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.
- The learning environment is consistent with the needs of the programme learners.
- 8. There are sound Teaching, Learning and Assessment Strategies.
- 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.

- 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.
- 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.



# Institiúid Telcneolaíochta Leitir Ceanainn Letterkenny Institute of Technology

# **Proposed Programme Schedules**

Proposed Programme Schedule – Year 1 Semester 1 – Full-Time Name Of Provider:

Title Of Award:

Area Of Specialisation: Learning Mode Offered:

Stage: Semester: Date Effective:

Letterkenny Institute of Technology Postgraduate Diploma in Science in Digital Healthcare MSc in Digital Healthcare Digital Healthcare Full-time Award

January 2019

				_			
		Мах	100	100	100	100	100
	rks	[sni4		1	1	1	
	Allocation of marks	Practical			1		1
	All	Project	'	,	'	'	1
		GA	100	100	100	100	100
	eks)	fstoT	ø	œ	8	œ	17
	Contact hours (per week over 13 weeks)	Independent Rainnsa L	rc	5	5	2	13
bannaiy 2019	Contac	ď	Ø	2	Ø	2	-
	(be	T/I	1	1	1	1	4
	ECTS credits	Number	2	5	5	5	10
oann	BC	Level	6	6	6	6	6
	sutete toeldu&			M	M	M	M
TALC:	Title of avenninstion culviant	THE OL CARIBINATION SUBJECT	IT Systems for Delivery of Healthcare	Data Operations	Systems Engineering for ICT in Healthcare	Assessing Wearable Sensing Systems	Ethics in Healthcare Research Analysis
Date Directive	nester	гэс	1	1	T	1	1

Total ECTS credits required for stage:

30

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

Postgraduate Diploma in Science in Digital Healthcare Letterkenny Institute of Technology Name Of Provider:

MSc in Digital Healthcare Digital Healthcare Area Of Specialisation: Title Of Award:

Learning Mode Offered: Semester: Stage:

Date Effective:

Semester

Full-time

Award

January 2019

			_			
		хвМ	100	100	Pass/ Fail	100
marks		Final	1	1		1
Allocation of marks		Practical	1	1	1	-
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		G₽	100	100	100	100
	rs weeks)	IstoT	17	17	35HPW 280H	17
	Contact hours (per week over 13 weeks)	Independen gninrss 1†	13	13	1 .	13
		ď	61	И	-	23
		T/J	2	2	-	61
	ECTS credits	Литрег	10	10	10	10
	EC	Level	6	6	6	6
	Subject status			ഥ	ഥ	M
	:	Title of examination subject	Data Analytics and Statistical	Wearable Sensor Technologies	Placement	Research and Development for Healthcare Innovation
			2	61	01	C4

Total ECTS credits required for stage:

30

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

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

Letterkenny Institute of Technology MSc in Digital Healthcare Digital Healthcare Name Of Provider: Title Of Award:

Learning Mode Offered: Area Of Specialisation:

Stage:

Date Effective: Semester:

Full-time

Award

January 2019

	хвМ	100
marks	[sni7	
llocation of marks	Practical	ı
Alloc	toeiorT	100
	CA	
eks)	Total	50
Contact hours reek over 13 we	Independent Sainras-I	48
Contact hours (per week over 13 week	ď	61
	T/I	
ECTS	Митрег	30
EC	Level	6
t status	Subjec	M
	Title of examination subject	Dissertation

**Зетезтег** 

Total ECTS credits required for stage:

က

30

**Special Regulations:** The Dissertation topic must be consistent with the overall Programme Learning Outcomes.

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

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

					- 1	7		-	
	Мах	100	100	100	100	100	100	100	100
narks	Final	1	1	1	1	1	'	1	1
Allocation of marks	Practical	•	1	1	1	•	1	1	1
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	CA	100	100	100	100	100	100	100	100
(83)	IstoT	8	8	8	8	17	17	17	17
Contact hours (per week over 13 weeks)	nəbnəqəbnI gnimsəJ t	5	5	5	2	13	13	13	13
Contact hours r week over 13 w	ď	2	2	2	2	1	2	21	61
ed)	T/I	1	П	1	1	4	2	2	2
TS dits	Mumber	2	2	5	5	10	10	10	10
ECTS	Level	6	6	6	6	6	6	6	6
s status	Subjec	되	N	B	田	M	ы	珀	H
	Title of examination subject	IT Systems for Delivery of Healthcare	Data Operations	Systems Engineering for ICT in Healthcare	Assessing Wearable Sensing Systems	Ethics in Healthcare Research	Data Analytics and Statistical Analysis	Wearable Sensor Technologies	Research and Development for Healthcare Innovation
Semester		1	1	П	H	п	21	01	0

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

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

January 2019

Date Effective: Semester:

