

A. 0	A. Course Information				
Final award title(s)	BSc (Hons) Infor	mation Techn	ology		
	BSc (Hons) Infor	mation Techno	ology (Sandwich)		
	BSc (Hons) Infor	mation Techn	ology Top-up		
Intermediate exit award	CertHe Informati	on Technology	/		
title(s)	DipHE Information	DipHE Information Technology			
UCAS Code		Course	(FT) 5453		
		Code(s)	` '		
			(PT) (6yrs)	4935	
			(Top Up) (FT	•	
			(Top_Up_PT) 4006	
	London South Ba	ank University			
School	□ ASC □ ACI LSS	□ BEA □	BUS ⊠ ENG [□ HSC □	
Division	Computer Science	ce and Informa	atics		
Course Director	Maria Lemac				
Delivery site(s) for course(s)	⊠ Southwark	☐ Have	ering		
	☐ Other: please	specify			
Mode(s) of delivery	⊠Full time	⊠Part time (4	years) ⊠Pa	rt Time (6	
	years)				
	☑ Top-up	⊠ Full-time sa	andwich		
Length of course/start and					
finish dates	Mode	Length years	Start - month	Finish - mor	
	Full time	3	September	August	
	Full time with	4	September	August	
	placement/				
	sandwich year Part time (4 year)	4	September	August	
	Part time (6 year)	6	September	August	
	Top-up	1	September	August	
	Top-up Part time	2	September	August	
			Осртстивст	7 tagast	
Is this course generally	Please complete the	International Off	ce questionnaire		
suitable for students on a	Yes No				
Tier 4 visa?	Students are advised that the structure/nature of the course is suitable for those on				
1101 1 1104 1	a Tier 4 visa but other factors will be taken into account before a CAS number is				
Approval dates:	allocated.				
	Course(s) validate	ted /	April 2018		
	Course(s) validate Subject to validate		April 2018		

Page 1 of 25 AQE October 2017

		Course	nacification last	Contombor 2022	
			pecification last	September 2022	
Duefocalization (. 0		and signed off		
Professional, Statutory	. &	BCS acc	reditations		
Regulatory Body					
accreditation			•	, The Chartered Institute for	
			purposes of fully mee	•	
		requireme	ent for registration as	a Chartered IT Professional.	
		Partial C	Eng - Accredited by E	BCS, The Chartered Institute	
		for IT on	behalf of the Enginee	ring Council for the purposes	
		of fully me	eeting the academic r	equirement for Incorporated	
		Engineer	and partially meeting	the academic requirement for	
		a Charter	ed Engineer.	·	
		a chartered Engineer.			
Reference points:		Internal Corporate Strategy 2020-2025			
				nd Enhancement Website	
			LSBU Academic Re		
		External		or Higher Education 2018	
		LXtorrial	· ·	mark Statement, Computing,	
			October 2019	mark Statement, Computing,	
			QAA Advice and Gui	danca	
			·		
			-	de for Higher Education 2018	
			•	er Education Qualifications	
			SEEC Level Descrip		
			BCS Guidelines for		
				omputer Science 2013	
			IET Guidance for meeting AHEP learning		
			outcomes 2015		
	В	. Course	Aims and Features	3	
Distinctive features	The I	nformation	Technology (IT) co	urse is for students who are	
of course	intere	sted in a wi	ide range of IT skills. It	t provides you with hybrid skills	
	- soft	ware deve	lopment skills and inf	ormation and communications	
	techno	ology-orien	ited knowledge, whi	ich are required by today's	
	busine	ess and ir	ndustry employers.	The course builds upon the	
	under	standing of	f system analysis, des	sign, applications development	
	and s	systems ad	dministration covered	I in Informatics core module	
		•		ted subjects such as Big Data	
			~	ons Development, Systems	
			•	tems and Cyber Security, and	
				velopment Frameworks. The	
		•		pportunity to situate the taught	
			• •	and to return to final year study	
			pective on Information		
	vviui a	HOM PEISE		i i comiciogy.	
Course Aims	The B	Sc (Hons)	Information Technolo	ogy aims to:	
		(. 15115)		g,	
	j				

AQE October 2017 Page 2 of 25

- 1. produce graduates who are equipped with the knowledge and skills to develop computer systems of different kinds
- 2. provide a comprehensive understanding of the analysis, design, implementation and evaluation of computer systems
- 3. provide a coherent underpinning of theory, practical skills and knowledge required of information technology professionals
- 4. produce graduates with the professional and ethical standards required for employment in the industry

Course Learning Outcomes

A. Students will acquire knowledge and understanding of:

- 1. hardware, computer networks, operating systems and application software
- 2. requirements analysis and the formal specification of computer systems
- 3. administration of computer systems
- software development using a variety of techniques, design notations, development environments and programming languages
- 5. ethics, professionalism and management of projects, people and change

B. Students will develop their intellectual skills such that they are able to:

- locate, analyse, evaluate and make effective use of reference material including literature from academic, technical and professional sources
- comprehend and critically evaluate theoretical arguments in computing and IT
- 3. analyse and predict future developments in computing based upon fundamental principles and evolving trends
- 4. analyse, evaluate, modify and synthesise approaches to software development and systems design, proposing appropriate and feasible technical solutions
- 5. collaborate effectively and professionally with technical and non-technical colleagues

C. Students will acquire and develop practical skills such that they are able to:

- 1. understand and use appropriate techniques and notations in the development of IT systems
- 2. design, develop and implement computer systems
- 3. analyse, evaluate and test computer systems
- 4. manage and administer information systems
- 5. analyse and specify requirements for information systems/IT, articulate IT requirements and present IT solutions to various

AQE October 2017 Page 3 of 25

stakeholders including business managers, IT directors, and software engineers.

