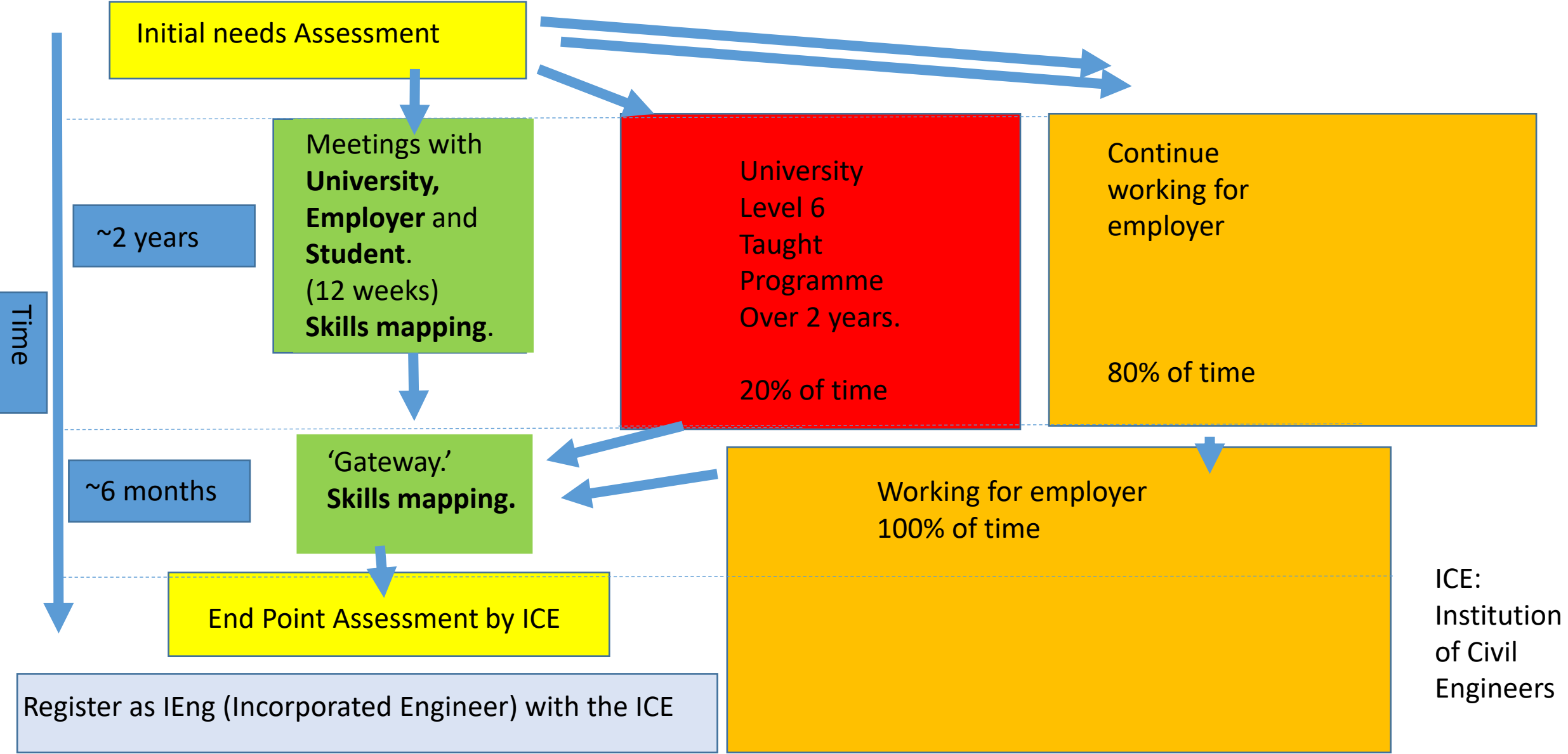




BEng (Hons) Civil Engineering (Level 6) Degree Apprenticeship

Dr Jon Miles
(Associate Head, Civil Engineering)

BEng (Hons) Civil Engineering (Level 6) Degree Apprenticeship



Entry requirement

- Foundation degree in Civil Engineering or Level 5 equivalent (i.e. done two years of relevant H.E.)
- EngTech (usually with ICE, but possible with IStructE)
- Employer support
- Complete Initial Needs Assessment (INA)
- Highly recommended – Maths competence at A-level standard. (usually suitable Maths is included in H.E. Level 4/5).

