#### ARDEN UNIVERSITY QUALITY ASSURANCE DOCUMENT QA3 - PROGRAMME SPECIFICATION

1. Target Award	Masters in Science
2. Programme Title	MSc Enterprise Architecture Management
3. Exit Awards	PG Diploma in Enterprise Architecture Management
	PG Certificate in Enterprise Architecture Management
4. Programme Leader(s)	Benjamin Silverstone
5. Delivery Model	Online
	Blended learning delivery by Arden University staff and supported
	via the VLE.
6. Start date	January 2017
7. Programme Accredited by	
(PSRB or other, if applicable)	
8. UCAS Code (If applicable)	
9. Relevant QAA subject	QAA Master's Degrees in Computing (2011) QAA General Master's
benchmark statement	Degrees (2015)

### 10. Programme Aims

The aim of the Arden University MSc Enterprise Architecture Management, programme is to provide a distinctive, inter-disciplinary and integrative educational programme aimed primarily at individuals who are either employed in or are desirous of entering management or strategic roles within the computing sector. The programme is designed to expose programme participants to a range of relevant topics relating to management within a computing or telecommunications context.

Online teaching materials are derived from established academic research in order to develop critical powers of analysis, reflection and the further development of interpersonal skills in preparation for management roles.

Programme participants will build on their existing understanding of the management of computing projects and organisations in a way that allows them to relate this to a range of contemporary management and computing ideas and practice within a global context as well as developing skills such as information security, enterprise design and infrastructure management. This is achieved through critical thinking, creativity and personal development.

In particular, based upon the established tasks and responsibilities associated with graduates, the purpose of the programme is to enable students to demonstrate the following:

Evaluate the use of an ethical IT strategy for a given organisation

Apply innovative approaches in the management of Information Systems departments

Devise and critically assess innovative business improvement opportunities and create proposals to enhance practice

Analyse IT strategy and take ownership of the alignment with organisational business goals Work supportively with others to streamline business process, functions, procedures and workflows An ability to critically manage stakeholder engagement in developing new processes and systems. Evaluate implementation and undertake reviews to evaluate benefits of new processes and systems.

Arden Values Mapping: the table below identifies how programme outcomes (listed within section 11) meet provide for full coverage of Arden University Values.

	Knowledge &	Intellectual	Practical	Transferable
	Understanding	Thinking	Skills	Skills
We Support People	A5	B1	C6	D4, D6

We Do the Right	A5, A7	B1, B2, B3,	C2, C4,	D3, D5, D6
Thing		B5	C5	
We Innovate	A2	B4, B5	C1, C3,	D4, D6
			C5	
We Take	A1, A2, A3, A4,	B1, B5	C1, C2,	D4, D5, D6
Ownership	A5, A6, A7		C3, C4,	
			C5	

11. Intended programme learning outcomes and the means by which they are achieved and demonstrated			
MSc (180 credits)			
11a. Knowledge and understanding	The means by which these outcomes are achieved	The means by which these outcomes are demonstrated	
A1 – Critically evaluate the role of	Learning and Teaching methods and strategy:	Knowledge and understanding are assessed	
Information Systems on the generation and	Acquisition of knowledge and understanding (A1 –	through in-module assessments of portfolio	
fulfilment of overall business strategy	A7) is through an integrated learning and teaching	submissions, presentations, time-constrained	
	pedagogy that includes both asynchronous and	examinations, and report based assignments.	
A2 – Analyse business planning methods	synchronous activity. That is:		
and generate innovative IT solutions to	Asynchronous	Formative assessments are the precursor to the	
meet planning needs.	Independent and directed student study, supported	summative assessments. Appropriate and diverse	
	throughout by comprehensive online multi-media	formative assessments are provided for students	
A3 – Evaluate the need for enterprise	teaching materials and resources accesses through	and are communicated to them via a clear	
architectural design and demonstrate	our VLE	overview to be found in the assessment brief for	
innovative solutions in the meeting of	Guided group / project based work	each module.	
workplace enterprise architectural needs.	Discussion forums where students discuss and		
	critically engage with themes emerging from the		
A4 – Critically understand the evolution of	materials they engage with, following the posing of		
technological trends and evaluate	questions or propositions, case studies or similar by		
opportunities for adoption of emerging	either tutor or students themselves		
technologies in IT practice	Podcasts and narrated PowerPoints		
	Synchronous		
A5 – Evaluate the need for and impact of	Online seminars facilitated by VOIPs where theory		
technology led organisational change and	and practice are integrated.		
the ethical dilemmas posed during the	Live chats		
process.	Based upon the profile of our typical student body,		
	our strategy enables students to engage with a		
A6 – Critically evaluate the role of data	variety of learning tools that best meet their learning		
handling and decision making in the	styles, overall objectives and personal circumstances.		
management Enterprise Architecture.			