D. Students will acquire and develop transferrable skills such that they are able to:

- 1. communicate effectively verbally and in writing
- 2. work effectively in teams
- 3. think critically and solve problems
- 4. sustain self-directed learning to maintain continuing professional development

C. Teaching and Learning Strategy

Overview of teaching and learning activities

There will be a combination of lectures, tutorials and computer laboratory activities to inform, contextualise, discuss, analyse, explore and critically evaluate the material in order to enable students to assimilate the material and develop students' intellectual abilities around it.

The delivery will aim to ensure a balance of cognitive tasks involving the demonstration and application of factual knowledge, problem-solving, analysis and critique with practical exercises in computer laboratories to reinforce learning through direct experience. Practical applications and utilising real-world examples will be used wherever possible.

At level 4 independent (non-contact) study hours will be predominantly concerned with assimilation, at level 5 knowledge acquisition will take place as part of analytical study and at level 6 students will be engaging in independent research and critical evaluation. At level 6 students will undertake an independently managed project which will involve making use of practical (and other) skills acquired during the course. Students taking the sandwich course will acquire practical skills and experience in their internship.

Modules exist to support the development of study and communication skills, to develop self-management skills and develop effective team-working (in certain modules cross discipline). In addition, classroom activities in many other modules will be used to foster these abilities.

Importance of independent learning

Students are required to undertake directed self-study and prepare solutions/discussions to questions relative to various topic areas. Students will be encouraged to identify for themselves particular problems of difficulty and to use seminar discussions, where appropriate, for the resolution of these. Students must regularly access the Moodle site for this module. They should download the class/lecture material from the Moodle site, and do the recommended reading, before each lecture/class. Where appropriate, students are also expected to download the relevant seminar questions and study them in advance of each seminar, in order to derive maximum benefit from seminar time. The programme of teaching, learning and assessment gives guidance on the textbook reading required for each week, the purpose of which is to encourage further reading both on and around the topic.

AQE October 2017 Page 4 of 25

Each 20-credit module has a total of 200 study hours, out of which:

- at level 4, 5 and 6 there are 52 direct contact hours and 148 independent study hours
- Project module has 40 direct contact hours and 360 independent study hours

Subject-related and generic resources available

Students will have access to approximately 200 PCs and 15 Macs in 10 teaching computer labs, which typically have the following ICT software facilities: Microsoft SQL Server, NetBeans with JDK8, Oracle, Python, SAS, Visual Paradigm etc. Students also have remote access to AppsAnywhere which includes variety of software required within the course. We also have a cyber security lab, which is used for specialised modules and several printers, including large format printers.

Generic resources include:

- Perry library provides access to traditional books, journal sources, PCs to
 use and laptops to borrow. The Perry Library is open throughout the week, and
 during the term are staffed from 10am until midnight from Monday to Friday,
 and 10.00 to 16.30 at weekends. There is seating capacity for 600 students in
 the library and the book-stock is in excess of 600,000 volumes. The building
 provides wireless access.
- The Students' Support Centre provides a first stop service for students on academic, personal and financial matters. It is aimed at improving student experience and offers LSBU's best employability, development and student services. The centre also offers home to our Students' Union.
- Fitness there is also a sports hall, fitness suite and gymnasium
- Catering there is a large refectory, with a selection of smaller cafes and eating outlets on campus.

Learning support

We support students throughout their course in many different ways, such as:

- personal tutoring
- support sessions on core maths & programming skills taking place weekly
- peer student led support sessions
- practical skills workshops
- labs equipped with the latest hardware and software
- lectures, seminars, personal tuition
- online learning materials
- varied assessment methods
- advice on work experience and career options
- opportunities for work placements and projects with employers
- tailored field trips
- training in research methods and assistance with independent research projects.

Teaching staff

Many academics have standing with a professional body (e.g. BCS, HEA, IEEE), and either a research background or an industry experience in their teaching area. Some

AQE October 2017 Page 5 of 25

modules may be supported with postgraduate students, who will either support tutorials at a lower level or provide support on modules related to their research area. Module leader with the division management will establish the suitability of the teaching team and support and training will be provided where necessary to ensure quality of teaching is delivered.

Virtual Learning for students

Moodle, the university's Virtual Learning Environment (VLE) provides online resources and support for all students. It enables students with access to resources and tools to support their teaching and learning, ensuring that any student will have access to the same electronic curriculum resources irrespective of their location (on or off-campus).

VLE also provides facilities such as on-line timetables, assessment submissions, lecture and tutorial resources, assessment results, as on-line timetables, lecture resources, course information, examination results, module selection and submission systems, revision tools, video, podcasts, module feedback, forums and other systems for both students and staff to support their courses.

VLE is also used in collaboration with LinkedIn Learning, through which students have free access to a wide range of training materials supporting their course. Typically, the content from LinkedIn Learning is used via embedded links in the VLE (Moodle) to prescribe playlist sequences of audio/video and various media content in support of students learning.

During the last year we have transitioned to online delivery. We have been using MS Teams to deliver our sessions where we also record these. The videos are available to the students to watch at any time. The software also enables very effective communication with the students. We also use Panopto, video content management software for lecture recording, screen casting and uploading/embedding videos within our VLE, Moodle.

D. Assessment

Formative assessment

Formative assessment is essential as it is effective in promoting student learning and it helps seek to determine how students are progressing through a certain learning goal. Wherever possible formative assessment will be used to allow students to gauge their own progress and address weak areas. Formative assessment will also provide assessors with the opportunity to learn about the extent to which students have developed expertise and can tailor their teaching accordingly.

Formative assessment will take different forms depending on the module level and type, but in general a selection and combination of the following will be used:

- class discussions
- verbal feedback on tutorial activities
- observation and questioning to provide instant feedback as the student takes part in learning activities

AQE October 2017 Page 6 of 25

- self and peer assessment
- interactive revision guizzes

Summative assessment

For all modules summative assessment consists of either 100% coursework or a combination of coursework and two-hour typically closed-book examination. All modules have a 40% pass mark which has to be achieved for each component individually (exam and coursework).

