Module Descriptor

Title	Applied Urban and Environmental Economics		
Session	2025/26	**Status**	Published
Code	ENGG10094	**SCQF Level**	10
Credit Points	20	**ECTS (European Credit Transfer Scheme)**	10
School	**Computing, Engineering and Physical Sciences**		
Module Co-ordinator	TBC		

Summary of Module

This module explores key economic concepts and theories in relation to urban and environmental contexts, with a focus on applying these principles to contemporary planning practice. Students will examine how economic tools and frameworks are used to address issues such as land use, urban growth, transport, housing, and environmental sustainability. The module equips students with the knowledge to analyse the economic dimensions of urban development and environmental policy, linking economic theory with planning practice.

The Graduate Attributes relevant to this module are:

Academic: Analytical, Problem-solver, Knowledgeable, Digitally literate

Personal: Culturally aware, Motivated, Resilient

Professional: Collaborative, Socially responsible, Enterprising

Module Delivery Method	**On-Campus[1]**	**Hybrid[2]**	**Online[3]**	**Work -Based Learning[4]**
	☒	☐	☐	☐

Campuses for Module Delivery	☐ Ayr ☐ Dumfries	☐ Lanarkshire ☐ London ☒ Paisley	☐ Online / Distance Learning ☐ Other (specify)

[1] Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

[2] The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

[3] Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

[4] Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Terms for Module Delivery	Term 1	☒	Term 2	☐	Term 3	☐
Long-thin Delivery over more than one Term	Term 1 – Term 2	☐	Term 2 – Term 3	☐	Term 3 – Term 1	☐

Learning Outcomes	
L1	Demonstrate a critical understanding of urban and environmental economics, and its relevance to planning.
L2	Apply economic tools to analyse issues in urban growth, housing, transport, and environmental policy.
L3	Evaluate economic policies and their impact on urban development and sustainability.
L4	Use economic analysis to inform decision-making in planning and environmental management.
L5	Communicate complex economic concepts effectively to stakeholders involved in urban and environmental planning.

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	**During completion of this module, there will be an opportunity to achieve core skills in:**
Knowledge and Understanding (K and U)	**SCQF 10** • Advanced knowledge of urban and environmental economic theory. • Understanding of economic tools for policy and planning.
Practice: Applied Knowledge and Understanding	**SCQF 10** • Apply economic analysis to urban and environmental challenges. • Use of economic models to inform planning decisions.
Generic Cognitive skills	**SCQF 10** • Problem-solving using economic frameworks in planning contexts. • Critical evaluation of economic policies and their impact.
Communication, ICT and Numeracy Skills	**SCQF 10** • Present complex economic ideas to planning professionals and stakeholders. • Use numerical data for economic analysis in planning projects.
Autonomy, Accountability and Working with Others	**SCQF 10** • Work effectively in teams to analyse case studies. • Develop independent research skills in economic analysis.

Prerequisites	**Module Code**	**Module Title**
	Other	
Co-requisites	**Module Code**	**Module Title**

Learning and Teaching

In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.

The module will be delivered through a combination of lectures, which will develop the theoretical underpinning for the module content, and workshops, which will enable to apply theoretical concepts and frameworks to understand planning practice. In the workshop activities, students will be introduced a real-world problem where they will assess, analyse and present impact of economic policies on planning outcomes.

Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	27
Laboratory / Practical Demonstration / Workshop	09
Independent Study	164
n/a	
n/a	
n/a	
TOTAL	200

Indicative Resources

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Fainstein, S.S. and Defilippis, J., (2016) Readings in Planning Theory (4th Edition), Wiley Blackwell

Olesen, K., 2018. Teaching planning theory as planner roles in urban planning education. Higher Education Pedagogies, 3(1), pp.302-318.

O'Sullivan, A., 2018 Urban Economics (9th Edition), McGraw Hill

(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

The School of Computing, Engineering and Physical Sciences considers attendance and engagement to mean a commitment to attending, and engaging in, timetabled sessions. You will scan your attendance via the scanners each time you are on-campus and you will login to the VLE several times per week. Where you are unable to attend a timetabled learning session due to illness or other circumstance, you should notify the Programme Leader that you cannot attend. Across the School an 80% attendance threshold is set. If you fall below

this, you will be referred to the Student Success Team to see how we can best support your studies.

Equality and Diversity
The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code. Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on inclusive learning and teaching practice. This module has lab-based teaching and as such you are advised to speak to the Module Co-ordinator to ensure that specialist assistive equipment, support provision and adjustment to assessment practice can be put in place, in accordance with the University's policies and regulations.
(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	**Engineering Physical Sciences**
Overall Assessment Results	☐ **Pass / Fail** ☒ **Graded**
Module Eligible for Compensation	☐ **Yes** ☒ **No** **If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.**
School Assessment Board	Engineering
Moderator	
External Examiner	TBC
Accreditation Details	None
Module Appears in CPD catalogue	☐ **Yes** ☒ **No**
Changes / Version Number	

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
An economic analysis report (50%).
Assessment 2
A case study presentation (50%).
Assessment 3
n/a
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Economic analysis report	☐	☒	☒	☐	☒	50	0

Component 2							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Case study presentation	☒	☐	☐	☒	☒	50	2

Component 3							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
n/a	☐	☐	☐	☐	☐		
Combined total for all components						100%	2 hours

Change Control

What	When	Who