



Unit Information Form (UIF)

(The UIF provides the definitive record of the designated Unit)

SECTION A

General Unit Information

Unit Name	Architectural Design and Practice
Unit Code	STI012-3
Level	6 FHEQ
Credit Value	15
Location(s) of Delivery	Off Campus, STI Myanmar University (Yangon and Mandalay campuses)
Period(s) of delivery	15 weeks (Semester 2)
Pre-requisites or Restrictions	
Aims and Relevance	<p>This unit provides students with the principles of architectural practice, and promotion/exhibition of architectural design within the commercial practices.</p> <p>It covers ideation, storytelling, improved problem identification, parking planning, landscape planning, finish materials study and the colour plan. The unit considers these areas in relation to sustainable development, and mitigation of risks in the design process.</p> <p>The aim of this unit is to enable students to prepare presentations of design ideation to clients, using various methods including 3D representations digital/models, folio drawings and active methods of presentation such as PowerPoint.</p>

Syllabus Content	<ol style="list-style-type: none"> 1. Architectural concept/ideation of a brief 2. Architectural analysis of a brief 3. Architectural presentation 4. Exhibition/presenting of sketch design 5. Landscape planning 6. Environmental site design 7. Bird's eye and 3D views 8. Elevations and perspectives 9. Model/Digital design 10. Real world/virtual presentations
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Learning outcomes

On completion of this unit you should be able to:

1. Demonstrate the following knowledge and understanding
 - Assess requirements for various types of architectural visual communication
2. Demonstrate the following skills and abilities
 - Produce effective built environment visualizations

PSRB outcomes

Indicate any specific Professional, Statutory or Regulatory Body (PSRB) requirements met by this unit.

UK Standard for Professional Engineering Competence (UK-SPEC): AHEP3 IEng Learning Outcomes:

SM1i, EA1i, D1i, D4i, D6, EL2, P2i

Joint Board of Moderators (JBM) Core Threads - Primary Outcomes (assessed and evidenced):

Design; Sustainability, Health and Safety Risk Management

Summary learning hours

	Scheduled	Guided	Independent	Autonomous	Placement	Total
Hours	53	27	60	10	97	150
Percentage	35.3	18.0	40.0	6.7	64.7	100.0

Approach to learning

This unit will be delivered via lectures, lab-based exercises and computer-based assessment to help students to understand concepts of architecture design and practice. The following specific elements are included:

- Formal lectures which introduce the concepts of storytelling, improved problem identification, parking planning, landscape planning, finish materials study and the colour plan.
- Lab-based practical sessions which give students opportunities to develop practical skills in design and analysis of architectural design.
- Students' self-directed study

Learner development

This Unit particularly focuses on the development of your abilities in the following areas:

Learner Development	
This Unit focuses on the development of your abilities in the following areas:	
Enquiry	The curriculum for this unit is informed by current architectural practice. You will develop enquiry skills by looking at different types of architectural practices and processes, modes of communication and visualization.
Contextual understanding	You will consider some wider contexts of the study of architectural design. You will examine various means of presenting graphical and visual information.
Collaboration	You will work independently and in groups to arrive at the required solution to the case stud/y/ies.
Enterprise	You will present your design from inception to architectural exhibition standard, preparing you for the professional workplace.

Assessment Summary

No	Assessment Method Code ¹	Learning outcome(s)	Weight %	Submission week	Length (of exam)	Exemption from Simplified Marking Scheme approved ²
1	PJ-Art	1 & 2	60	8 and 12		
2	Ex	1 & 2	40	15		

Assessment details

Assessment 1. Demonstrate a comprehensive understanding of a commercial building design, completing sketch development stage, ready for detail design and further construction detail/structural/technical drawing set. A developed portfolio that describes the critical thinking about site and environmental analysis, architectural aesthetic and theories, functionally suitable with chosen thesis topic and sustainable design concepts. Project report

¹ See the UIF Guide for permissible codes

² Exemptions can only be granted by TQSC. The types of assessment task that can request an exemption are detailed in Chapter 8 of the Quality Handbook

(portfolio) should address the following: Client brief ideation, , site plan and location plan, plans, elevations, sections, perspective and block model ready for presentation to client.

Assessment 2. A 2-hr invigilated exam which looks at traditional architectural design principles, presentation and visualisation of landscaping with environmental considerations.

A competitive presentation to the panel selling the design idea, with strict time constraint of 15/20 minutes, allowing for 5 minutes of Q and A, the panel makes the decision on the winner 1st place, with 2, 3 places and subsequent marks.