Students' acquisition of knowledge and understanding will be assessed by coursework tasks requiring the demonstration of such, including assessed practical tasks, report writing, in-class tests and presentations, individual and team-projects, etc. There is typically one coursework per module, which may consist of two or more components.

Examinations will be closed-book and will require students to demonstrate that knowledge and understanding have been achieved.

Progression

Students must pass all core modules in order to progress to the following year and pass any final year core modules to be eligible for classification.

E. Academic Regulations

The University's Academic Regulations apply for this course. For course specific protocols please refer to the Divisional protocol document.

F. Entry Requirements

Degree Course

In order to be considered for entry to one of the degree courses applicants will be required to have the following qualifications:

- BBC at A Level (112 UCAS points); or
- BTEC National Diploma DMM (112 UCAS points) or
- One of the following T-Levels with a pass of Merit (120 UCAS points):
 - Digital Production, Design and Development
 - Digital Business Services
 - Digital Support Services

Or

- Access to HE qualifications with 10 Distinctions, 30 Merits and 5 Passes;
- Applicants must hold 5 GCSEs A-C including Maths and English or equivalent (reformed GCSEs grade 4 or above).

We welcome qualifications from around the world. English language qualifications for international students: IELTS score of 6.0 or Cambridge Proficiency or Advanced Grade C.

AQE October 2017 Page 7 of 25

Top-up Course

In order to be considered for entry to one of the Top-up courses applicants will be required to have the following qualifications:

- Higher National Diploma with at least 60 credits at merit in second year modules, or
- other equivalent Higher Education qualification

We welcome qualifications from around the world. English language qualifications for international students: IELTS score of 6.0, Cambridge Proficiency or Advanced Grade C.

G. Course structure(s)

Course overview

All full time and part time courses are organized into two semesters, each lasting 15 weeks. Top-up course has a slightly different structure, as it consists of three semesters, the third one being a summer semester.

Semester one starts in September, Semester 2 in January and Semester 3 in June.

The standard 'building block' of all course delivery are modules – identified in size by CATS (Credit Accumulation and Transfer Scheme) credits. All module size across the course is 20 CATS credits; with the exception of the Honours project, which is a double module worth 40 credits.

This course has a full-time, full-time with sandwich, part-time (4-year degree), part-time (6-year degree) and top-up award-bearing structure of modules, with defined learning outcomes and secure location within the Framework for Higher Education Qualifications. All of the above courses will lead to a single honours awards of the University.

Information Technology – Full time with sandwich

Year 1	Semester 1		Semester 2	
	Fundamentals of Computer	20 credits	Professional Practice,	20
	Science, compulsory		compulsory	credits
	Discrete Mathematics,	20 credits	Requirements Analysis and	20
	compulsory		UCD, compulsory	credits
	Fundamentals of Software	20 credits	Software Development,	20
	Development, compulsory		compulsory	credits
Year 2				
	Analysis and Design,	20 credits	Big Data and Database	20
	compulsory		Systems, compulsory	credits
	Information Systems,	20 credits	System Administration and	20
	compulsory		Maintenance, compulsory	credits
	Web Technologies,	20 credits	Developing Applications,	20
	compulsory		compulsory	credits
Sandwich				
year				
	Sandwich Placemen	t in Compute	r Science and Informatics (0 cred	it)
Year 3				
	P	roject, comp	ulsory 40 credits	

AQE October 2017 Page 8 of 25

ICT Project Management in	20 credits	Systems and Cyber Security,	20
Practice, optional (or the following module)		compulsory	credits
Innovation and Enterprise,	20 credits	Smart Internet Technologies,	20
optional		optional (or the following module)	credits
Data Mining and Big Data	20 credits	AR/VR Technologies, optional	20
Analytics, optional (or the following module)			credits
Content Management and	20 credits		
Development Frameworks			
for Web, optional			

Information Technology – Part time (4 year course)

Year 1	Semester 1		Semester 2	
T Cai T	Fundamentals of Computer	20 credits	Professional Practice,	20 credits
	Science, compulsory	20 Credits	compulsory	20 Cledits
	Fundamentals of Software	20 credits	Requirements Analysis and	20 credits
		20 Credits	UCD, compulsory	20 Credits
	Development, compulsory		OCD, compulsory	
Year 2				
	Discrete Mathematics,	20 credits	Software Development,	20 credits
	compulsory		compulsory	
	Analysis and Design,	20 credits	System Administration and	20 credits
	compulsory		Maintenance, compulsory	
	Information Systems,	20 credits		
	compulsory			
Year 3				
	Web Technologies, compulsory	20 credits	Big Data and Database	20 credits
			Systems, compulsory	
	ICT Project Management in	20 credits	Developing Applications,	20 credits
	Practice, optional (or the		compulsory	
	following module)			
	Innovation and Enterprise,	20 credits		
	optional			
Year 4				
	Pr	oject, compu	lsory 40 credits	
	Data Mining and Big Data	20 credits	Systems and Cyber Security,	20 credits
	Analytics, optional (or the		compulsory	
	following module)			
	Content Management and	20 credits	AR/VR Technologies, optional	20 credits
	Development Frameworks for		(or the following module)	
	Web, optional			
			Smart Internet Technologies	20 credits
			optional	

Information Technology – Part time (6 year course)

Year 1	Semester 1		Semester 2	
	Fundamentals of Computer	20 credits	Professional Practice,	20 credits
	Science, compulsory		compulsory	