A7 – Undertake self-led research into	Independent study is the cornerstone of the learner	
computing issues in the workplace	experience supported by engagement with the	
demonstrating an ethical approach to the	specialist tutor and peer engagement.	
application of research principles.	There is a requirement for written work at all levels	
	including reports, essays, practical tasks, developed	
	targeted plans etc., and our formative assessment	
	policy informs how feedback is supplied by tutors at	
	the draft assessment phase.	
11b. Intellectual (thinking) skills	The means by which these outcomes are achieved	The means by which these outcomes are
		demonstrated
B1 – Individually and collaboratively	Intellectual skills (B1 – B5) are developed throughout	Intellectual skills are assessed through a
analyse complex problems and	the programme by the methods and strategies	combination of in-course formative exercises and
requirements and systematically synthesise	outlined in section A, above.	summative assignments, including the submission
and evaluate a range of potential solutions.	Specific modules support the development of	of portfolios, self-reflective evidence, statistical
	quantitative and qualitative analysis, and the	analyses, qualitative judgements, and research
B2 - Demonstrate systematic, ethical and	development of criticality and self-reflective skills. In	reports/dissertation.
creative approaches to problem solving,	addition, the student's thinking skills will be evident	
showing initiative and originality.	in a summative assessment process which requires	
	and rewards learners for the demonstration of	
B3 - Systematically collect and use data	creative thinking and problem solving, analysis,	
from a wide range of sources to synthesise	judgement and self-reflection in the development of	
and evaluate effective decision alternatives	contextually relevant solutions, and a willingness to	
in relation to design, construction or	explore and engage with a range of media.	
management of Information Systems.	Throughout, the learner is encouraged to develop	
	intellectual skills further by undertaking further	
B4 - Synthesise and apply innovative	independent study and research.	
methodologies, techniques, tools and		
technologies from a range of fields within	Students will be required to demonstrate skill	
computing to provide complete solution to	development both individually and collaboratively	
novel or complex problems.	through the collection of information, analysis and	
	evaluation of findings and presentation of solutions.	

B5 - Utilise judgement to draw appropriate		
conclusions and make innovative		
recommendations.		
11c. Practical skills	The means by which these outcomes are achieved	The means by which these outcomes are
		demonstrated
C1 - Shows technical expertise, making	Practical and professional skills are employed in the	To support the development of practical skills
effective and efficient use of skills and	production of solutions to real life situations	students must supply worked materials and
adapting to new situations.	developed through set briefs, exercises and practical	evidence in support of their assignments. Critical
	activities. The important modern day skills of	reasoning, good presentation and sound evidence
C2 - Effectively and efficiently undertake a	managing projects, working within differing	trails in all assignments are rewarded. Assessment
project within an organisation	organisational and national cultures are provided by	briefs include a variety of commercial and
demonstrating effective individual working	specific modules, as are specific inputs with an	geographical contextual setting. Students receive
skills	emphasis upon practical functional decision making	feedback on all activities and assignments which
	skills related to market planning and strategy, market	includes practical examples for improvement in
C3 - Effectively identify relevant	intelligence and communications; managing others;	the application of theory to practice to help them
information, software and data strategies	and managing knowledge in addition to specific	improve both aspects of their skill base.
in an organisation to enable innovation	practical skills commensurate with the chosen	
	pathway.	
C4 - Articulate reasoned evidence to justify	Practical skills are further developed and integrated	
conclusions and recommendations.	through a series of in-course online activities and	
	projects intended to test skills acquired. Group	
C5 - Demonstrate flexibility in adapting to	forums provide opportunities to discuss ideas,	
novel and complex contexts.	progress, the work of others and the strengths and	
	weakness in the work presented and particularly	
	support the development of C4. Activities are	
	provided so that students can work independently to	
	consolidate their knowledge and grasp of practical	
	skills. The in-course activities and assessment process	
	in the final year particularly emphasise the	
	acquisition of C2 and C3 with specific modules	
	devised to highlight the practical differences in	
	management skills required in differing contexts.	

