

Programme specification

1. Overview/ factual information

1. Overview/ factual information		
Programme/award title(s)	 BSc (Hons) Artificial Intelligence (360 points) DipHE IT & Computing (Artificial Intelligence) (240 points) Cert HE IT & Computing (Artificial Intelligence) (12 points) 	
Teaching Institution	Arab Open University (AOU)	
Awarding Institution	The Open University (OU) The Arab Open University (AOU)	
Date of first OU validation	16 June 2021	
Date of latest OU (re)validation		
Next revalidation	2026	
Credit points for the award	360 points	
UCAS Code	NA	
HECoS Code	100403 – mathematics 100359 - Artificial intelligence 100992 - machine learning	
LDCS Code (FE Colleges)	NA	
Programme start date and cycle of starts if appropriate.	September 2021	
Underpinning QAA subject benchmark(s)	Subject Benchmark Statement 2019 by Quality Assurance Agency for Higher Education's (QAA's), refer to https://www.qaa.ac.uk/docs/qaa/subject-benchmark-benchmark-statement-computing.pdf?sfvrsn=ef2c881_10	
Other external and internal reference points used to inform programme outcomes. For apprenticeships, the standard or framework against which it will be delivered.	 External: Computer Science Curricula 2013, ACM-IEEE Computer Society 	



	 The Bachelor Degree Award Requirements Bylaws, Arab Open University https://www.arabou.edu.kw/university/Documents/Regulations/student/en/The%20Bachelor%20Award%20Examinations%20and%20Assessment%20Bylaws.pdf 	
Professional/statutory recognition	Recognised by Ministries of Higher Education in KSA, Kuwait, Lebanon, Egypt, Oman, Jordan, Bahrain, Sudan, Palestine and validated by Open University Validation Partnerships (OUVP), UK.	
For apprenticeships fully or partially integrated Assessment.	NA	
Mode(s) of Study (PT, FT, DL, Mix of DL & Face-to-Face) Apprenticeship	Blended Learning	
Duration of the programme for each mode of study	Full time [3.5 - 12] Years	
Dual accreditation (if applicable)	 The Open University (OU), United Kingdom The Arab Open University (AOU), accredited from the Ministry of Higher Educations (MoHEs) 	
Date of production/revision of this specification	April 12, 2021	



2. Programme Aims and Objectives

2.1 Educational aims and objectives

Artificial Intelligence Programme provides a strong theoretical infrastructure, along with deep technical focus to ensure that graduates have the right combination of theoretical background and technical ability. This unique combination of theoretical knowledge and technical capabilities are equipped to enjoy significant rewards in the world's most challenging industry.

Professionals working in the software industry at large bring many kinds of expertise to their work environment. The aim of the AI Programme is to equip the student with the knowledge and skills he/she will need to take part in software related industry. AI programme aim is to:

- 1- Prepare students for a professionally proven career able to meet industry demand for high calibre graduates in the domain of Computing and Artificial Intelligence as well as their related fields.
- 2- Provide students with necessary knowledge in Mathematics and Computing to enable their depth and breadth study in the Artificial Intelligence fields.
- 3- Develop students' theoretical and practical skills over a broad range of Artificial Intelligence key areas together with a knowledge of currently available tools and technologies.
- 4- Build the students' practical and analytical skills required for software development, such as analysis, design, implementation, evaluation and maintenance.
- 5- Develop students' legal background and ethical standards to become a responsible and socially aware information technology professional.
- 6- Nurture student's confidence and transferable skills in communication, self-learning, scientific research, problem-solving, critical thinking, as well as being efficiently able to work in a team and as an individual.

2.2 Relationship to other programmes and awards

(Where the award is part of a hierarchy of awards/programmes, this section describes the articulation between them, opportunities for progression upon completion of the programme, and arrangements for bridging modules or induction)

To obtain the BSc. Honour's degree in Artificial Intelligence, students must achieve 360 credit points in core modules.

2.3 For Foundation Degrees, please list where the 60 credit work-related learning takes place. For apprenticeships an articulation of how the work based learning and academic content are organised with the award.

NA

2.4 List of all exit awards

- DipHE IT & Computing (Artificial Intelligence) (240 points)
- Cert HE IT & Computing (Artificial Intelligence) (120 points)



3. Programme structure and learning outcomes

Programme Structure Compulsory modules Optional Credit Credit Is module Semester runs compensatable? points modules Hours in Level 0: Foundation Year including University and Faculty requirements NA 15 Nil 4 MT141 Introduction to Probability and Statistics 15 Nil NA 4 Level 1 TM103 Computer Architecture and Organization (AOU) 15 Nil 4 NA A.Y. 2021-2023 MT131 Discrete Mathematics 15 Nil 4 NA MT132 Linear Algebra Level 4 30 Nil 8 NA (OU) M110 Python Programming 30 NA Nil 8 TM112 Introduction to Computing and Information Technology 30 Nil 8 NA M269 Algorithm, Data structure and Computability Level 2 30 Nil 8 NA TM270 Artificial intelligence (AOU) 8 30 Nil NA TM271 Machine Learning and Deep learning A.Y. 2023-2024 Level 5 Nil 15 4 NA TM275 Parallel and Distributed System (OU) 15 NA Nil 4 TM276 Software Development Processes and Methodologies 30 Nil 8 NA Level 3 TM351 Data Management and Analysis (AOU) 30 Nil 8 NA TM340 Natural Language Processing A.Y. 2024-2025 30 Nil 8 NA TM341 Computer Vision Level 6 30 Nil 8 NA (OU) TM471 Graduation Project



Intended learning outcomes are listed below:

<u>Learning Outcomes</u>				
3A. Knowledge and understanding				
Learning outcomes:	Learning and teaching strategy/ assessment methods			
 A1. Recognize the mathematical and statistical foundations of Al computing systems along with comprehensive knowledge of programming languages, styles, data structures and algorithms. A2. Identify principles and tools available to software development processes and methodologies. A3. indicate core disciplines of Al such as machine learning, deep learning, knowledge extraction and processing, parallel and distributed systems, and natural language processing. A4. Describe systems requirements for both rule-based and data driven systems including the recognition and analysis of criteria and models leading to specifications used in the solution of specific Al problems. A5. Recognize the professional, psychological, ethical, social and legal issues that can be associated with the development and deployment of Al systems 	Learning and teaching strategy: Knowledge and understanding is acquired from specially prepared teaching texts for majority of modules, supported by self-assessment and in-text questions, reference texts, multi-media packages, directed reading, computer mediated conferencing, web-based resources, and video and audio recordings. Student learning is supported by a tutor, who is the student's first and main point of contact, answering their queries, grading and commenting on their work. AOU's learning/teaching strategy provides contact hours that are equal to 25% of the course credit hours. Thus, AOU students experience the benefits of both the open and traditional university systems. The Artificial Intelligence programme will be delivered through two complementary modes: 1. Face-to-face interactive tutorials, constituting 25% of course credit hours.			



