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## **October University for Modern Sciences and Arts**

(MSA)

# B.Sc. Honours Architecture Systems Engineering Programme

# Student Handbook 2021/2022 Validated by the University of Greenwich, London UK

Faculty of Engineering Architecture Systems Engineering Department Head: Prof. Dr. Hisham Mahmoud Aref Mahmoud Shehata Programme Leader: Dr. Omar Nasah Selem Fawzy

ASE Students Handbook 2021/2022

#### Vision

"The Faculty is nationally accredited, and internationally validated, and its programmes are among the top according to global subject ranking criteria".

#### Mission

"The Faculty of Engineering of October University for Modern Sciences and Arts offers modern educational programmes in cooperation with a British partner, supports entrepreneurship and meets job market needs, prepares graduates who are qualified with creative thinking and with engineering, technical, intellectual, professional, and managerial skills, conducts applied scientific research, and participates in community service and environmental development". الرؤية

"الكلية معتمدة قومياً ومعترف بها عالمياً وتحظى برامجها بترتيب متقدم فى التصنيف الدولى فى مجال الهندسة".

#### الرسالة

"تُقدِم كلية الهندسة بجامعة أكتوبر للعلوم الحديثة والآداب برامج تعليمية حديثة، بالتعاون مع شريك بريطاني، تدعم ريادة الأعمال وتلبي احتياجات سوق العمل، وتُعد خريجين مؤهلين للتفكير الإبداعي ومزودين بمهارات هندسية وتقنية وذهنية ومهنية وإدارية؛ وتقوم بالبحث العلمي التطبيقي، وتساهم في خدمة المجتمع وتنمية البيئة".

## القيم الجوهرية للكلية

Justice and Non-Discrimination	<ul> <li>العدالة وعدم التمييز</li> </ul>
Quality and Excellence	<ul> <li>الجودة و التميز</li> </ul>
Integrity and Honesty	<ul> <li>النزاهة والأمانة</li> </ul>
Intellectual Freedom	<ul> <li>الحرية الفكرية</li> </ul>
Transparency	• الشفافية
Creativity	• الإبداع
Respect and Acceptance of Others	<ul> <li>إحترام وقبول الأخر</li> </ul>

## الأهداف الاستراتيجية للكلية

الأهداف الفرعية	الأهداف الاستراتيجية
1/1 تطوير عمل وحدة ضمان الجودة. 1/2 تأهيل الكوادر الأكاديمية والإدارية في مجالات الجودة. 1/3 عمل توعية ونشر لثقافة الجودة. 1/4 التقدم للإعتماد القومي/الدولي.	<ol> <li>إستيفاء متطلبات</li> <li>إلاعتماد من الهيئات</li> <li>القومية/الدولية.</li> </ol>
2/1 تنمية مهارات وقدرات كوادر الكلية في مجالات التعليم والتدريس والتقويم. 2/2 تقديم تعليم إلكتروني يواكب التقنيات العالمية. 2/3 تقديم دعم أكاديمي فعال للطلاب. 2/4 إنشاء برامج تعليمية جديدة تواكب احتياجات سوق العمل. 2/5 تطوير المعامل بأحدث الألات والمعدات والأجهزة والبرمجيات.	2- تطوير الخدمات التعليمية للكلية.
1/3 ربط البحث العلمي بالكلية باحتياجات الخطط بمستوياتها المختلفة. 3/2 تطوير كفاءة أعضاء هيئة التدريس والهيئة المعاونة البحثية. 3/3 نشر أبحاث وإقامة مؤتمرات وندوات وورش عمل علمية. 3/4 عمل مشرو عات بحثية ممولة محليا/دوليا. 3/5 إنشاء برامج دراسات عليا.	<ul> <li>- عمل بحث علمى يلبى</li> <li>- التطورات العالمية.</li> </ul>
1/4 تحديد مجالات المشاركة المجتمعية لتلبى احتياجات المجتمع المختلفة. 4/2 فتح مجال فى التعليم المستمر والتدريب للمجتمع الخارجى. 4/3 إنشاء وحدات ذات طابع خاص . 4/4 تحفيز مشاركة الخريجيين والمجتمع الخارجي فى أنشطة الكلية.	4- تطوير المشاركة المجتمعية للكلية.
1/5 إعداد الطلاب للتعامل مع معطيات الظروف المحيطة. 5/2 إعداد الطلاب للتعامل مع معطيات الظروف المحيطة. 6/1 دعم الأنشطة المختلفة المقدمة للطلاب.	<ul> <li>حقيق أمروب</li> <li>المؤسسية في التعامل مع</li> <li>التحديات.</li> <li>-6 توفير حياة جامعية</li> </ul>
6/2 نشر التجارب الناجحة من أبناء الكلية وخريجيها.	ثرية ومتنوعة.

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### A. Purpose and Status of your Student Handbook

The purpose of this handbook is to provide you with information about your programme of study and to direct you to other general information about studying for a University of Greenwich award.

This handbook must be read in conjunction with the University Catalogue and University Guide and Regulations (<u>http://www.gre.ac.uk/intranet/students.htm</u>).

The material in this handbook is as accurate as possible at the date of production.