11c. Transferrable skills	The means by which these outcomes are achieved	The means by which these outcomes are demonstrated
D1 - Systematically and competently	Personal responsibility becomes an increasingly	To develop transferable skills all assignments must
collate, synthesise and communicate	important skill as students' progress, culminating in	meet time deadlines and word count guidelines.
complex information effectively	the writing of the Dissertation.	All assessed work must be submitted
complex information effectively		independently even where group activity has been
D2 Critically avaluate and use relevant	As the programme progresses work becomes more	, , , ,
D2 - Critically evaluate and use relevant	complex and students are tested on their abilities to	an element of the process. Students must take
research methods, both qualitative and	respond positively to feedback from a variety of	responsibility for their own work. All assignments
quantitative.	audiences, as well as to manage increasingly large	require students to adopt a spirit of critical
	workloads. Students are required to complete a	enquiry and self-reflection which is rewarded in
D3 - Demonstrate a reflective approach to	number of assignments and a 'research artefact' that	marking guides. These guides are shared with
work and the capacity to take responsibility	rewards independence originality, and critical	students.
for engaging in self-directed life-long	enquiry, and which further enhance communication	
learning for professional development.	and self-reflective skills.	
D4 - Work autonomously and		
collaboratively demonstrating the highest		
professional and ethical standards		
D5 - Manage time effectively by learning to		
plan and prioritise work in order to meet		
1 .		
specified deadlines.		
D6 - Learn independently and		
collaboratively in the spirit of critical and		
self-reflective enquiry.		

Exit Award	Knowledge &	Intellectual Skills	Practical Skills	Transferrable
	Understanding			Skills
Post Graduate	A1, A2, A3, A4, A5,	B1, B2, B3, B4	C1, C3, C5	D1, D3, D4, D6
Diploma	A6			
(120 credits)				
Post Graduate	A1, A2, A3	B1, B2, B3	C1, C3	D3, D6
Certificate				
(60credits)				

### 12. Graduate Attributes and the means by which they are achieved and demonstrated

#### **Graduate Attributes**

The concept of the Arden University Graduate, based upon the definition of 'graduate attribute' by Bowden et al (2000) has been developed around 6 attributes.

Lifelong Learning: Manage employability, utilising the skills of personal development and planning in different contexts to contribute to society and the workplace.

Reflective Practitioner: Undertake critical analysis and reach reasoned and evidenced decisions, contribute problem-solving skills to find and innovate in solutions

Professional Skills: Perform effectively within the professional environment. Work within a team, demonstrating interpersonal skills such as effective listening, negotiating, persuading and presentation. Be flexible and adaptable to changes within the professional environment

Discipline Expertise: Knowledge and understanding of chosen field. Possess a range of skills to operate within this sector, have a keen awareness of current developments in working practice being well positioned to respond to change.

Responsible Global Citizenship: Understand global issues and their place in a globalised economy, ethical decision-making and accountability. Adopt self-awareness, openness and sensitivity to diversity in culture.

Effective Communication: Communicate effectively both, verbally and in writing, using a range of media widely used in relevant professional context. Be IT, digitally and information literate.

