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an Atlantaigh

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University

Dhún na nGall, Campas Leitir Ceanainn

Donegal Letterkenny

Report of the Panel of Assessors

School/Department: Department of Civil Engineering and Construction

Date: 25 April 2022

Title of the Programme: *BEng in Building Engineering (Common Entry) incorporating degree award options of Building Engineering with Renewable Energy and Fire Safety Engineering*

Chairperson: Dr Maria Kyne, Dean of Faculty of Engineering and the Built Environment, TUS.

Members of the Panel: Dr Frances Hardiman, Head of Faculty of Engineering, IT Carlow. Pat Mc Cormick, Head of Department of Engineering Trades and Civil Engineering, DKIT, James Lonergan. Director of Education & CPD, Society of Chartered Surveyors Ireland, Emily O Flynn, Research Masters Student, LYIT, Malcolm Crawford, Alumni (Kearney Surveyors).

Secretary: Nollaig Crombie

LYIT Staff: Dr Gertie Taggart (HOF), Anne Boner (HOD), Dr Patrick Lennon, Gerald Kelly, Antoin MacGabhann, Eleanor Diver, Ronan Gallagher, Anthony McElwee, Rory McShane, Tony Carr, Marie Kelly, Brian Campbell, Patrick Mangan, [Attracta McCay](#), [Michael O Connor](#).

Criteria for the Approval of a New Programme

1. The Programme Aims and Objectives are clear and consistent with the Award sought.
2. The Programme concept, implementation strategy are well informed and soundly based.
3. The Programme's Access, Transfer and Progression arrangements are satisfactory.
4. The Programme's written curriculum is well structured and fit for purpose.
5. There are sufficient qualified and capable programme staff.
6. There are sufficient physical resources to implement the programme as planned.
7. The learning environment is consistent with the needs of the programme learners.
8. There are sound Teaching, Learning and Assessment Strategies.
9. Learners enrolled on the Programme will be well informed, guided and cared for.

The Panel of Assessors advises the Academic Council that the Technological University and the Faculty/Department should take cognisance of following recommendations:

1. Update the modules in terms of learning outcomes (active verbs should be used – remove understand, appreciate etc), consistency in number (5 credits 4-6 learning outcomes, 10 credits 6-8 learning outcomes etc.) and ensure indicative content reflects content and not assessment deliverables.
2. The Panel of Assessors strongly recommend the inclusion of a high-level breakdown of non-examination assessment in the module descriptors, especially for the 100% CA modules. The details and submission dates can be detailed in the Annual Assessment Schedule but the general deliverables to be made clear in the descriptor.
3. Include a repeat mechanism or repeat statement (for example, resubmission of coursework, re-presentation of work, repeat exam etc) in the module descriptors to clarify requirements for students.
4. Consider lengthening the 6 week work placement.
5. Remove 'Assessed by Work Placement Mentor' in Module PLAC CC702 as assessment.
6. Add the contingency option for work placement (provision of an alternative project / carrying of module etc) as a special regulation on the Approved Programme Schedule so it is a formal alternative.
7. Fire Technology 1 – Reconsider the module in terms of its title, learning outcomes and indicative content.
8. Make the theme of Renewable Energy more visible in the BEng in Building Engineering with Renewable Energy programme stream.

Response to the Recommendations from the Department of Civil Engineering and Construction (in blue)

The Department welcomes the comments and commendations of the panel and have acted on the recommendations as follows:

1. The modules have been reviewed and amended as appropriate in terms of learning outcomes, consistency in number and indicative content.
2. Indicative Assessment tables of a high-level breakdown of non-examination assessment have been included in the module descriptors.
3. In the case of special circumstances, a repeat mechanism or repeat statement has been included in the module descriptors to clarify requirements for students.
4. The length of the 6 week work placement will be kept under review. Learners have the option to extend the placement over the summer period outside of the academic year.
5. 'Assessed by Work Placement Mentor' in Module PLAC CC702 as assessment has been replaced.
6. Add the contingency option for work placement (provision of an alternative project / carrying of module etc) as a special regulation on the Approved Programme Schedule so it is a formal alternative. The PLAC CC702 module descriptor refers to Work Placement Handbook (sent to panel on the day) which outlines the (Appendix 6) Work Placement Alternative (Project). The alternative project work is done within this module and not replaced with an alternative module, therefore no change to the APS is required.
7. The Learning outcomes and indicative content of Fire Technology 1 module have been reconsidered. The Programme Board feel the title and how it fits into the sequence of modules is appropriate.
8. The Renewable Energy theme has been made more visible in the inclusion of assessment types and in retitling of 2nd year project to 'Sustainable Design Project'.

The Panel of Assessors advises the Academic Council that approval of the programme is subject to general conditions of approval together with the following additional conditions:

The Panel of Assessors is not recommending any conditions to the approval of this programme.