Your comments on any improvements to this handbook are welcome - please put them in writing (with name of handbook) to the programme leader *Dr. Omar Nasah Selem Fawzy* 

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## **B. University and Programme Academic Calendar**

## Fall 2021 Academic Calendar -Academic Year 2021 / 2022

Graduation Ceremony Class 2019/2020	Pls refer to MSA Official Facebook for dates		
Graduation Ceremony Class 2020/2021	Pls refer to MSA Official Facebook for dates		
Fall 2021 Semester			
Commencement of online Registration for Continuing Students & Approval of Online Schedules: Note: Each faculty will determine and publish its respective dates for registration on MSA official platforms. Students should kindly contact their faculties for exact dates	Sun 19 Sept 2021 – Thurs 30 Sept 2021		
Newcomers Only: Orientation & Course Registration (Proceedings of the orientation day will be sent to students via email & MSA official platforms)	Sat 2 Oct – Wed 6 Oct 2021*		
October 6th Armed Forces Victory	* Wed 6 Oct 2021 *Subject to transfer to Thursday 7 <sup>th</sup> Oct 2021 as per Governmental Official Announcement		
First Day of Classes for <u>All students</u>	Sat 9 Oct 2021		
Last Day of Classes for all students Fall 2021	Thurs 13 Jan 2022		
New student Activity Week (Details to be sent via emails to students)	Sat 9 Oct 2021 - Thurs 14 Oct 2021		
El Mawled El Nabawi	Tues 19 Oct* Subject to transfer to Thursday 21 Oct as per Governmental Official Announcement		
Deadline to ADD, DROP, WITHDRAW Courses	Student should refer to their respective faculty for ADD, DROP, WITHDRAW Courses Deadline		
BOS Board of Study Meeting (Manag, CS & Engineering) Board of Study Meeting (Pharmacy, Bio) Board of Study Meeting (Lang, Mcom & Arts)	Tues 9 Nov 2021 Wed 10 Nov 2021 Thurs 11 Nov 2021		
MID Term Exams	Sat 20 Nov – Thurs 2 Dec 2021 Subject to amendment via MSA Examination Unit		
Classes Resume	Students should refer to MSA Examination Unit & Respective Faculty for class resume date		
Student Online Course & Instructors Evaluation	Dec 2021 – final exams		
Registration date for UK Student Summer Abroad Programme (Academic, Cultural & Entertainment Programme)	Programme to be confirmed subject to Covid 19 unforeseen updates.		
Commencement of Payment of Fees for Spring 2020	December 2021		
Fall Senior Graduation Photo Week To be confirmed subject to further notice	Pls refer to MSA Official Facebook for dates		

Western Christmas	Saturday 25 <sup>th</sup> Dec 2021
New Year Commencement	Saturday 1 <sup>st</sup> Jan 2022
Eastern Christmas	Fri 7 <sup>th</sup> & Sat 8 <sup>th</sup> Jan 2022
Final Day of classes for Fall 2021	Thurs 13 Jan 2022
Final Exams Duration Fall 2021	First day of exams: Sat 15 Jan 2022* Last day of exams: Thurs 10 Feb 2022* *Subject to amendment via Governmental Notice & MSA Examination Unit
Baptism Day	Wed 19 <sup>th</sup> Jan 2022
National Day	Monday 25 <sup>th</sup> Jan 2022* *Subject to transfer to Thursday 27 Jan as per Governmental official notice
Moderation & Fall University Assessment Boards	Exam Boards UoG: Mon 21 Feb 2022 UoB Exam Board: TBC

## Spring 2022 & Summer 2022

SPRING 2022 SEMESTER	
Schedule Registration starts (Students should refer to his/her respective faculty for details)	Tues 22 Feb 2022 – Fri 25 Feb 2022
First Day of Classes Spring 2022	Sat 26 Feb 2022
Last Day for Classes Spring 2022	Thurs 9 June 2022
Start of Additional 5% fine	Mon 7 March 2022
Start of Additional 10% fine	Mon 14 March 2022
Deadline to Add, Drop, Withdraw courses	Refer to respective faculty for dates and approval
BOS Board of Study Meeting (Pharmacy, Bio) Board of Study Meeting (Manag, CS & Engineering) Board of Study Meeting (Lang, Arts & Design, Mcom) Start of Ramadan	Tues 29 March 2022 Wed 30 March 2022 Thurs 31 March 2022 Sat 2 April 2022*
	Subject to amendment via governmental authorities
Mid Term Exams	Sat 9 April 2022 - Thurs 21 April 2022
Student Online Course & Instructors Evaluation	Mid April 2022 – final exams
Palm Sunday	Sun 17 <sup>th</sup> April 2022
Holy Thursday	Thurs 21 <sup>th</sup> April 2022
Sham El Nassem & Eastern Day	Sun 24 <sup>th</sup> & Mon 25 <sup>th</sup> April 2022* *Subject to amendment as per Governmental Official Announcement

Sinai Liberation Day	Mon 25 <sup>th</sup> April 2022* *Subject to amendment as per Governmental Official Announcement
Eid EL Fetr*	Sun 1 May – Wed 4 May 2022* *Subject to amendment via governmental official announcement
Labor Day	Thurs 5 <sup>th</sup> May 2022
Last date of classes Spring 2022	Thurs 9 June 2022
Spring 2021 Final Exams Start Date - End Date	Sat 11 June 2022 - Thurs 7 July 2022 As per Ministry
Eid El Adha	Fri 8 July 2022- Tues 12 July 2022* *Subject to amendment as per Governmental Official Announcement
June 2013 Revolution	Thurs 30 June 2022
Spring 2022 University Assessment Boards	UoG: Thur 21 July 2022 -UoB: (TBC)
July Revolution Day	Sat 23 July 2022* *Subject to amendment to as per Governmental Official Announcement
SUMMER SEMESTER 2022	
First day of classes Summer 2022	Sun 24 July 2022
Last day of classes Summer 2022	Wed 31 Aug 2022
Hejri Islamic new year	Sat 30 July 2022 Subject to amendment via governmental authorities
Summer 2022 Exams Start date - Summer 2022 Exams End date	Thurs 1 Sept – Wed 7 Sept 2022
Summer 2022 Exam Boards	UoG: Thurs 15 Sept 2022 UoB: TBC
Registration returning	Thursday 15 Sept 2022
Orientation new comer	Sat 17 Sept 2022- Thurs 22 Sept 2022
Fall 2022 (Tentative Date)	Sat 24 Sep 2022

## C. Faculty of Engineering Dean's Welcome

Welcome to the Faculty of Engineering at MSA University.

