



An Roinn Iompair  
Turasóireachta agus Spóirt

Department of Transport,  
Tourism and Sport

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# ROADS Services Training Group

## LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION - 2017

### SAFER ROADS

Radisson Blu Hotel, Rosses Point Road, Sligo, May 2017.

# LOCAL AUTHORITY ROADS CONFERENCE and EXHIBITION – 2017 SAFER ROADS

## Postgraduate Diploma/MEng in Road and Transport L9 Engineering at IT Sligo.

Dr Brian McCann

Lecturer/Programme Chair

Dept. of Civil Engineering & Construction

Institute of Technology Sligo



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# Presentation Outline:

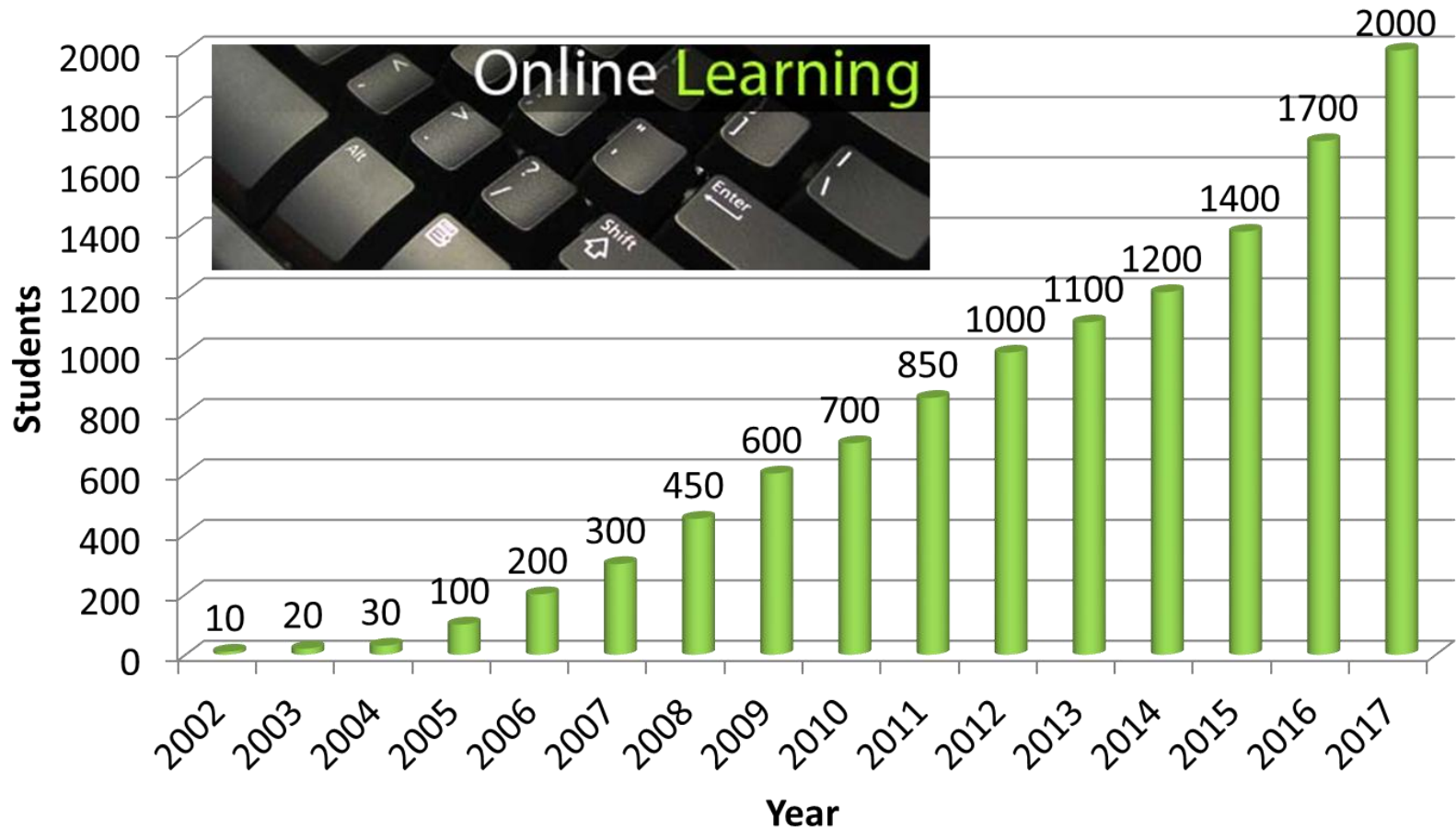
1. Introduction to IT Sligo
2. Online Learning at IT Sligo
3. Postgrad Roads & Transport Programme
4. Application Process
5. Engineers Ireland Accreditation