The 'Academic' part.....

In Year 1 – Students will take HYFM300 in Semester 1 and GEEN314 in Semester 2 as well as complete an ALL year module EPA301

In Year 2 – Students will take STAD300 in Semester 1 and STAD315 in Semester 2 as well as complete the Semester1&2 individual project module PRCE300 and the ALL year module EPA302.

Sem	Module Code	Crd	Module Title	E1	C1	P1	T1	A1
Year One								
S1	HYFM300	20	Water Engineering	70	30			
S2	GEEN314	20	Geotechnical Engineering 2	70	30			
AY	EPA301	0	End Point Assessment Preparation Year 1					P/F
Year Two								
S1	STAD300	20	Structural Engineering Design 2	30	70			
S2	STAD315	20	Structural Engineering Design		50		50	
S1+S2	PRCE300	40	Individual Project		90	10		
AY	EPA302	0	End Point Assessment Preparation Year 2					P/F

Year 1, Semester 1

HYFM300 Water Engineering (20 credits)

Module develops hydraulic engineering concepts

The main areas covered are :
urban drainage,
flood management,
water resources,
river/channel engineering.

Learning is supported by laboratory work





Year 1, Semester 2

GEEN314 Geotechnical Engineering 2 (20 credits)

This module considers the application of Soil Mechanics to analysis and design of a range of common Civil Engineering structures. This includes shallow and deep foundations, retaining structures, and slope stability.

Year 2, Semester 1

STAD300 Structural Analysis and Design
2 (20 credits)

This module focuses on the analyses and design of whole structures, i.e. multi-storey buildings. It includes computer modelling and analysis (LUSAS), and methods of the validation of the obtained results using approximate analysis.





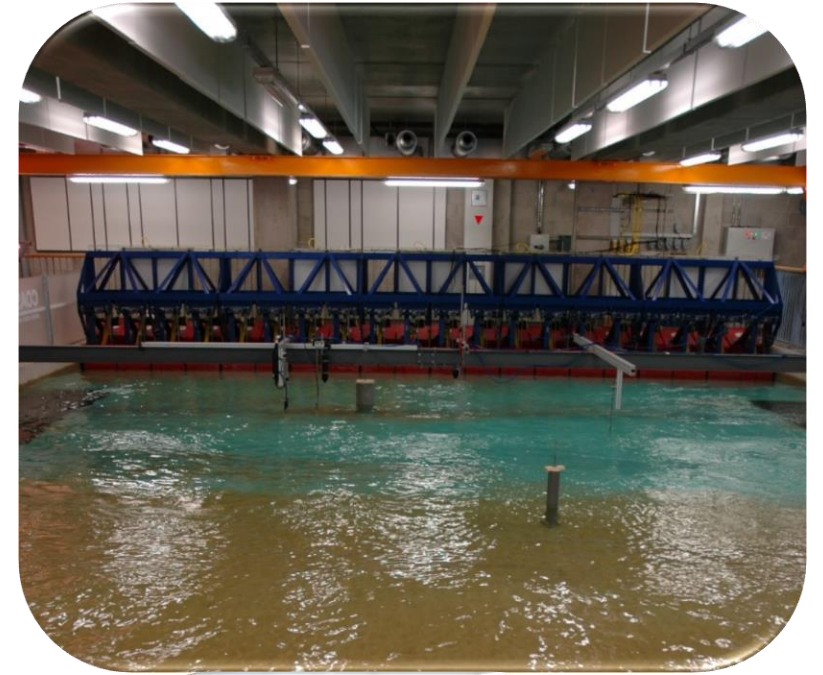
Year 2 Semester 2

STAD315 Structural Engineering Design (20 credits)

This module introduces students to standard industry design practices and builds on their previous knowledge by introducing them to bridges and complex low rise / multi storey building structures. The module provides students with the opportunity to develop their conceptual design skills and adopt a holistic approach to structure design by considering the “whole” as well as the individual elements.

