



lyit

Institiúid Teicneolaíochta Leitir Ceanainn
Letterkenny Institute of Technology

School/Department: Computing

Date: 23 November 2018

Title of the Programme: MSc in Digital Healthcare Level 9 (90 ECTS) with Embedded Exit Award – Postgraduate Diploma in Science in Digital Healthcare Level 9 - 60 ECTS Credits and MSc in Digital Healthcare Research Level 9 (90 ECTS) with a number of Minor Awards

Minor Awards:

- Certificate in Data Analytics and Statistical Analysis (10 ECTS credits)
- Certificate in Ethics in Healthcare Research (10 ECTS credits)
- Certificate in Research and Development for Healthcare Innovation (10 ECTS credits)
- Certificate in Healthcare Technologies (15 ECTS credits)
- Certificate in Wearable Technologies (15 ECTS credits)

Chairperson: Ann Campbell, Former President and Registrar DKIT

Members of the Panel: Dr Matthew Manktelow, Ulster University, Richard Morrow, OPTUM, Ailish Mc Kiernan, LYIT and Professor Martin McKinney , UU Coleraine.

Secretary: Dr George Onofrei

LYIT Staff:

Dr Gertie Taggart; Thomas Dowling; Dr Louise McBride; Dr James Connolly, Nigel McKelvey, Dr Michael McCann; William Farrelly ; Dr Ruth Lennon.

Criteria for the Validation 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.
10. The Programme will be well managed.

(For the attention of the Academic Council)

The Panel of Assessors are satisfied that the proposal adequately addresses the Criteria for the Validation of a New Programme.

The Panel of Assessors advises the Academic Council that the Institute and the School/Department should take cognisance of following recommendations:

The Response from the Department of Computing is shown in blue text after each recommendation.

1. The panel recommends that more explicit detail be provided in relation to entry requirements to ensure an appropriate candidate profile.
Additional information has been provided to this section.
2. Consider the inclusion of medical devices as a research area for dissertation work.
The Provisional Course Board is happy to agree to this recommendation.
3. Consider the scheduling of the Ethics module to run concurrently with those modules dealing with data extraction.
This change has been made and is reflected in the revised course schedule below and in the document.
4. More detail about the repeat assessments should be provided.
Additional information has been provided to this section.
5. The panel strongly encourages the use of guest lecturers throughout the programme.
This is currently common practise in the department and this course particularly lends itself to guest lecturers in a range of specialist areas. The Provisional Course Board is happy to agree to this recommendation.

Commendations:

1. The panel commends the Programme Board for their commitment and energy in developing this programme.
2. It was evident to the Panel that there is an excellent team in place.
3. The panel were impressed by the level of preparation and engagement from the Programme Team; and that the programme had been well thought through.

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

None.

Proposed Programme Schedule(s) Final schedule(s) must be attached to the bottom of this report.



Proposed Programme Schedules

Proposed Programme Schedule – Year 1 Semester 1 – Full-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Postgraduate Diploma in Science in Digital Healthcare
 Area Of Specialisation: MSc in Digital Healthcare
 Learning Mode Offered: Digital Healthcare
 Stage: Full-time
 Award: Full-time Award
 Semester: 1
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	IT Systems for Delivery of Healthcare	M	9	5	1	2	5	8	100	-	-	-	100
1	Data Operations	M	9	5	1	2	5	8	100	-	-	-	100
1	Systems Engineering for ICT in Healthcare	M	9	5	1	2	5	8	100	-	-	-	100
1	Assessing Wearable Sensing Systems	M	9	5	1	2	5	8	100	-	-	-	100
1	Ethics in Healthcare Research Analysis	M	9	10	4	-	13	17	100	-	-	-	100

Total ECTS credits required for stage:

30

Note: It is Institute policy to publish the Final Reports of the Panel of Assessors

Proposed Programme Schedule – Year 1 Semester 2 – Full-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Postgraduate Diploma in Science in Digital Healthcare
 Area Of Specialisation: MSc in Digital Healthcare
 Learning Mode Offered: Digital Healthcare
 Stage: Full-time
 Semester: Award
 Semester: 2
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)					Allocation of marks					
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max		
2	Data Analytics and Statistical	M	9	10	2	2	2	13	17	100	-	-	-	-	100
2	Wearable Sensor Technologies	E	9	10	2	2	13	17	100	100	-	-	-	-	100
2	Placement	E	9	10	-	-	-	35HPW 280H	-	100	-	-	-	-	Pass/ Fail
2	Research and Development for Healthcare Innovation	M	9	10	2	2	13	17	100	-	-	-	-	-	100

Total ECTS credits required for stage: 30

Special Regulations: Student must choose one of the two electives.

