

AIN SHAMS UNIVERSITY – FACULTY OF ENGINEERING (ASU – FoE)

# IN COLLABORATION WITH



SCHOOL OF ARCHITECTURE, COMPUTING AND ENGINEERING

# BSc (Hons) in Environmental Architecture & Urbanism

**Programme Handbook** 

Academic Year 2018-2019

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# 1 WELCOME AND INTRODUCTION

Ain Shams University – Faculty of Engineering is aiming to be one of the best colleges known for their leadership regionally and internationally in engineering education and scientific research through interdisciplinary and unique academic programmes that meet the needs of the community and contribute to sustainable development. It aims for preparation of distinguished graduates capable of keeping pace with global technological in various disciplines that meet the needs of local and regional markets, and can conduct scientific research. This is applied through the creation of appropriate conditions for faculty members and their assistants and students, and through providing educational programmes in advanced undergraduate studies, as well as establishing advisory centres and research labs which include sophisticated contribute to community service and to meet its needs.

Credit Hours Engineering Programmes at the Faculty of Engineering - Ain Shams University (ASU-CHEP) is one of the outstanding models for engineering education in Arab Republic of Egypt, as it seeks to provide high-quality of engineering education based on interdisciplinary programmes and the application of international standards of credit hours systems followed in the most prestigious universities in the world. Learning environment at ASU-CHEP focused on the graduation engineers equipped with skills, knowledge, and the ability to life-long learning. ASU-CHEP began at the Faculty of Engineering - Ain Shams University in 2006 with two programmes namely Building Engineering and Materials Engineering with a number of students that does not exceed 60 students.

Lately there were eight programmes (Building Engineering, Communication Systems Engineering, Materials Engineering, Manufacturing Engineering, Energy and Renewable Energy Engineering, Computer Engineering and Software Systems, Landscape Architecture, Mechatronics Engineering and Automation), and finally two more programmes were added, Energy & Renewable Energy Engineering Programme, and Environmental Architecture & Urbanism Programme. Thus, currently the total number of students in ASU-CHEP exceeds 2500 students that work side by side with mainstream programmes. ASU-CHEP is characterised by adopting new models in learning, which are different from the traditional system in Egyptian Engineering colleges. Moreover, the curriculum adopted in ASU-CHEP are inspired by the vision of experts and specialists in these fields. The programmes in ASU-CHEP follow mainly the National Authority for Quality Assurance and Accreditation of Education.

The Environmental Architecture and Urbanism Programme was launched in 2016, and was aiming to shift the focus towards sustainability in education and increase participate in qualifying graduates for the challenges of global warming and scarcity of resources.

# 2 INTRODUCTION TO THE PROGRAMME

# 2.1 Programme duration and modes of study

The **Environmental Architecture & Urbanism** programme is a 4-year full-time degree programme which includes a foundation year and three (3) years for the specialised courses.

In their senior year, students choose between two tracks of specialisation, either **Environmental Architecture** pathway or **Environmental Urbanism** pathway. They study the specific specialisation courses corresponding to the chosen pathway, and there are offered wide range of technical electives that students can chose from according to their field of interest, and their ambition in their future career. The programme awards a Bachelor Degree in the field of study.

The minimum allowed study duration is four years. The maximum allowed study duration is five (5) years, which does not include frozen semesters for reasons acceptable by the faculty, after which the student is expelled from the programmes.

# 2.2 **Programme aims and objectives**

The main goal of the programme is to prepare architects and urban planners specialised in environmental design. Graduates are capable of understanding the relationship between humans and buildings and between buildings and their environment. They are capable of integrating all the aspects dealing with the built environment and how it is planned, designed, used, furnished, landscaped, managed, and valued by the society in their creative thinking while dealing with complex architectural and urban environment problems. The programme introduces students to building science and enables them to conceive the basic concepts of sustainable architecture and urbanism. They are trained to balance functional and ecological demands when developing policies or designs for new construction. Graduate will be able to deal with modern techniques and tools for learning and linking theory and practice.

# 2.3 Programme Intended learning outcomes (ILO's)

The graduates of the Environmental Architecture & Urbanism Programme should be able to demonstrate:

# Knowledge

- Knowledge and understanding of essential facts, concepts, principles and theories relating to Architectural Design Technology.
- The role of and contribution made by different stakeholders within the construction industry.

The linkages and interdisciplinary relationships between professionals working and operating in the built and natural environments.

- The ability to apply such knowledge and understanding to the solution of qualitative and quantitative problems of a familiar and unfamiliar nature.
- The knowledge and ability to recognise and implement good practice.
- Describe the key concepts, theories and principles used in construction industry.
- These will include measurement; physical and financial appraisal of buildings; legal

principles; applied economics; design factors affecting construction and buildability; the performance of buildings; resource management; document and data handling, and the application of business management theories.

# Thinking skills

- Skills in the analysis, synthesis and evaluation of technological information and data, and the ability to develop and design creative and innovative solutions.
- The ability to make informed judgements based on evidence, and being able to question current theories and practice.
- The ability to recognise and analyse problems and plan novel strategies for their solution.
- Evaluate and plan construction activities and undertake the process used to manage and control them.
- Appreciate professional ethics, their impact on the operation of the professions and their influence on the society; conflict avoidance/dispute resolution; communities and the stakeholders with whom they have contact.

# **Subject-Based Practical skills**

- The ability to use information technology (IT) independently to support previously identified cognitive abilities and skills.
- The skills in presenting architectural technology information and arguments clearly and correctly, in writing, drawing, and verbally, to a range of audiences.
- The ability to produce quality architectural presentations through various media, including paper/computer aided design drawings and sketches, schedules, calculations, photography, electronic visualisations, and models.
- Demonstrate the ability to work effectively with others within the context of a multidisciplinary team; respecting inputs from fellow professionals, client(s), and other stakeholders and reflecting on one's own performance and role within the team.

# Skills for life and work (general skills)

- Develop a strategy for using the relevant key skill over an extended period of time, and plan how this will be achieved.
- Monitor progress, critically reflect on their performance in using the relevant skill, and adapt their strategy, as necessary, to achieve the quality of outcomes required.
- Evaluate their overall strategy and present the outcomes from their work, including ways of further improving their skills.
- Locate, extract and analyse data from multiple sources, including drawn information.
- Present quantitative and qualitative information, together with analysis, argument and commentary, in a form appropriate to the intended audience, including appropriate acknowledgement and referencing of sources.
   Produce professional reports in accordance with published conventions and/or client expectations, including executive summaries.
- Demonstrate wider research skills to aid in the development of a cumulative element of original work.

# 2.4 Professional body accreditation

The National Academic Reference Standards (NARS) for Engineering set out generic statements which represent general expectations about standards for the Bachelor of Science (B.Sc.) degree in Engineering. These statements clarify the attributes associated with the award of engineering degrees:

- The awards are in accord with the frameworks for contemporary engineering education.
- The Engineering degrees address the national expectations of the graduate engineers.
- > The degrees satisfy the actual and expected market needs.

According to the Accreditation Board for Engineering and Technology (ABET), Engineering is the knowledge of the mathematical and natural sciences, gained by study, experience, and practice, applied with judgment to develop ways to economically utilise the materials and forces of nature for the benefit of mankind. It is the ability to initiate and conduct activities associated with engineering processes, systems, problems, opportunities, history, future impacts and ethics with minimal negative consequences. It involves knowledge, ways of thinking, action coordination and capability development. It helps preparing individuals to make well-informed choices whether they act as consumers, workers, citizens or members of the global community.

The engineering education should achieve excellence in undergraduate and graduate education, research, public service and advancement of the state-of-the art within the discipline. It aims to produce able, broadly educated, highly qualified engineers through academic excellence. Moreover, it motivates students, faculty and staff to learn, grow, achieve and serve the needs of society nationally, regionally and internationally. It also prepares students for a productive and rewarding career in engineering based on strong moral and ethical foundation.

The references for standards considered in the development of this programme were the National Academic Reference Standards (NARS) of Architecture Engineering Programme, August 2009 (as a minimum standards) prepared by the Architecture Engineering - engineering education sector of the supreme council of universities in Egypt. Available copies of the NARS (issued in August 2009).

# 2.5 Programme Structure & Content

- > The programme structure can be seen in Table 2.5
- > The expected length of study is four years
- The majority of modules are 30 credits delivered over the whole year and suit a September in take only. A few modules are 15 credits and delivered sequentially to meet specific professional learning outcomes

		may chan Co	de			Core/
Level	Year	ASU	UEL	Module title	credit	Pathway Related
3	1	EG0311	AR3101	Design Fundamentals Techniques	30	Core
3	1	EG0312	AR3102	Architecture Design Studio (1)	30	Core
3	1	EG0313	AR3103	History, Theory & Communication	30	Core
3	1	EG0314	AR3104	Building Technology and Materials (1)	30	Core
				nitecture and Urbanism pathway		
4	2	EG0421	AR4101	Issues of the Built Environment	30	Core
4	2	EG0422	AR4102	Building Technology and Materials (2)	30	Core
4	2	EG0423	AR4103	Architectural Design Studio (2)	30	Core
4	2	EG0424	AR4104	Technical Studies in Architecture (1)	30	Core
				nitecture and Urbanism pathway	. <u></u>	
5	3	EG0531	AR5103	Principles of Law & Project Evaluation	15	Core
5	3	EG0532	AR5104	Tendering, and Execution Documents	30	Core
5	3	EG0533	AR5105	Architectural Design Studio (3)	30	Core
5	3	EG0534	AR5106	Technical Studies in Architecture (2)	30	Core
5	3	EG0535	AR5107	Real Estate Management and Development	15	Core
				Architecture Pathway		
6	4	EG1641	N.A.Y.*	Architectural Design Studio (4)	30	Core
6	4	EG1642	N.A.Y.*	Architectural Design and Contextual Studies	30	Core
6	4	EG0643	N.A.Y.*	Architectural technical studies	30	Core
6	4	EG1644	N.A.Y.*	Technical Studies and Building Systems	30	Core
				Urbanism Pathway	· .	
6	4	EG2641	N.A.Y.*	Urbanism Design Studio (4)	30	Core
6	4	EG2642	N.A.Y.*	Urban technical studies	30	Core
6	4	EG2643	N.A.Y.*	Urban Design and Contextual Studies	30	Core
6	4	EG2644	N.A.Y.*	Technical Studies and Urbanism	30	Core

Table 2.5 BSc Environmental Architecture & Urbanism Programme Structure (please note the module codes may change)

<sup>\*</sup> The module's code will be updated latter according to the UEL partner Web Marks Entry (WME) system.

Module Code	Module Name	(curriculum 2013)		(curriculum 2018)	I.	Assessment Method	
		Component of Assessment	%	Component of Assessment	%		
		Arch. & U (UEL)Foundation					
EG0311 AR3101 30Credits	Design Fundamentals Techniques	ARC 136 Digital Presentation of the Built Environment-(2Credits)	30%	ARC 142 Digital Presentation of the Built Environment-(2Credits)	30%	Portfolio of students' work includes a compilation of coursework of the 3 modules: each	
		ARC 143 Control of Thermal Environment- (3Credits)	35%	ARC 261 Control of Thermal Environment- (2Credits)	30%	nodule includes samples of the following: Activities/Assignments	
		<b>UPL 121</b> Urbanism and Climate - (3Credits)	35%	ASU112 Report Writing and Communication Skills- (3Credits)	40%	2 Quizzes 1 Midterm Exam Final Exam	
EG0312 AR3102 30Credits	Architecture Design Studio (1)	ARC 115 Architectural Design Studio (1)- (3Credits)	35%	ARC111 Principles of Architecture Design Studio-(3Credits)	35%	Design portfolio, which is a compilation of students'	
		ARC 116 Shades, Shadows, and Perspective-(2Credits)	30%	ARC141 Architectural Representation - (3Credits)	30%	coursework submissions indicating projects' progress 1 Midterm Exam	
		ARC 152 Architectural Design Studio (2)- (3Credits)	35%	ARC113 Vernacular Architecture Design Studio-(3Credits)	35%	Final Exam	
EG0313 AR3103 30Credits	History, Theory & Communication	<b>UPL 111</b> History and Theory of Urbanism- (2Credits)	25%	UPL221 History and Theory of Urbanism (3Credits)	35%		
		ARC 122 History and Theory of Architecture- (2Credits)	25%	ARC133 Introduction to History and Theory of Arts and Architecture - (3Credits)	35%	Portfolio of students' work includes a compilation of	
		HUM x91 Humanities Elective (1) -(2Credits) HUM x72 Trends in Contemporary Arts OR HUM x71 Music Appreciation, OR HUM x86 Engineering History	25%	ASU Elective (2) - (2Credits) ASU335 Literature and Arts OR ASU333 Introduction to Marketing	30%	coursework of the 4 modules; each module includes samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	
		HUM x52 Communication & Presentation Skills- (2Credits)	25%	OR ASU334 Building Safety and Fire Protection			
EG0314 AR3104	Building Technology and	<b>CEP 114</b> Land Surveying-(2Credits)	20%	<b>CEP113</b> Surveying (2Credits)	25%		
30Credit	Materials (1)	CES 117 Structure Analysis- (3Credits)	25%	<b>CES115</b> Structural Analysis for Architecture Engineering- (2Credits)	25%	Portfolio of students' work includes a compilation of coursework of the 4 modules; each	
		CES 143 Building Engineering Materials- (3Credits)	25%	CES151 Structures and Properties of Construction Materials - (2Credits)	20%	module includes samples of the following: Activities/Assignments 2 Quizzes	
		ARC 132 Building Technology (1) - (3Credits)	30%	ARC151 Building (1): Conventional Construction Systems- (3Credits)	30%	1 Midterm Exam Final Exam	

The following Table shows the content of each module of the ENVR programme courses, percentage weighting and the assessment method:

Module Code	Module Name	(curriculum 2013)	(curriculum 2013) (curriculum 2018)			Assessment Method
		Component of Assessment	%	Component of Assessment	%	
		Arch. & (UEL)Level ا				
EG0421 AR4101 30Credit	Issues of the Built Environment	<b>UPL 211</b> Introduction to Urban Design-(3Credits)	40%	UPL212 Principles of Urban Design and Landscape -(3Credits)	40%	Portfolio of students' work includes a compilation of
		UPL 212 People and Environment -(3Credits)	30%	ARC241 Modelling of The Built Environment- (2Credits)	30%	coursework of the 3 modules; each module includes samples of the following:
		UPL 224 Sustainable Urban Development- (3Credits)	30%	ASU114 Selected Topics in Contemporary issues- (2Credits)	30%	Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam
EG0422 AR4102 30Credit	Building Technology and Materials <b>(2)</b>	ARC 232 Building Technology (2) - (3Credits)	40%	ARC253 Building (3): Sustainable Construction -(3Credits)	35%	Portfolio of students' work includes a compilation of coursework of the 3 modules;
		ARC 243 Renewable Energy and Buildings- (2Credits)	25%	ARC 363 Renewable Energy and Buildings- (2Credits)	30%	each module includes samples of the following: Activities/Assignments
		ARC 245 Principles of Sustainable Architecture- (3Credits)	35%	ARC 262 Principles of Sustainable Architecture -(3Credits)	35%	2 Quizzes 1 Midterm Exam Final Exam
EG0423 AR4103 30Credit	Architectural Design Studio (2)	ARC 252 Environmental Architectural Design Studio (1) -(3Credits)	35%	ARC 213 Environmental Architecture Design Studio (1) -(3Credits)	35%	Design portfolio, which is a
		ARC 253 Environmental Architectural Design Studio (2) -(3Credits)	35%	ARC 214 Environmental Architecture Design Studio (2) -(3Credits)	35%	compilation of students' coursework submissions indicating project progress 1 Midterm Exam
		<b>UPL 261</b> Ecological Landscape -(2Credits)	30%	UPL242 Sustainable Urban Landscape- (3Credits)	30%	Final Exam
EG0424 AR4104	Technical Studies in Architecture (1)	ARC 242 Acoustics in Architecture-(2Credits)	25%	ARC362 Acoustics in Architecture -(2Credits)	25%	
30Credit		ARC 244 Lighting in Architecture-(2Credits)	25%	ARC 261 Lighting in Architecture-(2Credits)	25%	Portfolio of students' work includes a compilation of
	(2Credits) CEP 241 Green	Concrete Structures-	25%	CES226 Concrete Structures for Architecture Engineering -(2Credits)	25%	coursework of the 4 modules; each module includes samples of the following: Activities/Assignments
		<b>CEP 241</b> Green Infrastructure-(2Credits)	25%	CEP251 Green Building Systems and Infrastructure-(2Credits)	25%	2 Quizzes 1 Midterm Exam Final Exam

Module Code	Module Name	(curriculum 2013)		(curriculum 2018)		Assessment Method
		Component of Assessment	%	Component of Assessment	%	
		Arch. &				
EG0531 AR5103 15Credit	Principles of Law and Project Evaluation	(UEL) Level ARC 4xx/ UPL 4xx Technical Elective (1) - (3Credits) ARC 426 Architectural Criticism and Project Evaluation UPL 475 Urban and Architectural Heritage HUM x42 Principles of	<b>5 – (AS</b> 60%	Environmental Architecture Elective (1) -(2Credits) ARC 322 Architectural Criticism and Project Evaluation OR ARC323 Built Environment Accessibility ASU113 Professional	40%	Portfolio of students' work includes a compilation of coursework of the 2 modules; each module includes samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam
EG0532 AR5104	Tendering, and Execution	Law & Human Rights- (2Credits) ARC 334 Working Drawings (1) -(3Credits)	40%	Ethics and Legislations - (3Credits) ARC351 Working Design (1): Execution Drawings	60% 35%	
30Credit	Documents	ARC 335 Working Drawings (2) -(3Credits)	35%	Coordination, Annotation and Coding -(3Credits) ARC352 Working Design (2): Blow-Ups Detailing, Items Specifications and	35%	Portfolio of students' work includes a compilation of coursework of the 3 modules; each module includes samples of the following:
		<b>CES 325</b> Steel Structures- (3Credits)	30%	BOQs-(3Credits) CES345 Steel Structures for Architecture Engineering -(2Credits)	30%	Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam
EG0533 AR5105 30Credit	Architectural Design Studio (3)	ARC 354 Sustainable Architectural Design Studio (1) -(3Credits) ARC 355 Sustainable	35%	ARC 312 Sustainable Architecture Design Studio (1) -(3Credits) ARC 313 Sustainable	35%	Design portfolio, which is a compilation of students' coursework submissions
		Architectural Design Studio (2) -(3Credits) UPL 362 Eco Urban	35% 30%	Architecture Design Studio (2) -(3Credits) UPL 313 Eco Urban	35%	indicating project progress 1 Midterm Exam Final Exam
EG0534 AR5106 30Credit	Technical Studies in Architecture (2)	Design (2) -(3Credits) UPL 315 Eco Urban Design (1) -(3Credits)	40%	Design -(3Credits) UPL332 Sustainable Urban Development - (3Cradita)	30% 35%	
Joeroun		ARC 316 Modelling of the Built Environment- (2Credits)	30%	(3Credits) ARC365 Building Performance Simulation- (3Credits)	35%	Portfolio of students' work includes a compilation of
			HUM x53 Research & Analysis Skills-(2Credits)	30%	ASU Elective (1)- ASU321 Innovation and Entrepreneurship OR ASU324 History of Engineering & Technology OR ASU322 Language Course (2Credits)	30%
EG0535 AR5107	Real Estate Management &	UPL 313 Housing Studies and Design -(3Credits)	50%	UPL 351 Housing Studies -(3Credits)	60%	Portfolio of students' work includes a compilation of
15Credit	Development	UPL 343 Sustainable Urban Landscape - (3Credits)	50%	ARC371 Architecture Project Management - (2Credits)	40%	coursework of the 2 modules; each module includes samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam

Module Code	Module Name	(curriculum 2013)		(curriculum 2018)		Assessment Method
		Component of Assessment	%	Component of Assessment	%	
		Archite				
EG1641 N.A.Y. 30Credit	Architectural Design Studio (4)	(UCL)Level ARC 456 Sustainable Architectural Design Studio (3) -(3Credits)	iral Design 35% Contextual Architecture 40% D		Design portfolio, which is a compilation of students'	
		ARC 476 Execution Documents -(3Credits)	35%	ARC451 Working Design (3): Execution Documents Complexity -(3Credits)	40%	coursework submissions indicating project progress 1 Midterm Exam
		UPL 441 Eco Urban Design (3) -(3Credits)	30%	ASU111 Human Rights (2Credits)	20%	Final Exam
EG1642 N.A.Y. 30Credit	Architectural Design and Contextual Studies	ARC 415 Building Performance Simulation- (2Credits)	25%	<b>ARC493</b> Environmental Architecture Graduation Project (1) -(2Credits)	25%	Design portfolio, which is a compilation of students'
		ARC 492 Studies and Program of Graduation Project-(2Credits)	25%	ARC494 Environmental Architecture Graduation	75%	coursework submissions indicating project progress 1 Midterm Exam
		ARC 493 Graduation Project-(4Credits)	50%	Project (2) -(6 Credits)		Final Exam
EG1643 N.A.Y. 30Credit	Architectural technical studies	ARC xxx Technical Elective (2) -(3Credits) ARC 447 Outdoor Noise Propagation in Built Environment	25%	Environmental Architecture Elective (2) -(2Credits) ARC368 Soundscape and Aural Architecture OR UPL381 Introduction to Geographic Information Systems	30%	Portfolio of students' work
		<b>ARC 4xx</b> Technical Elective (3) -(3Credits) ARC 441 Building Life Cycle Assessment	25%	Environmental Architecture Elective (3) -(3Credits) ARC 473 Building Life Cycle Assessment OR UPL424 Selected Topics in Architecture and Urbanism	35%	includes a compilation of coursework of the 4 modules; each module includes samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam
		ARC 4xx Technical Elective (4) -(3Credits) ARC 445 Economics of Green Building	25%	Environmental Architecture Elective (4) -(3Credits)	250/	
		HUM x92 Humanities Elective (2) -(2Credits) HUM x63 Technology of Ancient Egypt	25%	UPL435 Urban and Architectural Heritage OR UPL436 Urban Renewal	35%	
EG1644 N.A.Y. 30Credit	Technical Studies and Building Systems	ARC 443 Renewable Energy Systems - (3Credits)	35%	ARC463 Renewable Energy Systems and Economics - (2Credits)	30%	Portfolio of students' work includes a compilation of coursework of the 3 modules;
		UPL 474 Environmental Impact Assessment - (3Credits)	35%	UPL 463 Environmental Impact Assessment - (3Credits)	40%	each module includes samples of the following: Activities/Assignments
		ARC 448 Sustainable Building Rating Systems- (2Credits)	30%	ARC 462 Sustainable Building Rating Systems- (2Credits)	30%	2 Quizzes 1 Midterm Exam Final Exam

Module Code	Module Name	(curriculum 2013)		(curriculum 2018	)	Assessment Method
		Component of Assessment	%	Component of Assessment	%	
		Urba (UEL)Level	nism Tra 6 –(ASU			
EG2641 N.A.Y. 30Credit	Urbanism Design Studio (4)	ARC 456 Sustainable Architectural Design Studio (3) -(3Credits)	35%	Х		Design portfolio, which is a compilation of students'
		<b>UPL 446</b> Introduction to Geographic Information System (GIS) -(3Credits)	35%	Х		coursework submissions indicating project progress 1 Midterm Exam
		UPL 441 Eco Urban Design (3) -(3Credits)	30%	Х		Final Exam
EG2642 N.A.Y. 30Credit	Urban technical studies	UPL 4xx Technical Elective (2) -(3Credits) UPL 424 Economics for Sustainability	25%	Х		
		UPL 4xx Technical Elective (3) -(3Credits) UPL 423 Smart Cities	25%	Х		Portfolio of students' work includes a compilation of coursework of the 4 modules;
		UPL 4xx Technical Elective (4) -(3Credits) UPL 422 Selected Topics in Urbanism	25%	х		each module includes samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam
		HUM x92 Humanities Elective (2) - (2Credits) HUM x63 Technology of Ancient Egypt	25%	х		Final Exam
EG2643 N.A.Y. 30Credit	Urban Design and Contextual Studies	UPL 445 Sustainable Urban Mobility- (2Credits)	25%	Х		Design portfolio, which is a compilation of students' coursework in the 3 modules.
		UPL 495 Studies and Program of Graduation Project -(2Credits)	25%	Х		The first module includes samples of the following: Activities/Assignments
		<b>UPL 496</b> Graduation Project -(4Credits)	50%	х	X	<ul> <li>2 Quizzes         <ol> <li>Midterm Exam             </li> <li>Final Exam.         </li> <li>The second and third modules                 include samples of the students'                 report progress, report                 presentation, posters of the                 report and the project, and                 capstone project progress.</li> </ol> </li> </ul>
EG2644 N.A.Y. 30Credit	Technical Studies and Urbanism	CES 447 Sustainable Waste Management- (2Credits)	30%	х		Portfolio of students' work includes a compilation of coursework of the 3 modules;
		UPL 448 Environmental Planning-(3Credits)	35%	Х		each module includes samples of the following:
		UPL 474 Environmental Impact Assessment - (3Credits)	35%	Х		Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam

# 3 KEY STAFF AND CONTACT DETAILS

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# **Circumstances in which student can access UEL directly**

You will find that for most issues that arise during the course of your studies academic and administrative staff at your location of study will be able to help, and further details are provided in this handbook. If however you have concerns that lie outside the remit of these staff you can contact the UEL link person [see further details below] in the first instance who will be able to re-direct your enquiry as appropriate.