# 1. Introduction to IT Sligo:

- ❑ Founded in 1970
  - 6,000 Students and 550 staff
  - 2,000 Online Students
  - 1,600 graduates annually
- ❑ Delegated authority Levels 6-10
- ❑ All programmes semesterised:
  - Semester 1 – Sept-Jan. (Jan exams)
  - Semester 2 – Jan.-May (May exams)
- ❑ 3 Academic Schools
  - Business & Social Sciences
  - Science
  - Engineering & Design



## 2. On-line Learning @ IT Sligo: Major growth in numbers since 2002



IT Sligo - Ireland's Leading Provider of Online Learning - 65 courses, across 23 countries of student location.



## 2. On-line Learning @ IT Sligo

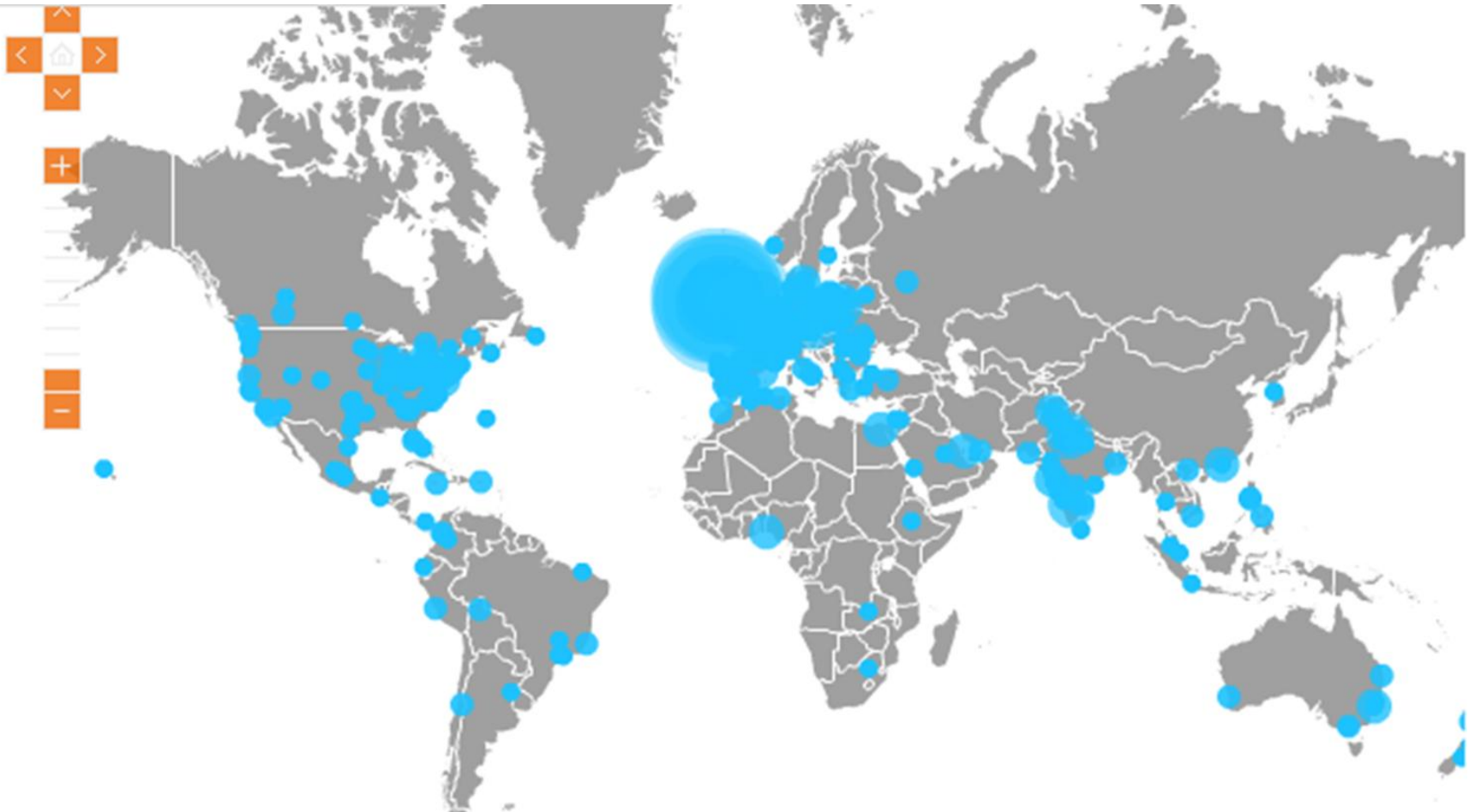
- ❑ Since 2002
  - 2000 online students
- ❑ 65 Programmes
  - No Initial Investment!
- ❑ Award Winning!