Programs in the Faculty are connected by a common focus of providing exceptional education in fields that directly support the Faculty of Engineering mission of enriching the quality of life for our students and the community connecting learning to life.

In carrying out this purpose, the Faculty of Engineering is committed to: providing high-quality programs of study, instruction and practice; understanding, promoting, and respecting diversity; supporting students, faculty, staff, and program development; insuring that resources support appropriate classroom and lab experiments; promoting internal and external partnerships; and ensuring students and staff to be engaged in activities that promote effective teaching, assessment, advisement, and professional and community service.

We are dedicated to providing you with the skills, creativity, and resolve to be effective in your future. The education you receive here will provide you with amazing opportunities – in your ability to work in your chosen profession, but more importantly in the way you view the world.

I hope you are able to take full advantage of these life-changing opportunities, and the challenges that accompany them. I wish you much continued success in your academic studies.

Sincerely yours,

Nahed Sobhi

Prof. Dr. Nahed Sobhi Abdel Nour Dean, Faculty of Engineering October University for Modern Sciences and Arts (MSA) has been established under Republican Decree No. 244 for 1996 to introduce state-of-the-art technologies and concepts in all disciplines. MSA is proud that its different programmes were fully accredited before the graduation of its first class in Spring 2000.

MSA is, by all means, the outcome of 4 decades of experience in the field of education on the local and international levels. Dar El Tarbiah was the first Language School founded by Egyptians in 1956. The institution has maintained an excellent reputation, based on the high quality of teaching and facilities that has been recognized both locally and internationally in GCE, IGCSE, GCSE, as well as Egyptian Thanaweya Amma and American Diploma. Our students' excellent performance in the British System has encouraged us to expand the British Section in our school to include both IGCSE & GCSE, simultaneously. Our success in teaching all AL and AS subjects for almost 12 years, with outstanding results in the IGCSE, encouraged us to complete the undergraduate programmes.

The English Language is the medium of instruction at MSA University. The current academic work of the university is divided into nine faculties, namely: Faculty of Management Sciences, Faculty of Engineering, Faculty of Computer Sciences, Faculty of Mass Communication, Faculty of Arts and Design, Faculty of Biotechnology, Faculty of Dentestry, Faculty of Pharmacy, and Faculty of Languages.. We are keen on providing our students with all the up-to-date tools needed to cope with the Information and Communication Technology Era. That is why we are dedicated to the pursuit of excellence in curricula, facilities, staff and students. That is the main reason why our modern and progressive policy has been internationally acknowledged by universities in the UK and USA, as we have several cooperation agreements with prominent universities there. MSA programmes are designed and implemented according to the most up-to-date international standards. All course outlines highlight the role of new and emerging technologies in meeting challenges posed by the Information and Communication Technology Era.

MSA aims to provide its students with an exceptional learning experience that will enable them to compete in the global highly competitive job market. The vast experience of Dar El Tarbiah Institution and MSA University in the field of education made its Top Management keen on adopting the British Education System due to its unique characteristics that provide students with the necessary up-to-date tools and skills in a flexible environment, while at the same time ensuring that students are highly committed and competitive.

Institution Website: <u>www.msa.eun.eg</u>

## E. Introduction to the Faculty of Engineering

The Faculty of Engineering at MSA offers four programmes: B.Sc. (Hons) Architectural Engineering, B.Sc. (Hons) Electrical Communication & Electronic Systems Engineering, B.Sc. (Hons) Computer Systems Engineering, and B.Sc. (Hons) Industrial Systems Engineering. The Faculty of Engineering emphasizes creative and professional aspects of Engineering and Technology; students do not only learn theories, they also mix theory with practice. By the time they graduate, they would have been trained and qualified; and thus, ready to work in the field as professionals.

The Faculty of Engineering offers an Architecture Engineering (ASE) programme which is concerned with the architectural design, and improvement of integrated structural and building systems; as well as, the creative development and application of information technology applicable to cover all schools of architecture. It, also, deals with the principles of architectural modeling: analysis, and design to specify, predict, and evaluate the output as an architectural product of these systems.

**ASE** programme has been developed so that it would follow reputable international standards. It meets the criteria established by The Committee for Engineering Education Sector set up by The Supreme Council of Egyptian Universities, and fulfils local and international needs.

**ASE** Bachelor of Sciences (with Honours) in Architectural Engineering is awarded upon the successful completion of an approved curriclum comprised of a minimum of 168 credit hours, normally effected and completed in five academic years (10 semesters).

**ASE** students are introduced to a broad spectrum of Architectural Engineering topics augmented by modern professional practice, technological experiences and constructions market needs.

**ASE** curriculum emphasizes the need of multifaceted education to close the gaps between art and science, between form and substance, and between aesthetics and technology. The curriculum, therefore, inspires and exposes the architectural students to as wide range of experiences as possible. This will enable students to discover their potentials and interests.