The UEL Academic Link Tutor is appointed to manage the relationship between the Programme Leader at ASU- FoE and UEL. Students may meet the UEL Link Person at Programme Committee Meetings.

Please contact your local Student Support/Administrative Office if you have any queries, in the first instance. If you have been advised by your local office to contact UEL then please send an e-mail to the **UEL Academic Link Tutor** at *h.elsharkawy@uel.ac.uk*.

# 4 PROGRAMME OPERATION AND STUDENT REGISTRATION

# 4.1 Enrolment Requirements

- Students eligible to get enrolled on the Programmes are those with the general certificate of secondary education (Thanaweya Amma), mathematics section, or equivalent, who have been deployed to the Faculty through the Coordination Office, or transferred from other Faculties, in accordance with the rules and conditions established annually by the Supreme Council of Universities.
- The Council of the Faculty of Engineering establishes general rules for admission to the programmes considering the student preferences and the principle of equal opportunities as the basis for the admission of students to these programmes.
- All students will be required to have gained an overall IELTS score of 6.0 and meet the required Speaking, Listening, Reading and Writing grades (not less than 5.5) before being enrolled or registered on the UEL/ASU dual award programme.
- A student can gain advanced entry on the dual award programme, if they have successfully completed a previous lower level on the associated ASU programme, including having met the IELTS criterion mentioned above.

# 4.2 Study Timings and Registration

The academic year comprises three semesters:

**First main semester (Fall)**: Begins early September and lasts for 15 weeks. **Second main semester (Spring)**: Begins early February and lasts for 15 weeks. **Summer semester**: Begins late June and lasts for 7 weeks.

- New students' enrolment in the programmes starts two weeks before the starting of the Fall semester, after fulfilling all the programmes requirements and paying the enrolment fees, as recommend by the Programs Administration Council and set by the Council of the Faculty of Engineering.
- Registration for any semester takes place within two weeks before the starting day of the semester. Registration is not final until the full tuition fees of the semester are paid.
- Registration in the Summer semester is optional.
- The student must register 120 credits per academic year or 60 credits per semester, after consulting the academic advisor, at the time of registration and according to the yearly rules issued by the Faculty and published in the student's guide. Registration is not final until the student pays the educational service fees for the semester.
- There will be one intake point per year, which will be in September.
- Late registration is not final unless there is a vacancy in the courses, and the student should pay late registration fees besides the prescribed academic service fees, in accordance with the recommendations of the Programmes Administration Council and approval of the Council of the Faculty of Engineering regarding this issue.
- The student may not register in any course without fulfilling all its prerequisites.
- The programme academic regulations are available at *https://eng.asu.edu.eg/BylawsAndRegulations*

- The Local Attendance and Engagement policy is available at https://eng.asu.edu.eg/uploads/uploadcenter/asu\_594\_file.pdf
- UEL University's academic regulations are available at: Academic Framework Regulations (see Manual of General Regulations, Part 3)
- https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Manual-of-General-Regulations

It is essential that you log in to UEL direct and enrol with UEL using the UEL student number that you have be given prior to attending any lectures. Your programme leader will be able to assist you with this.

Once you have gained admission to the programme you must login to the UEL direct page using your student username which will be your UEL ID number and password and complete the on-line enrolment. ASU – FoE will assist and ensure that you complete your online enrolment task promptly. UEL Direct is available at *https://www.uel.ac.uk/students* 

For general enquiries concerning enrolment, you must contact your local Student Support/Administrative Office for guidance in the first instance and then if you are advised to contact UEL, please send an e-mail to the UEL Academic Partnerships Office at *apo@uel.ac.uk*.

# 5 TEACHING, LEARNING AND ASSESSMENT

# 5.1 Details of local teaching and learning approaches

- No distance learning is implemented.
- The programme is a credit bearing system leading to the Bachelor of Science Degree (Honours) after completing 480 credits. Student evaluation is based not only on final exam, but also on midterm exams, quizzes, assignments, course projects, presentations, papers, essays, in/out of class participation and many other innovative activities.
- The student must pass the College requirements, which consist of basic sciences and engineering courses. These courses must be studied by all students and they represent 120 credits at Foundation level.
- Course instructors in the programme are carefully selected from the distinct full-time world-class faculty members of the Faculty of Engineering at Ain Shams University.
- Although this is not compulsory, the student is encouraged to perform summer training for 12 weeks during his study duration. Training must be performed in an industrial/service facility related to the student's programme, and must be under the full supervision of the faculty.
- With the majority of modules being delivered over the whole year there is excellent scope for formative assessment to stretch and extend the students. Thus, a key feature of the courses is the emphasis on formative feedback and guidance to enable students to develop full understanding of the topics of study, prior to assessment taking place.
- Assessment for these programmes takes the form of examinations, course works, presentations and time constrained assessments as can be seen below in the Assessment Work Load mapping.
- Each course syllabus should contain: course objectives, textbook, outline, material, assessments, grading policy and outcome. Outline should contain sections covered every week with reference to chapters/sections in the textbook. The instructor should give the course syllabus to the students in the first class. The syllabus serves as a contract between the instructor and the students.

# 5.2 Details of local assessment arrangements

# a) Passing Modules

The student must achieve a minimum of 40% in a module in order to pass a module.

# b) Incomplete Modules

If a student does not pass the module, another set of assessments (resits) are conducted after the semester's final exams during the resit period). The marks of the resit are capped at 40% unless extenuation is granted (see section 13).

# c) Modules opportunities

A module resit is considered a second opportunity. If a student fails at the second opportunity they will be given a maximum of two further opportunities (opportunity three and opportunity four).

The third opportunity requires full attendance of the module in the next academic year. The fourth opportunity will be a further resit. In each case the final mark is capped at 40% unless extenuation is granted (see section 13).

### d) Repeating a year

If a student fails to achieve 90 or more credits within an academic year they may, at the discretion of the Exam Board, be asked to either leave the course or repeat the whole academic year (with mark uncapped). A student will only be allowed to repeat an academic year once at most during their studies.

# 5.3 Degree Classification

Where a student is eligible for an Honours degree by passing a valid combination of modules to comprise an award and has gained a minimum of 240 UEL credits at level 5 or level 6 on the current enrolment for the programme, including a minimum of 120 UEL credits at level 6, the award classification is determined by calculating:

The arithmetic mean of the best 90 credits at levelThe arithmetic mean of the next best 90 credits6x0.8+6at levels 5 and/or 6			0.8	x	The arithmetic mean of the best 90 credits at level
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and applying the mark obtained as a percentage, with all decimals points rounded up to the nearest whole number, to the following classification

70% - 100%	First Class Honours
60% - 69%	Second Class Honours, First Division
50% - 59%	Second Class Honours, Second Division
40% - 49%	Third Class Honours
0% - 39%	Not passed

For full details of the University degree classification refer to

http://www.uel.ac.uk/wwwmedia/internal/qa/committees/documents/Academic-Framework---Assessment-Regulations---with-changes-approved-for-Transition-Group.doc

# Grades of the ENVR Programme modules

Ain Shams Un	University of East London		
Percentage of total mark at ASU	Grade	Points for GPA	Percentage equivalent at UEL
97% and higher	A+	4.0	95% and higher
93% to less than 97%	А	4.0	82% to less than 95%
89% to less than 93%	A-	3.7	70% to less than 82%
84% to less than 89%	B+	3.3	66% to less than 70%
80% to less than 84%	В	3.0	63% to less than 66%
76% to less than 80%	B-	2.7	60% to less than $63%$
73% to less than 76%	C+	2.3	56% to less than 60%
70% to less than 73%	С	2.0	53% to less than 56%
67% to less than 70%	C-	1.7	50% to less than 53%
64% to less than 67%	D+	1.3	45% to less than 50%
60% to less than 64%	D	1.0	40% to less than 45%
Less than 60%	F	0.0	Less than 40%

The points of each credit hour are computed as follows:

# 5.4 References to student policies

ASU-FoE available at: *https://eng.asu.edu.eg/uploads/uploadcenter/asu\_594\_file.pdf* UEL available at:

https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporatedocuments/Student-Policies

Also detailed in Appendix B which provides full information on referencing and the avoidance of plagiarism.

The electronic version of "Cite Them Right: *the essential referencing guide*" 9th edition, can be accessed whilst on or off campus, via UEL Direct. The book can only be read online and no part of it can be printed nor downloaded.

Reference to Appendix E containing information on Academic Misconduct and Plagiarism. Assessment and Feedback Policy available at:

https://eng.asu.edu.eg/uploads/uploadcenter/asu\_594\_file.pdf

Assessment and feedback are fundamental parts of your learning experience. The UEL Assessment and Feedback Policy seeks to:

- actively promote student success and academic achievement;
- provide clear, accurate, accessible information and guidelines to all staff and students on assessment and feedback;
- maximise the potential for consistency and fairness in assessment;
- locate assessment and feedback as an integral part of learning and teaching processes.

Every component of assessment that contributes to an award, at all levels, is subject to internal and External Examiner moderation. This ensures the maintenance of standards both internally and in comparison, with similar programmes delivered at other higher education institutions. The UEL Assessment and Feedback Policy outlines the process for the various stages of the marking process and is available at *https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Assessment-and-Feedback-Policy* 

The UEL Skills Curriculum has been designed to ensure that you are taught, have the opportunity to practice, and are assessed in three skillsets: Learning Skills, Professional Skills and Research Skills. These Skills are developed within your programme of study. Further information is available at:

https://www.uel.ac.uk/discover/governance/policies-regulations-corporatedocuments/student-policies/skills-curriculum

The UEL Skills Portal has been designed to act as a single gateway to a whole range of skills support that will help you progress through your studies. From tips on academic writing, using IT, to guidance on time management and exam revision - all of the resources in the UEL Skills Portal have been designed to support your learning and achievement, refer to

https://uelac.sharepoint.com/LibraryandLearningServices/Pages/Skillzone. aspx

As a student you will be taught how to write correctly referenced essays using UEL's standard Harvard referencing system from Cite Them Right. Cite them Right is the standard Harvard referencing style at UEL for all Schools apart from the School of Psychology which uses the APA system. This book will teach you all you need to know about Harvard referencing, plagiarism and collusion. The electronic version of "Cite Them Right: *the essential referencing guide*" 9th edition, can be accessed whilst on or off campus, via UEL Direct. The book can only be read online and no part of it can be printed nor downloaded.

Further information is available at Appendix E and the weblinks below: Harvard referencing https://uelac.sharepoint.com/LibraryandLearningServices/Pages/Harvard-Referencing-.aspx

Academic Integrity https://uelac.sharepoint.com/LibraryandLearningServices/Pages/Academicintegrity.aspx

# 5.4 Assessment Criteria

A student's performance will be marked and graded according to pre-specified and clear assessment criteria. These will normally be presented in one document combining marking and grading criteria. Further details can be found in section 2.3 of the Assessment and Feedback Policy and can be found at: *www.uel.ac.uk/qa/policies/assessmentpolicy/* 

As your degree progresses, you will be assessed in a number of different ways. In addition to examinations, you will have a range of coursework assessments such as reports or presentations, for which you will be given clear guidance by the module leader including how you will be assessed for that piece of work. You are also referred to

The section below gives you a general guideline of what we are looking for at different levels of the programme.

# 5.4.1 Level 3

- You demonstrate understanding of factual information.
- With some help, you can process and evaluate given information and draw some conclusions.
- You can follow guidelines in developing solutions to simple problems.

# 5.4.2 Level 4

- You can present factual information.
- With some help, you can analyse and evaluate the information presented and draw some conclusions.
- You can follow guidelines in creating solutions to straightforward problems.

# Work of a better standard usually reflects an approach where

- You have required little additional guidance in producing your work.
- You have shown initiative where appropriate.
- You meet your obligations to others
- You have fully appreciated the complexity of a task and managed your time and resources accordingly.
- Your work is presented with care and forethought.

# 5.4.3 Level 5

- Your work displays a detailed knowledge of the topic. You are aware of other contexts that can be applied to this knowledge.
- With some guidance you can analyse data and situations in a range of different contexts.
- You can take information gathered or the ideas of others and re-format it to your own purpose.
- You can select appropriate evaluation techniques. You can use these to evaluate your own findings.

# Work of a better standard usually reflects an approach where

- You have required minimal additional assistance
- You have been particularly creative in devising and implementing you chosen solution

- You have identified the key elements of problems and chosen the appropriate strategies to resolve them.
- You have communicated your work in a clear and concise manner.

# 5.4.4 Level 6

- Your work displays a comprehensive and detailed knowledge of the topic with areas of specialisation showing depth of understanding.
- You are aware of current developments.
- Without guidance you can analyse data and situations in a range of different contexts.
- You can develop creative and innovative solutions with little guidance.
- You can review evidence critically and use your findings to support conclusions and recommendations.

Work of a better standard usually reflects an approach where

- You have not required any additional assistance
- You have proved you can manage your own learning and make full use of a wide range of resources.
- You have been confident in your ability to solve problems.
- You have communicated your work in a thoroughly professional and coherent manner.
- The marks of each course are distributed as percentages of the total mark according to the following rules:
  - 1. A final written exam will be held for each course at the end of the semester that weighs 40% of the total course marks, with the exception of the graduation project.
  - 2. Semester-work represents 60% of the total course marks, which includes the mid-term exam in the sixth or seventh week of the semester that weighs 25% of the total course marks. The remaining 35% of the total course marks are distributed among research, reports, quizzes ... etc., practical/oral exams, participations ... etc.
- > The student must attend at least 75% of the course.
- The minimum mark that must be earned in any component is 30% of the total mark, 40% overall, otherwise the student will fail the course irrespective of the total marks he earned in the course and he will get an F grade in this course.
- The student fails the course if he obtains an F grade, or was prevented from attending the final examination because of exceeding the absence percentage or cheating ... etc, or did not attend the final examination without submitting an excuse that is accepted by the Programmes Administration Council and approved by the Council of the Faculty of Engineering.

# **Research Integrity**

The University of East London conducts high quality, innovative research and is guided by the principles and standards outlined in The Concordat to Support Research Integrity, 2012; the University's Code of Practice for Research; Code of Practice for Research Ethics and Procedures for the Investigation of Misconduct in Research, for staff and students. The Concordat seeks to provide a national framework for good research governance and its conduct, and applies to all fields of research supporting a research environment that is

underpinned by ethical values. The University adheres to its responsibility to support and promote the highest standards of rigour and integrity and embed a culture of honesty, transparency and care and respect for all participants and subjects of research. The University is committed to ensuring that research is conducted with integrity and good research practices are upheld.

### **Risk Assessment**

The University has a duty of care to its researchers and a responsibility to safeguard the welfare of research participants. Risk management should be considered at the same time as planning a research project. A comprehensive risk assessment helps to identify and evaluate potential hazards associated with the research project. Students in consultation with their supervisors should put control measures in place to minimise the likelihood of an event occurring that will cause harm. A risk assessment must be completed for research taking place within and outside of the University, fieldwork and research conducted overseas, before the project commences. The risk assessment should be completed by the student in collaboration with the supervisor and authorised by the Dean of the School or Associate/Acting Dean. If students consider that human participants in their, or others,' research are subject to unreasonable risk or harm, they must report the concerns to their supervisor and, where necessary, to the appropriate regulatory authority. Similarly, concerns relating to the improper and/or unlicensed use or storage of human material or non-human animal or the improper use or storage of personal data, should also be reported.

Further guidance on risk assessments can be found in the University's Health & Safety Handbook:

https://uelac.sharepoint.com/HealthandSafetyUnit/Pages/H%26S-Handbook.aspx

# 6 MODULE SPECIFICATIONS

Module Title:	Module Code: EG	Module Leader:						
Design Fundamentals Techniques			Dr Sabah Soliman					
	Credit: 30							
	ECTS credit: 15							
Pre-requisite: None		Pre-cursor: No	ne					
Co-requisite:		Excluded comb	pinations:					
Location of delivery: Ain Shams Unive	rsity Campus							
Mai By the end of this module, the student will	n aim(s) of the mod be able to:	ule:						
<ul> <li>Enrich their basic knowledge about</li> <li>Develop the ability to use most po</li> <li>Specify most suitable specification details.</li> </ul>	pular architectural sc	ftware to generat	e architectural graphics.					
<ul> <li>Differentiate between natural and</li> <li>Recognize different characteristic with the built environment</li> <li>Identify the principles of human th</li> </ul>	s of natural element							
Analyse problems that might emer of cooling and ventilation	rge with current pract							
<ul> <li>Decide the better ways and method</li> <li>Integrate different methods to read</li> <li>Design buildings to accomplish the</li> </ul>	ch thermal comfort in	the internal space						
<ul> <li>Innovate new ways to achieve and</li> <li>Develop strategies and acquire should be aid of new technologies and so</li> </ul>	d integrate methods of sills for effective com	of thermal comfort						
N	lain topics of study	:						
Digital Presentation of the Built Er	vironment							
Control of Thermal Environment								
Urbanism and Climate								
Learning Outcomes for the module								
At the end of this module, students will be able to: 1. Define the indoor environment quality, thermal comfort, climatic parameters, and micro climate 2. Review and criticise the different thermal comfort charts and tables to conclude the proper thermal								
<ul><li>treatments inside and outside the buildings.</li><li>3. Analyse the effect of the microclimate, vegetation, orientation on the built environment in different</li></ul>								
<ul><li>climates</li><li>4. Suggest different architectural design moistening, ventilation, and/or cooling</li></ul>								
<ul><li>materials, and added elements.</li><li>5. Design the shading elements for the different facades orientations, by using the sun path diagram any position and the sun protractor.</li></ul>								
6 Use the elements of sun wind and daylight as they pertain to passive design focusing on building								

6. Use the elements of sun, wind and daylight as they pertain to passive design, focusing on building form and solar radiation, natural ventilation strategies and day lighting design principles and applications

- 7. Apply AutoCAD programme to draft simple schematic architectural drawings
- 8. Apply Adobe Photoshop raster graphics application to render simple graphics
- 9. Apply Sketchup to create a complete conceptual 3d model.
- 10. Write & Present Reports and communicate ideas effectively

### Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:

### For on campus students:

Learning will be supported through lectures delivered on Campus, to explain theoretical background of related topics and explain basic methodology for analysis and practical work. Materials will be available through external websites, chapters from print books, and lectures handouts. The learning process will be also supported through tutorials for understanding the application of theories. This will take place in form of practical assignments and quizzes throughout the module.