## 2. On-line Learning @ IT Sligo

IT Sligo MOOC

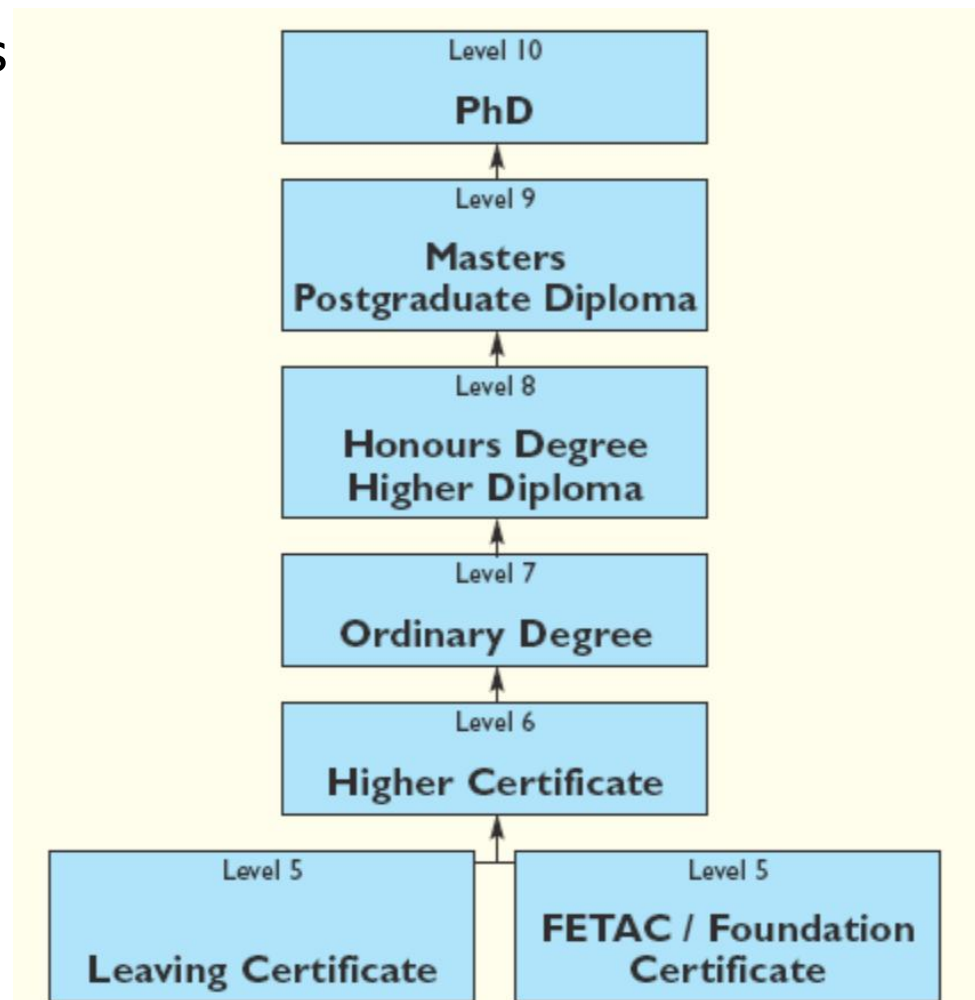
Introduction to Lean Sigma Quality



YouTube Video: <http://youtu.be/d2YSkH8xzXY>

## 2. On-line Learning @IT Sligo

- ❑ Part time study- 30 Credits Per Year/Stage
- ❑ Recognition of prior learning for 'non-standard' applicants.
- ❑ Live & recorded On-line lectures
- ❑ Access to Moodle Virtual Learning Environment.
- ❑ IT Sligo Workshops (twice per semester).
- ❑ Exams Sligo/Dublin/Cork
- ❑ Projects submitted on-line through "Turn It In".





## 2. On-line Learning @IT Sligo

### School of Engineering & Design

#### **Mechatronics/Manufacturing /Quality *Level 9:***

##### ***Level 6:***

- Certificate in Automation
- Certificate in Electronics
- Certificate in Polymer Technologies
- Certificate in Quality

##### ***Level 7:***

- BEng in Mechatronics
- BEng in Electronic Engineering
- BSc in Quality
- BEng in Polymer Processing
- Six Sigma Green Belt
- BSc in Manufacturing Management

##### ***Level 8:***

- BEng (Hons) in Mechatronics
- BEng (Hons) in Electronic Engineering
- Introduction to Lean Sigma Quality
- Higher Diploma in Science in Quality
- BSc (Hons) in Quality Management and Technology