Commendations:

1. There was very open engagement with staff and good discussions throughout the review of the programme.
2. Good documentation was received with sufficient details on the programme.
3. The Department and programme are responsive to regional and industry needs.
4. The implementation of the integrated project is commendable.

PART 4 PROPOSED PROGRAMME SCHEDULE(S) please attach final schedule to bottom of the report.

Title of Proposed Award: BEng in Building Engineering with degree award options BEng in Building Engineering Renewable Energy or BEng in Fire Safety Engineering

Area of Specialisation: Building Engineering (Services) and Fire Safety Engineering

Learning Mode Offered: Fulltime and/or Part-time (ACCS)

Date Effective: September 2022

Proposed Stage 1 Semester 1 (Common with BEng (Hons) Fire Safety Engineering)

Module number	Semester	Title of examination module	Module status	ACCS credits		Contact and Independent Learning hours (per week)					Allocation of marks			
				Level	Number	Lecture	Tutorial	Practical	Independent Learning	Total	CA	Project	Final	Max
1	1	Fire Technology 1	M	6	5	2	-	2	4	8	100	-	-	100
2	1	Construction Technology 1	M	6	5	3	-	1	4	8	25	-	75	100
3	1	Elementary CAD	M	6	5	-	-	4	4	8	100	-	-	100
4	1	Mathematics 1	M	6	5	3	1	-	4	8	25	-	75	100
5	1	Physics 1	M	6	5	2	-	2	4	8	25	-	75	100
6	1	Technical Writing & Communication	M	6	5	-	-	3	5	8	100	-	-	100

Proposed Stage 1 Semester 2 (existing unique to programme module in blue, existing shared modules in Green)

Module number	Semester	Title of examination Module	Module status	ACCS credits		Contact and Independent Learning hours (per week)					Allocation of marks			
				Level	Number	Lecture	Tutorial	Practical	Independent Learning	Total	CA	Project	Final	Max
1	2	Building Services 1	M	6	5	3	1	-	4	8	25	-	75	100
2	2	Fire Technology 2	M	6	5	2	-	2	4	8	100	-	-	100
3	2	Construction Technology 2	M	6	5	3	-	1	4	8	25	-	75	100
4	2	Mathematics 2	M	6	5	3	1	-	4	8	25	-	75	100
4	2	Physics 2	M	6	5	3	1	-	4	8	25	-	75	100
5	2	Land Surveying & GIS	E	6	5	-	-	4	4	8	100	-	-	100
6	2	Electrical Services 1	E	6	5	3	-	1	4	8	25	-	75	100

Degree Award Option: BEng in Building Engineering with Renewable Energy

Proposed Stage 2 Semester 3 (unique to programme modules in blue, shared modules in Green)

Module number	Semester	Title of examination Module	Module status	ACCS credits		Contact and Independent Learning hours (per week)					Allocation of marks			
				Level	Number	Lecture	Tutorial	Practical	Independent Learning	Total	CA	Project	Final	Max
1	3	Building Engineering 1	M	6	5	3	1	-	4	8	40	-	60	100
2	3	Electrical Services 2	M	6	5	3	-	1	4	8	25	-	75	100
3	3	Lighting & Acoustics	M	7	5	3	-	1	4	8	25	-	75	100
4	3	Mechanical & Electrical Scheduling	M	6	5	-	-	4	4	8	100	-	-	100
5	3	Mathematics 3	M	6	5	3	1	-	4	8	25	-	75	100
6	3	Fluids & Thermodynamics 1	M	6	5	3	-	2	3	8	25	-	75	100

Proposed Stage 2 Semester 4 (unique to programme modules in blue, shared modules in Green)

Module number	Semester	Title of examination Module	Module status	ACCS credits		Contact and Independent Learning hours (per week)					Allocation of marks			
				Level	Number	Lecture	Tutorial	Practical	Independent Learning	Total	CA	Project	Final	Max
1	4	Building Engineering 2	M	6	5	4	-	-	4	8	25	-	75	100
2	4	Electrical Services 3	M	6	5	3	-	1	4	8	25	-	75	100
3	4	Design Project	M	6	5	1	-	4	3	8	-	100	-	100
4	4	Mathematics 4	M	6	5	3	1	-	4	8	25	-	75	100
5	4	Renewable Energy Resources	M	6	5	3	1	-	4	8	25	-	75	100
6	4	Site Organisation	M	6	5	2	-	2	4	8	100	-	-	100

Proposed Stage 3 Semester 5 (unique to programme modules in blue, shared modules in Green)