Year 2, Semester 1 + 2

PRCE300 Individual project. (40 credits)
The individual project allows the student to research an approved topic of interest related to civil or coastal engineering. Guided by an academic supervisor, the student independently conducts an investigation comprising theoretical development, experimental/computational and analytical work.



EPA301 End Point Assessment Preparation Year 1 (Zero Credits)

This module helps apprentices prepare for the End Point Assessment (EPA) of the Degree Apprenticeship. Regular reviews of apprentice learning and agreement of learning goals will enable apprentices to understand the knowledge, skills and behaviours of the Degree Apprenticeship Standard. Apprentices will begin to create an evidence-based Personal Development Portfolio needed for the EPA.



EPA302 End Point Assessment Preparation Year 2 (Zero Credits)

This module helps apprentices prepare for the End Point Assessment (EPA) of the Degree Apprenticeship and builds on the help given in Year 1. Regular reviews of apprentice learning and agreement of learning goals will enable apprentices to understand the knowledge, skills and behaviours of the Degree Apprenticeship Standard. Apprentices will finalise the evidence-based Personal Development Portfolio needed for the EPA.



The 'Academic' timetable – a sample from 2020

Semester 1:

All taught material up until end January is on Fridays in 2020.

Each week:

HYFM300 Lecture 1 is at 9:00 to 11:00; RLB 206-207(Roland Levinsky Building)

HYFM300 Lecture 2 is at 3:00 to 5:00; DYB701 (Davy Building)

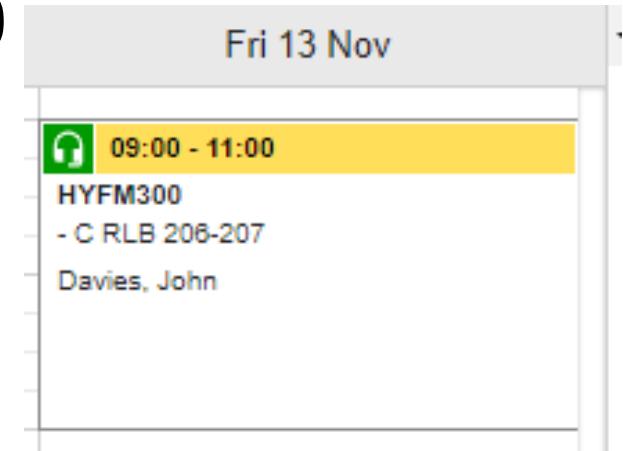
Lecturer: Prof. John Davies.

John will also schedule one or two lab sessions as part of the module.

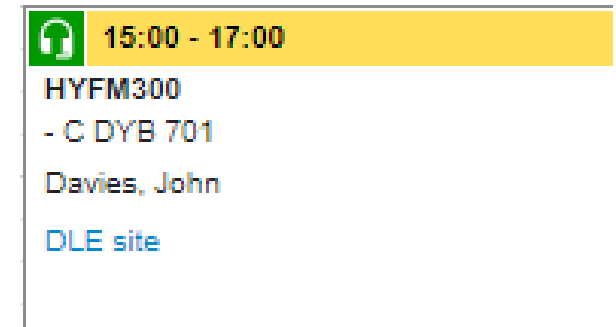
These will be in the Marine Building.

(follow John Davies's instructions on when to go and where to go)

There will be Coursework and an Exam for this module, although this year it is likely that the Exam will be replaced by a timed coursework.



Fri 13 Nov	
09:00 - 11:00	HYFM300 - C RLB 206-207 Davies, John



15:00 - 17:00	HYFM300 - C DYB 701 Davies, John DLE site
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Questions?