Learning Outcomes

3A. Knowledge and understanding

2. Interactive self-learning delivered through specially designed teaching and support materials that are conducive for self-learning, constituting 75% of course credit hours.

Students work independently with the teaching materials but are encouraged to form self-help groups with other students, communicating face-to-face, email and computer conferencing.

Assessment Strategy: Assessment of the knowledge and understanding components of the Artificial Intelligence programme is achieved through a combination of continuous assessment and exams. These assessments are central to the teaching of each module, enabling tutors to identify and comment on student knowledge and understanding. Every major module comprises of:

- Tutor marked assignments (TMAs)
- Midterm Assessment (MTA)
- Final Exam

However, other assessment mechanisms are used for specific modules and graduation project.



3B. Cognitive skills			
Learning outcomes:	Learning and teaching strategy/ assessment methods		
Students graduating from the AI programme should be able to: B1. Use your judgment in applying and selecting a wide range of applications of AI and an understanding of their suitability to a range of problem domains. B2. Construct an abstract model for a given problem and devise appropriate mechanized techniques to solve the problem B3. Apply and critically evaluate key computing and AI concepts in a range of contexts B4. Select and apply appropriate AI techniques and tools for abstracting, modelling, problem solving, designing, implementing and testing AI systems and be aware of the limitations involved B5. Device and carry out AI project that applies and extends your knowledge and understanding and critically reflect on the processes involved and the outcomes of your work	Learning and teaching strategy: Cognitive skills and processes are introduced at a very simple level at Level 1, primarily via material specifically designed to develop mathematical, programming and technological skills in a progressive way. Although modules at Levels 2 and 3 continue this work, there is significant variation between modules in the degree to which skills are taught explicitly in the module materials. Cognitive skills are promoted in the teaching materials via a range of activities including self-assessment exercises, multi-media tasks and computer-based investigations. They are supported by tutor led face to face discussions and activities. Computer conferencing facilities provide an environment for interaction bringing students, tutors and module team's members together for critical discussions and guidance. Tutor feedback aids the development of these skills. Assessment Methodology: Assessment of the cognitive skills of the programme are achieved through a combination of continuous assessment: Every major module comprises of:		
	 Tutor marked assignments (TMAs) 		

Final Exam

Midterm Assessment (MTA)



3B. Cognitive skills		
	The cognitive skills are assessed by questions asking for the application of concepts in new situations for analysis, for synthesis, etc., In some modules, this skill will be assessed using more open-ended design, investigative and project activities.	
	However, other assessment mechanisms are used for specific modules and graduation project	

	3C. Practical and professional skills			
Learning outcomes:		Learning and teaching strategy/ assessment methods		
Stud C1.	lents graduating from the AI programme should be able to: Plan, analyse, design, develop and maintain reliable AI software, with particular regard to Intelligent Systems using appropriate programming paradigms and languages.	Learning and teaching strategy: Practical and professional skills are taught cumulatively throughout the programme. Students are exposed to a variety of introductory courses, which would lead to more advanced courses in Artificial Intelligence. These skills are developed and enhanced through the teaching		
C2.	Deploy modern software tools for construction of Al solutions and applications to solve practical problems.	and communication with the tutor. Modules will include supplementary material that will enrich the learning experience and increase the knowledge		
C3.	Test and critically evaluate different machine learning and Al software solutions.	learnt. Some modules will adopt the practical hands-on approach that aim to develop the student's skills in the contexts of computation, testing and analysis. Some modules will include specialised software and tools that will		
C4.	Explain the risks aspects associated with various intelligent systems.	improve the teaching strategy. Modules also provide study guides, assignment and project guides and specimen examination papers. Feedback on assignments provides individual tuition and guidance.		



3C. Practical and professional skills

C5. Address the professional, ethical, social and legal issues that may arise during the development and use of AI systems

Students are taught this material through interactive classroom activities and presentations. In writing their TMA, students make use of different electronic resources such as the internet and the e-library. AOU has developed its e-library through the addition of relevant databases which include academic refereed journals, publications, and conference proceedings to support the students in research based assignments.

Assessment Methodology: Assessment of the practical skills of the programme is achieved through a combination of continuous assessment:

- Tutor marked assignments (TMAs)
- Midterm Assessment (MTA)
- Final Exam

However, other assessment mechanisms are used for specific modules and graduation project



3D. Key/transferable skills

Learning outcomes:

Students graduating from the AI programme should be able to:

- D1. Recognize and understand a range of technological and real-world problems and select suitable AI techniques for solving them
- D2. Find, assess and apply information from a variety of sources, using information technology where appropriate
- D3. Communicate information, arguments, ideas and issues clearly and in appropriate ways, bearing in mind the audience for and the purpose of the communication
- D4. Work independently, planning, monitoring, reflecting on and improving your own learning

Learning and teaching strategy/ assessment methods

Learning and teaching strategy: Transferable skills are developed throughout the programme. The skills of research, presentation, self-reflection and communication are essential to all modules and are increasingly developed as the student progresses throughout the programme. The interactive blended learning delivered through specially designed support material helps students to enhance their own independent learning skills. AOU expect students to naturally develop the skills of learning to learn as they develop through the suite of modules, and this is drawn to their attention through a combination of skills based assessment and tutor feedback during face-to-face tutorials and feedback to assignments.

Level-1 and level-2 modules supports the students in acquiring basic skills and level 3 modules expect students to show application of skills developed earlier levels. Higher level modules aim to develop students' ability to conduct independent research using a variety of databases and websites, and to develop group-working skills. As work becomes more complex at these modules, students are tested on their abilities to respond positively to feedback from a variety of audiences, as well as to manage increasingly large workloads.

Assessment Methodology: Assessment of the key skills of the programme is achieved through a combination of continuous assessment:

Tutor marked assignments (TMAs)



3D. Key/transferable skills		
	Midterm Assessment (MTA)Final Exam	
	In some cases the assessment is implicit, but where the relevant skills have been taught in the related course material the assessment is generally explicit.	
	However, other assessment mechanisms are used for specific modules and graduation project	



3.2 Learning Outcomes of Exit Awards

3.2.1 Cert HE IT & Computing (Artificial Intelligence)

Requirements of Cert HE IT & Computing (Artificial Intelligence)

	Level 1 (AOU) = Level 4 (OU)			
Code	Module Title	Source	Points	CHs
MT141	Introduction to Probability and Statistics	AOU	15	4
TM103	Computer Architecture and Organization	AOU	15	4
MT131	Discrete Mathematics	AOU	15	4
MT132	Linear Algebra	AOU	15	4
M110	Python Programming	AOU	30	8
TM112	Introduction to computing and information technology	OU	30	8
			120	32

Educational aims

The aim of this certificate is to equip you with the basic skills and knowledge that you will need to underpin a career in the computing and IT sector. It will develop your knowledge and understanding of the fundamental technologies, techniques and trends of modern digital technology and introduce you to some of the issues involved in their application. You will gain some practical experience in the use of a modern programming environment and ubiquitous computing devices.