Discipline Expertise: Knowledge and understanding of chosen field. Possess a range of skills to operate within this sector, have a keen awareness of current developments in working practice being well positioned to respond to change

### The means by which these outcomes are achieved and demonstrated

All six attributes are relevant to this programme, however, five will be developed throughout Level 7 of the MSc Engineering Management where they are integrated into all modules and assessed via unit study tasks (individual and group work) and through summative assessment tasks. Some graduate attributes are assessed in more than one module allowing for greater development of skills. Graduate Attribute Mapping

Module	Graduate Attribute
Business Plan Development	Lifelong Learning: Manage employability, utilising the
	skills of personal development and planning in different
	contexts to contribute to society and the workplace.
Technology and Trend Monitoring	Reflective Practitioner: Undertake critical analysis and
	reach reasoned and evidenced decisions, contribute
	problem-solving skills to find and innovate in solutions
Architecture Design	Professional Skills: Perform effectively within the
	professional environment. Work within a team,
	demonstrating interpersonal skills such as effective
	listening, negotiating, persuading and presentation. Be
	flexible and adaptable to changes within the
	professional environment.
Research Project	Discipline Expertise: Knowledge and understanding of
	chosen field. Possess a range of skills to operate within
	this sector, have a keen awareness of current
	developments in working practice being well positioned
	to respond to change.
Business Change Management	Responsible Global Citizenship: Understand global
	issues and their place in a globalised economy, ethical
	decision-making and accountability. Adopt self-
	awareness, openness and sensitivity to diversity in
	culture.
Data Handling and Decision Making	Effective Communication: Communicate effectively
IS and Business Strategy Alignment	both, verbally and in writing, using a range of media
	widely used in relevant professional context. Be IT,
	digitally and information literate.

## 13. Learning and teaching methods and strategies

**Distance Learning** 

Acquisition of all learning outcomes is via engagement with the online module learning material and the online tutoring and programme participant support mechanisms, both of which are delivered via Arden University's ilearn platform (a moodle-based system). The learning material comprises purpose-written self-contained lessons with frequent activities and feedback to generate learning and reinforce the knowledge acquisition through frequent application of learning to specific examples.

Embedded within the text are links to further reading and appropriate websites. Feedback within the learning material is provided to allow programme participants to check their understanding with that of the tutor. Additionally, group learning activities direct programme participants to the tutor-facilitated discussion forums where they engage in discussion with their peers and receive formative feedback from the module tutor.

Each of the 20 credit modules provide programme participants with an understanding of key theoretical and practical management issues, debates and academic informed literatures. Teaching/learning methods adopted are transferrable across modules and are similar across modules and include online class discussions, exercises/case studies and group discussions.

For each subject being taught a programme of structured online learning activities using both formative and summative assessment is applied. The emphasis is on action learning through the mediation of the module leader for each module.

Learning and Teaching activities are:

Asynchronous

Independent and directed student study, supported throughout by comprehensive online multimedia teaching materials and resources accesses through our Virtual Learning Environment Guided group / project based work

Research tasks

Discussion forums where students discuss and critically engage with themes emerging from the online materials they engage with, following the posing of questions or propositions, case studies or similar by either tutor or students themselves

Podcasts and narrated PowerPoints

**Synchronous** 

Online seminars facilitated by VOIPs where theory and practice are integrated

Live chats

Based upon the profile of our typical student body, our strategy enables students to engage with a variety of learning tools that best meet their learning styles, overall objectives and personal circumstances. Independent study is the cornerstone of the learner experience, supported by subject specialist engagement with the tutor and peer engagement.

**Blended Learning** 

A strategy which incorporates elements from the above criteria plus the support of face to face input will be utilised.

A-synchronous learning will be supported by in class face to face lectures, seminars and workshops. Students will have full access to the ilearn platform and all programme resources within it. Formative opportunities will be available in class and also via Adobe hosted seminars.

Students will also have access to learning resources at each partner institution.

Student leaning will be supported and nurtured at our partner institutions by our tutor team and dedicated centre administrator and on line via our student support team.

Summative submissions will all be made via the Turnitin platform.

