

Ollscoil
Teicneolaíochta
an Atlantaigh

Atlantic
Technological
University

Special purpose award Certificate in the Sustainable Development goals; Partnership, People, Planet and Prosperity.

Presented by
Dr John Scahill
Dept Building and Civil Engineering

Mayo Campus
Atlantic Technological University

EDUCATION WITH SUSTAINABILITY
ATU SLIGO 15th to 17th AUGUST 2022

SUSTAINABLE DEVELOPMENT GOALS



The “Sustainable Development Goals” and “Micro-credentials”, hand in glove????

Certificate in the Sustainable Development Goals

Human Capital Initiative funded

Higher Ed 4.0 Project

Project partners the Connaught Ulster Alliance (CUA)

GMIT

ItSligo

LyIT

Now the Atlantic Technological University



Certificate in the Sustainable Development Goals

Original aim

To develop a suite of micro-credential “programmes” on the UN SDGs that could be delivered as stand-alone units.

Initial ideas based around micro-credentials and included incorporating on-line “pre assessments” tests to determine the students existing knowledge base to help design specific requirements.

Originally considered micro-credentials at 1,2,3 and 4 credits



Certificate in the Sustainable Development Goals

Final product.

An accredited programme that can be undertaken by existing students across the ATU (or the wider community) from **any discipline area** that can be completed **in addition to their primary qualification.**

Self paced learning

Delivery is blended but substantially on-line with lecturer moderatorship over blogs and input into and feedback on major assessment project.



Certificate in the Sustainable Development Goals

Final format of programme

20 ECTS Credits at Level 6

4 x 5 Credit modules (micro-credentials)
Partnership, People, Planet, Prosperity

Emphasis on inter and cross disciplinarity

Designed around the principles of UDL

Regional Application of the SDGs



Certificate in the Sustainable Development Goals

The Team

Multi-disciplinary team from Galway, Mayo and Sligo

Dr Trevor Clohessy (School of Business, business analytics, Blockchain, digital transformation and sustainability), micro-credentials and digital badges

Dr Carmel Heaney (School of Nursing, Public Health, Epidemiology, SDG implementation in healthcare service design and provision)

Dr Katie O Dwyer (School of marine Science, Ecology, sustainability and civic engagement, ocean science, Universal Design for Learning (UDL), micro-credentials.

Dr John Scahill (School of Building and Civil Engineering, mechanical/electrical and environmental engineering, sustainable construction and sustainability in higher education (SHE))



Certificate in the Sustainable Development Goals

The Team

Dr Mark Kelly (Head of Centre for Sustainability, Education for Sustainable Development (ESD) construction management, waste and resource management , circular economy)

Dr Mark Garavan (Dept of Environmental Humanities and Social Sciences) Social Care, sociology environmental activism, sustainability, sustainability economics (FEASTA))

Dr Deirdre Garvey (Head Dept Environmental Humanities and Social Sciences) Critical Thinking, strategic planning, Business sustainability management)

Mr Declan Feeney (Dept of Environmental Science (ATU Sligo) ecological and habitat management, energy management, sustainable development

Mr Kevin O Callaghan (Dept of Environmental Humanities and Social Sciences) Outdoor education, geology, education for sustainability and sustainability pedagogies.



Certificate in the Sustainable Development Goals

The Journey

Numerous programme development meetings over a period of six months

Horizon scanning, national international

Individual 1 credit modules.....

Consistent assessments

Instructional design input

Re-usable learning objects, Universal Design for Learning



PROGRAMME AIM

To provide an introduction to the theory and application of the United Nations Sustainable Development Goals (SDG) with a particular focus on regional impact.



PROGRAMME FORMAT

Each module is of an identical format and presentation, only the subject specific content changes.

Each module is designed to be delivered as 5 individual “units” which could be delivered independently.