The learning content will be organised in a number of topics and clear indication will be given to the students as to how they are advised to progress through the topics. Each topic will have its own learning outcomes and will contain advice on how to engage most effectively with the learning materials for the topic. Key concepts and models will be highlighted and revision notes or summaries will be provided as appropriate. There will be formative assessment or opportunities for self-assessment to enable students to monitor their learning. Feedback on coursework will be provided and students will be able to discuss their feedback with module leaders and tutors.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	100%	1,2, 3, 4, 5, 6, 7, 8, 9, 10

### Reading and resources for the module:

### Core

- Elwakil, Shafak, CLIMATE, 2nd edition, 2012
- Steffen Lehmann, WHAT IS GREEN URBANISM? Holistic Principles to Transform Cities for Sustainability Steffen Lehmann University of South Australia, Research Centre for Sustainable Design and Behaviour
- Fabbri, K., 2015. Indoor thermal comfort perception. A Questionnaire Approach Focusing on Children; Springer: New York City, NY, USA.
- Parsons, K., 2014. Human thermal environments: the effects of hot, moderate, and cold environments on human health, comfort, and performance. CRC press.
- Nicol, F., Humphreys, M. and Roaf, S., 2012. *Adaptive thermal comfort: principles and practice*. Routledge.
- http://docs.autodesk.com/3DSMAX/16/ENU/3ds-Max-Help/index.html
- http://www.sketchup.com/learn

### Recommended

- Philip James and al., (2011) Urban Ecology: Patterns, Processes, and Applications Reprint Edition) Oxford Press
- Hall, M.R. ed., 2010. *Materials for energy efficiency and thermal comfort in buildings*. Elsevier.
- Orosa, J.A. and Oliveira, A.C., 2012. *Passive methods as a solution for improving indoor environments*. Springer Science & Business Media.
- Huizenga, C., Abbaszadeh, S., Zagreus, L. and Arens, E.A., 2006. Air quality and thermal comfort in office buildings: results of a large indoor environmental quality survey.

- https://www.simscale.com/blog/2016/08/thermal-comfort-in-buildings/. http://www.hse.gov.uk/temperature/thermal/factors.htm -
- -
- http://nceub.org.uk/dokuwiki/lib/exe/fetch.php?media=nceub:uploads:members:w200 -
- 6:session10:w2006\_saberi.pdf -
- http://www.energy-design-tools.aud.ucla.edu/climate-consultant/request-climate-consultant.php -
- http://www.energy-design-tools.aud.ucla.edu/ -
- http://susdesign.com/tools.php \_

Indicative learning and teaching time (10 hrs per credit):	Activity
1. Student/tutor interaction:	<ul> <li>Practical work in the computer lab under supervision of their tutors.</li> <li>Individual assignments with the guidance of lectures and tutors.</li> <li>Group assignments of research, including oral presentations.</li> <li>Participation in lectures and involvement in delivered topics.</li> <li>Total (200 Hours)</li> </ul>
2. Student learning time:	<ul> <li>Preparation of group presentations.</li> <li>Take home assignments and quizzes (including theory and practice).</li> <li>Readings assigned.</li> <li>Preparation for examinations.</li> <li>Total (100 Hours)</li> </ul>
Total hours (1 and 2):	300 Hours

Module Title: Architecture Design Studio (1)	Module Code: EG	0312 / AR3102	Module Leader: Dr Sabah Soliman
	Level: 3		
	Credit: 30		
	ECTS credit: 15		
Pre-requisite: None		Pre-cursor: No	ne
Co-requisite:		Excluded comb	binations:

### Location of delivery:

Ain Shams University Campus

### Main aim(s) of the module:

The module aims to provide students with a broad, varied, stimulating range of projects that introduce them to the skills, processes and practices involved in making design projects. The module intends to facilitate students to develop a critical, disciplined and productive approach to the act of designing and to support independent thinking, making and communicating.

In phase 1 the module aims to support experiment and trial and error, through short design orientated projects and exercises that build confidence and competence. Briefs are introduced so that design ideas are explored both individually and in groups. These aim to introduce a suitable work ethic and the practise of design as an iterative process.

In phase 2, more open ended interpretive and longer individual projects allow for fostering a personal perspective and sense of direction, reinforcing independence and commitment to generating and developing more self-motivated, innovative, enquiry based project work within a principal area of specialisation.

Through completing design projects set in this module, students will develop and evolve their portfolio of work in a distinctive way that is evidence of increasing subject specificity and an ability to make an informed choice of progression pathway. By the end of this module, the student will be able to:

- Relate fundamentals of architectural design through the design process, analysis, concepts, development and presentation.
- Design simple projects focusing on the functional relationships and the internal furniture to accommodate different functions.
- State Design objectives include orientation, privacy and spatial composition.
- Describe their design concepts and to present their designs based on their acquired presentation skills.
- Enhancing the student's ability of transforming architectural three-dimensional forms into two dimensional drawings and vice versa.
- Develop the abilities for visualization& representation based on scientific methods.
- Apply shade and shadow in architectural representation.
- Draw perspectives for architectural projects.

### Main topics of study:

- Architectural Design Studio (1)
- Architectural Design Studio (2)
- Shades, Shadows, and Perspective

### Learning Outcomes for the module

At the end of this module, students will be able to:

- 1. Relate different functional behaviour to design spaces in small scale Architectural Projects.
- 2. Illustrate design concepts in harmony with function and perceptual.
- 3. Find problem solutions and develop solving skills, developed through a multitude of learning and teaching modes
- 4. Choose, analyse and apply different Design techniques.
- 5. Interpret conceptual ideas into various Architectural forms
- 6. Design small Architecture Projects, with the complexity of iterative spaces.
- 7. Draw accurately the architectural shade and shadow.
- 8. Draw accurately different perspective types for buildings.
- 9. Apply shade, shadow and perspective drawings principles in exercises & architectural project.
- 10. Demonstrate successful model making skills.

#### Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:

#### For on campus students:

Learning will be supported through lectures delivered on Campus, to explain theoretical background of related topics and explain basic methodology for analysis and practical work. Materials will be available through external websites, chapters from print books, and lectures handouts. The learning process will be also supported through tutorials for understanding the application of theories. This will take place in form of practical assignments and projects.

The learning content will be organised in a number of topics and clear indication will be given to the students as to how they are advised to progress through the topics. Each topic will have its own learning outcomes and will contain advice on how to engage most effectively with the learning materials for the topic. Key concepts and models will be highlighted and revision notes or summaries will be provided as appropriate. There will be formative assessment or opportunities for self-assessment to enable students to monitor their learning. Feedback on coursework will be provided and students will be able to discuss their feedback with module leaders and tutors.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: submissions indicating projects' progress 1 Midterm Exam Final Exam	100%	1, 2, 3, 4, 7, 8, 9, 10

#### Reading and resources for the module: Core Ching Francis, D.K., 1996. Architecture: form, space and order. National Library, Iran. -Walliman, N. and Baiche, B., 2002, Architects' data: 3rd, Ernst Neufert, Peter Neufert, Bousmaha Baiche & Nicholas Walliman, "Architects' Data (3rd Edition)", Blackwell Publishing Limited, ISBN: 0632057718(22002) Yee, R., 2012. Architectural drawing: A visual compendium of types and methods. John Wiley & Sons. Recommended Levinson, E.D., 1983. Architectural rendering fundamentals. Glencoe/McGraw-Hill School Pub Co. Lin, M.W., 1985. Architectural rendering techniques: A color reference. John Wiley & Sons. Montague, J., 2013. Basic Perspective Drawing, Enhanced Edition: A Visual Approach. John Wiley & Sons. Uddin, M.S., 1997. Axonometric and Oblique Drawing: A 3-D Construction, Rendering and Design Guide, McGraw-Hill, Indicative learning and Activity teaching time (10 hrs per credit): 1. Student/tutor interaction: Individual assignments including sketches for project design and engineering drawings with the guidance of lectures and tutors. (90 hrs.) Group assignments of research, including oral presentations. (25 hrs.) Participation in lectures and involvement in delivered topics. (25 hrs.) 140 Hours 2. Student learning time: Preparation of group presentations. (25 hrs.) \_ Take home assignments and individual project work (90 hrs.) Research Assignments. (25 hrs.) Preparation for examinations. (20 hrs.) 160 Hours Total hours (1 and 2): 300 Hours

Module Title:	Module Code: EG	0313 / AR3103	Module Leader:	
History, Theory & Communication	Level: 3		Prof. Marwa Khalifa	
	Credit: 30			
	ECTS credit: 15			
Pre-requisite:		Pre-cursor:	None	
Co-requisite:		Excluded comb	pinations:	
Location of delivery: Ain Shams Unive	None Prsity Campus		None	
Mai	in aim(s) of the mod	ule:		
Introduce the scientific method to			ys to design.	
Learn about ancient civilizations a	• •	•		
<ul> <li>Study of the relationship between natural and cultural influences an</li> </ul>			osophy in light of the	
Learn the principles and theories			n the surrounded urban	
environment context.				
<ul> <li>Demonstrate knowledge of art/mu</li> <li>Gain an appreciation for the aestheta</li> </ul>			sual alamants and	
principles of design in two- and th				
<ul> <li>Develop an informed personal real</li> </ul>			alysis of various art	
forms				
- History and Theory of Arabitactur	Main topics of study:			
<ul> <li>History and Theory of Architecture</li> <li>History and Theory of Urbanism</li> </ul>	e			
······································				
Learning Outcomes for the module	able to:			
At the end of this module, students will be	able to.			
1. Compose a suitable design a	pproach and a strateg	gic problem-solvin	g technique	
2. Recognize how art, music, ar				
	<ol> <li>Distinguish the relationship between architectural concepts and design philosophy considering the natural and cultural influences and construction capabilities</li> </ol>			
4. Distinguish contributing theor				
5. List elements and land uses i				
6. Describe the planning types a	applied in cities throug	h history, differer	nt civilizations and their	
planning practices; 7. Postulate the different tiers of	human aattlamanta	occording to the l	rhan biorarahy pyramid	
8. Analyse the impact of planning				
cities 9. Use methods of communicati	on including IT skills	graphical represe	entation (drawing and	
CAD), oral communication an	d written communicat			
10. Communicate ideas effective	ly			
Teaching/ learning methods/strategies	used to enable the	achievement of I	earning outcomes:	
For on campus students:			<b>-</b>	
Lectures about different topics in				
Tutorials run parallel to the lecture     Students work on in class and tel			d.	
<ul> <li>Students work on in class and tak</li> <li>In addition, some site visits are ar</li> </ul>	•			
	<ul> <li>Class presentations, peer review, public reviews or 'juries', and tutor feedback</li> </ul>			

Assessment methods which learning outcomes for the m For on Campus Students	enable students to demonstrate the odule:	Weighting:	Learning Outcomes demonstrated:
packed ASU courses; Each ASU Course component Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	udes a compilation of coursework of the would include samples of the following:	100%	1, 2,3,4, 5,6, 7,8, 9, 10
specifically requires a differ	d presented in correct Harvard format	unless a Prof	essional Body
<ul> <li>Kostof, S. (1991). The Brown.</li> </ul>	city shaped: Urban patterns and meaning	gs through histo	ory. Boston: Little,
Wright, and Le Corbus	rban utopias in the twentieth century: Ebe sier. New York: Basic Books.	nezer Howard	, Frank Lloyd
,	Modern Architecture: A Critical History ne New Paradigm in Architecture: The La N-10: 0300095139	nguage of Pos	stmodernism, Yale
•	(2006), Theories and Manifestoes of Cont	emporary Arch	itecture, Academy
-	I: The Complete Buildings and projects, R ctals: the Patterns of Chaos: Discovering ne Book.		tic of Art, Science,
• Brookes, Allen J. and	Poole D. (2007) Innovation in Architecture Oxenaar, Machiel Spaan, (2012). "Mu	•	
Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed s	study as descri	bed below
1. Student/tutor interaction:			
2. Otudant learning time.	160 hours		
2. Student learning time:	2. Student learning time: 140 hours private study / research / coursework		
Total hours (1 and 2):	300 hours		

Module Title:			Module Leader:
Building Technology and Materials (1)	Level: 3		Dr Tamer Samir
	Credit: 30		
	ECTS credit: 15		
Pre-requisite:		Pre-cursor:	I
	None		None
Co-requisite:		Excluded com	
	None		None
Location of delivery: Ain Shams Unive	rsity Campus		
Mai	n aim(s) of the mod	ule:	
<ul> <li>Illustrate the basic concepts and t</li> </ul>			aring and skeleton
structure systems.		0	0
<ul> <li>Describe basics, principles and th</li> </ul>			hat happened in
loadbearing walls and skeleton st	•		
<ul> <li>Choose when and why to use eith</li> </ul>			
Use rule of thump to design the base	asic construction eler	nents in loadbear	ing walls and skeleton
structure systems.	when of our coving on	ionoo	
<ul> <li>Demonstrate knowledge and brar</li> <li>Represent the surveying maps, so</li> </ul>			skatches and linear
measurements.		in sulveying, neiu	Skelones and intear
Calculate coordinates directions a	and azimuth for the p	urpose of survevir	ng and setting out of
points representing the borders an		,,	<u> </u>
Draw Internal forces diagrams, for	r determinate structur	res (Beams, Fram	ies, Arches, Trusses).
Determine and draw Normal Stress		sections under di	fferent straining actions
	(N - Mx - My) under applied static loads.		
Draw Influence lines diagrams for	•	•	
Describe types of loads, supports and reactions of determinate structures (Beams, Frames,			
	<ul> <li>Arches, Trusses).</li> <li>Specify of engineering materials and products and their Main properties and behaviour under</li> </ul>		
certain types of loads.		i main properties	
	Main topics of study	:	
Building Technology (1)			
Land Surveying			
Structure Analysis			
Building Engineering Materials			
Learning Outcomes for the module			
At the end of this module, students will	l be able to:		
1. Recognise the different structural eler			
2. Identify types of staircases, retaining	walls, foundations, m	asonry construction	on and reinforced
concrete slabs			
skeleton buildings and simple retainin	3. Apply rules of thumb for the sizing of main structural components of load-bearing buildings, simple		
4. Recognize the basics of surveying instruments.			
6. Identify types of loads, supports and r	eactions of determina	ate structures (Be	ams, Frames, Arches,
Trusses).			
	· · · · · · · · · · · · · · · · · · ·		
<ol> <li>Identify main properties of engineering materials (physical chemical, mechanical, etc.).</li> <li>Analyze behavior of metals under static loads, dynamic loads (Impact), repeated loads (fatigue), and</li> </ol>			
Croop			
	used to enable the		

# Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:

### For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- Lectures about different topics in the module are used.
- Tutorials run parallel to the lectures.
- Students work on in class and take-home assignments.
- Some site visits are arranged.
- Group work producing surveys or modelling

Assessment methods which enable students to demonstrate the learning outcomes for the module; please define as necessary:	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	100%	All
<ul> <li>Reading and resources for the module:</li> <li>Core <ul> <li>Minke, G., 2013. Building with earth : design and technology of a sustainable architecture. s.l.:Birkhäuser – Publishers for Architecture.</li> <li>Hibbeler, R. C. Structural Analysis, Sixth ed Prentice Hall, Upper Saddle River, New Jersey07458, 2007, ISBN: 0-13-0181309-5.</li> <li>Wolf, P.R. and Brinker, R.C. "Elementary Surveying" Harper Collins Publisher, New York, 1994.</li> <li>William Irvine, F. "Surveying for Construction" The McGraw-Hill Companies, 1995</li> </ul> </li> <li>Recommended</li> </ul>		
<ul> <li>Chudley, R. &amp; Greeno, R.; Building Construction Handbook, 7th</li> <li>McKay, W.C.; Building Construction V 1&amp;2, Longmans</li> <li>Mitchell's; Building Construction V 1; B.T.BATSFORD ltd Lond</li> <li>Anderson M. James and Mikhail M. Edward "Surveying theory a Companies, 1998.</li> <li>Beer F. P. Russell, J. Ir. DeWolf, J.T. Mechanics of Materials</li> </ul>	on Ind practices",	The McGraw-Hill

• Beer, F. P., Russell, J.Jr., DeWolf, J.T. Mechanics of Materials, 4th edition, McGraw Hill, NY, 2006. ISBN-13: 9780073107950.

Indicative learning and teaching time (10 hrs per credit):	Activity
1. Student/tutor interaction:	Tutorials, seminars and workshops, juries, study trips, mid-year and end of year presentations and exhibitions, (140 Hours)
2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)
Total hours (1 and 2):	300 Hours

Module Title:	Module Code: EG0421 / AR4101 Module Leader:		
Issues of the Built Environment			Prof. Mostafa Refat
	Level: 4		
	Credit: 30		
	ECTS credit: 15		
Pre-requisite:	Need	Pre-cursor:	Niere
Co-requisite:	None	Excluded com	None None
	None		None
Location of delivery: Ain Shams Unive	rsity Campus		
Mai	n aim(s) of the mod	ule:	
- Roberroo the basics of urban day	ian theories and its s	unnlightions in the	fields and understand
<ul> <li>Rehearse the basics of urban des the effects and influences of surro</li> </ul>			
Fosters the development of a pers			
required by a designer.	amontal issues and	the interaction he	huaan human naada in
<ul> <li>Highlight the significance of enviro terms of comfort and behaviour, b</li> </ul>			
Understand the effects of global closed set of			
world		waabia atudiaa ia	Archite et une end
<ul> <li>Understand the principles of socia Urbanism</li> </ul>	i, cultural and demo	graphic studies in	Architecture and
Understand the basic objectives, of			
Enhancing the student's general a			
between economy, ecology and e	quity and what is me	ant by a sustainai	bie city.
Main topics of study:			
<ul><li>Introduction to Urban Design</li><li>People and Environment</li></ul>			
Sustainable Urban Development			
<b>Learning Outcomes for the module</b> At the end of this module, students will be	able to:		
<ol> <li>Integrate successful urban de</li> <li>Apply site analysis findings at</li> </ol>	0	0 1	h respect of all
environmental contexts (natu	•		•
3. Find problem solutions and d		, ,	
environmental contexts (natu		iuman), develope	d through a multitude
	of learning and teaching modes. 4. Relate different architectural functions and circulation patterns, taking into consideration		
the environmental behaviour	of the whole project	and its different s	baces.
5. Identify the quality of life indic		ifications into env	ironmental, physical,
	social, economic, and political indicators 6. Relate the significance of socio-economic and cultural studies to the fields of architecture,		
urban design, and urban plan	urban design, and urban planning		
7. Formulate the approaches for		-	
8. Recognise the process of sus reflection in the pursuit of a m	nore sustainable worl	d	
	9. Integrate knowledge from multiple sources and perspectives to understand environmental		
limits governing human societies and economies and social justice dimensions of sustainability			aimensions of
	10. Collaborate effectively the skills which are related to creative thinking, problem solving in		
different fields.			

# Teaching/ learning methods/strategies used to enable the achievement of learning outcomes: For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module; please define as necessary:	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	100%	All

### Reading and resources for the module:

### Core

- Forbes, D. & Geoff, P., 'Urban projects manual', Liverpool University press, 1996.
- Birkeland, Janis. Design for sustainability: A sourcebook of integrated ecological solutions. Routledge, 2012.
- Sanoff, Henry. Community participation methods in design and planning. John Wiley & Sons, 2000.
- Carmona, Matthew, Taner Oc. Et all, Public Places Urban Spaces: The Dimensions of Urban Design, Boston : Architectural Press, (2003).

#### Recommended

- Gosling, David, Gordon Cullen: Visions of Urban Design, Academy Editions, (1996)
- Moughtin. Cliff. ET., Urban Design; Method and Techniques, Architectural Press. (1999).
- Moughtin. Cliff. ET., Urban Design; Street and Square, Third Edition, , Architectural Press. (2003).
- Moughtin. Cliff. ET., Peter Shirley, Urban Design; Green Dimensions, Second Edition, Architectural Press. (2005).

<ul> <li>Alexander, Christopher, A. Neis, H. Anninou, A., and King, I., A New Theory of Urban Design, Oxford: Oxford University Press, (1987)</li> </ul>				
Indicative learning and teaching time (10 hrs per credit):	Activity			
1. Student/tutor interaction:	Tutorials, seminars and workshops, juries, study trips, mid-year and end of year presentations and exhibitions, (140 Hours)			
2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)			
Total hours (1 and 2):	300 Hours			
Module Title:	Module Code: EG0422 / AR4102		Module Leader:	
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Building Technology and Materials (2)	Level: 4		Dr Ashraf Nessim	
	Level: 4			
	Credit: 30			
	ECTS credit: 15			
<b>Pre-requisite:</b> EG0314 Building Technolo	gy and Materials	Pre-cursor:	Niese	
(1)			None	
Co-requisite:		Excluded comb		
Location of delivery: Ain Shams Univer	None rsity Campus		None	
		-		
Main     Draw and specify the different con	n aim(s) of the mod		nes of doors and	
windows (timber / wood joinery / M		or the unerent ty		
<ul> <li>Deal with external / internal treatment</li> <li>high –tech. materials;</li> </ul>	ents & finishing thro	ugh the use of diff	erent & contemporary	
<ul> <li>Choose sustainable materials &amp; ex</li> </ul>	xecution techniques.			
Integrate relationship of structure,			lements into design	
<ul><li>process;</li><li>Know the principles of building tec</li></ul>	hnologies. structure	& construction me	ethods. technical	
installations, properties of material	Is, and the way they	may influence des		
<ul> <li>Produce professional workshop ar</li> <li>Provide a general knowledge about</li> </ul>			natorials and their	
properties				
Applications of Solar Thermal Tec Technologies and Energy Efficiency			CSP) and Photovoltaic	
Technologies and Energy Efficien	cy and improvement	or Energy Use.		
Main topics of study:				
Building Technology (2)				
Renewable Energy and Buildings	Renewable Energy and Buildings			
Principles of Sustainable Architecture				
Learning Outcomes for the module				
At the end of this module, students will be able to:				
1. Illustrate the basic concepts and theor				
	works, engineering projection and their applications within the field of environmental Engineering; 2. Demonstrate competence in identifying, defining and solving environmental building technology			
related problems;		-		
	$\mathbf{J}_{\mathbf{r}}$			
<ul><li>engineering and construction technology</li><li>Use appropriate environmental techniques and materials to specify and implement different designs</li></ul>				
to achieve sustainable measures				
5. Think in terms of three-dimensional aspects and integrate systems & technologies with innovation and creativity in the exploration of design, to achieve target sustainable measures.				
6. Generate new architectural forms and design solutions of real environmental problems.				
7. Apply protection measures and materials to protect building against surrounding environmental aspects.				
8. Illustrate the basic concepts and theories of renewable energy and their applications within the field			lications within the field	
	of environmental Design. 9. Illustrate the significance of energy saving and the relation between human behaviour, built			
environment and natural environment	environment and natural environment			
10. Develop the ability of time planning and decision making				
Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:				

#### For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module; please define as necessary:	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	100%	All

#### Reading and resources for the module:

Core

- Wakita, O. A., "The Professional Practice of Architectural Working Drawings", 4th. Edition, Wiley Higher Education, ISBN: 978-0-471-39540-9 (2011)
- Ching, F. and Cassandra A., "Building Construction Illustrated", 5th. Edition, John Wiley & Sons Inc., Hoboken, New Jersey, (2014) ISBN-13: 978-1118458341
- Bryan, T., "Construction technology: Analysis and Choice", 2nd. Edition, Wiley Blackwell Pub, (2010), ISBN-13: 978-1405158749
- Wakita, O., 2011. *The Professional Practice of Architectural Working Drawings.* 4 ed. s.l.:Wiley Higher Education.
- Kishore, V. V. N., ed. Renewable energy engineering and technology: principles and practice. The Energy and Resources Institute (TERI), 2010.
- Steele, J. (1997). Sustainable architecture. New York: McGraw-Hill.
- Sassi, P. (2015). Strategies for sustainable architecture. [Place of publication not identified]: Routledge.

