



# NEW - Certificate in Road Safety Audit & Engineering

Dr. Suzanne Meade, Senior Engineer (Road Safety)



### **Overview**

- Introduction
- Background
- Course Delivery
- On-line Learning at



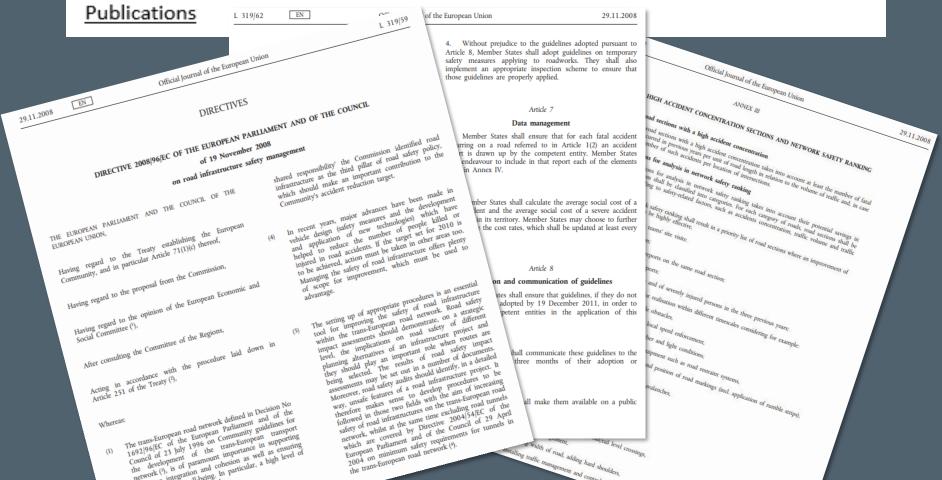
- Learning Outcomes
- Short note: New TII Publications

### TII Remit to provide Safe Infrastructure

#### **EU RISM DIRECTIVE 2008/96/EC**

Transposed into SI 472 of 2011 - TII (NRA) Implementing Body

EU Directive on Road Infrastructure Safety Management (RISM) are met through TII



### TII Remit to provide Safe Infrastructure

Road Safety Auditors in Ireland and the European Union must have a Cirtificate of Competence to operate professionally as a Road Safety Auditor.

Road Safety Auditors are required for several reasons:

Private and Public development
Part of the DMURS Quality Audit (National Roads)
Development on the National Road Network
Regional and Local
Safety Evaluation of National Networks

EU Directive on Road Infrastructure Safety Management (EU RISM) is Irish Law through S.I No. 472 of 2011. EU RISM.

The EU RISM requirements for Road Safety Auditor, training, qualifications and experience are set out in TII Publication GE-STY-01024 and DMURS.

### EU RISM – Changes

New EU RISM 2019/1936 October 2019 — to become law by 2024.

#### Highly ambitious targets:

- Zero Fatal Collisions 2050
- 50% Reduction of Serious Injuries 2030
- Extended to all State National Roads (TII already adopted)
- Major Focus on improving the safety of Vulnerable Road Users

Across EU motorised road safety has improved.

Will require renewed focus and awareness about Active Travel needs and design.



https://etsc.eu/how-safe-is-walking-and-cycling-in-europe-pin-flash-38/

VRU killed in Ireland: 20% to over 30% between 2009 and 2018 (RSA, 2020: Table 3)





23<sup>rd</sup> September 2020





#### **New Course**

Level 9 (NFQ) postgraduate award – Programme is designed to provide students with the necessary knowledge and skills to conduct collision analysis, road safety audits, develop road safety engineering interventions and thus meet qualification requirements of the EU RISM.

✓ The award will be recognised in Ireland and by other EU states.

Designed primarily for qualified civil engineers, to attain the certificate of competence (CoC) in Road Safety Auditing, to become Road Safety Audit Team Leaders.

✓ Also open to equivalently qualified professionals, in recognition that Road Safety is an Applied subject area, several different paths to working as a transport professional.

It will be delivered over academic 1 semester (Sept to December 2020). Previously 2 weeks face to face

✓ Blended learning - Mix of on-line and face to face workshops and site visits.
(Flexible – Teaching has continued through Level 5!)



## New Course Delivery



Dr. Brian McCann (Course Coordinator)

#### **Faculty of Engineering and Design**

Department of Civil Engineering & Construction



Dr. Trevor McSharry (Head of Department)



Steve Proctor



Stuart Summerfield



Rowan O'Callaghan

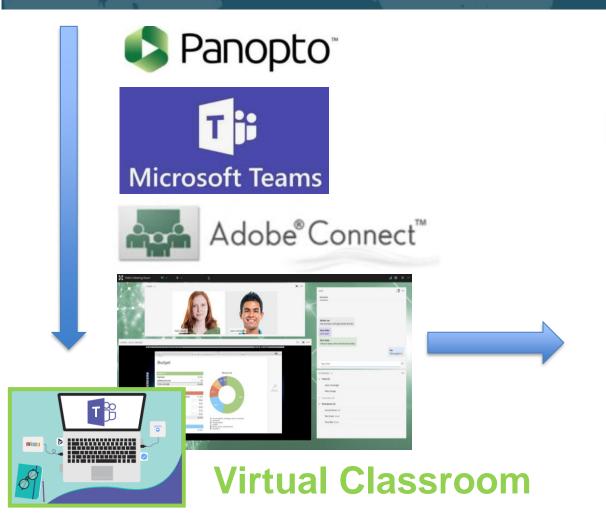


Dr. Suzanne Meade

Lecturers

### Online/Digital Learning







Lecture Notes
Lecture Recordings
Materials

**Assessments** 

Turn it In

**Grades** 

**News and Announcements etc.** 

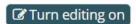




### **Moodle Virtual Learning Environment**





















Link to Moodle page for 'Road Safety Engineering & Audit' module



Link to Moodle page for 'Road Safety Projects' module



Access to Lecture Notes, Recordings, Materials, Assessments, Grades and News and Updates etc.

