Programme Specification

Architectural Technology and Design {Foundation} [GCET]

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Section 1: Key Programme Details

Part A: Programme Information

Programme title: Architectural Technology and Design {Foundation} [GCET]

Highest award: DipHE Architectural Technology and Design

Interim award: CertHE Architectural Technology and Design

Awarding institution: UWE

Affiliated institutions: Global College of Engineering and Technology (GCET)

Teaching institutions: Global College of Engineering and Technology (GCET)

Study abroad: No

Year abroad: No

Sandwich year: No

Credit recognition: No

School responsible for the programme: CATE School of Architecture and Environment, College of Arts, Technology and Environment

Professional, statutory or regulatory bodies: Not applicable

Modes of delivery: Full-time

Entry requirements:

For implementation from: 01 October 2024

Programme code: K13D00

Section 2: Programme Overview, Aims and Learning Outcomes

Part A: Programme Overview, Aims and Learning Outcomes

Overview: The programme is designed to produce technical students who will be able to analyse and evaluate design factors thus enabling them to produce design solutions that will satisfy performance, production and procurement criteria for the construction industry.

At the end of the period of study the architectural technologist can expect to find employment within design consultancy organisations, contractors, or product manufacturers.

Features of the programme: The Faculty of Environment and Technology has a strong commitment to interdisciplinary professional education, as is evident in the design of all its undergraduate programmes.

The programme aims to educate practitioners who are equipped for careers in architecture and other associated specialisms within the built environment who possess a unique appreciation of buildings and their performance from initial design through to construction.

The programme has a strong emphasis on design. This is taught in a design studio environment where students are required to fulfill a complex brief taking their schemes through from concept to detail design. With a focus on the science of building, material specification and construction detail, the programme allows the students to understand their role in the world of construction and building, equipping them with the necessary skills to converse with all practitioners who shape the modern built environment.

Educational Aims: The programme aims:

To instil in each student an understanding and enthusiasm for Architectural Technology and Design;

To provide an intellectually stimulating environment for learning and understanding;

To integrate the conceptual understanding of technology and design realisation;

To reflect upon, evaluate and discuss aspects of technological design;

To identify and encourage the essential features of good integrated design and practice (including the use of computers in the design, production and management processes), through observed current good practice and historical precedents and practice.

To use knowledge of scientific principles and materials properties to develop and design productive solutions to technological problems within defined constraints;

To consider the 'buildability', sustainability and performance of building design solutions within legal, ecological, economic and technological constraints;

To provide an environment for personal and skills development, the development of teamworking skills for the construction industry and multidisciplinary ethos;

To develop each student's analytical and creative skills and encourage the development of mature and independent judgement;

Programme Learning Outcomes:

On successful completion of this programme graduates will achieve the following learning outcomes.

Programme Learning Outcomes

PO1. Professional Practice: Demonstrate the knowledge, skills and behaviours associated with the latest in professional practice in the field of architectural technology as defined by recognised industry bodies; and demonstrate an ability to work independently as problem solvers in a professional context.

PO2. Collaborative Practice: Discuss the alternative points of view that the typical stakeholders may have in the process of developing buildings; and conduct a simulated group-work exercise focusing on the communication skills.

PO3. Ethics: Identify and describe examples of unethical behaviours in the process of developing buildings; and demonstrate an ability to complete a design project within a policy framework defined by the latest code of ethics considerations for equality, diversity, and inclusion.

PO4. Economic: Demonstrate a knowledge of management and procurement aspects of building development; and put into practice economic skills associated with tendering and administrating construction contracts.

PO5. Technical: Demonstrate a robust knowledge of the techniques and technologies associated with building design; and put into practice technical design skills relating to materials, structures and environments for case study sites.

PO6. Legal: Demonstrate a robust knowledge of how government health and safety regulations impact the process of building design; and put into practice design techniques associated with fire and life safety considerations in complex buildings.