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- Anon., 2010. Construction Technology: Analysis and Choice. 2 ed. s.l.: Wiley Blackwell Pub.
- Ching , F. & Cassandra, A., 2014. *Building Construction Illustrated.* 5 ed. New Jersey: John Wiley.
- Foster, J. & Greeno, R., 2006. *Mitchell's Building Construction: Part 1, Structure and Fabric.* London: Longman.
- Foster, J. & Greeno, R., 2006. *Mitchell's Building Construction: Part 2, Structure and Fabric.* London: Longman.
- The Regional Center for Renewable Energy and Energy Efficiency (RCREEE) http://www.rcreee.org/publications

• Kao, J., Sung, W. & Chen, R., 2014. *Green Building, Materials and Civil Engineering.* s.l.:CRC Press.

Indicative learning and	Activity
teaching time	300 hours of directed and self-directed study as described below
(10 hrs per credit):	
1. Student/tutor interaction:	Tutorials, seminars and workshops, juries, study trips, mid-year and end
	of year presentations and exhibitions, (140 Hours)
2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)
Total hours (1 and 2):	300 hours
. ,	

• Zhang, H., 2011. Building Materials in Civil Engineering. s.l.:Elsevier.

Module Title:			Module Leader:		
Architectural Design Studio (2)	Level: 4		Dr Abeer ElShater		
	Credit: 30				
	ECTS credit: 15				
Pre-requisite: EG0312 Architectural Des	sign Studio (1)	Pre-cursor: No	ne		
Co-requisite:		Excluded comb	pinations:		
Location of delivery: Ain Shams Unive	rsity Campus				
Mair	n aim(s) of the modu	ıle:			
This module focuses on the process of designing one or more building projects that are clearly integrated into an existing context while considering climatic issues. This is done through the introduction of more complex criteria than at the previous level, and anticipates a higher level of spatial and material resolution. Students are expected to identify relevant contemporary methodologies in environmental architecture and urbanism, knowing the ecology and environmental management principles relevant to architecture and urbanism.					
N	Main topics of study:				
Environmental Architectural Desig	ın (1)				
Environmental Architectural Desig					
Ecological Landscape					
Learning Outcomes for the module					
At the end of this module, students will be	able to:				
1. Relate different architectural funct			to consideration the		
environmental behaviour of the will 2. Identify appropriate forms and stru			al functions and		
environmental aspects.					
<ol> <li>Find problem solutions and develor environmental contexts (natural, r</li> </ol>					
learning and teaching modes.		,	C C		
<ol> <li>Define principles of sustainability in landscape and the related environmental management systems.</li> </ol>					
5. Identify different sustainable materials for urban landscape.					
<ol><li>Apply site analysis findings and buildings code to proper design with respect of all environmental contexts (natural, man-made and human) in a positive contribution to them.</li></ol>					
<ol> <li>Integrate relationships of environmental aspects, structure systems, construction elements and building materials into design process.</li> </ol>					
<ol> <li>8. Solve technical constrains in designed.</li> <li>9. Design environmental architecture</li> </ol>	8. Solve technical constrains in design to corresponding functional requirements				
landscape elements in a specific context 10. Produce and present architectural design projects using an appropriate range of media and design-based software.					

#### For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: 1 Midterm Exam Final Exam	100%	All

#### Reading and resources for the module:

Core

- Ernst Neufert, Peter Neufert, Bousmaha Baiche & Nicholas Walliman, (2002), "Architects' Data (3rd Edition)", Blackwell Publishing L imited, ISBN: 0632057718.
- J.Chiara & J.Callender, (1983), "Time Saver Standards for Building Types", McGraw-Hill, USA.
- Ching, Francis D.K., "Architecture: Form, Space and order", Wiley, ISBN: 0471286168 (1996)
- Hellmund, Paul Cawood, Smith, Daniel Somers. Designing Greenways: Sustainable Landscapes for Nature and People. Washington, D.C.: Island Press, 2006

- Bentley, Alcock, Murrain, Mcglynn, and Smith, Responsive Environments, A Manual for designer, Butterworth Architecture, (1985).
- Steele, J. (1997). Sustainable architecture. New York: McGraw-Hill

Indicative learning and teaching time	Activity
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(10 hrs per credit):	
1. Student/tutor interaction:	Tutorials, seminars and workshops, juries, study trips, mid-year and end of year presentations and exhibitions, (140 Hours)
2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)
Total hours (1 and 2):	300 Hours

Module Title:			<b>Module Leader</b> : Dr Ashraf Nessim		
Technical Studies in Architecture (1)	Level: 4	Level: 4			
	Credit: 30				
	ECTS credit: 15				
Pre-requisite: None		Pre-cursor: No	ne		
Co-requisite:		Excluded comb	pinations:		
Location of delivery: Ain Shams Univ	versity Campus	L			
Ma	in aim(s) of the modu	le:			
keep pace with their growing knowledg necessary skill for designing an adequa lighting evaluation, whether related to th The module aims to assist the student in competent, sustainable designs and pre	This module aims to develop a student's repertoire of conceptual, practical and technical skills that can keep pace with their growing knowledge of architectural design. In this regard, drawing ability is a necessary skill for designing an adequate Architectural space, in terms of Acoustic comfort and day lighting evaluation, whether related to the selection inner layer materials or separating building fabrics. The module aims to assist the student in beginning to understand how to achieve structured, technically competent, sustainable designs and prepare them with the knowledge and skills to engage with the technical demands of the systems of their design projects and learn about structure safety requirements.				
Main topics of study: <ul> <li>Acoustics in Architecture</li> <li>Lighting in Architecture</li> <li>Reinforced Concrete Structures</li> <li>Green Infrastructure</li> </ul>					
Learning Outcomes for the module					
At the end of this module, students will b	be able to:				
<ol> <li>Assess the acoustical environments</li> <li>Modify the materials within the second second</li></ol>	the rooms to be in line y oment to assess the ac day lighting, artificial li es and landscape lighti ting technique and des een infrastructure plant s of water supply works protection systems, in c	with acoustic requ oustical environm ighting design, an ing design. sign the lighting for ning and network s and distribution is compliance with er	irements. ent within the rooms. d the fundamentals of r an architectural design. networks, waste water nvironmental basics and		
10. Design and calculate require					

#### For on campus students:

This module focuses on two important modes of learning, on the one hand the process of constructing coherent and usable principles or bodies of knowledge, on the other, seeing first-hand how these principles are enacted.

In the technology component, the learning and teaching is organised around a series of lectures in three separate areas introducing Acoustics and Lighting in Architecture. The lectures are supplemented by practical 'workshops' that engage the students, often working in groups, in the different subject areas through active learning and problem solving.

It is taught in the form of

- lectures
- seminars and workshops
- practice visits and field trips
- precedent studies
- attendance at trade fairs and exhibitions
- tutorials and using on-line resources

Assessment is through the submission of illustrated reports and precedent studies. Students receive regular formative feedback throughout the process before the official hand-in and marking process takes place.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated
Portfolio of students' work includes a compilation of coursework		
of the packed ASU courses;		
Each ASU Course component would include samples of the		
following:	100%	All
Activities/Assignments	100 %	All
2 Quizzes		
1 Midterm Exam		
Final Exam		

#### Reading and resources for the module:

Core

- Rea, M.; "The IESNA Lighting Handbook: Reference and Application", 9th Edition, Publication Department, the Illuminating Engineering Society of North America (IESNA), New York, 2000
- The Institution of Lighting Engineers; "The Outdoor Lighting Guide", Taylor and Francis Group, London, 2005
- Egan, M. David, "Architectural Acoustics", McGraw Hill book company, 1988.
- Benedict, Mark A. and McMahon, Edward T. Green Infrastructure: Linking Landscapes and Communities. (Island Press, 2006)
- McCormac, J. & Nelson, J., 2005. Design of Reinforced Concrete. 6 ed. s.l.: John Wiley.

- Ching, Francis D.K. (2007) Building Construction Illustrated. London: John Whiley and Sons
- Alfred Meistermann, (2007), Loadbearing Systems, Birkhauser
- Bean, R.; "Lighting: Interior and Exterior", Architectural Press, Elsevier, Oxford, 2004.
- Brandi, U., and Brandi, C.G.; "Light for Cities: Lighting Design for Urban Spaces A Handbook", Birkhauser - Publishers for Architecture, Berlin, 2006
- Jankowski, W.; "Lighting: Exteriors and Landscape", PBC International Inc., New York, 1993

- Hassoun, M. & Al-Manaseer, A., 2015. Structural Concrete: Theory and Design. s.l.: John Wiley		
Indicative learning and teaching time (10 hrs per credit):	Activity	
1. Student/tutor interaction:	Lectures, seminars and workshops, building visits, precedent studies, tutorials (160 Hours)	
2. Student learning time:	Seminar preparation, self-directed research, making and testing, jury and presentation preparation, precedent studies, attendance at trade fairs and exhibitions, using on-line resources and tutorials (140 Hours)	
Total hours (1 and 2):	300 Hours	

Module Title:	Module Code: EG0531 / AR5103		Module Leader:	
Principles of Law and Project Evaluation			Dr Tamer Samir	
	Level 5			
	Credit: 15			
	ECTS credit: 7.5			
Pre-requisite: None		Pre-cursor: No	ne	
Co-requisite: None		Excluded comb	uded combinations: None	
Location of delivery: Ain Shams Unive	rsity Campus			
Mai	n aim(s) of the mod	ule:		
The module aims at developing and applying theory and critical thinking to contemporary issues and practices the area of international and local human rights. It also shed the light on the Human rights in the field of Engineering and how it should influence the working environment. In the second topic of the module, the focus is more on the field of Architecture (specialization pathway) and it discusses the theoretical background of an architectural end-product within its context, and relevant architectural discourse. The notion of conceptualization will be given for encouraging the students for using architectural criticism as a tool for producing new ideas or creating products. The importance of re-reading of an architectural end-product for a better comprehension and evaluation will be emphasised. Principles of architectural criticism and techniques of evaluating projects are discussed.				
Main topics of study:				
Principles of Law and Human Rights (Wider Scope)				
<ul> <li>Principles of Criticism and Project OR:</li> </ul>	Evaluation in the Arc	chitecture Field (N	larrower Scope)	

• Urban and Architectural Heritage

#### Learning Outcomes for the module

At the end of this module, students will be able to:

- 1. Demonstrate a critical awareness of knowledge, current problems and new insights of the field of international human rights, and evaluate and apply about the human rights in the field of engineering as well
- 2. Apply intellectual and subject/professional skills to open-ended discussions on the topic and communicate results in appropriate style
- 3. Learn interdependently and independently and accept responsibility for subsequent career and continuing professional development, appropriate to the topics
- 4. Apply intellectual and subject/professional skills to open-ended discussions on the topic and communicate results in appropriate style

In Case of Principles of Criticism and Project Evaluation in the Architecture Field:

- 5. List the principles of architectural criticism and Explain architectural theoretical approaches and thoughts.
- 6. Identify environmental problems: subsoil water, air pollution, visual pollution, misuse of buildings and spaces, negligence and lack of maintenance
- 7. Analyze different ideas related to architectural concept evaluation.
- 8. Use the tools of creative thinking to criticize and evaluate architectural products.

In Case of Urban and Architectural Heritage:

- 9. Gain insight into the principles of preservation and techniques of restoration for architectural heritage
- 10. Develop Criteria for classifying and documenting urban and architectural heritage

Teaching/ learning methods/strategies used to enable the achievement of learning outcomes: For on campus students:

-Tutorials and lectures (Engaging the students in multiple discussions on the topics of the module)

- Research assignments (prepare individually or in groups comprehensive research on the studied topics)

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Einal Exam	100%	All

Final Exam

Reading and resources for the module:

These must be up to date and presented in correct Harvard format unless a Professional Body specifically requires a different format

Core

**1-** Employment law and human rights. 2nd ed. Oxford: Oxford University Press, 2007, by Allen, R. Crasnow, R. & Beale, A.

2- International human rights. Oxford: Oxford University Press, 2012, by Alston, P, Goodman, R.

**3-** Essays in Architectural Criticism: Modern Architecture and Historical Change Paperback – August 28, 1985, by Alan Colguhoun (Author), Kenneth Frampton (Preface)

4- Why Architecture Matters (Why X Matters Series) Mar 29, 2011, by Paul Goldberger.

#### Recommended

1- Human Rights Law. 2nd edition, Oxford: Hart Publishing, 2014, by Amos, M.

**2-** Measurement framework for equality and human rights. Manchester: Equality and Human Rights Commission, 2017, by Equality and Human Rights Commission

**3-** Human rights in the community: rights as agents for change. Oxford: Hart Publishing, 2005, by Harvey, C.,

**4-** Essays in Architectural Criticism: Modern Architecture and Historical Change. JAE, 36(1), p.54, 1982, by Wishne, B. and Colquhoun, A.

**5-** Architectural criticism and journalism: global perspectives: proceedings of an international seminar organised by the Aga Khan Award for Architecture in association with the Kuwait Society of Engineers, 6-7 December 2005, Kuwait. Turin, Italy, Umberto Allemandi & C. for Aga Khan Award for Architecture, 2006, by AL-ASAD, M., & MUSA, M.

Indicative learning and teaching time (10 hrs per credit):	Activity	
1. Student/tutor interaction:	<ul> <li>Group research</li> <li>Participation in</li> </ul>	rch assignment (presentation) assignment (presentation) class
	Total	90 hours
2. Student learning time:	reflections, etc	vork/ research/ group work/ readings and
	Total	60 hours
Total hours (1 and 2):	150 hours	

Module Title: Tendering, and	Module Code: EG	<b>0532</b> / AR5104	Module Leader:
Execution Documents	Level 5		Dr Ashraf Nessim
	Credit: 30		
	ECTS credit: 15		
Pre-requisite: None		Pre-cursor: No	ne
Co-requisite: None		Excluded com	pinations: None
Location of delivery: Ain Shams Univer	rsity Campus		
Main	n aim(s) of the mod	ule:	
Duthe and of the source the student r	wat ha able to		
By the end of the course the student n <ul> <li>Assess the required prelim</li> </ul>		drawings	
<ul> <li>Differentiate between the s</li> </ul>	copes of work of the	different enginee	
<ul> <li>Design and implement arch</li> <li>Develop the student's abilit</li> </ul>			
project with emphasis on ho	ow to put a building to	gether. Specific fo	ocus is on base drawings,
material finishes, structure architectural work, in addition			
studies of site and landsca			detailing and preiminary
Produce professional work			a di sa sta da ta sa sa ta sata sa
<ul> <li>Provide an overview of the</li> <li>Introduce the behaviour a</li> </ul>			
states design concept.			
N	lain topics of study	:	
Working Drawings (1)			
<ul> <li>Working Drawings (2)</li> <li>Steel Structures</li> </ul>			
Steel Structures			
Learning Outcomes for the module			
At the end of this module, students will be			
<ol> <li>Relate the conceptual archited</li> <li>List the different types of system</li> </ol>			
3. Match different systems (struc			
requirements for a specific pro	oject		
4. Develop the required prelimina buildings.	ary working drawings	s for small and me	edium scale types of
5. Design the required details for			
6. Prepare a complete set of dra			
<ol> <li>Outline a suitable contract agr</li> <li>Prepare a correct consultation</li> </ol>			
FIDIC.			Ū
<ol> <li>Analyse the architectural projet</li> <li>Propose a structural concept a</li> </ol>			
and current code requirement	s to the analysis and		
columns, beam-columns and o	connections		
Teaching/ learning methods/strategies	used to enable the	achievement of	earning outcomes:
For on campus students:	n this source: Face	to Enno Classes	the equired is structured
There are three aspects to the teaching i around a weekly lecture, tutorials and pe lectures will range in theme, but are design	rsonal support face-	to-face at specifi	c times in the labs. The

trends in Tendering, and Execution Documents' disciplines. The lab tutorial classes will aid about project work, etc. On-line Resources: Moodle is used in this course to provide the learning resources and general course management. Homework: students are required to complete a steady stream of work each week outside classes. A set of demonstration videos are available to provide students with self-directed quide.

		on anootoa galaoi
Assessment methods which enable students to demonstrate the	Weighting:	Learning
learning outcomes for the module:		Outcomes
For on Campus Students		demonstrated:
Portfolio of students' work includes a compilation of coursework of the		
packed ASU courses;		
Each ASU Course component would include samples of the following:		
Activities/Assignments	100%	All
2 Quizzes		
1 Midterm Exam		
Final Exam		

#### -inai exam

#### Reading and resources for the module:

Core

#### a. Essential books (text books)

- The Professional Practice of Architectural Working Drawings, Third Edition, Osamu A. Wakita, Richard M. Linde, John Wiley & Sons, Inc., New York, 2003
- W.B. McKay, "Building Construction" LONGMANS.
- Mitchell's, "Building Construction" B.T.BATSFORD ltd, London.
- Sleeper, Ramsey Wiley, "Architectural Graphical Standards".
- Naasar: Gamal EI-Din, Arabic translation of conditions of contract for construction for building and engineering works designed by the employer, guidance for the preparation of particular conditions, forms of letter of tender, contract agreement and dispute adjudication board, 2001
- Building Law No.119 Est. 2008 2009
- Egyptian Code for design principals and construction conditions for buildings fire protection (Part 1)
- Deplazes, A. ed. (2005) Constructing Architecture: Materials, Processes, Structures, a Handbook. Basel, London: Birkhäuser.
- Lam, D., Ang, T-C. and Chiew, S-P, Structural Steelwork: Design to Limit State Theory, 3rd Edition, Butterworth-Heinemann Ltd.
- Morris, L. J. & Plum, D. R., Structural Steelwork Design to BS 5950, 2nd Edition, Prentice Hall.
- Nethercot, D. A., Limit States Design of Structural Steelwork, 3rd Edition, Spon Press.
- Gardner, L. and Nethercot, D. A., Designer's guide to Eurocode 3: Design of steel structures, Thomas Telford Limited, 2005
- Eurcode 3: Design of steel structures general rules and rules for buildings

#### b. Periodicals, Web sites, ... etc

Sweets - McGraw Hill Construction - http://products.construction.com/

Indicative learning and teaching time (10 hrs per credit):	Activity
1. Student/tutor interaction:	Lectures, tutorials, project supervision, practical classes and workshops, supervised time in studio/workshop, work based learning 200 hours
2. Student learning time:	Seminar reading and preparation/assignment preparation/ background reading/ on-line activities/group work/portfolio/diary preparation, unsupervised studio work 100 hours
Total hours (1 and 2):	300 hours

Module Title: Architectural Design	Module Code: EG	<b>0533</b> / AR5105	Module Leader:	
Studio (3)	Level 5		Dr Sabah Soliman	
	Credit: 30			
	ECTS credit: 15	Pre-cursor: No		
Pre-requisite EG0432 Architectural Des	sign Studio (2)	Pre-cursor: No	ne	
Co-requisite: None		Excluded comb	pinations: None	
Location of delivery: Ain Shams Unive	rsity Campus			
Mai	n aim(s) of the mod	ule:		
Students taking this course should le	arn the principles an	d theories of urba	an design and their inter-	
relation with the surrounded urban				
underlying principles of sustainable d				
issues and design processes that ena will develop an understanding of the c				
have evolved over time. The course				
students understand the scope of				
sustainable design by examining the i processes. This course also examin				
energy efficiency, public policy, indoc				
n	Main topics of study	:		
Sustainable Architectural Design Studio (1)				
Sustainable Architectural Design Stud	Sustainable Architectural Design Studio (2)			
Eco Urban Design (2)				
Learning Outcomes for the module				
At the end of this module, students will be	able to:			
1. Demonstrate competence in unde		able architecture	strategies and in	
identifying, defining and solving en	nvironmental design	oroblems		
<ol> <li>Utilize the awareness of internation understanding of the strategies su</li> </ol>			es in deepening the	
3. Conduct research, prepare and gi			s of environmental and	
sustainable architecture. 4. Apply the understanding of ecolog	nical, social and econ	omic principles of	sustainable	
architecture in their produced des	igns			
5. Evaluate the performance of different environmental guality)	rent buildings regardi	ng (energy efficie	ncy and indoor	
6. Illustrate design concepts in harm	ony with function and	l perceptual		
7. Solve technical constrains in design	gn to corresponding f	unctional requirer		
<ol> <li>Design medium size Architecture</li> <li>Integrate systems &amp; technologies</li> </ol>				
achieve sustainable architecture t	hrough different appr	oaches	plotation of design, to	
10. Demonstrate successful physical	and digital model ma	king skills.		
Teaching/ learning methods/strategies	used to enable the	achievement of I	earning outcomes:	
For on campus students:				

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

	methods which enable students to demonstrate the comes for the module: ous Students	Weighting:	Learning Outcomes demonstrated:
packed ASU Each ASU Co	burse component would include samples of the following: indicating project progress	100%	All
-	resources for the module:		
Core •	[1] Carmona, Matthew, Taner Oc. Et all, Public Places - Urban Spaces: The Dimensions of Urban Design, Boston : Architectural Press, (2003).		
•	[2] Bentley, Alcock, Murrain, Mcglynn, and Smith, Responsive Environments, A Manual for designer, Butterworth Architecture, (1985).		
•	• [3] Steele, J. (1997). Sustainable architecture. New York: McGraw-Hill.		
•	<ul> <li>[4] Sassi, P. (2015). Strategies for sustainable architecture. [Place of publication not identified]: Routledge.</li> </ul>		bublication not
	<ul> <li>[5] Rettenwender, T. and Spitz, N. (2009). The principles of green building design. [Monterey, Calif.]: [Monterey Peninsula College].</li> <li>[6] [Ching, Francis D.K., "Architecture: Form, Space and order", Wiley, ISBN:</li> </ul>		0

- 0471286168 (1996)
- [7] Ernst Neufert, Peter Neufert, Bousmaha Baiche & Nicholas Walliman, "Architects' Data (3rd Edition)", Blackwell Publishing Limited, ISBN: 0632057718 (22002)

- [1] Gosling, David, Gordon Cullen: Visions of Urban Design, Academy Editions, (1996)
- [2] Moughtin. Cliff. ET., Urban Design; Method and Techniques, Architectural Press. (1999).
- [3] Moughtin. Cliff. ET., Urban Design; Street and Square, Third Edition, , Architectural Press. (2003).
- [4] Moughtin. Cliff. ET., Peter Shirley, Urban Design; Green Dimensions, Second Edition, Architectural Press. (2005).