Module number	Semester	Title of examination module	Module status	ACCS credits		Contact Independent Learning hours (per week)					Allocation of marks			
				Level	Number	Lecture	Tutorial	Practical	Independent Learning	Total	CA	Project	Final	Max
1	5	Building Engineering 3	M	7	10	5	-	2	11	17	40	-	60	100
2	5	Electrical Services 4	M	7	5	3	-	1	4	8	25	-	75	100
3	5	Building Engineering Project	M	6	5	-	-	4	4	8	-	100	-	100
4	5	Building Energy Modelling	M	8	5	3	-	-	4	8	100	-	-	100
5	5	Mathematics 5	M	7	5	3	1	-	4	8	25	-	75	100

Proposed Stage 3 Semester 6 (unique to programme modules in blue, shared modules in Green)

Module number	Semester	Title of examination Module	Module status	ACCS credits		Contact and Independent Learning hours (per week)					Allocation of marks			
				Level	Number	Lecture	Tutorial	Practical	Independent Hours	Total	CA	Project	Final	Max
1	6	Building Engineering 4	M	7	5	2	1	1	4	8	40	-	60	100
2	6	Control Engineering for Building Services	M	6	5	3	-	1	4	8	25	-	75	100
3	6	Mathematics 6	M	7	5	3	1	-	4	8	25	-	75	100
4	6	Professional Practice	M	7	5	3	1	-	4	8	40	-	60	100
5	6	Work Placement with Project	M	7	10	-	2	2	4	8	100	-	-	100

Award Option: BEng in Fire Safety Engineering

Stage 2 Semester 3 (Common with BEng (Hons) Fire Safety Engineering)

Module number	Semester	Title of examination Module	Module status	ACCS credits		Contact hours (per week)				Allocation of marks				
				Level	Number	Lecture	Tutorial	Practical	Total	CA	Project	Practical	Final	Max
1	3	Fire Technology 3 (incl. drawing)	M	6	5	2	-	2	4	100	-	-	-	100
2	3	Advanced Construction Technology	M	6	5	3	-	1	4	25	-	-	75	100
3	3	Structural Design & Materials	M	6	5	3	-	1	4	25	-	-	75	100
4	3	Mathematics 3	M	6	5	3	1	-	4	25	-	-	75	100
5	3	Fluids & Thermodynamics 1	M	6	5	3	-	2	5	25	-	-	75	100
6	3	Measurement & Construction Economics	M	6	5	2	-	2	4	25	-	-	75	100

Stage 2 Semester 4 (Common with BEng (Hons) Fire Safety Engineering)

Module number	Semester	Title of examination Module	Module status	ACCS credits		Contact hours (per week)				Allocation of marks				
				Level	Number	Lecture	Tutorial	Practical	Total	CA	Project	Practical	Final	Max
1	4	Fire Science	M	6	10	4	-	2	6	40	-	-	60	100
2	4	Fluids & Thermodynamics 2	M	6	5	2	-	2	4	25	-	-	75	100
3	4	Building Services 2	M	6	5	3	1	-	4	25	-	-	75	100
4	4	Mathematics 4	M	6	5	3	1	-	4	25	-	-	75	100
5	4	Fire Organisation	M	6	5	2	-	2	4	100	-	-	-	100

Stage 3 Semester 5 (Common with BEng (Hons) Fire Safety Engineering)

Module number	Semester	Title of examination module	Module status	ACCS credits		Contact hours (per week)				Allocation of marks				
				Level	Number	Lecture	Tutorial	Practical	Total	CA	Project	Practical	Final	Max
1	5	Fire Dynamics	M	8	10	4	-	2	6	40	-	-	60	100
2	5	Fire Safety Design	M	8	10	4	2	-	6	100	-	-	-	100
3	5	Fire Service Operations	M	7	5	3	-	-	3	25	-	-	75	100
4	5	Mathematics 5	M	7	5	3	1	-	4	25	-	-	75	100

Stage 3 Semester 6 (Common with BEng (Hons) Fire Safety Engineering)

Module number	Semester	Title of examination module	Module status	ACCS credits		Contact hours (per week)				Allocation of marks				
				Level	Number	Lecture	Tutorial	Practical	Total	CA	Project	Practical	Final	Max
1	6	Fire Design Project	M	7	5	-	-	4	4	100	-	-	-	100
2	6	Fire Protection Systems	M	8	10	4	2	-	6	25	-	-	75	100
3	6	Mathematics 6	M	7	5	3	1	-	4	25	-	-	75	100
4	6	Work Placement with Project	M	7	10	-	-	4	2	100	-	-	-	100

Programme Evaluation Report Approved by:

Dr Maria Kyne



Dr Maria Kyne

Dr Billy Bennett

Chair to Panel

(Dean of Faculty of Engineering and the Built Environment, TUS)

(VP for Academic Affairs and Registrar, ATU Donegal)

Date 17th May 2022

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