## F. Introduction to The University of Greenwich

#### The programmes

The programme is validated by The University of Greenwich. This means that students, successfully completing all parts of the programme, will receive a dual award: the B.Sc. (Hons) from the University of Greenwich, and the B.Sc. (Hons) from October University for Modern Sciences and Arts (MSA); and may, if they wish to, attend the appropriate Greenwich graduation ceremony. Students will enrol as students of October University for Modern Sciences and Arts (MSA), and will be registered with the University of Greenwich.

If a student does not complete the full programme, he/she will be given a transcript recording any individual elements of the programme successfully completed.

The programme is supervised by the programme leader Prof. Dr. Samer Ibrahim Mohamed, Campus Building C, Address 26 July Mehwar Road, Intersection with Wahat Road, 6<sup>th</sup> October City; Telephone 33365037; Fax 37603811.

#### The University regulations

MSA acts in accordance with its procedures, discussed in the University Assessment Board, in the case of student dishonesty or a student appeal.

#### Further Documents held by MSA

The Faculty should, also, hold reference copies of the following documents for consultation by the students and staff:

- The University of Greenwich Charter for Students on Collaborative Programmes.
- The Memorandum of Co-operation for the Programme. This is the formal agreement between the University of Greenwich and MSA University on the delivery of the Programme.
- Quality Assurance Agency for Higher Education Code for England and Wales: Code of Practice: Collaborative Provision.

# I.B.Sc. Honours Architecture Systems Engineering Programme specification

1. Awarding Institution	2. Teaching Institution	3. Faculty/Depar	rtment		
University of Greenwich	October University for Modern Sciences and Arts (MSA)	Engineering Architectural Systems Engineerin			
4. Final Award	5. Programme Title and approved endorsements:	6. Qualification Level as defined by the UK Framework for Higher Education Qualifications (Please refer to D5 Guidance notes)			
B.Sc. (Hons) Architectural Systems Engineering (MSA)	Architectural Systems Engineering	4	5	6	
				X	
7. Accredited by:	8. UCAS Code:				
Supreme Council for Egyptian Universities	None				
9. Maximum/ Minimum Period(s) of Regist	tration				
F/T Minimum 5 years – Maximum 10 years N.B. Minimum period can be 4.5 years equivalent to 9 regular semesters with condition of 168 credits completed.	P/T	SW	D/L		
10. Programme Code       11. Last Revision date for Programme Specification					
BSc (Hons.) P 11231		Feb. 2010			
12. External Reference Points, e.g. subject	benchmark statements and	professional body	requirement	S	
<ul> <li>The following reference points were used in designing the programme:</li> <li>Supreme Council for Egyptian Universities (SCEU) Regulations.</li> <li>Criteria established by the Committee for Engineering Education set up by SCEU.</li> <li>QAA guidelines for programme specifications.</li> <li>MSA University Council.</li> </ul>					
13. Entry Requirements					
<ol> <li>Accruing the Entry score set by Supr</li> <li>Passing MSA English placement entr</li> <li>Submitting authenticated original cer</li> </ol>	reme Council for Egyptian Un y Exam tificate and documentation.	iversities			
14. Educational Aims of the Programme a	nd Potential Career Destina	tions of Graduate	s [Maximum	150 words]:	
The aim of the BSc degree in Architectural Engineering is to provide a coherent multi-disciplinary programme of study which offers a thorough grounding in Architectural Engineering. The programme develops the student's ability to reconcile divergent factors and integrate domains of knowledge in the articulation of an architectural proposition. It equips the student with the tools necessary to design projects of substantial complexity, and to integrate to a professional level advanced technical and environmental knowledge in the resolution of such projects. Because of its' inter disciplinary nature, the degree will allow the student the flexibility to take up a range of different careers across the architectural profession and the construction job market whether in an architectural firm or a construction/contracting company. The careers range from an architectural designer, to a working drawings/construction document producer or CAD operator, to a site supervisor/engineer. Graduates could as well undertake further training or study to develop their expertise in related fields such as construction management, landscape architecture, urban planning or design, and interior design.					
15. Summary of Skills Development for Students within the Programme [Maximum 150 words]:					
The BSc degree in Architectural Engineering provides a solid foundation in Architectural Design through a large number of consecutive design studios dealing with different architectural projects of increasing complexity. The degree					

programme develops the student's ability to design and represent projects of a variety of building types, and produce working drawings and construction documents from which projects could be realized.

The student will develop skills in drafting both manually and through the use of a number of computer-aided design software, such as Auto CAD, Archicad, 3D Max, etc. Upon graduation, the student will be able to work creatively and flexibly in a variety of media from drawings to models, to photographs, to computer renderings in order to visualize designs and communicate them. Furthermore, the programme provides the opportunity to improve the capacity for independent thought while maintaining and developing the student's ability to work in groups.

#### 16. The programme provides opportunities for students to achieve the following outcomes:

#### Knowledge and understanding of:

#### Students are expected to show considerable understanding of:

- 1. The principles and methods of design, the various approaches to the design process, presentation of architectural drawings, and the methods of communication of design ideas.
- 2. The principles of structural, constructional and environmental systems and techniques.
- 3. The project management of the construction process including site supervision, construction management, financial planning, together with the organizational aspects of architectural projects.
- 4. The underlying historical and theoretical issues relevant to architectural design.
- 5. Physical modeling, multi-dimensional visualization, multimedia applications, and computer-aided design.
- 6. The various dimensions of the housing problem and the range of approaches, policies, and practices that could be carried out to solve this problem.
- 7. The principles of sustainable design, climatic considerations, and energy consumption in buildings and their impact on the environment.
- 8. The conventional process, professional inter-relationships, and legal contexts within which buildings are realized, including building codes and zoning regulations, the professionalism for architects- their role in society and their legal and ethical responsibilities.