AQE October 2017 Page 9 of 25

	Discrete Mathematics, compulsory	20 credits		
Year 2				
			Requirements Analysis and UCD, compulsory	20 credits
	Fundamentals of Software Development, compulsory	20 credits	Software Development, compulsory	20 credits
Year 3				
	Analysis and Design, compulsory	20 credits	Big Data and Database Systems, compulsory	20 credits
	Information Systems, compulsory	20 credits		
Year 4				
	Web Technologies, compulsory	20 credits	System Administration and Maintenance, compulsory	20 credits
			Developing Applications, compulsory	20 credits
Year 5				
	ICT Project Management in Practice, optional (or the following module)	20 credits	Systems and Cyber Security, compulsory	20 credits
	Innovation and Enterprise, optional	20 credits		
	Data Mining and Big Data Analytics, optional (or the following module)	20 credits		
	Content Management and Development Frameworks for Web, optional	20 credits		
Year 6				
	Pr	oject, compu	lsory 40 credits	
			Smart Internet Technologies,, optional (or the following module)	20 credits
			AR/VR Technologies, optional	20 credits

Information Technology – Top-up Full time (1 year)

Year 1	Semester 1		Semester 2	
	Web Technologies, compulsory	20 credits	Developing Applications,	20 credits
			compulsory	
	ICT Project Management in	20 credits	Systems and Cyber Security,	20 credits
	Practice, optional (or the		compulsory	
	following module)			
	Innovation and Enterprise,	20 credits	Smart Internet Technologies,	20 credits
	optional		optional (or the following	
			module	
	Data Mining and Big Data	20 credits	AR/VR Technologies, optional	20 credits
	Analytics, optional (or the			
	following module)			

AQE October 2017 Page 10 of 25

	Content Management and Development Frameworks for Web, optional	20 credits			
	Summer				
	Project, compulsory 40 credits				

Information Technology – Top-up Part time (2 years)

Year 1	Semester 1		Semester 2	
	Web Technologies, compulsory	20 credits	Developing Applications,	20 credits
			compulsory	
	Data Mining and Big Data	20 credits	Smart Internet Technologies,	20 credits
	Analytics, optional (or the		optional (or the following	
	following module)		module	
	Content Management and	20 credits	AR/VR Technologies, optional	20 credits
	Development Frameworks for			
	Web, optional			
Year 2				
	Pr	oject, compu	lsory 40 credits	
	ICT Project Management in	20 credits	Systems and Cyber Security,	20 credits
	Practice, optional (or the		compulsory	
	following module)			
	Innovation and Enterprise,	20 credits		
	optional			

Placements information

A Sandwich course has a zero credit (pass/fail) placement module which is taken during the placement period, the assessment (presentation and report) submission is due on resuming studies.

H. Course Modules

All options are offered subject to a minimum threshold of students. If a first-choice option is not available, students will be offered a second or third module option. Students will be informed of their options prior to the end of the year.

Code	Module Title	Level	Sem	Credit	Assessment
CSI-4-PPR	Professional Practice	4	2	20	Coursework 100%
CSI-4-FCS	Fundamentals of Computer Science	4	1	20	Coursework 100%
CSI-4-FSD	Fundamentals of Software Development	4	1	20	Coursework 100%
CSI-4-DMT	Discrete Mathematics	4	1	20	Coursework 100%
CSI-4-SOD	Software Development	4	2	20	Coursework 100%
CSI-4-RAU	Requirements Analysis and User-Centred Design	4	2	20	Coursework 100%
CSI-4-AAD	Advanced Analysis and Design	5	1	20	Coursework 60% exam 40%

AQE October 2017 Page 11 of 25

CSI-4-BDD	Big Data and Database Systems	5	2	20	Coursework 60% Exam 40%
CSI-4-ISM	Information Systems	5	1	20	Coursework 100%
CSI-4-SAM	System Administration and Maintenance	5	2	20	Exam 40% Coursework 60%
CSI-4-APD	Developing Applications	5	1	20	Coursework 100%
CSI-5-WET	Web Technologies	5	2	20	Coursework 100%
CSI-5-PLA	Sandwich Placement in Computer Science and Informatics	5	1&2	0	End of placement report
CSI-6-ART	AR/VR Technologies	6	2	20	Coursework 60% Exam 40%
CSI-6-CTM	Content Management and Web Development Frameworks	6	1	20	Coursework 60% Exam 40%
CSI-6-CSP	Honours Undergraduate Project	6	1&2	40	Coursework 100%
CSI-6-DMT	Data Mining and Big Data Analytics	6	1	20	Coursework 60% Exam 40%
CSI-6-ICT	ICT Project Management in Practice	6	1	20	Coursework 100%
MED-6-IAE	Innovation and Enterprise	6	1	20	Coursework 100%
CSI-4-SIT	Smart Internet Technologies	6	2	20	Coursework 60% Exam 40%
CSI-6-SCS	Systems and Cyber-security	6	2	20	Coursework 60% Exam 40%

I. Timetable information

Students can expect to receive a confirmed timetable for study commitments as soon as possible. Students are usually expected to have 1.5 days per week teaching free.

J. Costs and financial support

Course related costs

The course fee does not include the cost of text books or personal devices (student laptops). These items are not required for study as alternatives exist (including laptop loan service): All text books that are mandatory for study are usually available via the library in a free form (for example as e-books) and the computer labs provide the essential equipment. The costs of field trips are not included, but where a field trip is required for the purpose of study costs will not exceed typical transport costs within the London area.