Semester

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ECTS Contact a status credits (per week ow	<b>Isni</b> A								
ocation	Practical	1							
All	Project	100							
	CA								
eeks)	LstoT	50							
ıct hours ver 26 w	Independent Learning	48							
Conta	ď	И							
	T/I								
	Number	09							
EC	Level	6							
sutatus	pəjdu8	¥							
	Title of examination subject	Dissertation							
	Contact hours redits (per week over 26 week  L/T  Independent Learning								

## Total ECTS credits required for stage:

9

## 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.

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

Name Of Provider:

Title Of Award:

Letterkenny Institute of Technology

Postgraduate Diploma in Science in Digital Healthcare MSc in Digital Healthcare

Digital Healthcare

Area Of Specialisation:

Learning Mode Offered:

Part-time, ACCS Award

> Date Effective: Semester:

Stage:

January 2019

			_			_
	Max	100	100	100	100	100
arks	Final	1	1	1	1	1
Allocation of marks	Practical	19.	ı	-	( <b>4</b> )	÷
Alloc	Project	1	1	1	1	•
	CA	100	100	100	100	100
eeks)	Total	8	œ	8	8	17
Contact hours (per week over 13 weeks)	nəbnəqəbnI zninrsə.l t	9	9	9	9	14
Contac	ď	1	1	1	1	-
(per v	T/I	1	1	1	1	က
ECTS	Mumber	5	5	5	5	10
EC	Level	6	6	6	6	6
Subject status		M	M	M	×	×
	Title of examination subject	IT Systems for Delivery of Healthcare	Data Operations	Systems Engineering for ICT in Healthcare	Assessing Wearable Sensing Systems	Ethics in Healthcare Research
sster	Seme	1	1	н	п	1

Total ECTS credits required for stage:

30

Special Regulations:

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

Name Of Provider:

Title Of Award:

Letterkenny Institute of Technology

Postgraduate Diploma in Science in Digital Healthcare

MSc in Digital Healthcare Digital Healthcare

Learning Mode Offered:

Area Of Specialisation:

Part-time, ACCS

Award

Semester:

Stage:

Date Effective:

January 2019

	t status	ECTS	_	Cc (per we	Contact hours (per week over 13 weeks)	rs weeks)		Allo	Allocation of marks	of mar	S
	Subjec	Number	T/I	q	Independen gninzsel t	IstoT	C₽	tosiorT	Practical	lsni4	XsM
	9 M	9	н	61	14	17	100	1	1	ı	100
	Е 9	10	1	8	41	17	100	'	'	1	100
	E 9	10	•	ı	ı	35HPW 280H	100	ı	1		Pass/Fail
M	6 J	01	Ħ	Ŋ	14	17	100	'	1	1	100

Total ECTS credits required for stage:

30

Special Regulations: Students must choose one elective.

Letterkenny Institute of Technology Proposed Programme Schedule - Year 1 Semester 3 - Part-Time

Learning Mode Offered: Area Of Specialisation: Name Of Provider: Title Of Award: Stage:

Digital Healthcare Part-time, ACCS

MSc in Digital Healthcare

Award

Semester:

- 1						
		жьМ	100			
	marks	lsni4				
	Allocation of marks	Practical	1			
	Alloc	toejorq	100			
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	seks)	IstoT	50			
	Contact hours (per week over 13 weeks)	Independent gairrasa.	49			
	Conta	ď	1			
January 2019	(per	T/I				
	ECTS credits	Mumber	30			
Jan	EC	6				
	status	M				
ective:		Title of examination subject	Dissertation			
Date Effective:	ster	Semester				

Total ECTS credits required for stage:

30

**Special Regulations:** The Dissertation topic must be consistent with the overall Programme Learning Outcomes.

Letterkenny Institute of Technology Proposed Programme Schedule - Year 1 Semesters 1 & 2 - Part-Time

Name Of Provider: Title Of Award:

Learning Mode Offered: Area Of Specialisation:

MSc in Digital Healthcare Research Digital Healthcare

Part-time, ACCS Award

Stage: Semester:

Date Effective:

January 2019

					_	_		_	_	_
		xsM	100	100	100	100	100	100	100	100
	arks	lsni4	1		١	1	•	ı	1	1
	Allocation of marks	Practical	1	ı	1	1	1	1	1	1
	Alloca	Project	,	1	1	1	1	,	1	1
		€V	100	100	100	100	100	100	100	100
	(8)	Total	œ	∞	00	∞	17	17	17	17
	Contact hours (per week over 13 weeks)	Independen gnimsəl f	9	9	9	9	14	14	14	14
	Contact hours week over 13 w	ď	1	1	1	1	Ø	ı	Ø	a
	(per	T/J	1	1	1	1	1	8	1	1
	ECTS credits	Mumber	5	2	5	5	10	10	10	10
		Level	6	6	6	6	6	6	6	6
	sutate t	Subjec	ы	ы	田	ы	Ħ	田	田	Ħ
6104 Cimino	Title of eveningtion culticat		IT Systems for Delivery of Healthcare	Data Operations	Systems Engineering for ICT in Healthcare	Assessing Wearable Sensing Systems	Ethics in Healthcare Research	Data Analytics and Statistical Analysis	Wearable Sensor Technologies	Research and Development for Healthcare Innovation
	rester	nəS								
*							_			

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:

Title Of Award:

Area Of Specialisation:

Learning Mode Offered:

Stage:

Stage:

Date Effective:

100 Max Allocation of marks Final Practical 100 Project CV 50 Total (per week over 26 weeks) Contact hours Learning 49 Independent d  $\Gamma/L$ Митрег 9 credits ECTS 6 Level Subject status Σ Title of examination subject Dissertation Date Effective: Semester

Total ECTS credits required for stage:

09

## Special Regulations:

Students must choose 30 credits worth of taught modules.