#### 17. The programme provides opportunities for students to develop the following skills:

#### Intellectual skills

#### Students will be expected to demonstrate the ability to integrate learning across disciplines.

#### Students will be able to:

- 1. Analyze and evaluate the requirements of a range of building types and balance the constraints imposed by society, technology, resources, finances, society, government regulatory entities to devise or judge a project's design.
- 2. Predict possible consequences and assess expected performance of design alternatives.
- 3. Compare and practically choose among existing representation media such as drawing, models, photography, computer software programs and digital media, such as AutoCAD and Archicad, etc.
- 4. Integrate relationship of structure, building materials, and construction elements into design process.
- 5. Explore and discuss the cultural, ethical and legal issues relevant to an architectural project.

#### Subject practical skills

#### Students will be able to do the following:

- 1. Design, represent and present architectural, urban, and planning projects comprising a variety of building types including alterations and additions to existing buildings (retrofitting and rehabilitation of buildings) using an appropriate range of media and design-based software.
- 2. Create and present documentation for professional presentations, write technical reports, and other documents required by architects for the design and construction of projects.
- 3. Produce professional workshop and technical drawings comprising working drawings and construction documents from which projects could be realized using traditional and computer- aided drawing techniques.
- 4. Use appropriate construction techniques and materials to specify and implement different designs.
- 5. Participate professionally in managing construction processes.
- 6. Work creatively and flexibly in a variety of media, such as drawings, models, computers, and photographic techniques to visualize designs, and to communicate them.

#### Transferable/key skills

#### Students will be able to do the following:

- 1. Lead and motivate Individuals.
- 2. Collaborate effectively within multi-disciplinary teams.

- 3. Demonstrate efficient IT capabilities using a plethora of presentation and software media, such as AutoCAD, Archi-Cad, Photoshop, 3DMax, as well as the internet and digital cameras.
- 4. Work in stressful environments and within constraints.
- 5. Communicate effectively at a professional level both verbally and graphically.
- 6. Manage tasks, time, and resources efficiently.
- 7. Search for information and engage in lifelong self-learning.
- 8. Refer to relevant literature.
- 9. Acquire entrepreneurial skills.

### Graduate Attribute

#### Graduates will be able to do the following:

- 1. Design architectural projects of various complexities with creativity and technical mastery.
- 2. Work effectively with professionals from other disciplines and in response to challenges.
- 3. Interact critically with the institutional structures within which architectural practice takes place.
- 4. Acquire new knowledge and skills directly relevant to many aspects of modern employment.
- 5. Effectively communicate with peers and mentors from diverse backgrounds.
- 6. Manage available resources efficiently even in unfamiliar situations.
- 7. Develop skills that will help their continuing development as lifelong learners.
- 8. Communicate in more than one language and thus could work in multi-national establishments globally.

#### Greenwich Graduate Attributes

Your programme of study will be developing the Greenwich Graduate Attributes. This will be reflected in its learning outcomes and will be embedded in its specific discipline areas.

The University of Greenwich has always aimed to provide an environment that allows students to maximise their potential. In meeting the challenges of today's tough and changing world our consultation with staff and students resulted in defining distinctive characteristics for the Greenwich Graduate. These explicit behaviours, values, skills and dispositions that we expect our students to develop will best prepare them for their future careers and help us to reshape student learning and assessment activities.

A flourishing scholarly community, with an ethos of sustainability and a global outlook, full of confident, distinctive students, always learning, always developing.

#### Scholarship and autonomy

The University of Greenwich is committed to developing graduates who:

- Have an informed understanding of their discipline or professional practice, and the ability to question its principles, practices and boundaries
- Think independently, analytically and creatively, and engage imaginatively with new areas of investigation
- Appreciate disciplines and forms of professional practice beyond their own, and draw connections between them
- Are intellectually curious, responsive to challenges, and demonstrate initiative and resilience.

#### Creativity and enterprise

The University of Greenwich is committed to giving its graduates the confidence to:

- Recognise and create opportunities, and respond effectively to unfamiliar or unprecedented situations or problems
- Generate new ideas and develop creative solutions or syntheses
- Communicate clearly and effectively, in a range of forms, taking account of different audiences
- Make use of familiar and emerging information and communication technologies
- Seize and shape the opportunities open to them on leaving university.

#### **Cross-cultural and international awareness**

The University of Greenwich is committed to producing graduates who:

- Engage effectively in groups whose members are from diverse backgrounds
- Appreciate the importance of behaving sustainably
- Move fluently between different cultural, social and political contexts
- Value the ability to communicate in more than one language.

#### MSA Mapping of Greenwich Graduate Attributes for ASE Programme

The University of Greenwich initiative for graduates- the Greenwich Graduate Attributes- seeks to recognize that while

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disciplinary knowledge is important, graduates will leave with skills and values which will equip them for life outside the university. At MSA, the same objective has been in place although not similarly categorized. Much of what lies at the heart of the initiative is present in the MSA Graduate Attributes (above), as will be discussed below.

The initiative recognizes three core elements: *Scholarship and autonomy*, *Creativity and enterprise*, and *Cross-cultural and International awareness* which are seen as the elements which reflect most the University of Greenwich.