<ul> <li>Design, Oxford: Ox</li> <li>[6] Krier, Robert, U</li> <li>[7] Jon Lang (2005) PRODUCTS, Illust Design Programme</li> <li>[8] Bauer, M., M'slearchitecture, New</li> <li>[9] Kibert, C. J. (20) Edition, Hoboken:</li> </ul>	07) Sustainable architecture: Principles, paradigms, and case studies,
Indicative learning and teaching time	Activity
(10 hrs per credit):	
1. Student/tutor interaction:	Lectures, tutorials, seminars and workshops, juries, study trips, mid-year and end of year presentations and exhibitions, (140 Hours)
2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)
Total hours (1 and 2):	300 Hours

	e Title: cal Studies in Architecture (2)	Module Code: EG Level 5	0534 / AR5106	<b>Module Leader:</b> Dr Tamer Samir
		Credit: 30		
		ECTS credit: 15		
Pre-re	quisite: EG0424 Technical Studie		Pre-cursor:	
(1)			None	
		None	<b>_</b>	
Co-rec	quisite:	None	Excluded comb	None
Locati	on of delivery: Ain Shams Unive			None
	-			
		n aim(s) of the mod		
•	To prepare architecture students v		nd skills to engag	e with the technical
	demands of the systems of their d Integrate ecological urban design			
•	To enhance student abilities to use	-	•	elling form generation
	and the analysis and evaluation of			ching, form generation,
•	To give students a practical, hand	-		omputer-based
	techniques for the documentation	and modelling of des	signed structures	
•	To reflect on the capabilities of the			S.
_		lain topics of study	:	
	o Urban Design (1)			
	odelling of the Built Environment search & Analysis Skills			
•	Search & Analysis Skills			
Learni	ng Outcomes for the module			
	end of this module, students will	be able to:		
		the shale size in survive		
1.	Identify relevant contemporary me	•		
2.	<ol><li>Propose an environmental design strategy that relates to the sensory experience and needs of building users, and consideration of the influences of climate, form and orientation.</li></ol>			
3.				
0.	proposals.			or their doorgin
4.	Understand the concepts and proc	cesses of Building Inf	formation Modellir	ng and a wide range of
	BIM applications used in the archi			
5.	Develop design strategies to form	•	•	•
	of environmental strategies and lo		owards energy de	emand reduction and of
	methods for the quantification of b			
6.	Confidently use Building Information	on Modelling system	s for the design, d	locumentation and
7.	visualisation of buildings. Review and critically analyse key	issues offecting each	ogical urban doci	an from the sustainable
/.	perspective	issues allecting econ	ugical ulbali desi	git from the sustainable
8.	Carry out a design analysis proces	ss hased on a RIM m	ndel of a building	design to measure
0.	some aspects of the anticipated p			
	opportunities and challenges face			
9.	Share ideas, collaborate and com	municate effectively		-
	ing/ learning methods/strategies	used to enable the	achievement of I	earning outcomes:
For on	a campus students:	avalain theoretical h	ackaround of role	ted topics and ovalain
-	Lectures delivered on Campus, to basic methodology for analysis an		ackyrounu or rela	
-	Tutorials and Computer Lab work		ctures where more	e application is
	introduced. They will include pract			
	project work to check understanding	ng and application of	theories through	out the module.

	enable students to demonstrate the odule; please define as necessary:	Weighting:	Learning Outcomes demonstrated:
	des a compilation of coursework of the		
packed ASU courses;			
•	would include samples of the following:	1000/	
Activities/Assignments		100%	All
2 Quizzes			
1 Midterm Exam			
Final Exam Reading and resources for th	o modulo:		
Core	e module:		
<ul> <li>Pelsmakers, S. (2012)</li> <li>Duerksen, Christopher Land Use Planning. (Is</li> <li>Flannery, J. A. &amp; Smith</li> <li>Gravitt, D. (2012). Eco</li> <li>Birkeland, Janis. Desi Routledge, 2012.</li> </ul>	, K. M. (2011). Eco-urban design, Spring Urban Design. Taylor & Francis. gn for sustainability: A sourcebook of i	London: RIBA munities, Habi er Science & B ntegrated ecol	tat Protection and Business Media. logical solutions.
	chitecture in existing Fabric: Planning Des , P. (2013) Introduction to Architectural To		
<ul> <li>Report. Eastman, C, Te Building Information Me Australia, John Wiley 8</li> <li>Kwok, A. and Grondzik Schematic Design 2nd</li> </ul>	, W. (2011) The Green Studio Handbook ed. Architectural Press.	s, Engineers, a	and Contractors,
Indicative learning and	Activity		
teaching time	300 hours of directed and self-directed s	study as descri	bed below
(10 hrs per credit):			the share state
1. Student/tutor interaction:	200 hours: Lectures, tutorials, project su workshops, supervised time in studio/wo		
2. Student learning time:	100 hours: Private study / progressive p	roject / take ho	ome assignments
Total hours (1 and 2):	300 hours		

Module Title:	Module Code: EG	0535 / AR5107	Module Leader:	
Real Estate Management and Development	Level 5		Dr Abeer ElShater	
	Credit: 15			
	ECTS credit: 7.5			
Pre-requisite: None	ECTS credit. 7.5	Pre-cursor: No	ne	
Co-requisite:		Excluded com	pinations:	
Location of delivery: Ain Shams Unive	reity Compus			
		-		
Mair	n aim(s) of the modu	ıle:		
This module is intended to provide introd				
urban planning. It explains concepts, feat interrelationships between socio-cultural of				
rehearse the basics of urban design theor				
and influences of surrounding urban conte				
of a personal position and working method also develops the significance of environm				
of comfort and behaviour, built environment				
By the end of the course the students will	be able to:			
<ul> <li>Enhancing the student's general av</li> </ul>	wareness of sustaina	able human settle	ements, the relationship	
<ul> <li>between economy, ecology and equ</li> <li>Understand the basic objectives, cha</li> </ul>		nte for the sustair	able development	
<ul> <li>Enabling students to identify the target</li> </ul>				
and calculate the housing programm				
<ul> <li>Enabling students to respond to hur specific socio-cultural data</li> </ul>	man needs of target	dwellers in housi	ng design, in the light of	
M	lain topics of study:			
Sustainable Urban Landscape				
Housing Studies and Design				
Learning Outcomes for the module				
At the and of this madule students will be	able to:			
At the end of this module, students will be 1. Find problem solutions and develo		fferent site bound	aries and	
environmental contexts (natural, n				
	learning and teaching modes. 2. Define principles of sustainability in landscape and the related environmental management			
systems.	·		C C	
<ol> <li>Identify different sustainable mate</li> <li>Recognise the process of housing</li> </ol>			pe.	
5. Design residential units of various				
6. Design a sustainable housing proj			nlinonytoom	
7. Share ideas, collaborate and com	municate enectively		pinary team	

#### For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	100%	All

### Reading and resources for the module: Core

0010

- Forbes, D. & Geoff, P., 'Urban projects manual', Liverpool University press, 1996.
- Geoff, P.. 'low income housing in the developing countries', Liverpool University press, 1986.
- Bechtel, R. E., & Churchman, A. Handbook of Environmental Psychology. NY, USA: Wiley and Sons, 2002
- Birkeland, Janis. Design for sustainability: A sourcebook of integrated ecological solutions. Routledge, 2012.
- Bentley, Alcock, Murrain, Mcglynn, and Smith, Responsive Environments, A Manual for designer, Butterworth Architecture, (1985).

- Cieraad, I. 'At Home: An Anthropology of Domestic Space', Syracuse: Syracuse University Press.
- Moughtin. Cliff. ET., Peter Shirley, Urban Design; Green Dimensions, Second Edition, Architectural Press. (2005).

Indicative learning and teaching time	Activity
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(10 hrs per credit):	
1. Student/tutor interaction:	90 Hours: Tutorials, seminars and workshops, juries, study trips, mid- year and end of year presentations and exhibitions,
2. Student learning time:	60 Hours: Studio work, research, fieldwork, group work, portfolio work
Total hours (1 and 2):	<b>150 Hours</b> Studio and project work, research, fieldwork, group work, portfolio preparation

#### Architecture Track

Module Title:		Module Code: EG	1641	Module Leader:	
Architectural Design S	Studio (4)			Prof. Mostafa Refat &	
		Level: 6		Prof. Marwa Khalifa	
		Credit: 30			
		ECTS credit: 15			
Pre-requisite: EG0	533 Architectural Des	ign Studio (3)	Pre-cursor: No	ne	
Co-requisite:	Decian and Contact	ual Studios	Excluded comb	pinations:	
EG1642 Architectural EG1643 Architectural					
EG1644 Technical St					
Location of delivery	Location of delivery: Ain Shams University Campus				
	Main	aim(s) of the modu	ıle:		
principles in the stud sustainable building comprehensive studio system selection, and environmentally soun	lio sequence. It is in concepts, green o design project will I integration of techno d and comprehensive	ntended to be a de architecture strate encompass site an ology to create work e. Students will deve	esign studio focus egies, and syst id environmental is that are functio elop integrated de	ecological urban design sing upon the study of ems development. A planning, material and nally, aesthetically, and sign solutions in public, ext and the surrounded	
<ul> <li>Enhancing the s built environmer</li> <li>Enhancing the economic and e</li> <li>Identify key lear from observati environmentally standard classif</li> <li>Prepare and pr</li> </ul>	<ul> <li>By the end of the course the students will be able to:</li> <li>Enhancing the student's general awareness of sustainability and ecological design principles in the built environment and acquired conceptual and hands-on knowledge about sustainable architecture</li> <li>Enhancing the student's ability to understand and critically assess sustainability as a cultural, economic and environmental phenomenon</li> <li>Identify key learning resources from existing sources and datasets as well as collect numerical data from observations, measurements, surveys and technical studies to create innovative environmentally friendly architecture solutions and approaches using established principles and standard classification and benchmarks</li> <li>Prepare and present projects of diverse scale and, complexity, and type in a variety of contexts, using a range of media, and in response to brief and real context</li> </ul>				
	M	ain topics of study:			
Sustainable A	Architecture Design (3	3)			
	ban design in practice	,	od)		
Execution Do	cuments				
Learning Outcomes	for the module				
•	•	•	•	s components including an essentially cross-	
	ry challenge		interret i t		
innovatio	n and creativity in	•		ns & technologies with eve target sustainable	
3. Develop		o formulate offective	alv solutions the	ough the architectural	
integratio	• •	strategies and low-e	nergy systems to	wards energy demand	

- 4. Use appropriate tools and techniques to analyse the nature of a particular urban site and to devise a particular programme of use in order to prepare designs for an urban building.
- 5. Use appropriate environmental control techniques and materials to specify and implement different designs to achieve sustainable measures.
- 6. Review and critically analyse key issues affecting ecological urban design from the sustainable perspective
- 7. Generate new architectural forms and design solutions of real environmental problems
- 8. Contribute positively and constructively to group work, being able to adopt a leadership role as well as being an effective team player.
- 9. Outline a suitable contract agreement and guarantee against construction flaws.
- 10. Analyse the architectural project legality considering local building codes and legislations.

#### For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: submissions indicating project progress 1 Midterm Exam Final Exam	100%	All

Reading and resources for th	ne module:
Core	
-	The sustainable sites handbook: A complete guide to the principles, I best practices for sustainable landscapes. John Wiley & Sons, 2011.
- Haas, Tigran. 3 2012.	Sustainable urbanism and beyond: rethinking cities for the future. Rizzoli,
- Birkeland, Jar solutions. Rout	nis. <i>Design for sustainability</i> : A sourcebook of integrated ecological tledge, 2012.
	a, and Meredith Davey. <i>Green House, Green Engineering: Environmental</i> Idens by the Bay. Oro editions, 2012.
Media.	& Smith, K. M. (2011). Eco-urban design, Springer Science & Business
- Naasar; Gama building and er	12). <i>Eco-Urban Design</i> . Taylor & Francis. al EI-Din, Arabic translation of conditions of contract for construction for ngineering works designed by the employer, guidance for the preparation conditions, forms of letter of tender, contract agreement and dispute bard, 2001
<b>Recommended</b> - Hester, Rando	Iph T. Design for ecological democracy. Cambridge, MA: MIT press, 2006
	n, Stephan Bohle, and Robert Klanten, eds. <i>Cause and Effect: Visualizing</i> Gestalten, 2012.
	d T. Ecological and general systems: an introduction to systems ecology. Colorado, 1994.
Indicative learning and teaching time (10 hrs per credit):	Activity
1. Student/tutor interaction:	Lectures, tutorials, seminars and workshops, juries, study trips, mid- year and end of year presentations and exhibitions, (140 Hours)
2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)
Total hours (1 and 2):	<b>300 Hours</b> Studio and project work, research, fieldwork, group work, portfolio preparation

Module Title: Architectural Design and Contextual	Module Code: EG1642		Module Leader: Prof. Mostafa Refat
Studies	Level: 6		and Prof. Marwa Khalifa
	Credit: 30		
	ECTS credit: 15		
Pre-requisite: EG0533 Architectural De	sign Studio (3)	Pre-cursor:	
		<u> </u>	
Co-requisite: EG1641 Architectural Design Stud	io (4)	Excluded comb	binations:
EG1642 Architectural Design and			
EG1644 Technical Studies and Bu			
Location of delivery: Ain Shams Unive	rsity Campus		
Mai	n aim(s) of the mod	ule:	
Developing a project which is considered	as the last outcome o	of this programme	at a detailed
architectural and urban level based on a r			
Each student's project should include a te urban studies and more. The project desig			
urban planning, landscape, etc.). It should			
architectural design which is based on original	ginal and creative cor	ncept. The study o	of sustainable building
concepts, green architecture strategies, a			
understanding of these issues is gained the latest developments in the field of env			
ARCHITECTURE TRACK:	Main topics of study	:	
<ul> <li>Building Performance Simulation</li> <li>Studies and Programme of Gradu</li> </ul>	ation Project		
Graduation Project			
URBANISM TRACK:			
Sustainable Urban Mobility			
<ul> <li>Studies and Programme of Gradu</li> </ul>	ation Project		
Graduation Project	,		
Learning Outcomes for the module			
At the end of this module, students will be	able to:		
1. Integrate urban design to	ols and contemporary	/ methodologies ir	n environmental
architecture and urbanisn 2. Analyse the range of patter		at have shaned a	nd sustained cultures
and the way that they can			
3. Think in terms of three-di			
innovation and creativity i measures.	n the exploration of d	esign, to achieve	target sustainable
4. Conduct research and co	llect data from variou	s sources (field w	ork, archival records.
internet etc)		·	
5. Produce and present arch			
appropriate range of med 6. Apply appropriate mather			
<ol> <li>Apply appropriate mathematical and computer-based methods analysing environmental design problems.</li> </ol>			
<ol> <li>Demonstrate the ability to communicate ideas through the development of formal and visual communication and presentation skills</li> </ol>			opment of formal and

- 8. Contribute positively to the aesthetic, architecture and urban identity, and cultural life of the community.
- 9. Effectively manage tasks, time, and resources.

## Teaching/ learning methods/strategies used to enable the achievement of learning outcomes: For on campus students:

- Lectures to introduce the subject and present different topics.
- Technical and study comprehensive research should be developed by each student or group.
- Tutorials run separately or in parallel to the lectures. The tutorials are mainly focusing on practical applications and instant supervision.
- Students mostly work and prepare for assignments in class.
- Site visits are usually arranged separately and/or during the tutorial time.
- Class presentations, peer review, public reviews or 'juries' are the key for the assessment process.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: submissions indicating project progress 1 Midterm Exam Final Exam For the 3 modules: ARC 415 Building Performance Simulation ARC 492 Studies and Program of Graduation Project ARC 493 Graduation Project	100%	All

Reading and resources for the module:

# These must be up to date and presented in correct Harvard format unless a Professional Body specifically requires a different format

Core

- Pena, William M. & Parshall, Steven A. Problem Seeking, An Architectural Programming Primer. John Wiley and Sons, 2001.
- Brown, G. Z. & Dekay, Mark. Sun, Wind and Light-Architectural Design Strategies. John Wiley and Sons, 2014.
- Egan, M. & Olygyay, V. Architectural Lighting. McGraw Hill Book Co., 2002.
- Karlen, M. & Benya, J. Lighting Design Basics. John Wiley and Sons, 2004.
- Shrauder, D. Outdoor Lighting: Physics, Vision and Perception. Springer Science & Business Media, 2008.
- Hensher, David A & Kenneth, B. Handbook of Transport Modelling. Pergamon Press, 2000.
- Maclay, B. The new net zero: Leading-edge design and construction of homes and buildings for a renewable energy future. Chelsea Green Publishing, 2014.
- G.Kwok, Alison & T. Grondzik, Walter. The Green Studio Handbook: Environmental Strategies for Schematic Design. Routledge, 2017.

- Calkins, M. The sustainable sites handbook: A complete guide to the principles, strategies, and best practices for sustainable landscapes. John Wiley & Sons, 2011.
- Cook, M., & Garrett, D. Green Home Building: Money-saving Strategies for an Affordable, Healthy, High-performance Home. New Society Publishers, 2014.
- Bauer, M., M'sle, P. and Schwarz, M. Green building: Guidebook for sustainable architecture. New York: Springer, 2009.

- Kibert, C. J. Sustainable construction: Green building design and delivery. 2nd Edition, Hoboken: Wiley, 2007.
- Egan, M. Architectural Acoustics. McGraw Hill Book Co., 1988.

Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed study as described below
1. Student/tutor interaction:	Lectures, tutorials, project supervision, practical classes, supervised time in studio, site visits, presentations, final jury. <b>120 hours</b>
2. Student learning time:	Reading, assignment preparation, digital applications, surfing the internet, self-directed research, group work, unsupervised studio work, Field work. <b>180 hours</b>
Total hours (1 and 2):	300 Hours

Module Title:	Module Code: EG	1643	<b>Module Leader</b> : Dr Tamer Samir
Architectural Technical Studies	Level: 6		
	Credit: 30		
Pre-requisite: None	ECTS credit: 15	Pre-cursor:	
Co-requisite:		Excluded comb	pinations:
EG1641 Architectural Design Stud EG1642 Architectural Design and			
EG1644 Technical Studies and Bu	ilding Systems		
Location of delivery: Ain Shams Unive	rsity Campus		
Explaining outdoor sound propaga	<b>n aim(s) of the mod</b> ation fundamentals, a		d propagation as well as
environmental acoustics			
<ul> <li>Introducing the techniques used in</li> <li>Introducing the techniques of gree</li> </ul>	• •	•	<b>.</b>
<ul><li>economic analysis, time value of r</li><li>Describing advances of structure</li></ul>	• •	•	t Equat
			а Едурі.
n – – – – – – – – – – – – – – – – – – –	lain topics of study	:	
Outdoor Noise Propagation in Bui	It Environment		
<ul> <li>Building Life Cycle Assessment</li> <li>Economics of Green Building</li> </ul>			
Technology of Ancient Egypt			
Learning Outcomes for the module			
At the end of this module, students will be	able to:		
1. Understand fundamentals of Outd	loor sound propagation	on and atmospher	ic sound propagation.
<ol> <li>Measure and Analyze Environmental</li> <li>Learn environmental regulations,</li> </ol>		tions and how to	control sounds and
vibrations in outdoor environment	-		
<ol> <li>Apply outdoor noise mitigation stra</li> <li>Evaluating buildings life cycle cos</li> </ol>			
6. Conduct research and collect data		s	
<ol> <li>Apply and use computer-based m</li> <li>8. Estimate green building construct</li> </ol>			a value of monov and
life cycle costing.	ion techniques, buildi	ng economics, un	le value of money and
9. Learn the advances of devices an		d to construction	in ancient Egypt
10. Share ideas, collaborate and com	municate enectively		
Teaching/ learning methods/strategies For on campus students:	used to enable the	achievement of I	earning outcomes:
<ul> <li>Lectures are given about different topics</li> <li>Tutorials run in parallel to the lectures in</li> </ul>		ons are introduce	d.
A technical comprehensive research sho			
course objectives. • Site visits are usually arranged separate	<ul><li>course objectives.</li><li>Site visits are usually arranged separately and/or during the tutorial time.</li></ul>		
Class presentations, peer review, public			it process.

	enable students to demonstrate the odule; please define as necessary:	Weighting:	Learning Outcomes demonstrated:
packed ASU courses;	udes a compilation of coursework of the would include samples of the following:	100 %	All
Reading and resources for t These must be up to date an specifically requires a differe Core	d presented in correct Harvard format	unless a Prof	essional Body
<ul> <li>and Construction: A state-</li> <li>Nicholson, Paul T., and Iau University Press, 2000.</li> <li>Kibert, Charles J. Sustaina 2016.</li> </ul>	huurmans, and Suzy Edwards, eds. <i>Life-Coorthe-art report, 2003</i> . Setac, 2003. In Shaw, eds. <i>Ancient Egyptian materials a</i> Stable construction: green building design and ding costs and financial benefits. Boston: I	and technology	<ul> <li>Cambridge</li> <li>hn Wiley &amp; Sons,</li> </ul>
<ul> <li>Egan, M. David, "Architect</li> </ul>	tural Acoustics'', McGraw Hill book compa	ny, 1988.	
	(2006). A companion to urban economics ction to urban economics. New York: Acac		Blackwell Pub.
Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed s	study as descri	ibed below
1. Student/tutor interaction:	lectures, tutorials, fieldwork, external vis	sits	
	160 hours		
2. Student learning time:	reading and preparation, assignment pr group work	eparation, on-li	ine activities,
	140 hours		