Tuition fees/financial support/accommodation and living costs

AQE October 2017 Page 12 of 25

- Information on tuition fees/financial support can be found by clicking on the following link http://www.lsbu.ac.uk/courses/undergraduate/fees-and-funding or
- http://www.lsbu.ac.uk/courses/postgraduate/fees-and-funding
- Information on living costs and accommodation can be found by clicking the following link-

https://my.lsbu.ac.uk/my/portal/Student-Life-Centre/International-Students/Starting-at-LSBU/#expenses

List of Appendices

Appendix A: Curriculum Map

Appendix B: Educational Framework (undergraduate courses)

Appendix C: Personal Development Planning (postgraduate courses)

Appendix D: Terminology

AQE October 2017 Page 13 of 25

Appendix A: Curriculum Map

This map provides a design aid to help course teams identify where course outcomes are being developed, taught and assessed within the course. It also provides a checklist for quality assurance purposes and may be used in validation, accreditation and external examining processes. Making the learning outcomes explicit will also help students to monitor their own learning and development as the course progresses.

	Module\Outcome	Knowledge			Intel	tellectual			Pr	Practical				Transferable									
		cr	A1	A2	A3	A4	A5		B1	B2	В3	B4	B5	C	C2	C3	C4	C5		D1	D2	D3	D4
L4	Fundamentals of Computer Science	20	tda		t	tda			t	td	t			td	a d		td					td	
L4	Mathematics	20	d			td			td	td	d			td	1	d				tda	tda	tda	
L4	Business and Professional Issues	20		tda			tda		tda	tda	tda	td	tda	d		tda		tda		tda	tda	tda	tda
L4	Requirements Analysis and User	20	d	tda		d	tda		td	td	d	tda	tda	td	a tda	tda		tda		tda	td	tda	d
	Centred Design																						
L4	Fundamentals of Software Development	20	d	d		tda			td	td	d	d		td	a tda	td		td		tda		tda	td
L4	Software Development	20	d	td		tda			td	td	d	d		td	a tda	td		td		tda		tda	td
L5	Analysis and Design	20		tda		d	tda		td	td	d	tda	tda	td	a tda	tda		tda		tda	tda	tda	td
L5	Web Technologies	20	td	tda	d	d	d		td	td	td	tda	d	td	a tda	tda	d	tda		tda	t	tda	td
L5	Big Data and Database Systems	20	td	tda	d	tda	d		td	td	td	tda	d	td	a tda	tda	d	tda		tda	tda	tda	td
L5	Information Systems	20		tda			tda		tda	td	tda	tda	tda	d	d	td		tda		tda	tda	tda	d
L5	Developing Applications	20	td	tda	d	tda	d		td	td	td	tda	d	td	a tda	tda	d	tda		tda	tda	tda	td
L5	System Administration and Maintenance	20	tda	d	tda	d	d		td	td	d	d	d	d	d	d	tda	d		tda	tda	tda	td
L5	Sandwich Placement in Computer	0	da	da	da	da	da		da	da	da	da	da	da	da	da	da	da		da	da	da	da
	Science and Informatics																						
L6	Honours Undergraduate Project	40	da	da	da	da	da		da	da	da	da	da	da	da	da	da	da		da		da	da
L6	Innovation and Enterprise	20		d			da		tda	tda	td	d	tda			tda		da		tda	tda	tda	td
L6	ICT Project Management in Practice	20		da		d	tda		td			d	tda		d	d		d		tda	tda	tda	td
L6	Systems and Cyber Security	20	tda	d	d	tda	d		td	td	td	tda	d	d	da	tda	tda	tda		tda		tda	td
L6	Content Management and Web	20	td	tda	d	tda	d		tda	tda	tda	tda	tda	td	a tda	tda	td	tda		tda	tda	tda	td
	Development Frameworks																						
L6	Data Mining and Big Data Analytics	20	td	d		tda	d		td	tda	td	tda	tda	td	a tda	tda	td	tda		tda	tda	tda	td

Appendix B: Embedding the Educational Framework for Undergraduate Courses

The Educational Framework at London South Bank University is a set of principles for curriculum design and the wider student experience that articulate our commitment to the highest standards of academic knowledge and understanding applied to the challenges of the wider world.

The Educational Framework builds on our 125 year history as a civic university committed to fostering social mobility through employability and enterprise, enabling our students to translate academic achievement into career success.

There are four key characteristics of LSBU's distinctive approach to the undergraduate curriculum and student experience:

- Develop students' professional and vocational skills through application in industrystandard facilities
- Develop our students' graduate attributes, self-awareness and behaviours aligned to our EPIIC values
- Integrate opportunities for students to develop their confidence, skills and networks into the curriculum
- Foster close relationships with employers, industry, and Professional, Statutory and Regulatory Bodies that underpin our provision (including the opportunity for placements, internships and professional opportunities)

The dimensions of the Educational Framework for curriculum design are:

- **informed by employer and industry** needs as well as professional, statutory and regulatory body requirements
- embedded learning development for all students to scaffold their learning through the curriculum taking into account the specific writing and thinking requirements of the discipline/profession
- high impact pedagogies that enable the development of student professional and vocational learning through application in industry-standard or authentic workplace contexts
- **inclusive teaching, learning and assessment** that enables all students to access and engage the course
- assessment for learning that provides timely and formative feedback

All courses should be designed to support these five dimensions of the Educational Framework. Successful embedding of the Educational Framework requires a systematic approach to course design and delivery that conceptualises the student experience of the curriculum as a whole rather than at modular level and promotes the progressive development of understanding over the entire course. It also builds on a well-established evidence base across the sector for the pedagogic and assessment experiences that contribute to high quality learning.

AQE October 2017 Page 15 of 25

This appendix to the course specification document enables course teams to evidence how their courses meet minimum expectations, at what level where appropriate, as the basis for embedding the Educational Framework in all undergraduate provision at LSBU.