#### 14. Assessment methods and strategies

The assessment process involves both formative and summative elements and is continuing in nature.

There will be a focus on encouraging students to apply their knowledge to practical situations. A significant part of this comes from the Dissertation module. Here students will be required to identify a topic of interest to them, which falls within the encompassing field of management. Students will explore this, and will apply their research to the topic, putting forward recommendations which are of practical benefit to the organisation.

The approach to coursework assignments will be to encourage students to apply their knowledge to organisations or case study data sets. This could be achieved through the use of case studies, but will also involve employees applying information and approaches to their own organisations, or an organisation with which they are familiar.

The assessment designed for each module reflects the intentions of that module and will measure the identified learning outcomes. A variety of assessment strategies will be used to reflect and test the achievement of the learning outcomes. These are detailed within each module and mapped in the table below. Assessment questions and cases are seen to be dynamic and are reviewed quarterly in order to maintain rigour and reflect changes in professional focus and practice.

There is a requirement for written work at all levels including reports, essays, developed plans, portfolios of work etc. and our assessment policy informs how feedback is supplied by tutors at the formative and summative assessment stage. Critical analysis is encouraged at all levels culminating in a Dissertation.

# **Assessment Mapping**

All Modules	Summative Assessment	Formative Assessment
IS and Business Strategy Alignment	For summative assessment, the students are given an opportunity to produce a detailed IS analysis report based on a case study of their own workplace. The first part of this report is focused on elicitation of long-term business and stakeholder requirements and proposal of corporate IS capable to meet them in the most effective and efficient way.  The second assessment is a presentation, demonstrating effective communication skills that discusses the development and justification of a respective IS expansion strategy and policy relevant to the student's own working environment. Both components of this coursework are	Formative Assessment  Formative feedback will be provided on each component in the form of feedback on draft work. Draft work may be submitted no less than two weeks prior to summative assessment.
Business Plan Development	The summative assessment is based on a strategic business plan, for their own workplace, that the students need to develop as a report using the concepts, approaches and frameworks they have studied over the course of this module. The reports key components to be assessed include business case formulation, business model development, market and competitor analysis, cost-benefit analysis, financial projections, risk mitigation strategy and compliance with corporate objectives.	Formative feedback will be provided on each component in the form of feedback on draft work. Draft work may be submitted no less than two weeks prior to summative assessment.
Architecture Design	The module would be assessed through one individual coursework component (100%). The final deliverable is expected to be a technical report of 5000 words. The Coursework will consist of a case study based upon the	Formative tasks will be undertaken throughout the delivery of the module. A draft of the summative piece of work may be submitted for feedback no less than two

	student's own workplace and will	weeks prior to the final
	require the student to assess the needs	assessment date.
	of the business and to evaluate current	
	architecture tools and methods to	
	develop a recommendation to enhance	
	the organisations IT working practices.	
Technology and	The module will be assessed through a	Formative feedback opportunities
Trend Monitoring	single, 5000 word document (100%).	will be via ongoing tasks
	The assessment will be split into two	throughout the module as well as
	parts. In part one the students will	submission of a draft no less than
	undertake research and evaluate the	two weeks prior to the final
	potential impact of a selected emerging	submission date.
	technology. The second part of the	
	assessment will require the students to	
	generate a recommendation plan for	
	integrating the emerging technology	
	evaluated in part one to generate an	
	innovative solution to a need within the	
	business.	
	Exact topic and content to be	
	addressed in the paper would be	
	dependent on the research question	
	and would be detailed in the	
	coursework document.	
Business Change	Students will be required to design a	Normally a draft of the assessment
Management	change management plan for their own	submitted no less than two weeks
	organisation, including details of audit,	prior to final submission.
	implementation and review phases. It is	
	expected that there will be	
	consideration made of ethical impacts	
	as well as demonstration of cultural	
	awareness.	
Data Handling and	1000 word audit of the data	Formative assessment options will
Decision Making	environment and ethical	be available via a series of practical
Decision waking	considerations. Sources and types of	tasks set prior to the assessment.
	data held within an organisation of the	A draft submission will be allowed
	students choice (normally their own	up to two weeks prior to the final
	organisation) will be identified and the	submission date.
	value analysed along with where gaps	Sabinission date.
	exist.	
	CAIST.	
	4000 word ropert based as statistical	
	4000 word report based on statistical	
	analysis of a large data set coupled with	
	a concluding narrative demonstrating	
	appropriate recommendations.	
I	Assessment is based upon the quality	1
	of the data analysis undertaken, range	