**Scholarship and autonomy:** MSA department of Architecture graduates *have an informed understanding of their discipline* prior to graduation through the senior year courses Professional Practice (ASE561) and Construction Management (ASE 562) which prepare students to life after university. The former introduces them to the various career paths they might tread as graduates of Architectural Engineering, the professional body to which they will become members (Egyptian Syndicate of Engineers), the building codes and zoning regulations, and contractual obligations (items 3 and 8 of the *knowledge and Understanding* Intended Learning Outcomes, and items 1 and 5 of the *Intellectual Skills* that students will be able to demonstrate). They will be able to *interact critically with the institutional structures within which architectural practice takes place* (item 3 in *Graduate Attributes* above). Through the latter along with the specs, the bill of quantities, the bidding process, etc. all essential documents in their chosen profession (item 3 of the *knowledge and Understanding* Intended Learning Outcomes, item 3 in *Subject Practical Skills*, and item 1 of the *knowledge and Understanding* Intended Learning Outcomes, item 3 in *Subject Practical Skills*, and item 1 of the *Knowledge Skills*).

*They come to appreciate disciplines and forms of professional practice beyond their own* through the 6 structural engineering courses (CVL255, 265, 355, 365, 455 and GSE253) and the 2 technical courses (GSE366 and 465) which introduce them to the related disciplines which they will be dealing with in the construction industry when they graduate. They will be able to *Work effectively with professionals from other disciplines and in response to challenges* (item 2 in *Graduate Attributes*, above). The architect heads a team of structural engineers, mechanical and electrical engineers in his/her role as leader of a design project. He/she has the ability to understand, assemble and coordinate all those disciplines to see a design project materialize into a built building (item 4 of the *Intellectual Skills*, and item 3 *Practical Skills*, above).

Lastly, and through sampling related courses such as interior design, urban planning and design, construction management and landscape design, students in Architecture could specialize in any of those related disciplines upon graduation which opens up career paths for MSA graduates other than Architecture.

**Creativity and enterprise:** MSA department of Architecture graduates learn to be creative through the 8 design courses in the first four years of the programme. They are mentally challenged to come up with unique and original conceptions. Through this rigorous process they are taught to be innovative and resourceful. Additionally, they are drilled to be able to defend their design decisions through continuous one-on-one instruction in the design studio. They develop confidence with graphic and verbal communication and presentation skills during crits and the jury system. Accordingly, they can *communicate clearly and effectively* both graphically using a variety of media and verbally *to different audiences.* (*Graduate Attribute* item 5: *Effectively communicate with peers and mentors from diverse backgrounds*, and item 5 of *Transferable/Key Skills*).

Through the 2 computer graphics courses (COM266 and 356) they are equipped with the tools necessary to explore and experiment with new software and *emerging information and communication technologies*. (*Knowledge and Understanding* Item 5, *Intellectual Skills* item 3, *Practical Skills* items 1, 3 and 6, and item 3 *Transferable/Key Skills* above).

**Cross-cultural and International Awareness:** MSA department of Architecture graduates had ample opportunities as students to join workshops abroad, (Tuscany, Italy/ Serres, Greece/ Stuttgart, Germany/ Mecca, Saudi Arabia) and work in groups with students from other countries. Additionally, level 4 students can opt for the joint summer elective with the University of Greenwich whereby they work jointly with their British counterparts. As stated in the Critical Appraisal report, the student body at MSA is diverse with Egyptian and Non-Egyptian students especially from other Arab Countries. Most MSA students are multi-lingual and can converse in English and Arabic, those from French schools could speak the three languages. This could enhance their chances of employability in multi-national establishments worldwide. (*Graduate Attribute* item 8: *Communicate in more than one language and thus could work in multi-national establishments globally*)

**18. Teaching, Learning and Assessment Methods related to the programme learning outcomes and skills sets**ASE Students Handbook 2021/202216

#### A. Knowledge and understanding of:

## Teaching/ Learning methods

- Attainment of items 1 and 7 is through a combination of design studio instruction and lectures, and both individual and team or group work in years 2, 3, 4 and 5.
- Attainment of Items 2 and 4 is through a combination of lectures and seminars, and both individual and team work in years 2 and 3.
- Attainment of item 5 is through a combination of lectures, interactive computer-based and studio instruction in years 2, 3, 4 and 5.
- Attainment of Items 3, 6 and 8 is through a combination of lectures and seminars, and both individual and team or group work in years 4 and 5.

#### Assessment

- Assessment of Items 1, 6 and 7 is through a combination of architectural projects and design examinations, individual and group coursework in years 2, 3, 4 and 5, as well as final year thesis report and project. Those might include case study orientated reports (requiring critical investigation, reviewing and analysis of published information), PowerPoint-based presentations which contribute to the evaluation of communication skills.
- Assessment of item 5 is through computer-based assignments and examinations.
- Assessment of Items 2, 3, 4, and 8 is through a combination of unseen written examinations, and individual and group coursework in years 2, 3, 4 and 5.

### **B. Intellectual Skills**

#### **Teaching/ Learning methods**

• Attainment of Items 1, 2, 3, 4, and 5 is through a combination of lectures, seminars, computer laboratories, and both individual and team or group work in years 2, 3, 4 and 5.

#### Assessment

- Assessment of Items 1, 2, and 4 is through a combination of individual and group coursework, maxi-projects, mini-projects, and final year thesis and project in years 2, 3, 4 and 5. A range of methodologies including critical essays, presentations, reports and tests are used to evaluate intellectual development.
- Assessment of Item 3 is through a combination of practical computer-based exercises, and mini-projects and exams in years 2, 3 and 4.
- Assessment of Item 5 is through a combination of individual and group coursework including PowerPoint-based presentations, reports and critical essays.