Dimension of the Educational	Minimum expectations and rationale	How this is achieved in the course
Framework Curricula informed by employer and industry need	Outcomes focus and professional/employer links All LSBU courses will evidence the involvement of external stakeholders in the curriculum design process as well as plan for the participation of employers and/or alumni through guest lectures or Q&A sessions, employer panels, employer- generated case studies or other input of expertise into the delivery of the course provide students with access to current workplace examples and role models. Students should have access to employers and/or alumni in at least one module at level 4.	The course design has been informed by discussion with industry representatives. It is intended that all final year taught modules should include at least one external speakers. The level 6 module ICT Project Management in Practice has been designed around a consultancy exercise based on a real case study presented by external professionals. The level 4 module Professional Practice has been designed to provide experience and knowledge of all professional issues and will incorporate presentations by external professionals and LSBU alumni.
Embedded learning development	Support for transition and academic preparedness At least two modules at level 4 should include embedded learning development in the curriculum to support student understanding of, and familiarity with, disciplinary ways of thinking and practising (e.g. analytical thinking, academic writing, critical reading, reflection). Where possible, learning development will be normally integrated into content modules rather than as standalone modules. Other level 4 modules should reference and reinforce the learning development to aid in the transfer of learning.	The level 4 module Professional Practice is the key provider of learning development and disciplinary thinking in conjunction with the level 4 module Requirements Analysis and UCD.
High impact pedagogies	Group-based learning experiences The capacity to work effectively in teams enhances learning through working with peers and develops student outcomes, including communication, networking and respect for diversity of perspectives relevant to professionalism and inclusivity . At least one module at level 4 should include an opportunity for group working. Group-based learning can also be linked to assessment at level 4 if appropriate. Consideration should be given to how students are allocated to groups to foster experience of diverse perspectives and values.	The level 4 module Professional Practice incorporates team working exercises, with outputs of these activities included in the assessment. Level 6 module CTM provides opportunities for team work and learning and is linked to assessment. The level 6 module ICT Project Management in Practice revolves around a more

AQE October 2017 Page 16 of 25

		I
		sophisticated and in-depth team-working exercise.
Inclusive	Accessible materials, resources and activities	All course materials and
teaching, learning and assessment	All course materials and resources, including course guides, PowerPoint presentations, handouts and Moodle should be provided in an accessible format. For example, font type and size, layout and colour as well as captioning or transcripts for audio-visual materials. Consideration should also be given to accessibility and the availability of alternative formats for reading lists.	resources will be provided in a variety of formats making them accessible to students with different needs. Lecture/sessions videos will also be provided for the students to access at any time.
Assessment for learning	Assessment and feedback to support attainment, progression and retention Assessment is recognised as a critical point for at risk students as well as integral to the learning of all students. Formative feedback is essential during transition into university. All first semester modules at level 4 should include a formative or low-stakes summative assessment (e.g. low weighted in final outcome for the module) to provide an early opportunity for students to check progress and receive prompt and useable feedback that can feed-forward into future learning and assessment. Assessment and feedback communicates high expectations and develops a commitment to excellence.	All taught modules have formative assessment strategies explicitly described in their descriptors. Level 4 modules are especially designed to offer significant feedback on formative assessments in recognition of difficulties that some students have with making transition to the HE. Requirement Analysis module also has low weighing summative assessment in week 6 to provide an early opportunity for the students to check progress and receive
High impact pedagogies	Research and enquiry experiences Opportunities for students to undertake small-scale independent enquiry enable students to understand how knowledge is generated and tested in the discipline as well as prepare them to engage in enquiry as a highly sought after outcome of university study. In preparation for an undergraduate dissertation at level 6, courses should provide opportunities for students to develop research skills at level 4 and 5 and should engage with open-ended problems with appropriate support. Research opportunities should build student autonomy and are likely to encourage creativity and problem-solving. Dissemination of student research outcomes, for example via posters, presentations and reports with peer review, should also be considered.	feedback. At level 4 Professional Practice includes the development of research skills and critical writing. They also are given an opportunity to engage with open-ended problems and are guided throughout the activity. The students also present their findings and receive peer feedback. At level 5 the students will be involved in team works to research about latest technologies and their application in the appropriate areas.
Curricula informed by employer and industry need / Assessment for learning	with peer review, should also be considered. Authentic learning and assessment tasks Live briefs, projects or equivalent authentic workplace learning experiences and/or assessments enable students, for example, to engage with external clients, develop their understanding through situated and experiential learning in real or simulated workplace contexts and deliver outputs to an agreed specification and	The level 6 module ICT Project Management in Practice explicitly addresses the use of authentic workplace learning experiences, while other modules (particularly at level 6, but to a lesser extent in level 4 and 5) are intended to make

AQE October 2017 Page 17 of 25

		T
	deadline. Engagement with live briefs creates the opportunity for the development of student outcomes including excellence, professionalism, integrity and creativity. A live brief is likely to develop research and enquiry skills and can be linked to assessment if appropriate.	use of case studies and examples derived from current events, industry and ongoing developments in the relevant fields.
Inclusive teaching, learning and assessment	Course content and teaching methods acknowledge the diversity of the student cohort An inclusive curriculum incorporates images, examples, case studies and other resources from a broad range of cultural and social views reflecting diversity of the student cohort in terms of, for example, gender, ethnicity, sexuality, religious belief, socio-economic background etc. This commitment to inclusivity enables students to recognise themselves and their experiences in the curriculum as well as foster understanding of other viewpoints and identities.	The course team will be encouraged to explore a wide variety of teaching approaches to offer all students as exciting a learning experience as possible and hopefully to allow all to find aspects of the course that allow them to make use of their individual strengths and characters. Non-technical content such as examples and case studies shall be drawn
Curricula informed by employer and industry need	Work-based learning Opportunities for learning that is relevant to future employment or undertaken in a workplace setting are fundamental to developing student applied knowledge as well as developing work-relevant student outcomes such as networking, professionalism and integrity. Work-based learning can take the form of work experience, internships or placements as well as, for example, case studies, simulations and role-play in industry-standards settings as relevant to the course. Work-based learning can be linked to assessment if appropriate.	from a global context. The level 6 taught module ICT Project Management in Practice is built around a real world case study. The student have opportunities to do placements within the university and at our link SMEs.
Embedded learning development	Writing in the disciplines: Alternative formats The development of student awareness, understanding and mastery of the specific thinking and communication practices in the discipline is fundamental to applied subject knowledge. This involves explicitly defining the features of disciplinary thinking and practices, finding opportunities to scaffold student attempts to adopt these ways of thinking and practising and providing opportunities to receive formative feedback on this. A writing in the disciplines approach recognises that writing is not a discrete representation of knowledge but integral to the process of knowing and understanding in the discipline. It is expected that assessment utilises formats that are recognisable and applicable to those working in the profession. For example, project report, presentation, poster, lab or field report, journal or professional article, position paper, case report, handbook, exhibition guide.	Discipline specific writing techniques are explicitly taught at level 4 in Professional Practice. Formal reports and presentations are part of coursework assessments for most of the modules. The students receive feedback on their formative and summative assessments as well as their writing skills.