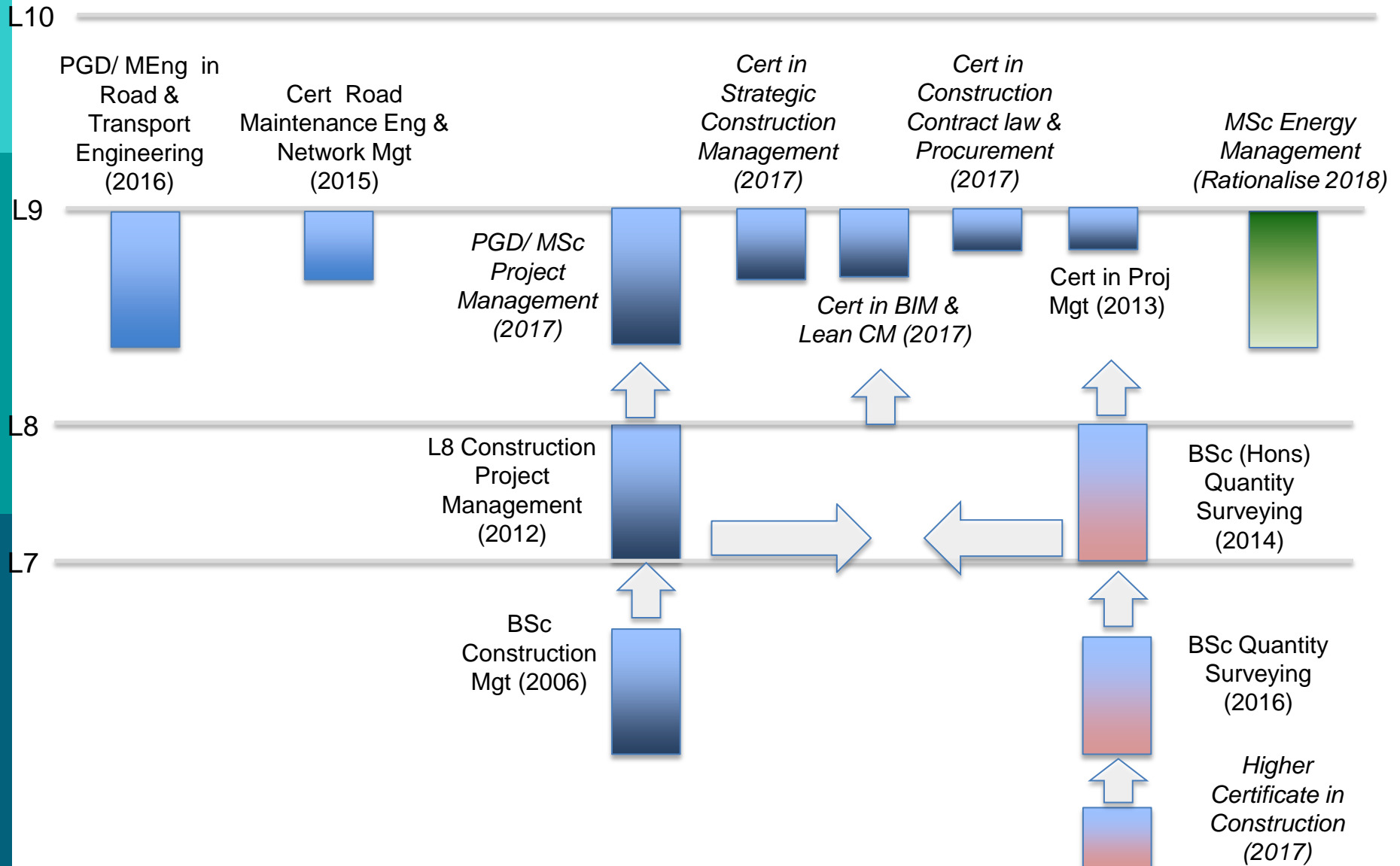
- MSc in Quality

#### **Civil Engineering & Construction**

- L7 BSc in Construction Management
- L8 BSc (Hons) Construction Proj. Mgmt.
- L7 BSc Quantity Surveying
- L8 BSc (Hons) Quantity Surveying
- L9 Certificate in Road Maintenance Engineering & Network Management
- L9 PGD/MEng Road & Transport Eng.
- L9 PGD/ MSc Energy Management
- L9 Certificate Project Management
- L9 PGD/MSc Proj Management (2017)
- L9 Cert in Strategic Construction Management (2017)
- Cert in Construction Contract law & Procurement (2017)
- Cert in BIM & Lean CM (2017)

# 2. On-line Learning @IT Sligo

## Dept. Civil Eng. & Construction (on-line)



## 3. Postgrad Road & Transport Engineering Programme

- ❑ IT Sligo with stakeholders LASNTG & DTTAS developed Postgraduate Cert, Diploma & MEng online part-time programmes in road & transport engineering.
- ❑ In 2014 QQI approved the L9 Post Grad Cert in Road Maintenance Engineering & Network Management (Stage 1 of programme)