### C. Subject Practical Skills

#### **Teaching/ Learning methods**

- Attainment of Items 1, 2, 3 and 4 is through a combination of lectures, design studios, and both individual and team or group work in years 2, 3, 4 and 5. Practical-based work includes site visits, recording of data, and report writing.
- Attainment of Item 5 is through a combination of lectures and seminars, and both individual and team or group work in years 4 and 5.
- Attainment of Item 6 is through a combination of lectures, seminars, computer laboratories, and both individual and team or group work in years 3, 4 and 5.

#### Assessment

• Assessment of Items 1 through 6 is through a combination of individual and team or group coursework, practical computer exercises, and design projects in years 2, 3, 4 and 5. Practical-based skills are evaluated by reports and practical project reports where appropriate.

#### D. Transferable/Key Skills

### Teaching/ Learning methods

- Attainment of Items 1 and 5 is through a combination of lectures, design studios, and both individual and team or group work in years 2, 3, 4 and 5.
- Attainment of Items 2, 3, 4, 6, 7 and 8 is through a combination of lectures, seminars, computer laboratories, and both individual and team work in years 2, 3, 4 and 5.

#### Assessment

- Assessment of Item 1 is through a combination of individual and group coursework and design projects.
- Assessment of Items 2 through 8 is through a combination of individual and group coursework, practical computer-based exercises and design projects in years 2, 3, 4 and 5. The ability to evaluate and critically

appraise information will form part of the assessment procedures in upper level courses, particularly the final project report.

19. Progra	amme Structure: Levels, Courses <sup>1</sup> and Credits	Awards and Credits
Level 4	Compulsory CoursesTerm 1ASE351 Architectural Design IIIASE352 Architectural History and Theories IIIASE353 Interior DesignASE354 Building Construction IICVL355 R.C. Structures and Foundations ICOM356 Architectural Computer Graphics IITerm 2ASE361 Architectural Design IVASE362 Architectural History and Theories IVASE363 Urban Planning and DesignASE364 Working Drawings ICVL365 R.C. Structures and Foundations IIGSE366 Technical Services Systems IOptional CoursesCourses required for named endorsements (if applicable)	Certificate of Higher Education (Cert. HE) N/A
Level 5	Compulsory CoursesTerm 1ASE451 Architectural Design VASE452 Landscape DesignASE453 Elective IASE453 Elective IASE454 Working Drawings IICVL455 Steel StructuresTerm2ASE461 Architectural Design VIASE462 Housing Planning and DesignASE463 Elective IIASE464 Working Drawings IIIGSE465 Technical Service Systems IIOptional CoursesOptions for Electives I and IIOptional courses required for named endorsements (if applicable)	Diploma of Higher Education (Dip. HE) N/A
Level 6	Compulsory Courses Term 1 ASE551 Architectural Design VII ASE552 Working Drawings IV ASE553 Elective III ASE554 Graduation Project I Term 2 ASE561 Professional Practice and Building Regulations ASE562 Construction Management ASE563 Elective IV ASE564 Graduation Project II Optional Courses Options for Electives III and IV Optional courses required for named endorsements (if applicable)	Honours Degree BSc. (Hons.) Architectural Systems Engineering 168 credits

<sup>&</sup>lt;sup>1</sup> Please indicate clearly whether a course runs in Term 1, Term 2 or across the academic year ASE Students Handbook 2021/2022

## ASE FIVE-YEAR PLAN

#### 54 Courses

168 Credits

#### **General Engineering**

Fall Semester					Spring Semester				
	Code	Subject	C r	Pre.req.	Code	Subject	Cr	Pre.req.	
	MAT151	Calculus I	3	None	MAT161	Calculus II	3	MAT151	
r 1	BSC152	Engineering Physics I	3	None	BSC162	Engineering Physics II	3	BSC152	
(eai	GSE153	Engineering Mechanics I	3	None	<b>GSE163</b>	Engineering Mechanics II	3	GSE153	ear
1	GSE154n	Engineering Drawing	3	None	<b>BSC164</b>	Chemistry	3	None	, -
	COM155	Introduction to Information Technology	3	None	GSE165	Workshop Technology	3	None	
	ENG156	Academic English Writing	3	None	ENG166	Technical English Writing	3	ENG156	

#### **Architectural Engineering**

					<u> </u>	0	
	Code	Subject	C r	Pre.req		Code	
	ASE251	Architectural Design I	4	GPA>2.0		ASE261	Arc
2	ASE252	Architecture History and Theories I	3	None		ASE262	Arc Theo
Year	ASE253	Architectural Graphics	3	GSE154n		GSE263	Env Syste
	GSE254a	Engineering Surveying	2	MAT151		ASE264	Bui
	CVL255a	Structural Analysis	3	GSE163		CVL265a	Pro Mate
	ENG256	Research English Writing	3	ENG166		COM266	Arc Gra

Code	Subject	Cr	Pre.req.	
ASE261	Architectural Design II	4	ASE251	
ASE262	Architecture History and Theories II	3	ASE252	
GSE263	Environmental Control Systems	2	BSC162	Year
ASE264	Building Construction I	3	None	2
CVL265a	Properties and Strength of Materials	3	CVL255a	
COM266	Architectural Computer Graphics I	3	GSE154n	

	Code	Subject	C r	Pre.req.
	ASE351	Architectural Design III	4	ASE261
ear 3	ASE352	Architecture History and Theories III	3	ASE262
	ASE353	Interior Design	2	ASE261
Y	ASE354	Building Construction II	3	ASE264
	CVL355	R.C. Structures and Foundations I	3	CVL265a
	COM356	Architectural Computer Graphics II	3	COM266