300 hours

Total hours (1 and 2):

Module Title:	Module Code: EG	1644	Module Leader:		
Technical Studies and Building Systems	Level: 6		Dr Tamer Samir		
	Level: 0				
	Credit: 30				
	ECTS credit: 15				
Pre-requisite: EG1644 Technical Studie	s in Architecture	Pre-cursor:			
(2)					
Co-requisite:		Excluded comb	pinations:		
EG1641 Architectural Design Stud					
EG1642 Architectural Design and C EG1643 Architectural technical stu					
	Location of delivery: Ain Shams University Campus				
Mai	Main aim(s) of the module:				
This course focus on studying the environ develop projects' activities and to use the					
surrounding environment as well. The mod					
rating system categories and the scoring s					
sustainable planning and design concepts	based on detailed st	udies as well as t	echnical concerns.		
Ν	lain topics of study	:			
Renewable Energy Systems					
<ul> <li>Environmental Impact Assessment</li> </ul>					
Sustainable Building Rating Systems					
Learning Outcomes for the module					
At the end of this module, students will be			in a state a constant de la constant		
1. Use their knowledge of renewable concepts and theories to reach a concept and theories to concept and theories to reach a concept and theories to reach a c			ing of the underlying		
2. Define and compare the difference	es between the existi		around the world		
(LEED, BREEAM, Green star, DG					
<ol> <li>Explore the process of achieving a</li> <li>Identify methods and prediction te</li> </ol>			EA process		
5. Exchange knowledge and skills w					
field of environmental control. 6. Select the appropriate impact ider	tification mothod and	ording to the ave	ilabla racouroca in tarma		
<ol> <li>Select the appropriate impact ider of data availability, time and mone</li> </ol>		cording to the ava	liable resources in terms		
7. Propose adequate mitigation mea	sures to avoid, reduc		ntial negative impact		
resulted from development activiti 8. Use appropriate renewable technol			nlement unique designs		
to achieve sustainable measures.		to specify and in	ipiement unique designs		
9. Make design decisions that could		the rating systen	ns and learn about the		
management of such projects to s 10. Share ideas, collaborate and com					
	•				
Teaching/ learning methods/strategies For on campus students:	used to enable the	achievement of I	earning outcomes:		
Lectures are given about different topics     Tutorials must in parallel to the last uses in			-l		
<ul> <li>Tutorials run in parallel to the lectures in</li> <li>A technical comprehensive research sho</li> </ul>					
course objectives.		-			
Site visits are usually arranged separatel	ly and/or during the tu	utorial time.			
	66				

Class presentations, peer rev	view, public reviews are the key for the as	sessment proc	ess.
	enable students to demonstrate the nodule; please define as necessary:	Weighting:	Learning Outcomes demonstrated:
packed ASU courses; Each ASU Course component Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam Reading and resources for t	nd presented in correct Harvard format	100 % unless a Profe	All essional Body
<ul> <li>The Energy and Reso</li> <li>Walker, A. Solar energy 2013.</li> <li>Reeder, L. Guide to g</li> </ul>	Renewable energy engineering and techno urces Institute (TERI), 2010. gy: technologies and project delivery for bu reen building rating systems. Hoboken, N. assessment handbook. Hoboken, N.J.: Wi	uildings. John V J.: Wiley, 2010	Wiley & Sons,
<ul> <li>Assessment: Principle</li> <li>Kaule, Giselher (2000</li> <li>Wiesner, D., (1995), E</li> </ul>	R. and Chadwick, A. (1994), Introduction t es and procedures, process, practice and p 0), Ecologically Oriented Planning, Peter L EIA the environmental impact assessment ual for everyone concerned about the envi t, Prism Press	prospects, UCL ang GmbH. process: What	Press.)
Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed s	study as descri	bed below
1. Student/tutor interaction:	lectures, tutorials, fieldwork, external vis	its	
2. Student learning time:	160 hours         reading and preparation, assignment pregroup work         140 hours	eparation, on-li	ne activities,
Total hours (1 and 2):	300 hours		

#### Urbanism Track

Module Title:	Module Code: EG2	2641	Module Leader:	
Urbanism Design Studio (4)			Prof. Mostafa Refat	
	Level 6		and Prof. Marwa	
			Khalifa	
	Credit: 30			
	FOTO anadity 45			
Pre-requisite: EG Architectural Desig	ECTS credit: 15	Pre-cursor: No	10	
Co-requisite:		Excluded comb	inations:	
EG2642 Urban technical studies				
EG2643 Urban Design and Context				
EG2644 Technical Studies and Urb Location of delivery: Ain Shams Univer				
Location of derivery: Ain Shams Univer	sity Campus			
Main	aim(s) of the modu	ıle:		
This module is intended to be a comprehe				
principles in the studio sequence. It is ir sustainable building concepts, green				
comprehensive studio design project will				
system selection, and integration of technol				
environmentally sound and comprehensive				
commercial, or industrial contexts in a "re				
environment.				
By the end of the course the students will b	a abla ta:			
Enhancing the student's general awa		lity and ecological	design principles in the	
architecture	built environment and acquired conceptual and hands-on knowledge about sustainable architecture			
• Enhancing the student's ability to understand and critically assess sustainability as a cultural,				
economic and environmental phenor				
<ul> <li>Identify key learning resources from data from observations, measurem</li> </ul>				
environmentally friendly architecture				
standard classification and benchma		cachee acing cor		
<ul> <li>Prepare and present projects of dive</li> </ul>	erse scale and, com	plexity, and type i	in a variety of contexts,	
using a range of media, and in respo			-	
The analysis and management of ge	ographic informatior	n systems (GIS).		
Ma	Main topics of study:			
	ain topics of study:			
Sustainable Architectural Design Studi	o (3)			
<ul> <li>Sustainable Architectural Design Studi</li> <li>Ecological urban design in practice (fra</li> </ul>	o (3) amework & Method)			
Sustainable Architectural Design Studi	o (3) amework & Method)			
<ul> <li>Sustainable Architectural Design Studi</li> <li>Ecological urban design in practice (fra</li> </ul>	o (3) amework & Method)			
<ul> <li>Sustainable Architectural Design Studie</li> <li>Ecological urban design in practice (frate)</li> <li>Introduction to Geographic Information</li> </ul> Learning Outcomes for the module	o (3) amework & Method) System (GIS)		components including	
<ul> <li>Sustainable Architectural Design Studie</li> <li>Ecological urban design in practice (frame)</li> <li>Introduction to Geographic Information</li> </ul> Learning Outcomes for the module <ol> <li>Recognise the process of sustained</li> </ol>	o (3) amework & Method) System (GIS) ainable building desi	gn and its various		
<ul> <li>Sustainable Architectural Design Studie</li> <li>Ecological urban design in practice (frate)</li> <li>Introduction to Geographic Information</li> </ul> Learning Outcomes for the module <ol> <li>Recognise the process of sustation</li> </ol>	o (3) amework & Method) System (GIS) ainable building desi	gn and its various		
<ul> <li>Sustainable Architectural Design Studie</li> <li>Ecological urban design in practice (frate)</li> <li>Introduction to Geographic Information</li> <li>Learning Outcomes for the module</li> <li>1. Recognise the process of sustate</li> <li>building performance, building</li> <li>disciplinary challenge</li> </ul>	o (3) amework & Method) System (GIS) ainable building desi g services and stru	gn and its various ictural design as	an essentially cross-	
<ul> <li>Sustainable Architectural Design Studie</li> <li>Ecological urban design in practice (frate)</li> <li>Introduction to Geographic Information</li> </ul> Learning Outcomes for the module <ol> <li>Recognise the process of sustation</li> </ol>	o (3) amework & Method) System (GIS) ainable building desi g services and stru nsional aspects and	gn and its various ictural design as integrate system	an essentially cross- as & technologies with	

- 3. Gain first-hand experience in data input, data management, data analyses, and result presentation in a geographical information system.
- 4. Develop design strategies to formulate effectively solutions through the architectural integration of environmental strategies and low-energy systems towards energy demand reduction and of methods for the quantification of building performance
- 5. Use appropriate tools and techniques to analyse the nature of a particular urban site and to devise a particular programme of use in order to prepare designs for an urban building.
- 6. Use appropriate environmental control techniques and materials to specify and implement different designs to achieve sustainable measures.
- 7. Review and critically analyse key issues affecting ecological urban design from the sustainable perspective
- 8. Produce professional technical and workshop drawings using traditional drawing tools and computer-aided drawings' techniques, as well as building information modelling.
- 9. Generate new architectural forms and design solutions of real environmental problems
- 10. Contribute positively and constructively to group work, being able to adopt a leadership role as well as being an effective team player.

#### For on campus students:

The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework.

The projects are taught through a wide variety of means. These may include:

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; each ASU Course component would include samples of the following: submissions indicating project progress 1 Midterm Exam Final Exam	100%	All

Reading and resou Core	urces for the module:		
	Calkins, Meg. The sustainable sites handbook: A complete guide to the principles, strategies, and best practices for sustainable landscapes. John Wiley & Sons, 2011.		
	Haas, Tigran. Sustainable urbanism and beyond: rethinking cities for the future. Rizzoli, 2012.		
	Birkeland, Janis. <i>Design for sustainability</i> : A sourcebook of integrated ecological solutions. Routledge, 2012.		
	Bellew, Patrick, and Meredith Davey. Green House, Green Engineering: Environmental Design at Gardens by the Bay. Oro editions, 2012.		
Meo - Gra	Flannery, J. A. & Smith, K. M. (2011). <i>Eco-urban design</i> , Springer Science & Business Media. Gravitt, D. (2012). <i>Eco-Urban Design</i> . Taylor & Francis. Longley, P. (2001), Geographic Information Systems and Science		
Recommended			
- Hes	Hester, Randolph T. Design for ecological democracy. Cambridge, MA: MIT press, 2006		
	Ehmann, Sven, Stephan Bohle, and Robert Klanten, eds. <i>Cause and Effect: Visualizing Sustainability.</i> Gestalten, 2012.		
- Odum, Howard T. <i>Ecological and general systems: an introduction to systems ecology. Univ.</i> Press of Colorado, 1994.			
Indicative learning teaching time (10 hrs per credit):	Activity		
1. Student/tutor inte			

2. Student learning time:	Studio work, research, fieldwork, group work, portfolio work (160 Hours)
Total hours (1 and 2):	<b>300 Hours</b> Studio and project work, research, fieldwork, group work, portfolio preparation

Module Title:		Module Code: EG	2642	Module Leader:
Urban technical	studies	Level 6		Dr Abeer ElShater
		Credit: 30		
		ECTS credit: 15	-	
Pre-requisite:	EG2641 Urbanism Design	n Studio (4)	Pre-cursor:	
Co-requisite:			Excluded comb	pinations:
	Urbanism Design Studio ( Urban Design and Contex			
	Technical Studies and Urb			
Location of del	ivery: Ain Shams Univer	rsity Campus		
	Mair	n aim(s) of the mod	ule:	
This course aims at improving the students' knowledge of economics and valuing ecosystems. The irrational growth in the physical scale of the economy and its rapacious character under economic globalization has depleted resources, destroyed ecosystems, overwhelmed natural waste disposal sinks, waged war on subsistence cultures, and produced shocking mal-distribution of wealth and income. How, then, can economy be turned around to reinforce sustainable development rather than to destroy ecosystems, resource endowments, and indigenous cultures is the core of this course. The course also addresses the use of information technology (IT) to accentuate the positive and eliminate the negative in urban life, which can result in an unprecedented opportunity to optimize the operations of cities – energy, water, transportation systems, food supply, urban design, resilience and much more. This course will explore the "smart city", and the IT that underpins it. It will discuss what IT can and cannot do. The course is designed to introduce students to contemporary urbanism challenges and improve their critical understanding of their local context.				
	<u> </u>	lain topics of study		
<ul> <li>Economics for Sustainability</li> <li>Smart Cities</li> </ul>				
	d Topics in Urbanism			
	ogy of Ancient Egypt nes for the module			
At the end of this module, students will be able to: 1. Critically analyse how the economy can be harnessed to reinforce sustainable				
	development.	tantial for IT to impro	we the interaction	a batwaan mankind in
	Build awareness of the po cities and the planet, and Improve the students' tech	encourage students	to think.	
	e.g. energy, mobility and b	ouildings		
	Develop a vision on which Acquaint students with the			
	technology of Ancient Egy	pt.		
	Demonstrate the ability to visual communication and		through the devel	opment of formal and
7.	Effectively manage tasks,	time, and resources.		- d
	Enhance their communication ing methods/strategies			
For on campus students:				
The teaching and learning strategy offers a supportive, creative and critical environment for guided individual and group work. Students are allocated to a design unit, each of which offers a specific project framework. The projects are taught through a wide variety of means. These may include:				
The projects are	e taught through a wide var	iety of means. Thes	e may include:	

- site visits
- meetings with clients, consultants or users
- visits (real and virtual) to related or more generally relevant events, buildings, exhibitions
- lectures, talks and seminars
- group work producing surveys or modelling
- class presentations, peer review, public reviews or 'juries', and tutor feedback
- project and portfolio tutorials

Design work is developed in the studio environment under the agenda of the unit, through seminars, group and individual tutorials, to continually appraise, evaluate and develop the work. All design work is reviewed at juries at regular, timetabled points in the calendar where students present their work to a panel of critics. Students receive written feedback on their progress after each jury as formative assessment, though no marks are formally awarded.

Mid-way through the year, an individual portfolio review is held with the Unit tutors and formative written feedback is provided on the progress towards the final, comprehensive design portfolio.

Summative assessment of the module is through the submission of a Design Portfolio at the end of the academic year.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam Final Exam	100%	All

Reading and resources for the module:

Core

- Ikerd, J. The Essentials of Economic Sustainability, 2012.
- Townsend, A., Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia, 2013
- Dunn, C., Lost Technologies of Ancient Egypt: Advanced Engineering in the Temples of the Pharaohs, 2010.

- Higgins, K. Economic Growth and Sustainability, 2014.
- Song, H. Smart Cities: Foundations, Principles, and Applications, 2017.

Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed study as described below			
1. Student/tutor interaction:	Lectures, tutorials, project supervision, practical classes, supervised time in studio, site visits, presentations, final jury. <b>120 hours</b>			
2. Student learning time:	Reading, assignment preparation, digital applications, surfing the internet, self-directed research, group work, unsupervised studio work, Field work. <b>180 hours</b>			
Total hours (1 and 2):	300 Hours			
Module Title:			Module Leader:	
--	--	--------------------	-------------------------	--
Urban Design and Contextual Studies			Dr Abeer ElShater	
	Level 6			
	Credit: 30			
	ECTS are dity 15			
Pre-requisite: EG0533 Architectural Des	ECTS credit: 15	Pre-cursor:		
	Co-requisite: Excluded combinations:			
EG2641 Urbanism Design Studio ( EG2642 Urban technical studies	G2641 Urbanism Design Studio (4)			
EG2644 Technical Studies and Ur	banism			
Location of delivery: Faculty of Engine		niversity		
Mai	n aim(s) of the mod	ulo:		
i internet i	n aim(s) of the mod	ule:		
Developing a project which is considered a				
architectural and urban level based on a r				
Each student's project should include a ter urban studies and more. The project desig				
urban planning, landscape, etc.). It should				
architectural design which is based on original	ginal and creative cor	ncept. The study o	of sustainable building	
concepts, green architecture strategies, an				
understanding of these issues is gained the latest developments in the field of environments in the fie				
	iioiiiieiidepei	idence, and the b	ulluling performance.	
N	lain topics of study	-		
URBANISM TRACK:				
ORDANISM TRACK.				
Sustainable Urban Mobility				
Studies and Programme of Gradu	ation Project			
Graduation Project				
Learning Outcomes for the module				
At the end of this module, students will be	able to:			
1. Integrate urban desig		orary methodologi	es in environmental	
architecture and urba		a that have show	ad and austained	
<ol><li>Analyse the range of patterns and traditions that have shaped and sustained cultures and the way that they can inform design process</li></ol>				
3. Think in terms of three-dimensional aspects and integrate systems & technologies				
with innovation and creativity in the exploration of design, to achieve target				
sustainable measures. 4. Conduct research and collect data from various sources (field work, archival				
records,	a collect data from va	nous sources (ne	ia work, archival	
5. internet etc)				
6. Produce and present architectural forms and urban design solutions using an				
	appropriate range of media, simulation and design-based software.			
<ol> <li>Apply appropriate mathematical and computer-based methods for modelling and analysing environmental design problems.</li> </ol>				
8. Demonstrate the abili			evelopment of formal	
and visual communication				
9. Contribute positively t	9. Contribute positively to the aesthetic, architecture and urban identity, and cultural			
life of the community.	ske time and reason			
10. Effectively manage tasks, time, and resources. Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:				
For on campus students:				
•				

- Lectures to introduce the subject and present different topics.
- Technical and study comprehensive research should be developed by each student or group.
- Tutorials run separately or in parallel to the lectures. The tutorials are mainly focusing on practical applications and instant supervision.
- Students mostly work and prepare for assignments in class.
- Site visits are usually arranged separately and/or during the tutorial time.
- Class presentations, peer review, public reviews or 'juries' are the key for the assessment process.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: submissions indicating project progress 1 Midterm Exam Final Exam	100%	All

Reading and resources for the module:

These must be up to date and presented in correct Harvard format unless a Professional Body specifically requires a different format

Core

- Pena, William M. & Parshall, Steven A. Problem Seeking, An Architectural Programming Primer. John Wiley and Sons, 2001.
- Brown, G. Z. & Dekay, Mark. Sun, Wind and Light-Architectural Design Strategies. John Wiley and Sons, 2014.
- Egan, M. & Olygyay, V. Architectural Lighting. McGraw Hill Book Co., 2002.
- Karlen, M. & Benya, J. Lighting Design Basics. John Wiley and Sons, 2004.
- Shrauder, D. Outdoor Lighting: Physics, Vision and Perception. Springer Science & Business Media, 2008.
- Hensher, David A & Kenneth, B. Handbook of Transport Modelling. Pergamon Press, 2000.
- Maclay, B. The new net zero: Leading-edge design and construction of homes and buildings for a renewable energy future. Chelsea Green Publishing, 2014.
- G.Kwok, Alison & T. Grondzik, Walter. The Green Studio Handbook: Environmental Strategies for Schematic Design. Routledge, 2017.

#### Recommended

- Calkins, M. The sustainable sites handbook: A complete guide to the principles, strategies, and best practices for sustainable landscapes. John Wiley & Sons, 2011.
- Cook, M., & Garrett, D. Green Home Building: Money-saving Strategies for an Affordable, Healthy, High-performance Home. New Society Publishers, 2014.
- Bauer, M., M'sle, P. and Schwarz, M. Green building: Guidebook for sustainable architecture. New York: Springer, 2009.
- Kibert, C. J. Sustainable construction: Green building design and delivery. 2nd Edition, Hoboken: Wiley, 2007.
- Egan, M. Architectural Acoustics. McGraw Hill Book Co., 1988.

Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed study as described below
1. Student/tutor interaction:	Lectures, tutorials, project supervision, practical classes, supervised time in studio, site visits, presentations, final jury.
	120 hours

2. Student learning time:	Reading, assignment preparation, digital applications, surfing the internet, self-directed research, group work, unsupervised studio work, Field work.
	180 hours
Total hours (1 and 2):	300 Hours

	Module Code: EG2644		Module Leader:	
Technical Studies and Urbanism			Prof. Marwa Khalifa	
	Level 6	Level 6		
	Credit: 30			
Pre-requisite: EG0534 Technical Studie	ECTS credit: 15	Pre-cursor:		
(2)	s in Architecture	Fle-cuisor.		
(-)				
Co-requisite: Excluded combinations:				
	Jrbanism Design Studio (4)			
EG2642 Urban technical studies EG2643 Urban Design and Contex	dual Studies			
Location of delivery: Ain Shams Unive				
M-:				
i Mai	n aim(s) of the mod	ule:		
This course focus on studying the environ	mental impact of buil	dings then, identif	ying potential impacts to	
develop projects' activities and focuses or				
urban resources, interactions of urban res				
government in formulating appropriate pol of building rating systems, rating system of				
develop a preliminary sustainable planning				
technical concerns. The course provides s	students with technica	al and professiona	al knowledge in waste	
technology and management in order to m		s expected of mod	lern waste managers	
working in the industrial, government and	consulting sectors.			
N	lain topics of study	:		
Sustainable Waste Management				
<ul> <li>Sustainable Waste Management</li> <li>Environmental Impact Assessmer</li> </ul>	nt			
Environmental Planning				
	Learning Outcomes for the module			
Learning Outcomes for the module	able to:			
Learning Outcomes for the module At the end of this module, students will be		ng rating systems	around the world	
Learning Outcomes for the module	es between the existi	ng rating systems	around the world	
Learning Outcomes for the module At the end of this module, students will be 1. Define and compare the difference (LEED, BREEAM, Green star, DG 2. Explore the process of achieving a	es between the existi NB, etc…) a rated building globa	ally and locally		
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Learning Outcomes for the moduleAt the end of this module, students will be1. Define and compare the difference(LEED, BREEAM, Green star, DG2. Explore the process of achieving a3. Identify methods and prediction te4. Exchange knowledge and skills wfield of environmental control.	es between the existi NB, etc) a rated building globa chniques for use with ith engineering secto	ally and locally hin the EIA and SI rs and industrial s	EA process sectors working in the	
Learning Outcomes for the moduleAt the end of this module, students will be1. Define and compare the difference(LEED, BREEAM, Green star, DG2. Explore the process of achieving a3. Identify methods and prediction te4. Exchange knowledge and skills wfield of environmental control.5. Select the appropriate impact iderof data availability, time and mone	es between the existi SNB, etc) a rated building globa echniques for use with ith engineering secto ntification method acce ey.	ally and locally nin the EIA and SI rs and industrial s cording to the avai	EA process sectors working in the ilable resources in terms	
Learning Outcomes for the module         At the end of this module, students will be         1. Define and compare the difference (LEED, BREEAM, Green star, DG         2. Explore the process of achieving a         3. Identify methods and prediction te         4. Exchange knowledge and skills w         field of environmental control.         5. Select the appropriate impact ider of data availability, time and mone         6. Select and apply scientific, technic	es between the existi SNB, etc) a rated building globa echniques for use with ith engineering secto ntification method acc ey. cal and engineering p	ally and locally nin the EIA and SI rs and industrial s cording to the avai principles; assess	EA process sectors working in the ilable resources in terms	
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• A technical comprehensive research should be completed by each student or group to achieve the course objectives.