PO7. Sustainability: Demonstrate an awareness of the environmental context of architectural technology and how it is influenced by the political, economic, social and technological aspects as part of the wider sustainability agenda; and compare and contrast different architectural designs for a given client's brief in terms of sustainable performance indicators.

PO8. Digital: Demonstrate an ability to work with numeric measurement techniques required to represent real world buildings in a digital environment; and put in practice the digital skills required to undertake a wide range of computer aided design tasks using industry standard software.

Assessment strategy: The programme will be assessed using the current version of the University's Academic Regulations and Procedures.

Testing of the knowledge base is through assessed design studios, coursework, through oral presentations, through experimental work undertaken in a laboratory or real-life situation and through tasks undertaken under examination conditions.

A variety of assessment methods are employed to test intellectual skills. Assessment of the ability to apply and evaluate research findings and to bring make judgements based on a wide range of inputs will be though assessment of the student's design portfolio and their response under 'viva' conditions. Intellectual skills will be also be assessed through summative assessment in other subjects, for example,

coursework, 'traditional' examination procedures, and also through computer-based assessments.

The assessment of the structure, construction, environmental and materials performance in building design is undertaken through laboratory experimental reports, essays and 'unseen' written examinations.

Other practical skills are assessed through coursework, studio reviews and viva presentations. The other skills are assessed through essays, examinations under controlled conditions, field exercises and oral presentations.

A variety of methods are employed to assess transferable skills. Assessment of communication skills is undertaken through essay writing, architectural reviews, presentations through oral presentations, experimental procedures and computer based learning through laboratory exercises and design work and analysis using a range of software. Team working is also assessed through the inter-professional modules and the ability to work independently is assessed through the design projects.

Student support:

Part B: Programme Structure

Year 1

The student must take 120 credits from the modules in Year 1.

Year 1 Compulsory Modules

The student must take 120 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UBGMNR-15-0	Challenges, Data and Solutions 2023-24	15
UBGMPR-30-0	Environment and Sustainability 2023-24	30

UBLMWM-15-0	Foundation Engineering 2023-24	15
UBLMPA-30-0	Foundation Year Project 2023-24	30
UFCFGK-30-0	Professional and Academic Skills 2023-24	30

Year 2
The student must take 120 credits from the modules in Year 2.

Year 2 Compulsory Modules
The student must take 120 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UBLFX7-30-1	Investigating Structures 2024-25	30
UBLLYC-60-1	Design Studio 1 2024-25	60
UBLMSS-30-1	Environmental Physics and Materials 2024-25	30

Year 3
The student must take 120 credits from the modules in Year 3.

Year 3 Compulsory Modules
The student must take 120 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UBLMUS-30-2	Commercial Development 2025-26	30
UBLMTV-15-2	Design Representation 2025-26	15
UBLMD1-15-2	Histories and Theories of Architecture 2025-26	15
UBLMRT-30-2	Procurement and Contract Practice 2025-26	30
UBLMGG-30-2	Technology and Design Studio 2 2025-26	30

Part C: Higher Education Achievement Record (HEAR) Synopsis

Part D: External Reference Points and Benchmarks

Description of how the following reference points and benchmarks have been used in the design of the programme:

The curriculum, learning methods, aims and learning outcomes of this award respond to the guidelines and requirements of the EU, the Chartered Institute of Architectural Technologists (CIAT) and the QAA benchmark statement for Architectural Technology.

QAA publications subject benchmark statements:

QAA Architecture Technology benchmark statement; ISBN 978 1 84482 655 1

We also have looked at:
UWE Employability Strategy
QAA code of practice: section 8 Career Education, information, advice and guidance
UWE Widening Participation Strategy
UWE Sustainability Strategy
UWE Teaching and Learning Strategy

Part E: Regulations

Approved to University Regulations and Procedures.

It is the Award Board's responsibility to determine whether the student's attainment at level 0 is sufficient to progress to level 1.