Learning outcomes

A. Knowledge and understanding of:

Students graduating from the Cert HE IT & Computing (Artificial Intelligence) should be able to:

- A1. Recognize the mathematical and statistical foundations of AI computing systems along with comprehensive knowledge of programming languages.
- A2. Identify principles and tools available to software development processes and methodologies.
- A3. Indicate basics concepts that enable understanding of machine learning.
- A4. Describe systems requirements for AI problems.
- A5. Recognize basic professional, psychological, ethical, social and legal issues in the AI field.

B. Cognitive Skills:

Students graduating from the Cert HE IT & Computing (Artificial Intelligence) should be able to:

- B1. Use your judgment in applying and selecting a range of simple applications in Al.
- B2. Construct an abstract model for a given problem.



- B3. Apply and evaluate key computing and AI concepts in a range of contexts
- B4. Select basic techniques to solve and abstract Al problems
- B5. Device simple programming project that applies and extends your knowledge and understanding

C. Practical and/or professional Skills:

Students graduating from the Cert HE IT & Computing (Artificial Intelligence) should be able to:

- C1. develop simple programmes, using appropriate programming paradigms and languages.
- C3. Test and critically evaluate different machine learning and AI software solutions.
- C4. Explain the risks aspects associated with various intelligent systems
- C5. Address professional, ethical, social and legal issues that may arise during the development and use of AI systems

D. Transferable skills:

Students graduating from the Cert HE IT & Computing (Artificial Intelligence) should be able to:

- D1. Recognize and understand a range of technology in computing field.
- D2. Find information from a variety of sources, using information technology where appropriate
- D3. Communicate information, ideas and issues clearly and appropriately,
- D4. Work independently, planning, monitoring, reflecting on and improving your own learning

3.2.2. DipHE IT & Computing (Artificial Intelligence)

Requirements of DipHE IT & Computing (Artificial Intelligence)

	Level 1 (AOU) = Level 4 (OU)			
Code	Module Title	Source	Points	CHs
MT141	Introduction to Probability and Statistics	AOU	15	4
TM103	Computer Architecture and Organization	AOU	15	4
MT131	Discrete Mathematics	AOU	15	4
MT132	Linear Algebra	AOU	15	4
M110	Python Programming	AOU	30	8
TM112	Introduction to Computing and Information Technology	OU	30	8
			120	32

Level 2 (AOU) = Level 5 (OU)				
Code	Code Module Title Source Points CH			CHs
M269	Algorithm, Data structure and Computability	OU	30	8
TM270	Artificial intelligence	AOU	30	8



TM271	Machine Learning and Deep learning	AOU	30	8
TM275	Parallel and Distributed Systems	AOU	15	4
TM276	Software Development Processes and Methodologies	AOU	15	4
			120	32

Educational aims

The aim of this diploma is to equip you with the knowledge and skills you will need to underpin a broad-based career in the computing and IT sector. As an independent learner you will gain many transferable skills – such as communication, numeracy and organisational – that are valued by employers. You will also acquire an understanding of the fundamental concepts, technologies and techniques applicable to both computing and IT.

Learning outcomes

A. Knowledge and understanding of:

Students graduating from the DipHE IT & Computing (Artificial Intelligence) should be able to:

- A1. Recognize the mathematical and statistical foundations of AI computing systems along with comprehensive knowledge of programming languages, styles, data structures and algorithms.
- A2. Identify principles and tools available to software development processes and methodologies.
- A3. indicate core disciplines of AI such as machine learning, deep learning, knowledge extraction and processing, parallel and distributed systems.
- A4. Describe systems requirements for both rule-based and data driven systems including the recognition and analysis of criteria and models leading to specifications used in the solution of specific AI problems.
- A5. Recognize the professional, psychological, ethical, social and legal issues that can be associated with the development and deployment of AI systems

B. Cognitive Skills:

Students graduating from the DipHE IT & Computing (Artificial Intelligence) should be able to:

- B1. Use your judgment in applying and selecting a range of applications of Al and an understanding of their suitability to a range of problem domains.
- B2. Construct an abstract model for a given problem and devise appropriate mechanized techniques to solve the problem
- B3. Apply and evaluate key computing and AI concepts in a range of contexts
- B4. Select and apply appropriate AI techniques and tools for abstracting, modelling, problem solving, and designing AI systems and be aware of the limitations involved



B5. Device Al project that applies and extends your knowledge and understanding and reflect on the processes involved and the outcomes of your work

C. Practical and/or professional Skills:

Students graduating from the DipHE IT & Computing (Artificial Intelligence) should be able to:

- C1. Plan, analyse, design, and develop AI software, with particular regard to Intelligent Systems using appropriate programming paradigms and languages.
- C2. Deploy modern software tools for construction of AI solutions and applications to solve practical problems.
- C3. Test and evaluate different machine learning and Al software solutions.
- C4. Explain the risks aspects associated with various intelligent systems
- C5. Address the professional, ethical, social and legal issues that may arise during the development and use of AI systems

D. Transferable skills:

Students graduating from the DipHE IT & Computing (Artificial Intelligence) should be able to:

- D1. Recognize and understand a range of technological and real world problems and select suitable AI techniques for solving them
- D2. Find, assess and apply information from a variety of sources, using information technology where appropriate
- D3. Communicate information, arguments, ideas and issues clearly and in appropriate ways, bearing in mind the audience for and the purpose of the communication
- D4. Work independently, planning, monitoring, reflecting on and improving your own learning

4. Distinctive features of the programme structure

- Where applicable, this section provides details on distinctive featurs such as:
- where in the structure above a professional/placement year fits in and how it may affect progression
- > any restrictions regarding the availability of elective modules
- where in the programme structure students must make a choice of pathway/route



The Artificial Intelligence Programme is designed to deliver a unique set of courses that can help students to equip a set of analytical, practical and professional skills. This program is designed to meet the requirements of AOU policies and frameworks. In addition, the programme is supported through AOU strategic plan in term of offering new programmes that meet MENA market's needs.

Admitting students to Artificial Intelligence program is consistent with AOU vision and mission. The programme is designed to allow students from different ages and experiences to join the programme and move on smoothly. However, some restrictions might be applied according to the local policies at the offering countries.

The profile of admitting students is according to the mission of AOU and also in compliance with the programme aims and available resources in the various branches. All freshmen shall sit for the Language Placement Test in English pursuant to the standards approved by the University Council. The students score low grade in the admission test shall register for the English orientation course. However, the credit hours due to such courses shall not be included in his/her cumulative averages. Students may study for the first semester of the programme, only the university general requirements. Elective modules are not part of the 360 points validated by the OU but are present to satisfy overall aims of the programme and the labour market needs. The programme comprises of two types of elective modules: faculty mandatory electives and faculty general electives. Students are allowed to choose modules from the faculty general electives. The elective modules assess a number of learning outcomes that blend well in terms of covering some of the learning outcomes of practical and professional skills, and key/transferable skills from the Artificial Intelligence programme.