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

Proposed Programme Schedule

Name Of Provider: Title Of Award:

Area Of Specialisation: Learning Mode Offered:

olage. Date Effective:

Certificate in Healthcare Technologies Healthcare Technologies Part-time, Award

Letterkenny Institute of Technology

January 2019

100 100 100 Max Final Allocation of marks Practical Project 100 100 100 CV (per week over 13 weeks) 00  $\infty$  $\infty$ **Total** Contact hours t Learning Ŋ ıO Ω uəpuədəpuŢ Ø Ø Ø ď -Н  $\Gamma/T$ Ŋ 5 S Number credits ECTS 6 6 6 Level Subject status Z Z × Systems Engineering for ICT Title of examination subject IT Systems for Delivery of Data Operations in Healthcare Healthcare

Total ECTS credits required for stage:

Ħ

Semester

15

Special Regulations:

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

Proposed Programme Schedule

Name Of Provider: Title Of Award:

Learning Mode Offered: Area Of Specialisation:

Stage:

Date Effective:

Letterkenny Institute of Technology Certificate in Data Analytics and Statistical Analysis

Data Analytics and Statistical Analysis

Part-time

Award

January 2019

	Max	100		
arks	lsni7	1		
Allocation of marks	Practical			
Allo	Project	ı		
	€A	100		
eeks)	Total	17		
Contact hours (per week over 13 weeks)	Independen T Learning	13		
	ď	61		
	T/I	લ		
ECTS	Mumber	10		
EC	Level	6		
t status	Subjec	M		
	Title of examination subject	Data Analytics and Statistical Analysis		

Total ECTS credits required for stage:

Analysis

Ø

Semester

10

Special Regulations:

Programme Schedule

Title Of Award: Area Of Specialisation: Name Of Provider:

Letterkenny Institute of Technology Certificate in Ethics in Healthcare Research

Ethics in Healthcare Research

Learning Mode Offered:

Date Effective:

Award

Part-time

January 2019

	хьМ	100
narks	Final	•
location of marks	Practical	'
Allocat	toeiorT	ı
	CA	100
eks)	Total	17
Contact hours ser week over 13 week	nəbnəqəbnl gninrsə.1 †	13
Conta week o	d	ı
(per	T/I	4
ECTS	Mumber	10
EC	Level	6
sutate t	əjduS	ы
Tible of accoming the militide	THE OF EXAMINATION SUBJECT	Ethics in Healthcare Research

Semester

Total ECTS credits required for stage:

10

## Special Regulations:

Proposed Programme Schedule Name Of Provider:

Area Of Specialisation: Title Of Award:

Learning Mode Offered: Stage:

Date Effective:

Letterkenny Institute of Technology Certificate in Wearable Technologies Wearable Technologies

Part-time

Award

January 2019

	- 14		_
	Max	100	100
narks	Final	1	1
Allocation of marks	Practical	1	1
Allocat	Project	1	1
	GV	100	100
eks)	Total	8	17
Contact hours per week over 13 weeks	Independen t Learning	5	13
Contac week o	ď	2	Ø
ECTS credits (per	T/I	1	ผ
	Mumber	5	10
	Level	6	6
sutatus	əəlduZ	M	M
	Title of examination subject	Assessing Wearable Sensing Systems	Wearable Sensor Technologies

Semester

Total ECTS credits required for stage:

ଧ

15

Special Regulations:

**Proposed Programme Schedule** 

Name Of Provider: Title Of Award: Learning Mode Offered:

Date Effective:

Area Of Specialisation:

Certificate in Research and Development for Healthcare Innovation Research and Development for Healthcare Innovation Part-time Award

Letterkenny Institute of Technology

January 2019

Allocation of marks	IsniH xsM	- 100
	Practical	1
	foojora	
	CA	100
Contact hours (per week over 13 weeks)	[stoT	17
	Independen t Learning	13
	ď	81
	T/I	61
ECTS	Number	10
	ГэчэД	6
Subject status		M
Title of examination subject		Research and Development for Healthcare Innovation

Total ECTS credits required for stage: Special Regulations:

ଧ

Semester

10



Programme Evaluation Report Approved by:	Som Just
Ann Campbell	Billy Bennett
Chair to Panel	
(Former President, Dundalk IT)	(Registrar, Letterkenny IT)
Date 10. 12. 2018	Date/2 //8 .