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Proposed Programme Schedule – Year 1 Semester 3 – Full-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: MSc in Digital Healthcare
 Area Of Specialisation: Digital Healthcare
 Learning Mode Offered: Full-time
 Stage: Award
 Semester: 3
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
3	Dissertation	M	9	30		2	48	50		100	-		100

Total ECTS credits required for stage: 30

Special Regulations:

The Dissertation topic must be consistent with the overall Programme Learning Outcomes.

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Proposed Programme Schedule – Year 1 Semesters 1 & 2 – Full-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: MSc in Digital Healthcare Research
 Area Of Specialisation: Digital Healthcare
 Learning Mode Offered: Full-time
 Stage: Award
 Semester: 1 & 2
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	IT Systems for Delivery of Healthcare	E	9	5	1	2	5	8	100	-	-	-	100
1	Data Operations	E	9	5	1	2	5	8	100	-	-	-	100
1	Systems Engineering for ICT in Healthcare	E	9	5	1	2	5	8	100	-	-	-	100
1	Assessing Wearable Sensing Systems	E	9	5	1	2	5	8	100	-	-	-	100
1	Ethics in Healthcare Research	M	9	10	4	-	13	17	100	-	-	-	100
2	Data Analytics and Statistical Analysis	E	9	10	2	2	13	17	100	-	-	-	100
2	Wearable Sensor Technologies	E	9	10	2	2	13	17	100	-	-	-	100
2	Research and Development for Healthcare Innovation	E	9	10	2	2	13	17	100	-	-	-	100

Total ECTS credits required for stage: 30

Special Regulations:

Students must take 30 credits worth of modules.

Proposed Programme Schedule – Year 1 Semester 2 & 3 – Full-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: MSc in Digital Healthcare Research
 Area Of Specialisation: Digital Healthcare Research
 Learning Mode Offered: Full-time
 Stage: Award
 Semester: 3
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 26 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
	Dissertation	M	9	60		2	48	50		100	-		100

Total ECTS credits required for stage: 60

Special Regulations:

Students must choose 30 credits worth of modules from semesters 1 and 2.
 The Dissertation topic must be consistent with the overall Programme Learning Outcomes.

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Proposed Programme Schedule – Year 1 Semester 1 – Part-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Postgraduate Diploma in Science in Digital Healthcare
 Area Of Specialisation: MSc in Digital Healthcare
 Learning Mode Offered: Digital Healthcare
 Stage: Part-time, ACCS
 Semester: Award
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks					
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max	
1	IT Systems for Delivery of Healthcare	M	9	5	1	1	1	6	8	100	-	-	-	100
1	Data Operations	M	9	5	1	1	1	6	8	100	-	-	-	100
1	Systems Engineering for ICT in Healthcare	M	9	5	1	1	1	6	8	100	-	-	-	100
1	Assessing Wearable Sensing Systems	M	9	5	1	1	1	6	8	100	-	-	-	100
1	Ethics in Healthcare Research	M	9	10	3	-	14	17	100	100	-	-	-	100

Total ECTS credits required for stage: 30

Special Regulations:

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Proposed Programme Schedule – Year 1 Semester 2 – Part-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Postgraduate Diploma in Science in Digital Healthcare
 Area Of Specialisation: MSc in Digital Healthcare
 Learning Mode Offered: Digital Healthcare
 Stage: Part-time, ACCS Award
 Semester: Award
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)					Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max	
2	Data Analytics and Statistical Analysis	M	9	10	1	2	14	17	100	-	-	-	100	
2	Wearable Sensor Technologies	E	9	10	1	2	14	17	100	-	-	-	100	
2	Placement	E	9	10	-	-	-	35HPW 280H	100	-	-	-	Pass/Fail	
2	Research and Development for Healthcare Innovation	M	9	10	1	2	14	17	100	-	-	-	100	

Total ECTS credits required for stage: 30

Special Regulations: Students must choose one elective.

Proposed Programme Schedule – Year 1 Semester 3 – Part-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: MSc in Digital Healthcare
 Area Of Specialisation: Digital Healthcare
 Learning Mode Offered: Part-time, ACCS
 Stage: Award
 Semester:
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
	Dissertation	M	9	30		1	49	50		100	-		100

Total ECTS credits required for stage: 30

Special Regulations:

The Dissertation topic must be consistent with the overall Programme Learning Outcomes.