In addition to the above mentioned, the programme has the following distinctive features:

- The program will be offered in blended learning teaching style, which provide our students with more flexibilities in term of completing time and without any geographical restrictions. All modules are delivered based on a blended learning model, which consist of 25% face-to-face and 75% is self-learning. The 25% face-to-face consist of 2 hours per week for 8 CHs module, and 2 hours biweekly for the 4 and 3 CHs modules or based on local regulations of MoHE, in addition to one office hour per 2 taught hours. On the other hand, the 75% self-learning depends on the students' self-study based on the teaching materials uploaded on the Central-LMS. Such materials are mainly PowerPoint slides, lectures note, activities, and other e-resources.
- The selected courses in the program are unique and meet the market needs locally and globally.
- Professional staff with good experience in Artificial Intelligence are hired to deliver the core courses.
- The program will enable the students to acquire professional certificates in the domain of Artificial Intelligence.
- Boosted by the collective intelligence of multiple tutor teams at different branches.



- The programme will be offered by complying the local requirements of the higher education ministries in the offering countries.
- The Industrial Advisory Board (IAB) members in each branch will update the demanding labour market skills and support in getting industrial training for the graduates.

Overall Programme Structure

The 96 Credit Hours core modules are placed in section-3 for validation. Students seeking a BSc Honours degree in Artificial Intelligence (AI) at AOU must complete at least 131 credit hours including the 96 CH core modules and 35 AOU requirements.

- 1. Overall Al Programme Requirements (AOU) (Table-1)
- 2. General University requirements (Table-2)
- 3. Faculty compulsory Requirements (Table-3)
- 4. Faculty elective requirements (Table-4)
- 5. Faculty core requirements (Table-5)
- 6. Details of Specialization/Core Requirements

Table 1: Programme Requirements

Requirement type	Credit Hours
University Requirements/ Mandatory	18
University Requirements/ Electives	3
Faculty Requirements/ Mandatory	8
Faculty Requirements/ Electives	6
Specialization Requirements/ Mandatory	96
Total Credit Hours	131

The details of the previous requirements will be described as follows:

University Requirements/ Mandatory (60 points) (18 Credit Hours)

Table 2: Details of University Requirements (Mandatory)

Module	Module Title	Credit	Pre-requisites
AR113	Arabic Communication Skills	3	
GB102	Principles of Entrepreneurship for	3	
GR118	Life Skills and Coexistence	3	
GT101	Learning and Information	3	
EL111	English Communication Skills I	3	EL099
EL112	English Communication Skills II	3	EL111
	Total	18	

^{*} The list of modules and/or the modules contents may be updated/replaced as per AOU university council decision or local accreditation requirements.



University Requirements/ Electives (10 points) (3 Credit Hours)

Table 3: Details of University Requirements (Electives)

Module Code	Module Title	Credit Hours	Pre- requisites
GR111	Arabic Islamic Civilization	3	
GR112	Issues and Problems of Development in the	3	
GR115	Current International Issues and Problems	3	
GR116	Youth Empowerment	3	
GR117	Women Empowerment	3	
GR121	Environment and Health	3	
GR131	General Branch Requirement	3	
CH101	Chinese for Beginners (I)	3	
CH102	Chinese for Beginners (II)	3	CH101
SL101	Spanish for Beginners (I)	3	
SL102	Spanish for Beginners (II)	3	SL101
FR101	French for Beginners (I)	3	
FR102	French for Beginners (II)	3	FR101

^{*} The list of modules and/or the modules contents may be updated/replaced as per AOU university council decision or local accreditation requirements

Faculty Requirements / Mandatory (30 points) (8 Credit Hours)

Table 4: Details of Faculty Requirements (Mandatory)

Module	Module title	Credit	Point	Source	Pre-
code		Hours	S		requisites
MST129	Applied Calculus	4	15	AOU	EL099
TM260	Ethics, Law and the Governance in IT	4	15	AOU	TM271+

⁺ the pre-requisite can be registered in parallel

Faculty Requirements / Elective (20 points) (6 Credit Hours)

Table 5: Details of Faculty Requirements (Electives)

^{*} The TM260 may be replaced by an applied module as per the local accreditation requirement.



Module code	Module title	Credit Hours	Points	Source	Pre-requisites
MS102	Physics	3	10	AOU	EL111
M109	.NET Programming	3	10	AOU	EL111
MT101	General Mathematics	3	10	AOU	None
TM280	Smart IOT Systems	3	10	AOU	TM112
TM380	Autonomous Robotic Systems	3	10	AOU	TM271

Note- The student will not be allowed to take more than one elective module per level from the above Table-5.

Specialisation/ Core Requirements (96 Credit Hours)

The students will be encouraged to finish each level before moving on to the next level. The details of core modules are given as follows:

Table 6: Details of Specialization/Core Requirements

Level	Code	Module Title	Source	Points	Credit Hours	Pre- requisites
	MT141	Introduction to Probability and Statistics	AOU	15	4 CHs	EL111
Level 1	TM103	Computer Architecture and Organization	AOU	15	4 CHs	EL111
(AOU)	MT131	Discrete Mathematics	AOU	15	4 CHs	EL111
Level 4	MT132	Linear Algebra	AOU	15	4 CHs	EL111
(OU)	M110	Python Programming	AOU	30	8 CHs	EL111
(00)	TM112	Introduction to Computing and Information Technology	OU	30	8 CHs	M110
	M269	Algorithm, Data structure and Computability	OU	30	8 CHs	M110
Level 2	TM270	Artificial intelligence	AOU	30	8 CHs	TM112 & MT141
(AOU) =	TM271	Machine Learning and Deep learning	AOU	30	8 CHs	MT141 & TM270
Level 5 (OU)	TM275	Parallel and Distributed Systems	AOU	15	4 CHs	TM103
	TM276	Software Development Processes and Methodologies	AOU	15	4 CHs	TM112
Level 3	TM351	Data Management and Analysis	OU	30	8 CHs	M269
(AOU)	TM340	Natural Language Processing	AOU	30	8 CHs	TM271
Level 6	TM341	Computer Vision	AOU	30	8 CHs	TM271
(OU)	TM471	Graduation Project	AOU	30	8 CHs	TM351 or TM340 or TM341

Artificial Intelligence Programme – Recommended Study Plan



The academic year at AOU consists of two main academic semesters (Fall and Spring), each consists of 16 weeks, and additional (optional) summer semester of 10 weeks. The following structure plan is a suggested plan based on Fall and Spring semesters.