Threshold expectations

In order to pass the assessment (1), you will need to:

- Design of a commercial building, identifying any client brief constraints including environmental and sustainability limitations; ethical, health, safety, security and risk issues; intellectual property; codes of practice and standards. (contributing to D2i)
- Use the results of site and environmental analyses to solve architectural and engineering problems and to recommend appropriate action. (contributing to SM3i, EA1i))
- Understand relevant architectural and aesthetic theories, and the commercial, economic and social context surrounding them (contributing to EL2)
- Communicate design solutions for technical audiences using a mixture of media, including site and location plans, elevations, sections, perspective and block models. (contributing to D6)

In order to pass Assessment (2) you will need to:

- Assess traditional architectural design principles which underpin current construction technologies (contributing to SM1i)
- Apply problem-solving skills, technical knowledge and understanding to create or adapt architectural design solutions that are fit for purpose including operation, maintenance, reliability etc.(contributing to D4i)
- Define architectural design problems, identifying any constraints including environmental and sustainability limitations; ethical, health, safety, security and risk issues; intellectual property; codes of practice and standards. (contributing to D2i)
- Use relevant processes to present effective built environment visualizations (contributing to P2i)

SECTION B

Recommended Reading

Core text—this unit is supported by the following core text:

- Szalapaj, P. (2005). *Contemporary Architecture and the Digital Design Process*. Oxford, UK: Routledge ISBN-10: 0750657162

Guided reading – the following is expected reading for this unit. Details of what to read and when will be provided in the BREO site or on LMS.

- DeKay, M. & Brown, G.Z., (2014). *Sun, Wind & Light: Architectural Design Strategies*. 3rd ed. Hoboken, NJ: John Wiley & Sons Inc.
- Russ T. (2009). *Site Planning & Design Handbook*, 2nd ed. New York, NY: McGraw-Hill.
- Sassi, P. (2006) *Strategies for Sustainable Architecture*. New York, NY: Taylor & Francis. ISBN10: 0-203-48010-4
- Starke, B., & Simonds, J.O. (2013). *Landscape Architecture, Fifth Edition: A Manual of Environmental Planning and Design*. 5th ed. New York, NY: McGraw-Hill Education. ISBN-10: 007179765; 0071605584

Independent study – to receive high grades you will need to demonstrate your wider reading. The following resources provide useful background reading for the material in this unit. This is not an exhaustive list and students should read widely from the variety of journals available in the Learning Resources Centre

Articles from Journals and Proceedings

- https://www.researchgate.net/journal/1554-2769_Architectural_Design
- <https://www.jstage.jst.go.jp/browse/aija/>
- <http://recentscience.org/ijad-international-journal-of-architecture-and-design/>
- <http://www.id-press.eu/seejad>
- <https://academic.oup.com/journals/>

Other Useful Links

- <http://www.aia.org/conferences/>
- <http://www.sfbtr8.spatial-cognition.de/cosy/Events/SCAD-11/>
- http://study.com/articles/Commercial_Architect_Job_Description_Duties_and_Requirements.html
- <https://www.architecturetoday.co.uk/>

Equality Impact Assessment

Question	Y/N/NA	Additional anticipatory adjustments/actions if necessary
Learning materials will be made available in advance of sessions for students to adapt as appropriate?	Y	As new materials are developed, they may be the only ones that may not appear earlier than the session or the materials developed during the sessions, like sun charts, etc.
The approach to teaching and learning is sufficiently flexible to enable all students to succeed?	Y	
The approach to group work takes account of the needs of students with disabilities and from diverse backgrounds?	Y	
The approach to practical work takes account of the needs of students with disabilities?	Y	
Students with a protected characteristic ³ have an equal opportunity to achieve the learning outcomes?	Y	
The assessment tasks provide all students with an equal opportunity to succeed?	Y	
Any other aspects of the unit that might pose potential challenges from an equality or diversity perspective have been considered?	NA	

³ Age, Gender reassignment, Marriage and civil partnership, Pregnancy and maternity, Race, Religion and belief, Sex, Sexual orientation

SECTION C

Administrative Information – Faculty completion	
Faculty	
Portfolio	
School/Department	
Unit Co-ordinator	Daw Hnin Su Mon Win
Version Number	1/2020
Approved by	
Date of approval (dd/mm/yyyy)	

Shared Units – Indicate below all courses which include this Unit in their diet
BEng Hons Architectural engineering

	Name	Date
Form completed by	U Zaw Ko Ko, D Jazani	May 2020
Signature of Chair of Faculty TQSC to confirm the accuracy of information presented		

Unit Updates – ensure that the revised UIF is given a new version number each time a change is made		
Date	Nature of Update	FTQSC Minute Ref:

Administrative Information – Academic Registry completion	
JACS / HECOS code (KIS)	