- ❑ January 2015- First intake on Post Grad Cert (1 Year/2 Semesters).
- ❑ Further intakes Sept 2015 & 2016 (to May) & Sept. 2018, onwards, etc.

MODULE TITLE	SEMESTER	CREDITS	LECTURE HOURS/ WEEK	POST GRAD CERTIFICATE
GEOTECHNICAL ENG & DRAINAGE SYSTEMS (C1)	1	5	2	Cert in Road Maintenance Eng & Network Management (30 credits) (€4,500)
CONSTRUCTION CONTRACTS & LIABILITIES (C2)	1	5	1	
TRANSPORTATION PLANNING (C3)	1	5	1	
ROAD PAVEMENT DESIGN & MANAGEMENT (C4)	2	5	2	
STRUCTURAL ASSESSMENT & INSPECTION (C5)	2	5	2	
TRAFFIC CONTROL & SAFETY (C6)	2	5	1	

# 3. Postgrad Road & Transport Engineering Programme

- Subsequent completion of Semester 3 and 4 is equivalent to the Post Grad Diploma in Road and Transport Engineering.
- To progress to the MEng, a research dissertation is undertaken in an agreed chosen field during Semester 5 and 6.
- Applications made directly to any of the three degrees initially (Cert., Diploma or MEng) but each stage must be completed in succession.