Assessment format is identical in each



x1 5 Credits @L6


PARTNERSHIPS FOR THE GOALS

Mandatory Module



Complete all 3 Elective Modules

x3 5 Credits @L6

PEOPLE	PLANET	PROSPERITY
1 NO POVERTY 	6 CLEAN WATER AND SANITATION 	7 AFFORDABLE AND CLEAN ENERGY 
2 ZERO HUNGER 	12 RESponsible Consumption and Production 	8 DECENT WORK AND ECONOMIC GROWTH 
3 BETTER HEALTH AND WELL-BEING 	13 CLIMATE ACTION 	9 INDUSTRIAL INNOVATION AND INFRASTRUCTURE 
4 QUALITY EDUCATION 	14 LIFE BELOW WATER 	10 REDUCED INEQUALITIES 
5 GENEQUALITY 	15 Life on Land 	11 Sustainable Cities and Communities 

20 Credits SPA @L6



x1 5-Credits @L6









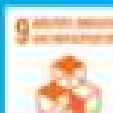






PARTNERSHIPS FOR THE GOALS

Mandatory Module



Choose one prerequisite Elective Module

x1 5-Credits @L6

PEOPLE	PLANET	PROSPERITY
		
		
		
		
		

10 Credits SPA @L6

PROGRAMME FORMAT

Students can undertake one or more modules in addition to their primary qualification.

Must complete the partnership module first.

Can then complete one or all of the other three modules.

Four certificates are available

Partnership, People, Planet and Prosperity (20 credits SPA)

Partnership and People or Planet or Prosperity (3 x 10 credits SPAs)

Digital badges are also available



PROGRAMME FORMAT

Module material presented on moodle

Presented in 5 Units

Each unit is self contained

Signposting is essential

Detailed information on how to complete the assessments is provided including samples

Student work to form repository or database (subject to permissions and approvals)



PROGRAMME FORMAT

Assessment

Assessment format is identical in each module

5 x short MCQ type quizzes (UDL, questions banks, repeats allowed)

1 x reflective piece advocating for the theme (advice and feedback provided on one draft submission)

Digital badge awarded on successful completion of the MCQ assessments for each “unit”



PROGRAMME FORMAT

Can be registered on a module for one year, after that they must re-register.

Currently aim is to provide the programme free to all students

Programme development funded through Higher Ed 4 and delivery funded through AP funding.



PROGRAMME CONTENT: Partnership

1. Introduction to sustainability frameworks
2. Introduction to the Sustainable Development Goals
3. The SDGs in context
4. SDG 16 Peace, Justice and strong institutions
5. SDG 17 Partnerships for the Goals



PROGRAMME CONTENT: People

1. SDG 1 No Poverty
2. SDG 2 Zero Hunger
3. SDG 3 Good Health and Well being
4. SDG 4 Quality Education
5. SDG 5 Gender Equality



PROGRAMME CONTENT: Planet

1. SDG 6 Clean Water
2. SDG 12 Responsible Cons. and production
3. SDG 13 Climate Action
4. SDG 14 Life below water
5. SDG 15 Life on Land



PROGRAMME CONTENT: Prosperity

1. SDG 7 Affordable and clean energy
2. SDG 8 Decent work and economic growth
3. SDG 9 Industry Innovation and Infrastructure
4. SDG 10 Reduced Inequality
5. SDG 11 Sustainable Cities and communities



PEDAGOGY

The programme is also aimed at providing lecturers from any discipline with a bespoke SDG resource that is focussed on the regional application of the SDGs



RESEARCH

The programme is also aimed at informing a longitudinal study on engagement with the SDGs.





ROLL OUT

AIM TO ROLL THE PROGRAMME OUT
ACROSS THE ATU FROM SEPTEMBER
2022

PARTNERSHIP MODULE AVAILABLE UNTIL
DECEMBER AND THEN ALL OTHER
MODULES WILL BE AVAILABLE AFTER
THAT





Ollscoil
Teicneolaíochta
an Atlantaigh

Atlantic
Technological
University