AQE October 2017 Page 18 of 25

High impact	Multi-disciplinary, interdisciplinary or	The level 6 taught module ICT
pedagogies	interprofessional group-based learning	Project Management in
pedagogies		Practice has been designed in
	experiences Puilding on experience of group working at level 4	collaboration with the Division
	Building on experience of group working at level 4,	
	at level 5 students should be provided with the	of Law and involves the active
	opportunity to work and manage more complex	participation of academics and
	tasks in groups that work across traditional	students from separate
	disciplinary and professional boundaries and	disciplines.
	reflecting inter-professional work-place settings.	
	Learning in multi- or interdisciplinary groups	Some of our final year projects
	creates the opportunity for the development of	are done in cooperation with
	student outcomes including inclusivity,	the other divisions within the
	communication and networking.	School of Engineering.
Assessment	Variation of assessment	A wide range of diverse
for learning	An inclusive approach to curriculum recognises	assessment types is used
	diversity and seeks to create a learning	throughout the course taking
	environment that enables equal opportunities for	into account that students
	learning for all students and does not give those	might have their preferred and
	with a particular prior qualification (e.g. A-level or	less preferred styles of
	BTEC) an advantage or disadvantage. An holistic	assessments. This approach
	assessment strategy should provide opportunities	ensures fairness and enables
	for all students to be able to demonstrate	students to perform to their full
	achievement of learning outcomes in different	abilities.
	ways throughout the course. This may be by	
	offering alternate assessment tasks at the same	
	assessment point, for example either a written or	
	oral assessment, or by offering a range of different	
	assessment tasks across the curriculum.	
Curricula	Career management skills	The level 6 module ICT Project
informed by	Courses should provide support for the	Management in Practice
employer and	development of career management skills that	provides a forum for career
industry need	enable student to be familiar with and understand	related discussion. Reflection is
	relevant industries or professions, be able to build	an assessed component of
	on work-related learning opportunities, understand	many modules throughout the
	the role of self-appraisal and planning for lifelong	course and is an integral
	learning in career development, develop resilience	component of the final year
	and manage the career building process. This	dissertation.
	should be designed to inform the development of	
	excellence and professionalism.	
Curricula	Capstone project/dissertation	The final year project has been
informed by	The level 6 project or dissertation is a critical point	designed as a capstone
employer and	for the integration and synthesis of knowledge and	module that allows students to
industry need	skills from across the course. It also provides an	synthesise and apply all they
1	important transition into employment if the	have learnt in the module. The
Assessment	assessment is authentic, industry-facing or client-	project has been designed with
for learning /	driven. It is recommended that this is a capstone	the recognition of the British
High impact	experience, bringing together all learning across	Computer Society explicitly in
pedagogies	the course and creates the opportunity for the	mind and thus represents an
F 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	development of student outcomes including	undertaking relevant to future
	professionalism, integrity and creativity.	employment prospects (for
	p. 5.55551511anom, intogrity and ordativity.	example as something
		students can describe to
		potential employers in depth to
		illustrate their expertise).
I		musuate their expertise).

AQE October 2017 Page 19 of 25

Appendix C: Personal Development Planning

Personal Development Planning (PDP) is a structured process by which an individual reflects upon their own learning, performance and/or achievement and identifies ways in which they might improve themselves academically and more broadly. Course teams are asked to indicate where/how in the course/across the modules this process is supported.

Approach to PDP	Level 4	Level 5	Level 6
1 Supporting the development and recognition of skills through the personal tutor system.	A personal tutor will be assigned to each student from among the academic staff teaching on the level 4 modules.	The personal tutor assigned at level 4 will continue to support students in their personal development.	CS Project supervisor takes over personal tutoring role.
2 Supporting the development and recognition of skills in academic modules/modules.	All modules	All modules	All modules
3 Supporting the development and recognition of skills through purpose designed modules/modules.	Professional Practice		ICT Project Management in Practice
4 Supporting the development and recognition of skills through research projects and dissertations work.	Professional Practice		CS Project
5 Supporting the development and recognition of career management skills.	Professional Practice RAU	Applications Development	ICT Project Management in Practice
6 Supporting the development and recognition of career management skills through work placements or work experience.		BSc Sandwich Placement; various shorter placements and internships	
7 Supporting the development of skills by recognising that they can be developed through extra curricula activities.	Extra-curricula and capstone events	Extra-curricula and capstone events Applications Development – encouraging self-initiated work on projects in teams	Extra-curricula and capstone events
8 Supporting the development of the skills and attitudes as a basis for continuing professional development.	Professional Practice, Personal tutoring	Web Technologies, Applications Development -raising awareness of diverse technologies and job opportunities, with intention to encourage personal development.	ICT Project Management in Practice Content Management

AQE October 2017 Page 20 of 25

9 Other approaches to personal		
development planning.		
10 The means by which self-	Electronic	CS Project log book
reflection, evaluation and	learning log in	
planned development is	Professional	
supported e.g. electronic or	Practices	
paper-based learning log or		
diary.		