		First Year		
Semester	Modules	Title	Credit Hours	Pre- requisite
	EL111	English Communication Skills I	3	EL099
1 st	GR118	Life Skills and Coexistence	3	-
(13 CHs)	GT101	Computing Essentials	3	-
	MST129	Applied Calculus	4	EL099
	AR113	Arabic Communication Skills	3	-
2 nd	EL112	English Communication Skills II	3	EL111
(14 CHs)	MT131	Discrete Mathematics	4	EL111
	MT132	Linear Algebra	4	EL111
		Second Year		
Semester	Modules	Title	Credit Hours	Prerequisite
	GB102	Principles of Entrepreneurship for Non-Specialists	3	-
1st	M110	Python Programming Introduction to Probability and	8	EL111
(14 CHs)	MT141	4	EL111	
		A module from University Requirement/Elective	3	-
2 nd	TM112	Introduction to Computing and Information Technology	8	M110
(15 CHs)	TM103	Computer Architecture and Organization	4	EL111
		Faculty Elective	3	
		Third Year		
Semester	Modules	Title	Credit Hours	Prerequisit e
1 st	M269	Algorithm, Data structure and Computability	8	M110
(16 CHs)	TM270	Artificial intelligence	8	TM112 & MT141
	TM271	Machine Learning and Deep learning	8	MT141 & TM270
2 nd	TM275	Parallel and Distributed Systems	4	TM103
(20 CHs)	TM276	Software Development Processes and Methodologies	4	TM112
	TM260	Ethics, Law and the Governance in IT	4	TM271
		Fourth Year		
Semester	Modules	Title	Credit Hours	Prerequisit e



	TM351	Data Management and Analysis	8	M269
1 st	TM340	Natural Language Processing	8	TM271
(20 CHs)	TM471A	Graduation Project - A	4	TM351 or TM340 or TM341
•nd	TM341	Computer Vision	8	TM271
2 nd (15 CHs)	TM471B	Graduation Project - B	4	TM471A
(10 0113)		Faculty Elective	3	

Artificial Intelligence Programme Structure

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Level		Artificia	al Intelligen	ce Programi	me Structure											
Level 0	University R	equireme	ents (Stude	nt may selec	t from varie	ty of modules)										
				Requiremen	ts											
			Appl	MST129 ied Calculus (4 CHs)												
Level 1		Sp	ecialization	/Core Requi	rements											
(AOU) = Level 4 (OU)		MT132 Linear Algebra (4 CHs)	MT141 Introduction to Probability and Statistics (4 CHs)	TM103 Computer Architectur e and Organizatio n (4 CHs)	M110 Python Programmi ng (8 CHs)	TM112 Introduction to Computing and Information Technology (8 CHs)										
		Faculty Elective MT101														
	MS102 Physic (3 CHs	:S	1.	M109 NET Programm (3 CHs)	ing	MT101 General Mathematics (3 CHs)										
			Faculty	Requiremen	its											
		Ethic	s, Law and the	TM260 Governance in	n IT (4 CHs)											
				/Core Requi	, ,											
Level 2 (AOU) = Level 5 (OU)	M269 Algorithm, Data structure and Computability (8 CHs)	TM2 Artific Intellige (8 CF	cial Mach	TM271 ine Learning eep Learning (8 CHs)	TM276 Software Developmen Processes ar Methodologie (4 CHs)	nd Distributed										
			Facu	Ity Elective		·										
			Smart IoT	TM280 systems (3 CF	ls)											
		Sp		/Core Requi	rements											
Level 3 (AOU) = Level 6	TM351 Data Management and Analysis (8 CHs)	Natur Pr	TM340 al Language ocessing (8 CHs)	Compu (8	//341 Iter Vision CHs)	TM471 Graduation Project (8 CHs)										
(OU)			Facu	Ity Elective												
		А	utonomous Ro	TM380 botic Systems	(3 CHs)											



5. Support for students and their learning.

(For apprenticeships this should include details of how student learning is supported in the work place)

AOU provides various services to ensure that all students enjoy peaceful and calm stay, and assists them in dealing with any psychological, behavioural, social, educational, financial, health and safety. Students at AOU, including FCS students, are offered various methods of student support. These include:

Learning Management System (LMS)

LMS is a software application / Web-based technology that is used as the major media of communication between students and tutors. LMS main page gives up-to-date information about AOU branches to students from concerned programmes.

LMS features help students to post queries, search for information over a certain topic, read daily posts and comments. Some of the LMS features are as follows:

- · Assignment submission through the TMAs submission links
- · Discussion forum between all users
- · Downloading and uploading processes
- · Getting marks
- Using Moodle Instant Messages
- Doing online quizzes
- Accessing mock up exams
- Having access to the E-Library
- adding course page for student/tutors (introduction, communication tools, announcement section, TMA & MTA grades section, contact your teacher section)
- Providing a free plagiarism online checker website on the LMS to help students in checking their TMA similarity.
- Check all university announcements through the LMS Home Page
- Joining LMS online training link
- Having access to all official social media accounts and YouTube channel through the LMS
- Availability of exams schedule and semester calendar etc.
- · Availability of E-Books materials are available for all courses as a PDF files

SIS (Student Information System)

AOU established a centralized SIS that integrates data obtained from the branches' student databases. The SIS comprises security, student information, financial services, academic advising and online registration.

The system allows the student to benefit from various electronic services, which include:

- Online Registration: to register, update and delete course to be studied at AOU.
- Online Payment: to view and pay the fee online.
- View/Print Semester Timetable: to view a detailed timetable whenever needed
- View/Print Student Schedule: to view a detailed schedule whenever needed



- View/Print Academic Plan: to view or print academic plan which is reflective of the studied courses and the remaining courses.
- View/Print Examination Results: to view or print unofficial slip of the academic performance (transcript).
- Create a Student Personal Development Plan (PDP): to facilitate the achievements of academic and career goals.
- Edit Students' Contact profile: to update the contact details at any time assuring appropriate channel of communication with AOU.
- View student Exam Slip: to view the location of the exams.
- View Advising details: to view the advising details logged by the advisor.

Student Support Services:

- **Exam Postponing System**: To submit a request to postpone a midterm or final exam with attaching the excuse.
- **Appeal System**: To submit a request for formal review of an academic decision regarding course final examination grade or course continuous assessment marks.
- Complaint System: To submit any claim unrelated to academic grades.
- Inquiries System: To submit an inquiry related to subject other than appeal and complaint.
- **Disability and Dyslexia Support System**: To submit a description of any disabilities or learning difficulties, so the university can take it in consideration and to provide the necessary services to enable the student to fulfil the intended learning outcomes of their study in a friendly educational and social environment.
- Induction Programme/Orientation Day: Students Affairs Department organizes an induction program/orientation day for the new students, in coordination with all administrative and academic departments at the beginning of each semester.
- Practical laboratory sessions for programming courses.
- The university website www.arabou.edu.kw embodies a lot of guidance and support materials such as: Course Guides, Study Calendars etc.
- Tutor Contact: Tutors hold weekly office hours. Tutors are committed to helping students with their problems. All tutors have regular office hours to meet students. The tutors can also be contacted through email. All part-time and full-time tutors are requested to hold two weekly office hours for each taught section. There are also chat sessions online with tutors, and face-to-face feedback sessions. Additionally, emails are constant means by which tutors and students can discuss important ideas related to course material. Furthermore, tutors are available via phones, as well, to answer any urgent queries and offer support.
- Academic Advising: Proper academic advising is regarded as a very critical factor
 affecting student's success and retention and is given exceptional attention in all
 branches. Each student is assigned to an advisor. Each advisor should show his advisee
 the ultimate way to achieve his/her goal while taking into account his strengths,
 weaknesses, and past performance.