MODULE TITLE	SEMESTER	CREDITS	LECTURE HOURS/ WEEK	POST GRAD CERTIFICATE	POST GRAD DIPLOMA (PGD)	MASTER OF ENGINEERING (MENG)
GEOTECH ENG & DRAINAGE SYSTEMS DESIGN	3	5	2	(30 credits) (€4,500)	Post Grad Diploma in Road & Transport Engineering (60 credits) (€9,000)	MEng in Road & Transport Engineering (90 Credits) (€12,000)
RESEARCH METHODS	3	5	1			
BRIDGE STRUCTURES	3	5	2			
ROAD & TRANSPORT SCHEME DESIGN	4	5	2			
ADVANCED GEOTECHNICAL ENG	4	5	2			
PROJECT MGT & APPRAISAL	4	5	1			
DISSERTATION IN CHOSEN SPECIALISATION	5,6	30	N/A	30 Credit Dissertation (€3,000)		

## 3. Postgrad Road & Transport Engineering Programme

### □ **Special Purpose Awards (SPAs):**

- Note that within Semesters 1 and 2, there are Special Purpose Awards which can be taken as follows:
  - Post Grad Cert in Road Pavement Management and Network Operations (Modules C2 and C4, Cost: €1,500)
  - Post Grad Cert in Road Network Management (Modules C2, C3 and C6, Cost: €2,250)
  - Post Grad Cert in Road Maintenance Engineering (Modules C1, C4 and C5, Cost: €2,250)

### □ **Cost:**

- €4,500/taught stage (6 modules), €3,000 for dissertation stage.
- For local authority engineers, this programme 80% funded by DTTAS and 20% funded by local authorities.



## 4. Application Process

- ❑ **To Apply from within Local Authorities:**
  - Contact Tom Kirby, Secretary of LASNTG. T: +353(0) 505 24688 E: [wsntg@eircom.net](mailto:wsntg@eircom.net)
- ❑ **To Apply from Private Sector/Non-Local Authorities:**
  - Contact: Admissions, IT Sligo T: +353(0) 71 931 8510 E: [admissions@itsligo.ie](mailto:admissions@itsligo.ie) W: [itsligo.ie](http://itsligo.ie)
- ❑ **IT Sligo MEng webpage (links to Cert & Diploma pages) with application link <https://www.itsligo.ie/courses/meng-road-transport-engineering/>**
- ❑ **Minimum Entry Requirements:**
  - Post Grad Diploma or MEng: 2.2 minimum in BEng (Hons) in Civil Engineering or equivalent.
  - Post Grad Cert/ SPAs: Pass in BEng (Hons) in Civil Engineering or equivalent.
- ❑ Applicants who do not meet the above can apply for Recognition of Prior Learning (RPL) using [myexperience.ie](http://myexperience.ie) web portal.

## 4. Engineers Ireland (EI) Accreditation

- ❑ Our Level 6, 7 and 8 (Honours degree) awards in Civil Engineering are accredited by Engineers Ireland, with the L8 degree the first to be developed (1995) in the history of the state and has been continuously accredited by EI (since 2004).
- ❑ From 2013 all graduates of L8 Hons in Civil Engineering in the state require an additional accredited Masters degree to meet the EI academic standards for Chartership.
- ❑ We plan to submit the MEng for L9 EI accreditation following the completion by our first cohort at end 2018.
- ❑ This is a unique technical MEng programme that combines current applied and theoretical learning outcomes required for professionals in the Road (Highway) and Transportation Engineering area with IT Sligo providing suitable in-house and guest academic and practical expertise in the area.
- ❑ **Please talk to us at our stand or email me at [mccann.brian@itsligo.ie](mailto:mccann.brian@itsligo.ie) for more information.**