

Module Title:	Evolution of Buildings & Technology I
Language of Instruction:	English
Credits:	5
NFQ Level:	6
Module Delivered In	No Programmes
Teaching & Learning Strategies:	Lectures Projects Private study
Module Aim:	The aims are: 1. To introduce the language of architecture; begin with a working vocabulary. 2. To research the concept of shelter and early forms of architecture. 3. To examine early societies and their particular architecture/building-types beginning with Egypt, and following with Greece and the Roman Empire. 4. To investigate how structures and buildings can reflect their geographical location, the readily available materials, and the climate of the region. 5. To explore other factors that may influence structure and building-type e.g. religion, and societal structure

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	be able to record building development from the early shelters for simple gods to carved temples that accommodate mystical rituals, and where the timber origins are still evident.
LO2	be able to identify (i) the components that are critical to the building types within each style of architecture (ii) the function of a building from its form
LO3	recognise the important part materials play in the development of structures and the aesthetic of buildings.
LO4	have an awareness of the theory of proportion.
LO5	To explore other factors such as culture, custom, religious practice, and societal structure that may influence structure and building design.

Pre-requisite learning
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>
No recommendations listed
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>
No requirements listed

Module Content & Assessment

Indicative Content

The primitive hut & early shelters

• An exploration of ideas that are expressed in art and architecture in primitive and archaic cultures. • Symbolic references which run through all races, societies, and countries. • Investigation of architectural principles which builders all over the world could follow in order to achieve harmony between nature and culture. • Understanding materiality, the development of architectural forms and construction techniques and their influence on society.

Ancient Egypt

• The geographical location of Egypt and its affect on the evolution of Egyptian architecture; the role religion played • The Nile and its importance; the seasons: cultivation and construction • Available building materials and their affect on structural development • The building types: Mastabas; pyramids; rock-hewn tombs; temples

Greece

• The Minoan and the Greek civilisations • Hellenic architecture and the classical temple; the orders and proportion. • Hellenistic architecture outside Greece • The building types: Temples; theatres; the agora. Building services

Roman Empire

• Etruscan and Roman technology; skills and materials • The geographical spread of the Empire and resulting influences • Innovation and new structures e.g the arch, vault and dome. • Concrete technology (the discovery of pozzolana) and its use in the construction of vast buildings and engineering structures. • Building types Temple; basilica; forum; palace; ostia; theatre; thermae; amphitheatre; circus; aqueducts; viaducts. Services within the thermae and other buildings.

Assessment Breakdown	%
Project	40.00%
End of Module Formal Examination	60.00%

No Continuous Assessment

Project

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Term 1.1 Essay. An investigation into early civilisation and early forms of shelter/ architecture. Consider the materiality and construction techniques.	1,2,3,5	10.00	Week 5
Project	Term 1.2. Essay on the architecture of Egypt. The influence of religion, customs and technology.	1,2,3,4,5	10.00	Sem 1 End
Project	Term 2.1. Essay on the architecture of ancient Greece. The influence of religion, customs and technology on the development of society and architecture.	1,2,3,4,5	10.00	Week 25
Project	Term 2.2. Essay on the architecture of the Roman empire. The influence of religion, customs and technology on the development of society and architecture.	1,2,3,4,5	10.00	Sem 2 End

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Final Exam. The examination will be formed by a series of questions based on the learning outcomes 1,2,3 & 4.	1,2,3,4,5	60.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	30 Weeks per Stage	2.00
Estimated Learner Hours	30 Weeks per Stage	3.00
Total Hours		150.00