Given that, AOU adopts a blended learning approach that fosters flexibility for the students; two types of advising are offered at the AOU: Face to face advising and E-Advising. Both are offered within certain context and in accordance to specific criteria and



guidelines. Advising usually starts at the beginning of the semester, before registration, but continues throughout the semester, where students can meet their advisors in their office during the semester. Face to face advising is mandatory for new comers, and for old students who are not eligible for e-advising. The advisor takes into consideration several factors, among these factors, the financial situation of the student, his workload (part time/full time job), and the student's results in the placement test. The e-advising is offered for continuing students with good GPA and according to the academic advising policy.

Student Counselling Unit: The unit, available at some branches and being adopted for future implementation in many, provides a range of services and activities that help the student to achieve social and psychological adaptation. Individual sessions in which the student meets with the Psychological Counsellor. These sessions help the students to identify the problems facing them or the difficulties that prevent them from achieving their objectives. The Psychological Counsellor helps them to develop skills and capabilities which can help them to handle all kinds of problems.

Written guidance including:

- Student Handbook
- Teaching and Learning policy https://www.arabou.edu.kw/blended-learning/Pages/about.aspx
- The Bachelor Degree Award Requirements Bylaws
- https://www.arabou.edu.kw/university/Documents/Regulations/student/ en/The%20Bachelor%20Degree%20Award%20Requirements%20Bylaws.pdf
- The Bachelor Award Examinations and Assessment Bylaws, https://www.arabou.edu.kw/university/Documents/Regulations/student/en/ https://www.arabou.edu.kw/university/Documents/Regulations/student/en/ https://www.arabou.edu.kw/university/Documents/Regulations/student/en/ The%20Bachelor%20Award%20Examinations%20and%20Assessment%20Bylaws.pdf
- Equal opportunity policy
- https://www.arabou.edu.kw/university/Documents/Regulations/aou/en/Equal%20Opport unity%20and%20Respect%20for%20Diversity.pdf
- Student Guide on Plagiarism
 https://www.arabou.edu.kw/students/guide/Pages/cheating.aspx
- Plagiarism Policy
 https://www.arabou.edu.kw/university/Documents/Regulations/academic/en/Scheme%2
 0of%20penalties%20-%20%20AUG%202020.pdf
- Appeals and complaints
 http://www.arabou.edu.sa/students/examinations/Pages/student-appeal-system.aspx
 https://mdl.arabou.edu.kw/oman/pluginfile.php/38519/mod_folder/content/0/7.%20Acad
 emic_Appeal_Complaints%20June-2018.pdf?forcedownload=1

ICT facilities:

- IT Help Desk
- Student email
- · Wireless Internet access most of the AOU country campuses.
- Student representatives in the Student Council and Branch Council allowing students to share in the decision making process.



· Career planning guidance and services.

6. Criteria for admission

(For apprenticeships this should include details of how the criteria will be used with employers who will be recruiting apprentices.)

AOU, based on its belief in equal-opportunity education and the two interconnected principles of lifelong learning and education for all, tries to reach out to as many learners as possible. This is why it tries – in those branch countries where there are interested learners – to open, in addition to the main branches themselves, centres in remote areas, making education available to those who may not have an opportunity otherwise.

The standard criterion for admission to FCS programme is a high school certificate or its equivalent in the scientific pathway. The FCS follows the AOU's policies and Rules and Regulations, considering the students' entry into the undergraduate AI programme. The main Entry Requirement into the AI Programme is a valid High School certificate.

Nevertheless, it is worth noting that the admission criteria should fulfil any other conditions determined by the university or competent authorities of the offering branch countries.

In all AOU branches students will find the same process of admission through the following link: https://www.arabou.edu.kw/students/pages/apply-to-aou.aspx

[Note: This link contains all the details on the admission policies and procedures at the nine branches, as well as the application process.]

7. Language of study

Language of study is English Language.

8. Information about non-OU standard assessment regulations (including PSRB requirements)

AOU assessment strategy is based on general principles and procedures aiming to organize and monitor the examinations at all AOU branches. AOU regulations include validation (pre-assessment moderation) of examination questions and answer keys by external examiners (EE), audit tutors' marking, post-assessment moderation; and 4 tiers of examination committees.

Below is a brief about the major assessment principles, policies, and procedures adhered to by FCS.



1. Main principles underpinning the processes of assessment at AOU

AOU has explicit procedures for ensuring that student performance is properly judged and for evaluating how academic standards are maintained through assessment practice. The following are some of the procedures which FCS implements:

- All forms of assessment must aim to test the Learning Outcomes (LOs) associated with the module.
- The creation and administration of all types of assessment is a team work (e.g. branch module coordinators (BCCs), module chairs (GCCs), programme coordinators (PCs), Deanship team, and External Examiners (EEs)).
- All assessment components are reviewed and approved by EEs.
- Strict quality measures take place to guarantee fair/correct marking at all branches and across them through Cross branch marking (CBM)
- Sample of students' marked work/scripts from all the modules per branch as well as the CBM are review by EEs.
- There are four tiers of Examination Board structure to approve the final students' results at the end of each semester.

The FCS maintains contact with EEs throughout the semester, and informs them about any issues that arise concerning student assessment. The EEs and the OU Academic Reviewer are involved in establishing the quality of the academic delivery, academic material preparation, assessment and guidance throughout the semester.

2. Composition of the examination's committees

AOU has a four-tiered Examination Board structure consisting of the following:

- Branch Examination Committee (BEC)
- Module Assessment Committee (CAC)
- Faculty Examination Committee (FEC)
- Central Examination Committee (CEC)

All EEs are members of CAC and FEC. The Chief External Examiner is a member of CEC. The composition of all examination boards has been clearly spelled out in the AOU Examination Rules and Regulations. The composition of all examination boards is appropriately maintained by the AOU administration. Marks submitted by branches are considered at HQ by CAC, FEC and ultimately by the CEC. In this way, cross-branch review is achieved.

3. Assessment Components, Weights, and Criteria

The FCS follows the AOU's assessment policies, rules and regulations. The assessments at AOU comprise of 3 essential components with their relative weight as follows:

- Tutor Marked Assignment (TMA) à 20%
- Mid-Term Assessment (MTA) à 30%
- Final Exam à 50%



Weightages of Assessment Components for TM471 Graduation Project module:

For the graduation module TM471 the assessment components and the associated weightages are as follows:

Preliminary presentation: 5 %Project Report Part-1: 25%

Project Presentation (Final): 10%Project Report (Final): 35%

Project deliverable: 25%

Formative and Summative parts of Assessments:

The TMA and the MTA parts of the assessment form the Continuous Assessment component at AOU. The TMA assessment component is part of the Formative Assessment at AOU and detailed feedback is provided to students on their TMA work. The MTA and Final Examinations are part of the Summative Assessment at AOU.