- Site visits are usually arranged separately and/or during the tutorial time.
- Class presentations, peer review, public reviews are the key for the assessment process.

Assessment methods which enable students to demonstrate the learning outcomes for the module: For on Campus Students	Weighting:	Learning Outcomes demonstrated:
Portfolio of students' work includes a compilation of coursework of the packed ASU courses; Each ASU Course component would include samples of the following: Activities/Assignments 2 Quizzes 1 Midterm Exam	100%	All

Final Exam

Reading and resources for the module:

These must be up to date and presented in correct Harvard format unless a Professional Body specifically requires a different format

Core

- Reeder, L. Guide to green building rating systems. Hoboken, N.J.: Wiley, 2010.
- Curran, M. Life cycle assessment handbook. Hoboken, N.J.: Wiley, 2012.
- Madu, C., Environmental Planning and Management, 2007.
- Chang, N., Sustainable Solid Waste Management: A Systems Engineering Approach, 2015.
- Ludwig, C., Municipal Solid Waste Management, 2003.

#### Recommended

- Glasson, J., Therivel, R. and Chadwick, A. (1994), Introduction to Environmental Impact Assessment: Principles and procedures, process, practice and prospects, UCL Press.)
- Kaule, Giselher (2000), Ecologically Oriented Planning, Peter Lang GmbH.
- Wiesner, D., (1995), EIA the environmental impact assessment process: What it is and what it means to you. A manual for everyone concerned about the environment and decisions made about its development, Prism Press

Indicative learning and teaching time (10 hrs per credit):	Activity 300 hours of directed and self-directed study as described below
1. Student/tutor interaction:	lectures, tutorials, fieldwork, external visits 160 hours
2. Student learning time:	reading and preparation, assignment preparation, on-line activities, group work 140 hours
Total hours (1 and 2):	300 hours

# 7 PLACEMENT REQUIREMENTS

Students eligible to get enrolled in the Credit Hours Engineering Programmes are those with the general certificate of secondary education (Thanaweya Amma), mathematics section, or equivalent, who have been deployed to the Faculty through the Coordination Office, or transferred from other Faculties, in accordance with the rules and conditions established annually by the Supreme Council of Universities.

The Council of the Faculty of Engineering establishes general rules for admission to the programmes considering the student preferences and the principle of equal opportunities as the basis for the admission of students to these programmes. When the student applies to the credit hours programmes, the Council of the Faculty of Engineering may assign him a maximum of two basic courses as an admission prerequisite. These courses will not be included in the student's GPA and are recommended by the Programmes Administration Council and approved by the Council of the Faculty of Engineering. Concerning the internal students transfer to/from the credit hours system and the Transfer from outside the Faculty, kindly refer to Articles (43 and 44) of the Internal Regulations.

For the Academic Calendar, please refer to Appendix A

## **Scholarships**

The student who achieves an accumulative GPA of 3.6 or higher after any semester and did not fail any course throughout his course of study is included in the Dean's List and receives partial exemption from charges on the next semester. This exemption is dependent on the student's GPA as recommended by the Programmes Administration Council in this regard and after approval of the Council of the Faculty of Engineering. The student who keeps an accumulative GPA of 3.3 or higher in every semester all through his course of study and does not fail any course, graduates with an Honor Degree, which is documented in his graduation certificate. Additionally, the top 30 students in Thanaweya Amma, mathematics section, who enrolled in the credit hours programmes, are fully exempted from paying any tuition fees in their first semester.

To maintain this exemption in the following semesters, the student should maintain an accumulative GPA of 3.6 or higher in every semester. This exemption is declined once the student fails to achieve this accumulative GPA in any semester. The faculty sets a system for encouraging distinguished students through reducing their tuition fees in accordance with their accumulative GPAs. At the beginning of each semester, the distinguished students' list is announced together with the associated tuition fees reductions.

Reference to the Suitability procedure and provide web link

https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporatedocuments/Student-Policies/Manual-of-General-Regulations (Manual of General Regulations, Part 13)

## 8 PROGRAMME MANAGEMENT

- Students' support and guidance are provided through a range of resources. A welcome and induction process is starting in their first week, where all students are guided to their programme studies.
- The programme pays special attention to the learning management system that helps students and staff members to intercommunicate effectively in terms of course material, assignment, term-work marks ... etc.
- The programme's learning management system is setup to have a page for each course studied during the semester. The student can access his courses from the main programme web-page.
- All electronic services provided to the students requires the use of university e-mail, hence, it is created automatically for the programme's student when he is first enrolled to the programme, and he retains this e-mail until he graduates.
- The Student Information System (SIS) is the place where students can access all your academic records. It can be reached on the main programme web-page, which also provides brief information about the mission and vision of the programme, and the important dates related to student academic activities.
- Every student is assigned an Academic Advisor who is one of the faculty members and may continue with the student for the whole study duration. The Academic Advisor should follow-up with the student, assist him in selecting courses each semester, and request to place the student under probation for one semester.
- For each hour (lectures or tutorials) the instructor should have an office hour. It could be twice a week for 1.5 hours each. Office hours will be determined in the first class and will be posted on the Instructor's office door.
- Students will be given a student handbook at the start of their programme of study.
- Programme Committees provide a formal structure for student participation and feedback on their programme of study. Programme committees provide a forum in which students can express their views about the management of the programme, and the content, delivery and assessment of modules, in order to identify appropriate actions to be taken. Terms of reference are provided in Appendix D.

# Students Involvement

There are different facilities that ensure students involvement that include:

# a) Students' Affairs Administration

The students' affairs administration is chaired by the Vice-Dean for education and students' affairs and is located in the main building. This administration has representatives at the programmes' administration offices (Ground Floor of the New Educational Building). The secretariat of each programme (at the programmes secretariat office – Ground Floor of the New Educational Building) also collaborates with the previous representatives in accomplishing the following tasks:

- Archiving of the students' files.
- Issuing the students' identity cards.
- Electronic recording of the students' course registration, add/drop, and withdraw.
- Processing the students' course evaluation at the end of each semester.
- Issuing the students' records at the end of each semester.
- Issuing the students' graduation certificates.
- Processing the students' appeals and requests.

# b) Students' Union

The students' union is also under the general supervision of the Vice-Dean for education and students' affairs. As part of the Faculty of Engineering, the programmes' students are members in the union and have similar rights and benefits as the mainstream students, including entering the union's yearly elections.

# c) Financial Affairs Administration

The programmes' financial affairs administration, located at the Ground Floor of the New Educational building, is responsible for issuing the payment orders for the students' tuition fees at the beginning of each semester. The administration is also responsible for collecting the copies of the students' payment receipts, which should be presented by the students after making their payment at the Faculty treasury. Programmes' students who fail to present copies of the payment to the programmes' financial administration risk having no payment records at the programmes.

# d) <u>Library</u>

The Faculty library provides a service specially designed to fulfil the requirements of all academic programmes. It is open for all Faculty members for reference use and borrowing. The main library has a shelf space for over 40,700 books on all subjects forming part of the Faculty curriculum. It has 353 technical periodicals (the Faculty receives 23 periodicals yearly in a regular basis). Additionally, it has more than 3,340 Ph.D. and M.Sc. theses resulted from all Faculty departments' activities. The students' library has multiple copies of textbooks, amounting to over 13,000, available for short-term borrowing to students. According to the Engineering Faculties libraries

development project, annexed to the Ministry of Higher Education, the library is interconnected through the Internet with all the libraries of engineering faculties nationwide.

VTLS library software system has been installed which contains all the modules to provide library services to the Faculty community.

# e) ASU -FoE Information Systems

ASU - FoE have a solid understanding of the importance of information systems in each aspect in the CHEP academic environment. Hence, a comprehensive web portal has been created for CHEP that has all information and services needed for the student, parents, and staff members. Learning Management System (LMS) is one of the available service at the ASU - FoE portal for all students mainly to have their course materials posted regularly on it with a dedicated protected access to the courses he enrolled in them. More importantly, a comprehensive Student Information System (SIS) is another service that is available on the portal to all parties involved in the system. The student can use SIS to access his academic records, do course registration, request to open courses that are not offered, or even request advising appointment with his academic advisor.

# 9 STUDENT SUPPORT

# 9.1 Local arrangements for academic and pastoral care for students

- Programme teams must ensure that Academic Advisor have the knowledge and skills to carry out the role. The role includes helping students to understand:
  - i. The academic and related skills required for successful study at CHEP.
  - ii. The need for self-direction and responsibility for own learning.
  - iii. Their learning needs beyond their current courses and immediate assessments.
  - iv. An opportunity to identify areas of weakness.
  - v. Where to find information, help and support.
  - vi. Clarification of aims and choices for progression, employment and further study [internship]
- > Academic Advising in ASU-FoE:
  - i. Must exist for every year.
  - ii. That it must form part of the student induction process especially for General Level Year Students.
  - iii. Must be used as a mechanism, to identify 'at risk students'.
  - iv. Must happen at critical moments in each semester. [week 1 & 8]
- Programme teams must carefully manage the Academic Advising system so that students understand its role and know how to access it.
- Academic Advising needs to be carefully managed with its importance being emphasised:
  - i. During the induction period for each Level of the programme.
  - ii. In student handbook.
  - iii. By Academic Advisor
  - iv. By Course Instructors-via class announcements
  - v. Via email and SIS.
- Unit Heads agree procedures and systems to manage Academic Advising. These will include:
  - i. Allocation of Academic Advisors for all Levels
  - ii. Ensuring student is informed
  - iii. Delivery of Academic Advising
  - iv. Identification of students at risk

# 9.2 Local Personal Tutor support

- Programme teams must meet the minimum requirements for delivery of Academic Advising.
  - Meet in weeks 1 and 8 each semester
  - Identify issues and agree strategies
  - Keep a record of meetings [SIS+ student copy]
  - Feedback issues and takes action as appropriate

- Advertise Office Hours when 1:1 appointments can be made according to Advisor and student Schedule.
- > Advisor need to be clear about the focus of the meeting:
  - i. To check that student has settled into the Programme?
  - ii. To identify any concerns the student may have?
  - iii. To review student's progress [preferably quantitative]?
  - iv. To review and offer advice on student's performance in assessments/exams?
  - iv. To address concerns about performance or attendance?
  - v. To review progression or career plans [internship]?
- Meeting -encouraging change
  - i. Encouraging change -telling or helping?
  - ii. Giving constructive feedback
  - iii. Discussing options
  - iv. Agreeing actions -SMART targets
  - v. Producing a realistic plan of action
  - vi. Getting commitment
  - vii. What's going well?
  - viii. What could go better?
- Follow-up from meetings –ensuring action
  - i. What actions are required by the student or by the Academic Advisor?
  - ii. Does this involve liaison with:
    - Course Instructors?
    - Unit Heads?
    - Vice Director?

# 9.3 Local Careers Advice

- Programme teams must ensure that staff acting as Academic Advisors are aware of relevant learner support services.
- > Academic Advising is only a part of Learner Support:
  - i. Employability Skills (through events)
  - ii. Students Activities
  - iii. The Library
  - iv. Disability issues
  - v. The Student Union

Employability and Career Development Centre (ECDC) is a Centre constructed through the collaboration between Ain Shams University and the American University, it has a permanent headquarter in Faculty of Engineering and another headquarter in Ain Shams University. It provides special training programmes for students in order to develop their capabilities in the professional and employment fields. The centre aims to guide the trainee to his excellence and weaknesses points, and how to raise points of excellence and overcome weaknesses.

# 9.4 Local arrangements for supporting students with disabilities/dyslexia

Faculty of Engineering provides support and equal opportunity for learning to its diverse community especially to those with disability. The faculty aimed to provide equal learning

environment to experience the same level of equality and meet the same level of academic potential. The objectives are:

i.Ensure the accessibility to all faculty facilities

- ii. Ensure that admission requirements do not hinder anyone from enrolment by unnecessary barriers
- iii. Encourage people with disability to courses admission by providing any possible support.
- iv. Determine the needs of the disable and support staff to deal with their needs

This is through a student disability services unit. The student should fill in the form describing his/her conditions to request for disability services.

According to each case, the unit can provide:

- i.Quiet areas for exams equipped with the required physical changes
- ii.Providing staff members assisting for writing in exams
- iii.Extra exam time
  - Extended deadline for the assignments and attendance
- iv.Providing special seating place in class
- v.Providing large print hand-outs, verbal description for visual aids

Please refer to Appendix F for Student Entitlements, for support available at UEL.

# 10 RESOURCES

#### a) Local library and IT resources

ASU - FoE central library serves students and researchers in various fields besides the Digital Library to provide an online service for users. There is (1) central library with (3) halls according to the following:

- The student library hall contains (16,461) books.
- The teaching staff hall contains (29,607) books.
- Digital Library Hall

The Digital Library serves to provide an online Service for users. It gives online access to the contents of the library, including books and theses. The digital library website: *http://srv2.eulc.edu.eg/eulc\_v5/libraries/start.aspx* 

Other learning resources are the Egyptian Bank of Knowledge (EBK) through the website: *http://www.ekb.eg/* "Egyptian Knowledge Bank", is one of the largest national projects that is concerned with education in Egypt, it aims to provide huge and diversified sources for knowledge and culture for free. It comes after contracting with several international publishing houses to publish their contents in all scientific and cultural disciplines, to have the system for the new Egyptian Cultural Revolution completed. Generally, 25 global publishing house and specialised companies, the Egyptian Knowledge Bank managed to contract with to provide their contents & technologies. E-Mail Services involved a developed Cooperation of the University with Microsoft Corporation to Serve Undergraduate and Postgraduate Students offering new features for the official e-mail users.

#### b) Other local resources relevant to supporting the programme

The faculty offers students Training Support through **Global Training Technology Centre**. It aims to be a centre for innovation in technology and entrepreneurship, as to form a link between academic study and labour market. The centre offers training programmes to serve students and graduates at the same time, these training programmes aim to develop the creative sense of the trainees in order to integrate them into creative and innovative works that would serve the industrial field and the community. Depends on the overlap between the different disciplines in various fields and at various levels. The centre is nearly 1000 m<sup>2</sup> area, it works as the headquarters for the students to practice their activities in the future, and the college is preparing the headquarters of the centre to accommodate the necessary training activities.

**Employability and Career Development Centre (ECDC)** is a Centre constructed through the collaboration between Ain Shams University and the American University, it has a permanent headquarter in Faculty of Engineering and another headquarter in Ain Shams University. It provides special training programmes for students in order to develop their capabilities in the professional and employment fields. The centre aims to guide the trainee to his excellence and weaknesses points, and how to raise points of excellence and overcome weaknesses.

The number of computers available to students is about 600 modern machines. A suitable number of computers are available for faculty members in their respective laboratories and offices in different sections. The number of computers available to employees is 250 devices. Computer labs are run centrally for students. The method of using these labs has been

adopted by setting a nominal fee of not less than two pounds per hour to use the central labs which are open to access the network, while the student does not bear any burdens to enter the laboratories associated with the ministry while the Income is suitable for the maintenance and modernization of computers in college. The databases and information systems of faculty staff members, their assistants, students, graduate students, expatriates, administrators and libraries have been developed and updated. The databases are continuously updated.

The Faculty of Engineering has a website through the main website of Ain Shams University. The website is: *https://eng.asu.edu.eg/*. The website provides various services for students and faculty members by presenting the internal regulations of the bachelor's degree course as well as higher education. The site is being developed and data recorded within it are consistently updated. The contents of the various educational materials are displayed. The course schedules and exam results are announced at the end of the semester. The site is available in Arabic and English so that the user can choose the appropriate language. This site is regularly updated by site administrators and college administration. E-mail access is also available to the faculty members and the assistant staff and the students on the website of the College.

In order to update the educational services to the international standards, an online portal was developed in order to open the access to students and staff members to perform efficiently online. Students can view their courses, submit coursework and view their grades. Staff members can upload their lectures, view the online submissions and grade online. An information technology unit was set up for the electronic portal of the college to be the main focus of interaction between students and faculty.

# 11 INFORMATION ABOUT QUALITY AND STANDARDS

## **11.1** Assuring the quality and standards of the award

You are enrolled on a programme of study leading to the award of a degree of the University of East London (UEL). As such, you are regarded as a student of the University of East London as well as ASU- FoE and both institutions work together to ensure the quality and standards of the programme on which you are registered. The final responsibility for all quality assurance, validation and standards' matters rests with UEL.

Some of the ways in which we ensure the quality and standards of the programme include:

#### Approval of the programme and institution at which you are studying

Before the programme started, our University, through an approval process, checked that:

- there would be enough qualified staff to teach the programme;
- adequate resources would be in place;
- the overall aims and objectives were appropriate;
- the content of the programme met national benchmark requirements, where applicable
- the programme met any professional/statutory body requirements if applicable;
- the proposal met other internal quality criteria covering a range of issues such as admissions policy, teaching, learning and assessment strategy and student support mechanisms.

#### Appointment of external examiners

The standard of this programme is monitored by at least one external examiner external to UEL, appointed by UEL. External examiners have two primary responsibilities:

- To ensure the standard of the programme;
- To ensure that justice is done to all students.

External examiners fulfill these responsibilities in a variety of ways including:

- Approving exam papers/assignments;
- Attending assessment boards;
- Reviewing samples of student work and moderating standards;
- Ensuring that regulations are followed;
- Providing feedback to the University through an annual report that enables us to make improvements for the future.

Review and Enhancement Process

- This annual review includes the evaluation of and the development of an action plan based on:
- external examiner reports and accreditation reports (considering quality and standards);
- statistical information (considering issues such as the pass rate);
- student feedback obtained via programme committee and module evaluation questionnaires.

Periodic reviews of the partnership and programme

This is undertaken by a panel that includes at least two external subject specialists. The panel considers documents, looks at student work, speaks to students and speaks to staff before drawing its conclusions.

## Award certificates

Issuing transcripts of results to students, and award certificates to successful students on programmers.

The student who achieves an accumulative GPA of 3.6 or higher after any semester and did not fail any course throughout his course of study is included in the Dean's List and receives partial exemption from charges on the next semester. This exemption is dependent on the student's GPA as recommended by the Programme Administration Council in this regard and after approval of the Council of the Faculty of Engineering.

Students who complete 480 credits, graduate with an Honours Degree, which is documented in their graduation certificate. The faculty sets a system for encouraging distinguished students through reducing their tuition fees in accordance with their academic performance. At the beginning of each semester, the distinguished students' list is announced together with the associated tuition fees reductions.

Students who manage to fulfil all graduation requirement are awarded a dual B.Sc. degree from ASU – FoE in Environmental Architecture and Urbanism.

# Equality and Diversity

ASU Equality and Diversity Strategy

- ASU commits to ensuring equality and diversity in its campus. Equality is ensured for everyone regardless any grounds of discrimination such as gender, age, color, disability and religion.
- The university supports a safe environment for both working and studying. The university environment must be free of bullying, harassment, and any form of discrimination. Any act of the aforementioned will not be tolerated and any complaints will be taken seriously. Anyone who feels being subjected to these acts is encouraged to raise complaints.
- All academic staff members, students and employees are supposed to treat each other with mutual respect and fairness. Everyone should respect the presence of individual differences, diversity in culture, personal opinions and beliefs.
- Equal opportunities and access to facilities are allowed for all staff and students. Each staff member or student is given full support to develop their skills and talents. Selection for employment, promotion, training, or any other benefits will be based on aptitude and ability.

# **UEL Equality and Diversity Strategy**

https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporatedocuments/Student-Policies (for all general policies)

# 12 ACADEMIC APPEALS

12.1 Students who wish to appeal against decisions of an Assessment Board, should notify the Credit Hours Engineering programs at Ain Shams University in writing, via official appeal forms downloadable via

https://eng.asu.edu.eg/uploads/uploadcenter/asu\_337\_file.pdf

- 12.2 Students who wish to appeal against a decision of an Assessment Board may appeal in accordance with the procedure for *Appeals against Assessment Board decisions* (Manual of General Regulations, Part 7).
- 12.3 An appeal may only be made on the following grounds:
  - (a) The assessment was not conducted in accordance with the current regulations for the programme, or there has been a material administrative error or some other material irregularity relevant to the assessments has occurred.
  - (b) For a student with a disability or additional need, the initial needs assessment was not correctly carried out, or the support identified was not provided, or the agreed assessment procedures for that student were not implemented.

12.4 Appeals **will not be accepted** on the grounds of disagreement with the academic judgement of an assessment board. These remain the exclusive prerogative of the Assessment Board.