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Proposed Programme Schedule – Year 1 Semesters 1 & 2 – Part-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: MSc in Digital Healthcare Research
 Area Of Specialisation: Digital Healthcare
 Learning Mode Offered: Part-time, ACCS
 Stage: Award
 Semester:
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
	IT Systems for Delivery of Healthcare	E	9	5	1	1	6	8	100	-	-	-	100
	Data Operations	E	9	5	1	1	6	8	100	-	-	-	100
	Systems Engineering for ICT in Healthcare	E	9	5	1	1	6	8	100	-	-	-	100
	Assessing Wearable Sensing Systems	E	9	5	1	1	6	8	100	-	-	-	100
	Ethics in Healthcare Research	E	9	10	1	2	14	17	100	-	-	-	100
	Data Analytics and Statistical Analysis	E	9	10	3	-	14	17	100	-	-	-	100
	Wearable Sensor Technologies	E	9	10	1	2	14	17	100	-	-	-	100
	Research and Development for Healthcare Innovation	E	9	10	1	2	14	17	100	-	-	-	100

Total ECTS credits required for stage: 30

Special Regulations:

Students must take 30 credits worth of modules.

Proposed Programme Schedule – Year 1 Semester 2 & 3 – Part-Time

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: MSc in Digital Healthcare Research
 Area Of Specialisation: Digital Healthcare Research
 Learning Mode Offered: Part-time, ACCS
 Stage: Award
 Semester: 3
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 26 weeks)				Allocation of marks					
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max	
	Dissertation	M	9	60		1	49	50		100	-			100

Total ECTS credits required for stage: 60

Special Regulations:

Students must choose 30 credits worth of taught modules.
 The Dissertation topic must be consistent with the overall Programme Learning Outcomes.

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Proposed Programme Schedule

Name Of Provider: Letterkenny Institute of Technology
Title Of Award: Certificate in Healthcare Technologies
Area Of Specialisation: Healthcare Technologies
Learning Mode Offered: Part-time,
Stage: Award
Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	IT Systems for Delivery of Healthcare	M	9	5	1	2	5	8	100	-	-	-	100
1	Data Operations	M	9	5	1	2	5	8	100	-	-	-	100
1	Systems Engineering for ICT in Healthcare	M	9	5	1	2	5	8	100	-	-	-	100

Total ECTS credits required for stage: 15

Special Regulations:

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Proposed Programme Schedule

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Certificate in Data Analytics and Statistical Analysis
 Area Of Specialisation: Data Analytics and Statistical Analysis
 Learning Mode Offered: Part-time
 Stage: Award
 Date Effective: January 2019

Semester	Title of examination subject	Subject status		ECIS credits	Contact hours (per week over 13 weeks)					Allocation of marks				
		Level	Number		L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max	
2	Data Analytics and Statistical Analysis	M	10	2	2	13	17	100	-	-	-	100		

Total ECTS credits required for stage: 10

Special Regulations:

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Programme Schedule

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Certificate in Ethics in Healthcare Research
 Area Of Specialisation: Ethics in Healthcare Research
 Learning Mode Offered: Part-time
 Stage: Award
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	Ethics in Healthcare Research	E	9	10	4	-	13	17	100	-	-	-	100

Total ECTS credits required for stage: 10

Special Regulations:

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Proposed Programme Schedule

Name Of Provider: Letterkenny Institute of Technology
Title Of Award: Certificate in Wearable Technologies
Area Of Specialisation: Wearable Technologies
Learning Mode Offered: Part-time
Stage: Award
Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	Assessing Wearable Sensing Systems	M	9	5	1	2	5	8	100	-	-	-	100
2	Wearable Sensor Technologies	M	9	10	2	2	13	17	100	-	-	-	100

Total ECTS credits required for stage: 15

Special Regulations:

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Proposed Programme Schedule

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Certificate in Research and Development for Healthcare Innovation
 Area Of Specialisation: Research and Development for Healthcare Innovation
 Learning Mode Offered: Part-time
 Stage: Award
 Date Effective: January 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 13 weeks) *				Allocation of marks					
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max	
2	Research and Development for Healthcare Innovation	M	9	10	2	2	13	17	100	-	-	-	-	100

Total ECTS credits required for stage: 10
Special Regulations:

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Institiúid Teicneolaíochta Leitir Ceannainn
Letterkenny Institute of Technology

Programme Evaluation Report Approved by:

Ann Campbell

Chair to Panel

(Former President, Dundalk IT)

Date 10.12.2018

Billy Bennett

(Registrar, Letterkenny IT)

Date 12/12/18