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Institiúid Teicneolaíochta Leitir Ceanainn
Letterkenny Institute of Technology

School/Department: Computing

Date: 3 April 2019

Title of the Programme: MSc in Computer Science Education Research (90 ECTS);
Changes to Higher Diploma in Computing for Educators

Chairperson: Mr Terry Twomey VP Academic Affairs & Registrar, LIT

Members of the Panel: Celia O'Hagan, Mike McTear, Ailish Mc Kiernan and Louise Crotty.

Secretary: Dr George Onofrei

LYIT Staff: Gertie Taggart; Thomas Dowling; Connolly James; McCann Michael; Feeney Mairead; Douglas Mandy; McGarvey John; McKelvey Nigel; Griffin Maria; ORourke Vicky.

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)

Commendations:

1. The panel commends the Programme Board for their vision to reach out to the education community to promote computer science education.
2. The panel commend the team on the readability and quality of documentation.
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 the Institute and the School/Department should take cognisance of following recommendations:

1. The programme team needs to be cognisant of the diversity of participants from primary, secondary and further education.
2. For modules:
 - a. Computational Teaching and Problem Solving – would benefit from inclusion of educational theory in relation to meta-cognition, critical thinking skills, and whole-brain teaching and learning. Review learning outcomes in terms of Bloom’s taxonomy to clarify learning objectives.

Indicative content section 1 title updated to: Decomposition and Educational Theory

Indicative content updated to include: Meta-cognition, critical thinking skills and whole-brain teaching and learning.

Learning outcome 4 updated: Evaluate and critically appraise decomposition techniques and relevant educational theories.

- b. Computer Ethics and Law in Computing – this module is suited to addressing inclusive education. Consider including the “inclusive education as term” in both the module title and learning outcomes (i.e. Digital Inclusivity”). Also, refine the word ethics to “professional” ethics and linking it more clearly to computing law. In reference to the coursework, review assessment – possibly replacing lesson plan with research informed poster presentation.

Indicative Content 2 updated to explicitly refer to: Digital Inclusivity

Indicative content 3 title updated to: Professional Ethics

Point 4 of indicative content 4 updated to: Ethical Guidelines for Computer Professionals with legal cognisance.

Assessment: "Lesson Plan" replaced with: "Research informed Poster Presentation".

- c. Teaching and Learning for Comp. Science – consider reflecting more contemporary educational theories in relation to the module content (Sally Brown, Phil Race, Jeff Petty, Weng Ger). This module should consider action research, e-portfolio, reflective learning as alternative assessments.
Indicative Content 1 title updated to: Pedagogy and Educational Theorists

The following added as a new element to indicative content 1: Modern Day Theorists such as Sally Brown, Phil Race, Jeff Petty, Weng Ger.

Assessment Element 1 'Type' updated to: "e-portfolio or action research outline or reflective journal" and 'Description' updated to: "A formal presentation of an innovative teaching strategy."

- d. Research dissertation – include in the module descriptor the strengths of the research process such as proposal form, workshop and the study advisor. To include other types of educational research and review the language of the indicative content to reflect the research of educational practices
This is an existing module and therefore cannot be edited too heavily, however the following amendments were included:

Module Descriptor now includes the following line: "The Dissertation includes the completion of a proposal form, workshops and the availability of a studies advisor".

Indicative content 4 updated to include the following: "Justification of methods appropriate to the field of study". This facilitates the inclusion of multiple research approaches/types.

For the **HDip in Computing for Educators** – front cover/page – correct the number of credits from 90 to 6

This will be updated

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:

n/a

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

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

Name Of Provider: Letterkenny Institute of Technology
 Title Of Award: Certificate in Computer Science Education
 MSc in Computing in Computer Science Education Research
 Area Of Specialisation: Computer Science Education
 Learning Mode Offered: Full-time
 Stage: Award
 Semester: 1
 Date Effective: September 2019

Semester	Title of examination subject	Subject status	ECTS credits		Total Hours Effort				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	Computational Thinking for Problem Solving	M	9	10	26	13	211	250	100	-	-	-	100
1	Computer Ethics and Law in Education	M	9	10	26	13	211	250	100	-	-	-	100
1	Teaching and Learning for Computer Science	M	9	10	26	13	211	250	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 & 3 – Full-Time

Name Of Provider:	Letterkenny Institute of Technology
Title Of Award:	MSc in Computing in Computer Science Education Research
Area Of Specialisation:	Computer Science Education Research
Learning Mode Offered:	Full-time
Stage:	Award
Semester:	2
Date Effective:	September 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 24 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
2&3	Dissertation	M	9	60		2	48	50		100	-		100

Total ECTS credits required for stage: 60

Special Regulations:

Students must complete 30 credits worth of modules from semesters 1.

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

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

Name Of Provider: Letterkenny Institute of Technology

Title Of Award: Certificate in Computer Science Education
MSc in Computing in Computer Science Education Research

Area Of Specialisation: Computer Science Education

Learning Mode Offered: Part-time, ACCS

Stage: Award

Semester: 1

Date Effective: September 2019

Semester	Title of examination subject	Subject status	ECTS credits		Total Hours Effort				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
1	Computational Thinking for Problem Solving	M	9	10	26	13	211	250	100	-	-	-	100

Total ECTS credits required for stage: 10

Special Regulations: None

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

Name Of Provider: Letterkenny Institute of Technology

Title Of Award: Certificate in Computer Science Education
MSc in Computing in Computer Science Education Research

Area Of Specialisation: Computer Science Education

Learning Mode Offered: Part-time, ACCS

Stage: Award

Semester: 2

Date Effective: September 2019

Semester	Title of examination subject	Subject status	ECTS Credits		Total Hours Effort				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
2	Computer Ethics and Law in Education	M	9	10	26	13	211	250	100	-	-	-	100

Total ECTS credits required for stage: 10

Special Regulations: None

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

Name Of Provider: Letterkenny Institute of Technology

Title Of Award: Certificate in Computer Science Education
MSc in Computing in Computer Science Education Research

Area Of Specialisation: Computer Science Education

Learning Mode Offered: Part-time, ACCS

Stage: Award

Semester: 3

Date Effective: September 2019

Semester	Title of examination subject	Subject status	ECTS Credits		Total Hours Effort				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
3	Teaching and Learning for Computer Science	M	9	10	26	13	211	250	100	-	-	-	100

Total ECTS credits required for stage: 10

Special Regulations: None

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

Name Of Provider: Letterkenny Institute of Technology

Title Of Award: MSc in Computing in Computer Science Education Research

Area Of Specialisation: Computer Science Education Research

Learning Mode Offered: Part-time, ACCS

Stage: Award

Semester: 4

Date Effective: September 2019

Semester	Title of examination subject	Subject status	ECTS credits		Contact hours (per week over 24 weeks)				Allocation of marks				
			Level	Number	L/T	P	Independent Learning	Total	CA	Project	Practical	Final	Max
4 to 6	Dissertation	M	9	60		1	49	50		100	-		100

Total ECTS credits required for stage: 60

Special Regulations:

Students must complete 30 credits worth of modules from semesters 1 to 3.

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



Programme Evaluation Report Approved by:

Terry Twomey

Terry Twomey

Chairman to Panel

(VP, Academic Affairs and Registrar, Limerick Institute of Technology)

Date 20/5/2019

Billy Bennett

Billy Bennett

(VP for Academic Affairs and Registrar, Letterkenny IT)

Date 20/5/19