Any student who wishes to appeal against the decision of an Assessment Board must:

- 1. Notify the Institutional Compliance Office (*appeals@uel.ac.uk*) within ten working days of the publication of results.
- 2. Complete all sections of the notification of appeal form (please contact Institutional Compliance Office if you require the form in a different format).
- 3. Attend a conciliation meeting with the Chair of the Assessment Board to attempt to resolve your appeal (the meeting should be convened within 10 working days of lodging the appeal).
- 12.4 If you are dissatisfied with the outcome of the conciliation meeting you should submit the completed notification of appeal form to the Institutional Compliance Office **within five working days of the conciliation decision** and Institutional Compliance will formally investigate your appeal.
- 12.5 Further information about the UEL appeals process, including copies of the formal Notification of Appeal Form, is available for view at *https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Student-Appeals*
- 12.6 To help you decide whether your query would be an Appeal or Complaint, please refer to *https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies*

**12.7** If you would like to lodge a formal appeal or have any queries, please email the Institutional Compliance Office at *appeals@uel.ac.uk* 

# 13 COMPLAINTS

- 13.1 If you feel that you have not received the standard of service which it would be reasonable to expect, you may be entitled to lodge a complaint, in accordance with section 14 of the *Manual of General Regulations*. The Complaints Procedure should be used for serious matters, and not for minor things such as occasional lapses of good manners or disputes of a private nature between staff and students. A complaint may be submitted collectively by a group of students who should nominate a spokesperson who will be the channel of communication for the group, however, a complaint may not be lodged by a third party on behalf of the complainant. The complaints procedure is an internal process.
- 13.2 Separate procedures exist for the following, which therefore cannot form the substance of a complaint:
  - appeals against the decisions of Assessment Boards (see Part 7 of the Manual of General Regulations);
  - appeals against annual monitoring reviews, transfer of research degree registration or oral examination decision for postgraduate research students (see Part 9 of the Manual of General Regulations);
  - appeals against the decisions of the Extenuation Panel (see Part 6 of the Manual of General Regulations);
  - complaints against the Students' Union (see the Complaints Procedure in the Students' Union constitution);
  - appeals against decisions taken under disciplinary proceedings (see Part 12 of the Manual of General Regulations);
  - complaints about businesses operating on University premises, but not owned by our university (contact the Deputy Vice-Chancellor and Chief Operating Officer);
  - complaints about the behaviour of other students (see Part 12 of the Manual of General Regulations this Manual);
  - appeals against the decisions of Academic Misconduct Panels (see Part 8 of the Manual of General Regulations)
  - appeals against the decisions of Attendance Appeal Panels (see the University's Attendance Policy).
- 13.3 ASU- FoE has a complaints process which adheres to the four stages of the University of East London complaints process. The three possible stages of the complaint process are:
  - STAGE 1: Local Resolution
  - STAGE 2: Formal Complaint
  - STAGE 3: Review
- 13.4 Stages 1 and 2 will be administered by ASU- FOE and the University of East London will administer Stage 3, including the issuing of a Completion of Proceedings letter in response to each Stage 3 complaint. ASU FoE is responsible for keeping the University of East London informed of all complaints received.
- 13.5 Complainants are strongly advised to make every reasonable effort to resolve their complaint informally through meeting with the *member of ASU FoE staff* most directly concerned with the matter, such as the Programme or Module Leader, before proceeding to Stage 2 and submitting a formal complaint.

- 13.6 Complaints must normally be lodged within set time limits (please see Complaints Procedure for further details). This ensures that the people involved still remember the case, and the facts can be established.
- 13.7 Further information about our University's complaints procedure, including copies of the formal Complaints Form, is available for view at *https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Student-Complaint-Procedure*
- 13.8 If you would like to lodge a formal complaint or have any queries, please email the Institutional Compliance Office at *complaints@uel.ac.uk*

# 14 EXTENUATION

#### General Information about extenuation can be found at https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporatedocuments/Student-Policies/Extenuation-Procedures

The University of East London has agreed, through Academic Board, procedures governing extenuation for students concerning the assessment process.

Computer Engineering and Software Systems programme will be subject to equivalent procedures, with the process being administered by, and the panel being held within Ain Shams University – Faculty of Engineering

If granted by the panel, **Extenuation can** 

- (i) Allow students to hand in coursework up to 7 days late.
- or
- (ii) Allow students to proceed to their next attempt uncapped.

## Extenuation doesn't

- (i) Give students more attempts to pass a module
- (ii) Reschedule exams
- (iii) Uncap a capped module
- (iv) Give students a higher mark.
- (v) Allow students to hand in work over 7 days late.

The basic principle is that extenuation should put you in the same position that you would have been in had you not missed the exam or handed in the assessment late – it does not confer any advantages.

UEL decided that its procedures would be

- Evidentially based
- Handled centrally by an panel of senior staff (not devolved to various parts of the organisation)
- Retain student anonymity where possible

The extenuation procedures are intended to be used rarely by students not as a matter of course.

The procedures govern circumstances which

- Impair the performance of a student in assessment or reassessment
- Prevent a student from attending for assessment or reassessment
- Prevent a student from submitting assessed or reassessed work by the scheduled date

Such circumstances would normally be

- Unforeseeable in that the student could have no prior knowledge of the event concerned
- Unpreventable in that the student could do nothing reasonably in their power to prevent such an event

• Expected to have a serious impact

Examples of circumstances which would normally be regarded as serious are:

- A serious personal illness (which is not a permanent medical condition this is governed by disability procedures)
- The death of a close relative immediately prior to the date of assessment

Examples of circumstances which would *not* normally be regarded as extenuating circumstances are:

- Failure of computer equipment / USB stick
- Transport problems, traffic jams, train delays
- Misreading the exam timetables / assessment dates
- Minor illnesses

The judgement as to whether extenuation is granted is made by a panel of senior persons in the organisation who make this judgement on the basis of the evidence the student provides (not on their knowledge of the student) – where possible the identity of the student is not made available to the panel. The judgement is made on the basis that the circumstances could reasonably be thought to be the sort of circumstances which would impair the performance of the student etc. The actual performance of the student is not considered and is not available to the panel.

It is the responsibility of the student to notify the panel, with independent evidential documentary support, of their claim for extenuation.

More information and student guidance notes can be found at: https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporatedocuments/Student-Policies/Extenuation-Procedures

# 14.2 Seeking Advice: Academic Advisor

Every student is assigned an Academic Advisor who is one of the faculty members and may continue with the student for the whole study duration.

The Academic Advisor should follow-up with the student, assist him in selecting courses each semester.

The Academic Advisor may ask the student to repeat courses which he already passed or ask him to register in additional courses to raise his accumulative GPA to that required for graduation

Appendix A



# Academic Calendar 2019/2020

Semester	Activity	From	То
	Course Registration	07/09/2019	19/09/2019
	Classes	21/09/2019	02/01/2020
_	Adding Courses	21/09/2019	26/09/2019
First Semester	Dropping Courses	21/09/2019	03/10/2019
Fall 2019	Midterm Exams	08/11/2019	15/11/2019
	Withdraw Courses	19/10/2019	28/11/2019
	Final Exams	04/01/2020	24/01/2020
	Break	25/01/2020	06/02/2020
	Course Registration	01/02/2020	06/02/2020
	Classes	08/02/2020	21/05/2020
Conserved Composition	Adding Courses	08/02/2020	13/02/2020
Second Semester	Dropping Courses	08/02/2020	20/02/2020
Spring 2020	Midterm Exams	27/03/2020	03/04/2020
Spring 2020	Withdraw Courses	07/03/2020	16/04/2020
	Final Exams	27/05/2020	19/06/2020
	Break	20/06/2020	09/07/2020
	Course Registration	27/06/2020	02/07/2020
	Classes	04/07/2020	20/08/2020
Cummer 2020	Adding Courses	04/07/2020	06/07/2020
Summer 2020	Dropping Courses	04/07/2020	09/07/2020
Semester	Withdraw Courses	08/08/2020	13/08/2020
	Final Exams	21/08/2020	28/08/2020
	Break	29/08/2020	17/09/2020
Start of Aca	demic Year 2020/2021	19/09/2020	

#### **APPENDIX B**

## **USEFUL WEB PAGES**

Academic Appeals https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Student-Appeals

Academic Integrity Policy

https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies

Accreditation of Experiential Learning https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Manual-of-General-Regulations (Manual of General Regulations – Part 2 – Admission of Students)

Assessment and Feedback Policy https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Assessment-and-Feedback-Policy

Civic Engagement https://www.uel.ac.uk/Connect/Civic-Engagement

Complaints procedure https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Student-Complaint-Procedure

Equality and Diversity Strategy *https://www.uel.ac.uk/Discover/Governance/Policies-Regulations- Corporate-documents/Student-Policies* (for all general policies)

Extenuating Procedures https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Extenuation-Procedures

Library and Learning Services *https://www.uel.ac.uk/lls/* 

Manual of General Regulations https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Manual-of-General-Regulations

Referencing guidelines https://uelac.sharepoint.com/LibraryandLearningServices/Pages/Harvar d-Referencing-.aspx

Skills Curriculum https://www.uel.ac.uk/discover/governance/policies-regulationscorporate-documents/student-policies/skills-curriculum Skills Portal *https://uelac.sharepoint.com/LibraryandLearningServices/Pages/Skillzo ne.aspx* 

Suitability Procedures https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Manual-of-General-Regulations (Manual of General Regulations – Part 13 – Suitability Procedure)

Write it Right http://writeitright.uelconnect.org.uk/

UEL Intranet (UEL ID required to login) https://www.uel.ac.uk/students

# APPENDIX C Student Attendance and Engagement Policy – Guidance for Students

## **Teaching Policy**

**Language**: English language should be used for lecturing, discussions, exams, and all verbal and electronic communications. Use of Arabic language is strictly forbidden even in one-to-one conversation between the instructor and the students.

**Course Syllabus**: Each course syllabus should contain: course objectives, textbook, outline, material, assessments, grading policy and outcome. Outline should contain sections covered every week with reference to chapters/sections in the textbook. The instructor should give the course syllabus to the students in the first class. The syllabus serves as a contract between the instructor and the students.

**Textbook:** The instructor is free to select/recommend a textbook but it should be international and available. The textbook information should be provided to the administration office or the unit head before the first class of the course.

**Attendance**: Attendance is taken in lecture and tutorial classes. It is assigned a percentage based on the grading policy. Students should not be allowed to enter the class after 5 minutes from the scheduled time. No eating, drinking, or mobile use in the class. If the student wants to leave the class for any reason, he will not be allowed to come back to the class. The student's attendance should not be less than 75% during the course. Otherwise, the student should not be allowed to attend the final exam.

**Assignments:** Assignments are given every week (spelled out in the course syllabus), preferably from the textbook. Assignments should constitute 20% of the total grade. Instructors are allowed to drop the least assignment from the grade. The assignment is collected at the end of the tutorial period of the next week. Instructors may grade only selected problems from the assignment. The graded assignment should be returned and discussed with the class.

**Quizzes:** Unannounced quizzes are given in the tutorials to force the students to study and be ready all time. These quizzes should constitute 10% of the total grade. The quiz is given at the end of the session for 15 minutes max. Up to 6 quizzes can be given and the least one can be dropped from the grade. The graded quiz and the model answer should be returned the following tutorial and discussed with the class.

**Exams:** One midterm exam should be given. Time should be indicated in the course syllabus. The midterm exam should be given during the 6th - 7th week. This exam will be held during lectures/tutorials based on course progress and will constitute 25% of the grade. The graded midterm exam and its model answer should be returned and discussed with the class. The instructor can arrange for a bigger or more suitable room for the midterm exam. The final

exam constitutes 40% of the grade. It should be a comprehensive exam covering all material. The student fails the course if he gets less than 30% of the final exam total grade. Instructors may select to have all exams open-book or closed-book.

# UNIVERSITY OF EAST LONDON

TITLE: PROGRAMME COMMITTEE (COLLABORATIVE)

## TERMS OF REFERENCE

To be responsible for assuring and enhancing the quality of the student experience at programme level by:

- Providing a forum in which students can express their views about the management of the programme, and the content, delivery and assessment of modules, or equivalent, in order to identify appropriate actions to be taken in response to the issues raised and to ensure that the implementation of these actions is tracked.
- Providing formal yearly student feedback on the programme as input into the preparation of the Programme REP.
- Reviewing programme questionnaire results and making recommendations and changes arising from these.
- Receiving, considering and approving the Programme REP and identifying responsibilities for action to be taken before it is considered by School Learning and Taeching Quality Committee.
- Reviewing progress on REP action plans at each meeting.
- Reviewing the relevant documentation and other evidence prepared for Academic and collaborative Institutional Review and other external review processes.
- Reviewing proposals for modification of the programme structure (validated programmes only) and noting implementation arrangements for modifications.
- Advising the Programme Leader on mechanisms by which University policy statements, which have an impact on programme design and delivery, are implemented.

# MEMBERSHIP

Programme Leader (Chair) Administrator/Servicing Officer (ex-officio) Programme staff making a significant teaching contribution to the programme Learning Support Services representative Technician representative (for laboratory based programmes) Dean of School/department or equivalent (ex officio) UEL Dean of School/Associate Dean of School, or equivalent (ex officio) UEL link person (ex officio)

Two student representatives for each level and at least one part-time student (where appropriate)

The meeting will be held once per semester/term and will be quorate if 40% of the members are present.

# ACADEMIC MISCONDUCT

For the purposes of university's regulations, academic misconduct is defined as any type of cheating in an assessment for the purposes of achieving personal gain. Examples of such misconduct are given below: the list is **not** exhaustive and the use of any form of unfair or dishonest practice in assessment can be considered potential misconduct.

#### Coursework Submitted for Assessment

For coursework submissions, academic misconduct means:

- (a) The presentation of another person's work as one's own with or without obtaining permission to use it.
- (b) The inclusion within one's own work of material (written, visual or oral), originally produced by another person, without suitable acknowledgment.
- (c) The submission, as if it were one's own work, of anything which has been offered to you for your use, but which is actually not your own work.
- (d) The inclusion within one's work of concepts paraphrased from elsewhere without citing your source.
- (e) The inclusion in submitted work of sections of text, whether from electronic or hard copy sources, without appropriate acknowledgement of the source.
- (f) The submission of work that the student, as the author, has previously submitted, without suitable acknowledgement of the source of their previous work; this should not normally be more than a short quotation as the same work cannot be submitted for different assignments.
- (g) Including or quoting the work of other students in one's work, with the exception of published work, or outputs held in the library as a learning resource, which should be cited and acknowledged appropriately.
- (h) Being party to any arrangement whereby the work of one candidate is represented as that of another.
- (i) The submission, as your own work, of any work that has been purchased, or otherwise obtained from others, whether this is from other students, online services, "cheat sites", or other agents or sources that sell or provide assignments.
- (j) Practices such as 'cutting and pasting' segments of text into your work, without citing the source of each.

- (k) For work not intended to be submitted as a collaborative assignment: producing work with one or more other students, using study practices that mean the submitted work is nearly identical, overall or in part, to that of other students.
- (I) Offering an inducement to staff and/or other persons connected with assessment.

#### **Examinations**

For examinations, academic misconduct means:

- (a) Importation into an examination room of materials or devices other than those which are specifically permitted under the regulations applying to the examination in question.
- (b) Reference to such materials (whether written or electronically recorded) during the period of the examination, whether or not such reference is made within the examination room.
- (c) Refusing, when asked, to surrender any materials requested by an invigilator.
- (d) The application of an electronic device, unless this has been expressly permitted for that examination.
- (e) Copying the work of another candidate.
- (f) Disruptive behaviour during examination or assessment.
- (g) Obtaining or seeking to obtain access to unseen examination questions prior to the examination.
- (h) Failure to observe the instructions of a person invigilating an examination, or seeking to intimidate such a person.
- (i) Offering an inducement to invigilators and/or staff and/or other persons connected with assessment.

Where academic misconduct is suspected, the matter will be dealt with under the *Procedure to be followed in the event of a suspected case of academic misconduct, Part 8, paragraph 4 (or, for postgraduate research students, Appendix I)* of the Manual of General Regulations (available for view at *https://www.uel.ac.uk/Discover/Governance/Policies-Regulations-Corporate-documents/Student-Policies/Manual-of-General-Regulations*). If it is determined that academic misconduct has taken place, a range of penalties may be prescribed which includes expulsion from the programme.

# 1. <u>Definition of Plagiarism</u>

Our University defines plagiarism and other academic misconduct in Part 8 of the UEL Manual of General Regulations (to which all students are referred upon joining UEL), which is reprinted in "The Essential Guide to the University of East London". In this document, the following example of an assessment offence is given:

The submission of material (written, visual or oral), originally produced by another person or persons or oneself, without due acknowledgement\*, so that the work could be assumed to be the student's own. For the purposes of these Regulations, this includes incorporation of significant extracts or elements taken from the work of (an)other(s) or oneself, without acknowledgement or reference\*, and the submission of work produced in collaboration for an assignment based on the assessment of individual work. (Such misconduct is typically described as plagiarism and collusion.)

The following note is attached:

\*(<u>Note</u>: To avoid potential misunderstanding, any phrase that is not the student's own or is submitted by the student for a different assessment should normally be in quotation marks or highlighted in some other way. It should also be noted that the incorporation of *significant* elements of (an) other(s) work or of one's own work submitted for a different assessment, even with acknowledgement or reference, is unacceptable academic practice and will normally result in failure of that item or stage of assessment.)

# 2. <u>Plagiarism in Greater Detail</u>

Work that students submit for assessment will inevitably build upon ideas that they have read about or have learnt about in lectures. That is perfectly acceptable, provided that sources are appropriately acknowledged. It should be noted, however, that the wholesale reproduction of the ideas and words of others, however well referenced, is likely to lead to failure at assessment (see section 6 below)

The submission of work that borrows ideas, words, diagrams, or anything else from another source (or sources), without appropriate acknowledgement, constitutes plagiarism. Plagiarism is not limited to unattributed cutting-and-pasting; it includes the reproduction, without acknowledgement, of someone else's work, taken from a published (or unpublished) article, a book, a website, a friend's (or anybody else's) assignment, or any other source. When an assignment or report uses information from other sources, the student must carefully acknowledge exactly what, where and how s/he has used them. If someone else's words are used, they must be within quotation marks and a reference must follow the quotation. (See section 6 for further guidance on referencing.)

Where a concept or argument in another source is paraphrased (rather than directly quoted), quotations marks should not be used, but it will still be necessary to acknowledge the source. Remember, however, that the making of simple changes to the wording of a source, while retaining the broad structure, organisation, content and/or phraseology of the source, is unacceptable academic practice <u>and</u> will probably be regarded as plagiarism. (For helpful tips on how to avoid plagiarism, see "The Study Skills Handbook" by Dr Stella Cottrell, pages 122-125.)

## 3. <u>Collusion</u>

Collusion is the term used to describe any form of joint effort intended to deceive an assessor as to who was actually responsible for producing the material submitted for assessment. Clearly, students are encouraged to discuss assignments with their peers, but each student must always ensure that, where an individual assignment is specified, the report/essay submitted is entirely the student's own. Students should, therefore, never lend work (in hard or electronic copy) to friends. If that work is subsequently plagiarised by a "friend", an act of friendship might lead to a charge of collusion.

#### 4. <u>When to Reference</u>

Our regulations do not distinguish between deliberate and accidental plagiarism, but you will not be accused of plagiarism, provided that you properly reference everything in your work that was said, written, drawn, or otherwise created by somebody else.

You need to provide a reference:

- when you are using or referring to somebody else's words or ideas from an article, book, newspaper, TV programme, film, web page, letter or any other medium;
- when you use information gained from an exchange of correspondence or emails with another person or through an interview or in conversation;
- when you copy the exact words or a unique phrase from somewhere;
- when you reprint any diagrams, illustrations, or photographs.

# You do not <u>need</u> to reference:

- when you are writing of your own experience, your own observations, your own thoughts or insights or offering your own conclusions on a subject;
- when you are using what is judged to be common knowledge (common sense observations, shared information within your subject area, generally accepted facts etc.) As a test of this, material is probably common knowledge if
  - you find the same information undocumented in other sources;
  - it is information you expect your readers to be familiar with;
  - the information could be easily found in general reference sources.

#### 5. <u>How to Reference</u>

Our University has agreed on a single version of the Harvard referencing system (the School of Psychology uses the American Psychological Association (APA) referencing style) and this (along with APA) can be found in Cite Them Right:

Pears, R. and Shields, G (2013) *Cite Them Right.* Newcastle: Pear Tree Press

Cite Them Right is available on line and hard copies can be found in our libraries and bookshops

# 6. Plagiarism, or Unacceptable Academic Practice?

If work that you submit for assessment includes substantial and significant elements of other sources and all of those sources are appropriately acknowledged, you will not have plagiarised, but you will be culpable of unacceptable academic practice, because there will be too little of your "own voice" to allow your knowledge to be assessed. Work that you submit for assessment must:

- use your own words;
- provide a critical commentary on existing literature;
- aim for novelty and originality;

 demonstrate your understanding of the subject area by paraphrasing.
 Work that does not meet those criteria will fail.

# **APPENDIX F**

# COLLABORATIVE STUDENT ENTITLEMENTS AT UEL

[Please append the student entitlement letter provided by UEL]

# HEALTH AND SAFETY

- One of the principle roles of Ain Shams University administration is controlling dangers and risks. The University is aware that failures in health and safety administration can possibly prompt loss of life, injury, and damage to the University properties.
- According to the University, a fundamental standard of the Health and Safety policy is that it is in the hands of the individuals who cause the dangers and risks to manage and control them.
- The University appoints persons "capable to advice" to help with identifying, recognizing and controlling health and security dangers and risks. They may work in any sector of the University.
- Each College of the University holds a responsibility regarding the management and use of its own health and security policies and strategies. Despite that, the University and Colleges are still obliged to coordinate on the mutual matters of health and security which affect the more extensive University community.
- Heads of the different Departments must set out their own organizational courses of action for the safety measures. In addition, they abide by the general University Health and Safety Policies and are responsible for their implementation and management in their own departments and domains of responsibility.
- Each Head of Department might set up a Departmental Safety Policy, which works hand in hand with this University Health and Safety Policy to satisfy the prerequisite Health and Safety at Work measures.
- Each Head of Department must guarantee that everybody who might be influenced by the activities of the Department, knows about the health and security policies and arrangements, and has sufficient knowledge, information, time, preparation and supervision authority to allow for the identification, recognition and control of the dangers and risks to health and security.
- The supervisor of any departmental activity (field trip, practical work, office work or teaching activities) must have a comprehensive understanding of the related dangers and risks and conduct the risk assessment suitable for the circumstances of the activity. This is to fulfil the requirements of the Health and Safety at Work Regulations and different measures which state that no work might be attempted unless reasonable and adequate risk assessment has been done to define a safe and secure system of work.
- All University staff members are expected to be fully aware of both the University and Department policies and know that they hold the responsibility of this aspect for all those under their supervision or

management. This implies ensuring and promoting good working practices and environment. It also includes ensuring that practical and office work is done in safe spaces, equipment being maintained and checked in safe procedures, that the policies and strategies are being implemented and disseminated and that immediate reporting of any accidents or dangers takes place in order to take the necessary measures.

• The health and safety policy is also abiding to any private body or entity working inside the University premises. They must coordinate with the University on all matters related to health and safety management.