Feedback on Assessment:

The students are provided detailed feedback on their TMA work and this is an essential part of learning at AOU. Tutors use a detailed form for this purpose in which marks for each part of the TMA are clearly distributed. The feedback form also has specific area for the tutors to provide feedback to students concerning their strengths, weaknesses and steps for improvement. The tutor uses this form to provide detailed feedback to students and to suggest corrective and improvement actions. Feedback is also provided to students during in class face-to-face tutorials and during laboratory and office hours maintained by the tutors.

4. The Grade Point Average and Equivalent Letter Grades:

AOU follows the Grade Point Average (GPA) on a scale of 0 to 4 in its grading processes, i.e., the different categories of achievement are distinguished by awarding students grades on a scale from 0 to 4.

5. Quality of Assessment:

QAA defined Benchmark standards and the excellence level are taken into consideration in the preparation of the assessment materials. The assessment materials contain questions of appropriate difficulty level standard in order to differentiate students according to their knowledge level and skills. The assessment materials are subject to External Examiners' scrutiny to ensure that standards are compatible to institutions of similar standings in the UK.

6. Marking, Double-marking, and Cross Branch Marking.



The FCs adopts transparent and fair mechanisms for marking and for moderating marks. All tutors responsible for marking are provided with model answers (approved by EEs) to the questions they will be marking. In addition, grades given by branch tutors are audited by internal staff member to ensure correct marking process.

There is appropriate arrangement for Group Marking and Double Marking. During Group marking under the supervision of the BCC, internal review is undertaken. Double-marking is undertaken as part of the tutor monitoring process in which the BCC evaluates the performance of the tutors.

Cross Branch Marking (CBM) is performed in FCS to ensure uniformity of script marking. The Deanship collects scripts from branches for various modules and these are distributed to other selected branches for the purpose of CBM. CBM reports are generated by the concerned tutors and the Deanship ensures that marking across branches is standardised and uniform.

7. The Assessment Procedures

The assessment procedures are secure and we have full confidence in their integrity and trustworthiness. The following steps are implemented to ensure the security and integrity of the assessment procedures:

- A secured web-based framework is created and organized by the Deanship at the beginning of each semester to exchange the assessment documents. Through such framework, the Deanship centrally control and organize the whole flow of the assessments and documents with all the members involved in the assessment process, where a personal account is created for each GCC, EE, Exam officer of each branch.
- Each GCC prepare the assessment components of his/her module (i.e., TMA, MTA, Final with the model answers and marking guide) and submit them through the aforementioned framework.
- The FCS Deanship communicates the EEs to start their review/feedback on examination papers (through the framework).
- Once the examinations are finalised the Deanship sends them to the Exam Officer at each branches (through the framework)
- The examinations officer prints and keeps them in sealed envelopes under lock and key in a safe storage place at his/her branch.
- The examination officer takes out the examination papers about half-an-hour prior to the start time to give them to invigilators.
- All examinations across all branches are time-synchronized to avoid students of one branch leaking exams to students of other branches.
- Branch directors and branch programme coordinators supervise the administration of the examinations.
- All stages of test administration, the marking of scripts, and the recording of marks are regulated by explicit written instructions and monitored by concerned bodies (programme coordinators, course coordinators, examination committees).



- To guarantee objectivity in marking, students' names and registration numbers do not appear on final examination scripts. Furthermore, in courses taught by more than one tutor, the principle of 'group marking' is applied in the marking of all scripts
- For TMAs, the integrity of the solutions is ensured by providing the solutions to tutors very close to the cut-off date to avoid leakages of solutions due to intentional or unintentional means.
- Plagiarism on TMAs is an issue which all education institutions are grappling with.
 We now have Turnitin plagiarism detection software to address the issue.
- Once each assessment is marked at each branch, samples of students marked work/script is uploaded along with the audit-trail forms (for finals and MTAs), similarity report (for TMAs), feedback forms (for TMAs) on a secure shared space in order to be reviewed by the EEs.
- The samples of the final exams are subject for Cross branch marking to ensure the fairness of the marking process. The output of the CBMs are made available for the EEs.
- The final results for each course are reviewed by the course assessment committee (CAC), then by the faculty examinations committee (FEC), and finally by the central examination committee (CEC).

The assessment process is objective in nature since the entire process is open and accessible to EEs' scrutiny.

9. For apprenticeships in England End Point Assessment (EPA). (Summary of the approved assessment plan and how the academic award fits within this and the EPA)

NA

10. Methods for evaluating and improving the quality and standards of teaching and learning.

As a partner of the OU, UK, AOU is required to meet all academic standards required for validation and accreditation set for UK universities and institutes of higher education. This includes engagement with the QAAD Academic Infrastructure and guidelines provided by the OU, UK. AOU offers its programme in 9 Arab countries, it is crucial to meet the local quality assurance requirements in the offering countries as well.

FCS continuously evaluates the quality and standards of teaching and learning of the programmes and its delivery using different well-designed appraisal and evaluation systems that include key indicators for assessing the performance of the offered programmes. Following are the methods for evaluating and improving the quality and standards of teaching and learning adopted in AOU

10.1 Programme



- Periodic review and revalidation of programme by an external panel (Revalidation every 5 years)
- Programme review by the Quality Assurance agency in the offering countries.
- Annual Monitoring Report (AMR): AMR is a comprehensive document produced at the end of every academic year. The AMR focuses on the developments and challenges related to all matters of teaching and learning environment. The evidence it contains is both qualitative and quantitative in nature. Academic programmes give a detailed account of student enrolment, withdrawal, progression, achievement trends. It also includes an analytical commentary related to the course material, assessment designs, students' learning outcomes, tutor performance, appeals and complaints, grievance systems, student and tutor feedback. This takes account of the views of tutors, students and any issues raised by the external examiners. A detailed action plan is produced accordingly and communicated to all programme coordinators at the eight branches to leverage the strengths and address the weaknesses of the faculty.
- Annual Programme Evaluation (APE): The programme management team at the
 branches completes an annual programme evaluation report which is submitted as part
 of the AMR at the end of every academic year. The report consists of analytical
 commentary of the course material, assessment design, student and tutor feedback,
 external examiners' comments and responses to external examiners' reports in addition
 to programme achievements and good practices.
- External Verifier/Examiner
- Quarterly Periodic Reports (QR)
- Subject areas committees at FCS
- Internal Moderation
- Academic reviewer's involvement in the programme review
- Reviews made by local ministries of Higher Education and Quality Assurance agencies.
- Feedback from students: AOU recognizes the importance of student views and feedback. For this purpose, student's views survey is circulated during each semester where students are expected to give a formal feedback on the tutorial, content, delivery style, clarity of learning outcomes, and helpfulness of the tutor towards the student. Student feedback will duly be communicated to the respective module tutor and appropriate measures will be taken, if necessary.
- **Feedback from employers**: A feedback is gathered through the survey that is conducted at various interval to collect the expectation and feedback of the employers.
- Feedback from Alumni: A feedback is collected about the graduates of AOU by Students Affairs departments in the respective branches at the end of every academic semester. The survey inquires about various aspects such as: employment status, field of employment, relation of employment to the student programme, etc.
- Academic standards committee involvement in programme updates
- Industrial Advisory Board: Keeping abreast of industry developments is an essential
 aspect of preparing students for their future careers. IAB has been functioning in all the
 branches at FCS. IAB creates a strong link between industry and the FCS and is
 contributing in achieving the FCS's goals and objectives. Members of this board are
 professionals in industry and government who collaborate and build cooperative efforts



with the FCS, advice on academic programs, and help in building future faculty direction. FCS alumni are members of this board in all the branches.

