a number of clients in the public and private sector. “The course was hugely beneficial to my career; the classes were interesting, relevant and taught by professors with real life practical experience. The lecture notes are still very helpful and are saved on the work computer where they can be referred back to on a regular basis!”

Route to Chartered Engineer

Graduates from this programme, in possession of an accredited Level 8 (BSc./BEng MSc) Degree will satisfy the academic requirement for Chartered Engineer with the Energy Institute.

Further Information

School of Electrical & Electronic Engineering

- 01-4022832 (Dr. Emma Robinson, Programme Chair)
- 01-4024882 (Dr. Keith Sunderland, Discipline Head)
- 01-4024617 (Ms. Frances Malone, Administration)

emma.robinson@dit.ie
keith.sunderland@dit.ie
frances.malone@dit.ie

www.dit.ie/electricalelectronicengineering
Programme Description

The programme is delivered through lectures, assignments and tutorials and consists of three stages. Stage 1 comprises of 6 compulsory core modules. Stage 2 comprises of 6 optional modules. Stage 3 comprises of a project/dissertation. On average it takes 1 year whole-time and two years part-time at two-three evenings per week to complete stages 1 and 2. Stage 3 will be either an industrial or College based project completed either over a period of 6 months or one year. Project supervision will be provided by DIT.

A Sample of course modules currently on offer include:

<table>
<thead>
<tr>
<th>Stage 1 (Core Modules)</th>
<th>Business (Organisational Behaviour)</th>
<th>Energy Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Law (Business Law)</td>
<td>Energy Conversion and Use</td>
</tr>
<tr>
<td></td>
<td>Financial Decision Making</td>
<td>Energy Management Principles and Practice</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 2 (Optional Modules)</th>
<th>Business (strategic Management)</th>
<th>Power System Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Law (Energy &amp; Environment)</td>
<td>Embedded Generation</td>
</tr>
<tr>
<td></td>
<td>Law and Policy</td>
<td>Renewable Energy</td>
</tr>
<tr>
<td></td>
<td>Financial Management</td>
<td>Technologies</td>
</tr>
<tr>
<td></td>
<td>Wind Energy for Electricity Supply</td>
<td>Biomass Technology / Bio fuels for Transport</td>
</tr>
<tr>
<td></td>
<td>Advanced Energy Systems</td>
<td>Energy Control Systems</td>
</tr>
<tr>
<td></td>
<td>Sustainable Building Design</td>
<td>Low Energy Lighting Design</td>
</tr>
</tbody>
</table>

| Stage 3 | Research Methods | Dissertation |

Career Opportunities

Our graduates have found employment in all of the major companies in Ireland - and internationally around the world - in the high quality manufacturing sector, electrical consultancy, energy engineering, data centre design, wind farm development, electrical networks for transmission and distribution, electricity generation, etc. Energy as a valuable commodity needs to be managed. Search the Internet for: jobs energy management.

Further Information

www.dit.ie/electricalelectronicengineering

School of Electrical & Electronic Engineering

01-4022832 (Dr. Emma Robinson, Programme Chair)
01-4024882 (Dr. Keith Sunderland, Discipline Head)
01-4024617 (Ms. Frances Malone, Administration)
emma.robinson@dit.ie
keith.sunderland@dit.ie
frances.malone@dit.ie