	of techniques etc. and the subsequent narrative that evaluates the findings and makes recommendations.	
Research Project	15000 word dissertation or 5000 word	Normally at least three formative
	journal article	opportunities within the
		dissertation supervision process.

#### 15. Employability

Entrants to this programme are highly likely to be in work, (be it Full or part Time). The MSc in Enterprise Architecture Management is designed to offer the degree of flexibility required to ensure that even those employed in full time positions have the maximum opportunity to fulfil their programme of study. The programmes aim to develop skills and knowledge such that graduates can confidently enter the computing management environment or can improve their existing career prospects within it. This degree develops a range of transferrable skills and provides opportunities for these to be evidenced. In particular, the final research project provides the ability to demonstrate higher level academic skills.

The distributed nature of Arden University students makes conventional careers support difficult but the use of the Abintegro provider allows us to offer a range of support in career development and there are opportunities for students to purchase more specialist support if required.

The addition of imbedded graduate attributes adds value to the qualification in terms of providing industry ready graduating students.

#### **16. Entry Requirements**

Arden University is keen to ensure that the programme is available to all those who can benefit from it.

Normally entry is via:

A degree equivalent to UK second class honours standard,

English ability equivalent to IELTS 6.5 (no less than 6.0 in any element), where the medium of undergraduate study was not English;

Applicants with existing postgraduate computing management awards may be eligible for entry with advanced standing and will be considered through the APL process.

Applicants who have substantial managerial experience (typically 5 years) and are able to demonstrate via references and supporting curriculum vitae an ability to successfully complete the programme may be admitted where they do not possess degree equivalent qualifications. It is not intended to offer exemptions based on experiential learning.

#### 17. Programme Structure

MSc Enterprise Architecture Management

Module			Module Type							
Code	Module Title	Credits	(Core/Option)	Assessment Method						
COM7001D	IS and Business Strategy	20	Core	Report and Individual						
	Alignment			Presentation						
BUS7008D	Business Plan Development	20	Core	Report						
COM7002D	Architecture Design	20	Core	Coursework						
COM7002D	Technology and Trend	20	Core	Management Report						
	Monitoring									
BUS7009D	Business Change Management	20	Core	Case Study based Report						

DAT7001D	Data Handling and Decision	20	Core	Essay and Case Study							
	Making			based Report							
RES7001D	Research Project	60	Core	Research Proposal and							
				Dissertation or Journal							
				Formatted Article & Viva							

18.	Subject:	I260 (Data Management),

Last Updated: November 2018 (V2)

# **Mapping of Intended Programme Learning Outcomes and Modules**

Programme Learning Outcomes  Modules		Module Type (Compulsory (C)	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	C1	C2	C3	C4	CS	D1	D2	D3	D4	D5	D6
	IS and Business Strategy Alignment	С	Х							Х				Х	Х		X	Χ		Χ		Χ		Χ	Х
	Business Plan Development	С		Χ						Χ	Χ	Χ						Χ						Χ	
_	Architecture Design	С			Χ					Χ	Χ	Χ			Χ			Χ	Χ	Χ					Х
Level	Technology and Trend Monitoring	С				Х				Х	Х	Х	Х	Х			Х	Х		X			Х		
	Business Change Management	С					Χ							Χ	Χ			Χ				Χ			Х
	Data Handling and Decision Making	С						Х			Х	Х	Х		X					Х			Х		
	Research Project	С							Х	Χ	Χ	Χ	Χ	Χ		Х	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Х