10.2 Teaching and Learning

- Feedback from students (through Questionnaires, meetings with PCs, Deans, and VRAA)
- **Tutorial/peer monitoring**: Peer monitoring is a collegiate approach to identifying tutor's strengths and weaknesses in delivering the course content during tutorials
- General Module Chair (GCC) and Branch Module Coordinators (BCCs) monitor the delivery of their respective modules.
- Exit surveys
- Feedback from AOU Alumni
- Annual staff appraisal
- Tutor development activities such as faculty development forum, workshops and research seminars
- Best tutor awards encourage excellence in tutoring
- Academic Appraisal: is an appraisal system used to evaluate the soundness of academic staff knowledge and skills in delivery. This appraisal system is crucial to deciding the efficacy of their services rendered to the University in terms of the continued need for your services or otherwise. This appraisal process also helps you and the university identify you training needs. The academic appraisal is conducted once a year.

10.3 Assessment

- Quality assurance and oversight by the deanship
- External examiners involvement in module assessment committees (CACs)
- External examiners reports
- Feedback from tutors
- Prompt feedback on student's formative assessment (TMAs, MTA)

10.4 General feedback

- Cross-programme discussions with all branches through the members of the academic committee
- Faculty Council meetings.
- Implementation of best practices in 9 different branches with 4 different Faculties.

10.5 Committees for monitoring and evaluating quality and standards:

- Module Assessment Committee (CAC)
- Faculty Board (FB)
- Academic Committee (AC)
- Academic Standards Committee (ASC)
- AOU's Quality Assurance Committee (QAC)
- Revalidation Panel
- Student-Staff Liaison Committee (SSLC)



10.6 Local recognition by the local Authorities of Higher Education and Validation Agencies

It is worth mentioning that the programme offered at FCS is subject to the conditions and criteria of accreditation in the branch countries where the programmes are offered. Local accreditation and re-accreditation of the programmes always goes smoothly, as they always meet the standards applied by the accrediting bodies in the branch countries. Nevertheless, the critical recommendations received from these authorities are always taken care with highest importance and FCS use them as an opportunity for further improvement

10.7 Key performance and quality Indicators

- Continuous recognition by local ministries of higher education in 9 countries
- Acceptable student retention, progression and graduation rates.
- High proportion of our Alumni find jobs immediately after graduation
- Examination results are comparable with HESA data provided by OUVP
- Research informed tutoring
- Fund raising for research projects by our tutor's team

All parties of the FCS and each in its own capacity, contribute significantly to the improvement of the FCS programme in the following areas:

- Encouraging examples of good practice among the different branches to enhance the FCS programme and disseminating them across AOU branches.
- Conducting Faculty Development Workshops

11. Changes made to the programme since last (re)validation N.A.

Annexe 1: Curriculum map

Annexe 2: Notes on completing the OU programme specification template



Annexe 1 - Curriculum map

This table indicates which study units assume responsibility for delivering (shaded) and assessing (\checkmark) particular programme learning outcomes.

Artificial Intelligence Programme

		Programme outcomes																		
Level	Study module/unit	A1	A2	A3	A4	A5	B1	B2	B 3	B4	B5	C1	C2	င္ပ	C4	C5	D1	D2	D3	D4
	TM112		√			\		\							\	\		√	✓	✓
Level 1	MT131	✓	√	√			√	√		√		√		✓			√	√		✓
(AOU)	MT132	✓	✓	√			✓	√		✓		√		✓			√	✓		✓
Level 4	TM103		√			√		√								√	√	√	√	✓
(OU)	M110		√		√			√			√			✓	√			√	√	✓
	MT141	✓		✓	√		√	√	√			√		✓	√	√	√	✓		✓

		Programme outcomes																		
Level	Study module/unit	A1	A2	A3	44	Y2	B1	B 2	B 3	B4	B 2	C1	C2	C3	C4	C 2	D1	D2	D3	D4
Level 2	M269	✓	>		>		\	√	\			\	\	\	\			\	✓	
(AOU)	TM270			√	√		√	✓		√	√		√	√		√	✓	√	√	✓
= Level 5	TM271			√	√	√	✓	✓	✓	✓		✓	√	√			✓	✓	√	✓
(OU)	TM275	✓	√	√			√	✓				√				√		√		✓
(00)	TM276		√		√	√	√	✓	✓	√	✓	√	√			√	✓	√		✓

		Programme outcomes																		
Level	Study module/unit	A1	A2	A3	4 4	A5	B1	B 2	B 3	B4	9 8	L۵	C2	ဧ၁	C4	C5	ЬO	D 2	EQ	D4
Level 3	TM351	✓			>	>	√	\		>	>	>	>	\			\	>		√
(AOU)	TM340	✓	√	>	>		√	\	✓	>	>	>	>	\	\		\	>	>	√
Level 6	TM341	✓	✓		√	√	✓		√	√	√	√	√	√			√	√	√	✓
(OU)	TM471	✓	✓	√	√	√	✓	√	√	√	√	√	√	√	√	✓	✓	√	√	✓



Annexe 2: Notes on completing programme specification templates

- 1 This programme specification should be mapped against the learning outcomes detailed in module specifications.
- 2 The expectations regarding student achievement and attributes described by the learning outcome in <u>section 3</u> must be appropriate to the level of the award within the **QAA frameworks for HE qualifications**: https://www.qaa.ac.uk/docs/qaa/quality-code/qualifications-frameworks.pdf
- 3 Learning outcomes must also reflect the detailed statements of graduate attributes set out in **QAA subject benchmark statements** that are relevant to the programme/award: subject-benchmark-statement.pdf.
- 4 In section 3, the learning and teaching methods deployed should enable the achievement of the full range of intended learning outcomes. Similarly, the choice of assessment methods in section 3 should enable students to demonstrate the achievement of related learning outcomes. Overall, assessment should cover the full range of learning outcomes.
- 5 Where the programme contains validated <u>exit awards</u> (e.g. CertHE, DipHE, PGDip), learning outcomes must be clearly specified for each award.
- 6 For programmes with distinctive study **routes or pathways** the specific rationale and learning outcomes for each route must be provided.
- 7 Validated programmes delivered in <u>languages other then English</u> must have programme specifications both in English and the language of delivery.