#### 2 Modules – 1 Semester

ENG09036\_2020 Principles of Road Safety Engineering and Audit

ENG09038\_2020 Road Safety Projects

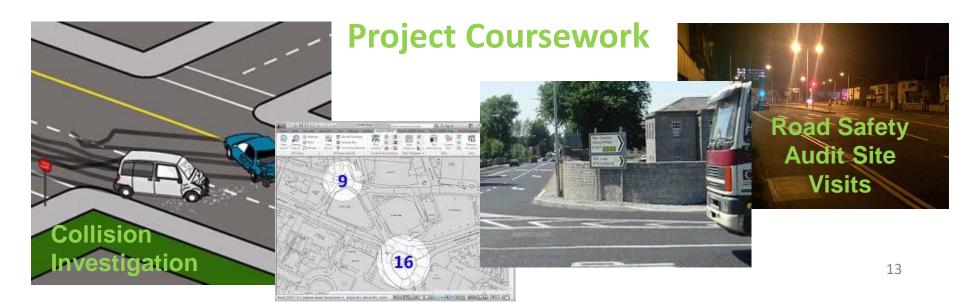
Lectures/Workshops/Self Directed Learning Continual Assessment/Coursework / Written Exam

#### **Road Safety Audits**

Unit Topic	
1	Unit 1 - Introduction to Road Safety Audits
2	Unit 2 - TII Standards and Guidelines
3	Unit 3 - RSA Report Writing
4	Unit 4 - RSA Problem Location Identification & Mapping Unit 5 - Designer Responses
5	Unit 6 - Design Stage Audits
6	Unit 7 - Construction Stage Audits
7	Unit 8 - Stage F Audits

Lecture 1 (1 hour)	ENG0936_2020 Overview
INDUCTION	
SE_Unit 1 & 2	Introduction/ EURISM / Road Users / Trends Ire&EU
SE_Unit 3 & SE_Unit 4	Collision causation
SE_Unit 5	Road safety engineering statistical analysis
SE_Unit 6 & SE_Unit 7	Economic assessment and collision savings / First Year Rate if Return (FYRR) / engineering measures / safe systems approaches
SE_Unit 8	Designing for VRU, designing in urban areas
SE_Unit 8	CMF , Road Safety Inspection
SE_Unit 9	TII Design Standards / Traffic Management Guidelines / DMURS/ VRU

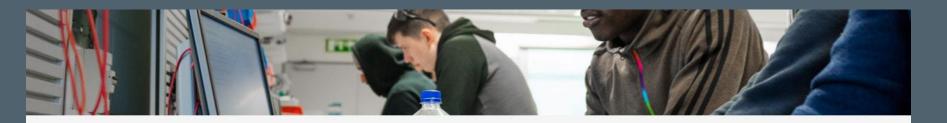
### **Road Safety Engineering**



# **Learning Outcomes**



- Conduct Collision Investigation Research
- Undertake and Evaluate Conflict Studies
- Understand and apply safety interventions
- Understand and apply safety economic and statistical evaluations
- Conduct Stage F, 1, 2, 3 & 4 Road Safety Audits & RSIA
- Become a RSA Team Leader (with experience)
- Attain the CoC
- Provide expert advice to Clients and Authorities (Safe Systems etc.)
- Work as an Auditor in Ireland or EU
- Contribute to meeting Vision Zero and the EU RISM



Faculty of Civil Engineering & Construction

### Certificate in Road Safety Audit and Engineering

Course Code

Award Special Purpose Award

Duration One Semester

Credits

15

NFQ Level

9

#### Who do I contact?

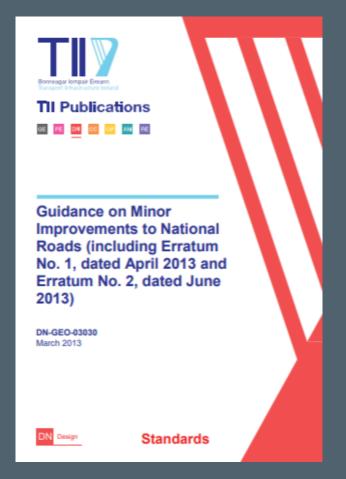
Admissions Office

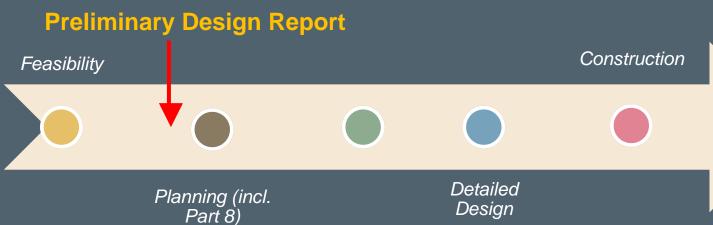
T: 353 (0) 71 931 8510

E: admissions@itsligo.ie

https://www.itsligo.ie/courses/certificate-in-road-safety-audit-and-engineering/









# Thankyou