Code	Subject	Cr	Pre.req.	
ASE361	Architectural Design IV	4	ASE351	
ASE362	Architecture History and Theories IV	3	ASE352	1
ASE363	Urban Planning and Design	2	ASE261	/ea
ASE364	Working Drawings I	3	ASE354	IT 3
CVL365	R.C. Structures and Foundations II	3	CVL355	•••
GSE366	Technical Service Systems I	2	BSC162	

	Code	Subject	C r	Pre.req.
_	ASE451	Architectural Design V	5	ASE361
ar 4	ASE452	Landscape Design	2	ASE361
Ye	ASE453x	ASE Elective I	3	Min100 Cr.
	ASE454	Working Drawings II	3	ASE364
	CVL455	Steel Structures	3	CVL365

Year 5	Code	Subject	C r	Pre.req.	-
	ASE551	Architectural Design VII	5	ASE461	
	ASE552	Working Drawings IV	4	ASE454	
	ASE553x	ASE Elective III	3	Min120 Cr.	
	ASE554	Graduation Project I	2	Min140 Cr.	

Code	Subject	Cr	Pre.req.	
ASE461	Architectural Design VI	5	ASE451	
ASE462	Housing Planning and Design	3	ASE363	Ye
ASE463x	ASE Elective II	3	Min.100 Cr	ar 4
ASE464	Working Drawings III	4	ASE454	
GSE465	Technical Service Systems II	2	BSC162	

Code	Subject	Cr	Pre.req.	
ASE561	Prof. Practice and Bldg. Regulations	3	ASE364	Y
ASE562	<b>Construction Management</b>	3	ASE364	ear
ASE563x	ASE Elective IV	3	Min 120 Cr.	U.
ASE564	Graduation Project II	5	ASE 554	

## **Architectural Engineering Electives:**

Architectural Students are required to successfully complete 4 elective courses (12 credit hours) in the final two years. Electives are designed to enhance the students knowledge, keep them abreast with current debates in Architecture and broaden their view of the opportunities available after graduation. The elective courses would follow certain themes of architectural concern. The suggested themes for each elective will include Advanced Methods of Representation, Humanities and Historical Issues in Architecture, Environmental and Urban Issues, Technological Issues, Behavioral and Social Issues.

The following comprise suggested topics per elective course, with others to be added as per circumstances and/or availability of specialised staff deem necessary.

ASE 453 and ASE 463 and ASE 553 and ASE563
Elective I (ASE 453) : ASE4531: Interior Presentation Techniques.
ASE4532: Advanced Computer Presentation.
ASE4533: GIS in Architectural and Urban Applications.
ASE4534: Architectural Photography.
Elective II (ASE463): ASE4631: History of Interior Design.
ASE4632: Contemporary Islamic Architecture.
ASE4633: History of Urban Form.
ASE4634: Community Development Strategies.
Elective III (ASE553): ASE5331: Global Vernacular Architecture.
ASE5332: Thermal Comfort in Architecture.
ASE5333: Green Architecture Principles.
ASE5334: Human Settlements in Developing Countries.
Elective IV (ASE563): ASE5631: Advanced Construction Technology.
ASE5632: Building Safety and Security.
ASE5633: Pre-Fabrication in Architecture.
ASE5634: Appropriate Building Technology.
ASE5635: Entrepreneurship and Small Business Management.

### K. Faculty Regulations: Architecture Systems Engineering Programmes

- Engineering students who passed the English Placement Test, and registered ENG156 or above, must complete 56 courses (168 credit hours) with a Cum. GPA 2.0 as a minimum, in not less than four years and half-academic years.
- The 56 courses are distributed over the 5 academic years as follows:

	Fall Semester		Spring Semester		
level	Courses	Credits	Courses	Credits	
1 <sup>st</sup>	6	18	6	18	
2 <sup>nd</sup>	6	18	6	18	
3 <sup>rd</sup>	6	18	6	17	
4 <sup>th</sup>	5	16	5	17	
5 <sup>th</sup>	4*	14	4*	14	

\*including the Graduation Project (Part I & II)

#### **Graduation Project Regulations**

- Registration of Graduation Project (Part I) requires the following:
  - A minimum Cum. GPA of 2.0.
  - A minimum credits of 138.
- Registration of Graduation Project (Part II) requires the following:
  - A minimum Cum. GPA of 2.0.

#### ENG 50 & 80 & 90 Student Regulations

- ENG50 students could register 3 courses, in addition to the intensive English course requirement.
- ENG80 students could register 4 courses, in addition to the intensive English course requirement.
- ENG90 students could register 5 courses, in addition to the intensive English course requirement.
- ENG50 & 80 & 90 students, who pass the intensive English requirements and more to register ENG156, will be treated as newcomers; and therefore, they can register 6 courses regardless of their GPA.

# K. Faculty Regulations: Architecture Systems Engineering Programmes (cont.)

#### **Students on Probation Regulations**

- Student who gets a Cum. GPA less than 2.0, he/she becomes on probation and will not be allowed to register the following semester, unless he/she signs a warning and his/her parents will be notified officially.
- Student who reaches a probation level 6 or above, his/her parents will be notified officially, and will not be able to register the following semester unless his/her parents meet the Dean.
- Student, who continues to get a Cum. GPA less than 2.0 and reaches probation level 10, will be dismissed from the Faculty and will not be able to return.

#### **Deprived Students Regulations**

• Student is aware upon registration that he/she is not allowed being absent for any excuses (medical, travel, accident, or any other reasons) more than 25 % in any course. Otherwise, he/she will be deprived from the course, and be given an Automatic "F1".

## L. Subject/Programme Staff List and Contact Details

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