The following table shows how PDP is being applied in the BSc (Hons) Information Technology Top-up degree course.

Approach to PDP	Level 5 and 6
1 Supporting the development and recognition of skills through the personal tutor system.	The course director provides the personal tutoring role.
2 Supporting the development and recognition of skills in academic modules/units.	Content Management and Development Frameworks for Web ICT Project Management in Practice
3 Supporting the development and recognition of skills through purpose designed modules/units.	
4 Supporting the development and recognition of skills through research projects and dissertations work.	CS Project
5 Supporting the development and recognition of career management skills.	ICT Project Management in Practice
6 Supporting the development and recognition of career management skills through work placements or work experience.	Work placements and work experience opportunities are published on the VLE frequently
7 Supporting the development of skills by recognising that they can be developed through extra curricula activities.	Extra-curricula and "capstone" events . Applications Development – encouraging self-initiated work on projects in teams
8 Supporting the development of the skills and attitudes as a basis for continuing professional development.	Web Technologies Applications Development
9 Other approaches to personal development planning.	Applications Development – raising awareness of wide range of technologies and encouraging personal development
10 The means by which self-reflection, evaluation and planned development is supported e.g. electronic or paper-based learning log or diary.	CS Project log book

The course director will act as personal tutor to all students. In the full-time degree course, project supervisors provide this, but the top-up students carry out their projects over the summer so the same arrangement is not applicable here.

AQE October 2017 Page 21 of 25

Student Support

Personal Tutoring Scheme

Students will be allocated a personal tutor, usually from among the full time academic staff teaching on the level 4 modules. This arrangement allows tutors and tutees to establish a relationship through regular contact with their assigned tutees. Personal tutors arrange regular meetings with their tutees to check that there are no problems and they are making progress. They also contact and arrange ad hoc meetings if students' attendance/engagement is not at a good level to identify the issues and provide necessary support if possible or give advice. Course directors also monitor students' attendance and achievement and contact /meet students to support and encourage their engagement.

The students retain the same personal tutor through their level 5 studies. This provides a continuity that allows tutors to develop a better understanding of their tutees and students to recognise that they have a consistent level of support. While students may or may not have contact with their personal tutors in teaching activities a series of individual meetings will be employed to maintain the relationship.

At level 6 the student will be studying a full-year project and is required to have frequent regular meetings with their assigned supervisor. PDP is a significant component of the project module as the students further develop a wide range of skills such as research, critical thinking, critical writing, problem solving, formal report writing as well as intrapersonal/interpersonal skills such as time management, organisation, communication and professionalism while working on it. As the supervisors are intrinsically involved in the development of their work it is most appropriate for the supervisor to fulfil the PDP functions of the personal tutor role at level 6.

Academic Support

The students are given diagnostic assessments during the induction to identify gaps in their key skills (English and Maths). This is followed up by a meeting with their personal tutor who gives them feedback and advises them in regard to any improvements that need to be made in this area. The resources are provided for the students to use if they need to improve their skills in this area. The key skills are embedded into the appropriate modules as well and diagnostic tests are given to the students on regular basis (every 2 weeks) to assess their own progress. A small percentage of the mark contributes to the maths module mark, this is mainly to motivate the students.

At the school level we also have 'academic-clinic' sessions every week run by a member of the academic staff. The students receive academic help and feedback during these sessions.

At the university level we provide English and Maths as well as other support sessions which are freely available to all the students.

AQE October 2017 Page 22 of 25

Appendix D: Terminology

awarding body	a UK higher education provider (typically a university) with the power to award higher education qualifications such as degrees
bursary	a financial award made to students to support their studies; sometimes used interchangeably with 'scholarship'
collaborative provision	a formal arrangement between a degree-awarding body and a partner organisation, allowing for the latter to provide higher education on behalf of the former
compulsory module	a module that students are required to take
contact hours	the time allocated to direct contact between a student and a member of staff through, for example, timetabled lectures, seminars and tutorials
coursework	student work that contributes towards the final result but is not assessed by written examination
current students	students enrolled on a course who have not yet completed their studies or been awarded their qualification
delivery organisation	an organisation that delivers learning opportunities on behalf of a degree-awarding body
distance-learning course	a course of study that does not involve face-to-face contact between students and tutors
extracurricular	activities undertaken by students outside their studies
feedback (on assessment)	advice to students following their completion of a piece of assessed or examined work
formative assessment	a type of assessment designed to help students learn more effectively, to progress in their studies and to prepare for summative assessment; formative assessment does not contribute to the final mark, grade or class of degree awarded to students

AQE October 2017 Page 23 of 25

higher education provider	organisations that deliver higher education
independent learning	learning that occurs outside the classroom that might include preparation for scheduled sessions, follow-up work, wider reading or practice, completion of assessment tasks, or revision
intensity of study	the time taken to complete a part-time course compared to the equivalent full-time version: for example, half-time study would equate to 0.5 intensity of study
lecture	a presentation or talk on a particular topic; in general lectures involve larger groups of students than seminars and tutorials
learning zone	a flexible student space that supports independent and social earning
material information	information students need to make an informed decision, such as about what and where to study
mode of study	different ways of studying, such as full-time, part-time, e-learning or work-based learning
modular course	a course delivered using modules
module	a self-contained, formally structured unit of study, with a coherent and explicit set of learning outcomes and assessment criteria; some providers use the word 'course' or 'course unit' to refer to individual modules
national teaching fellowship	a national award for individuals who have made an outstanding impact on student learning and the teaching profession
navigability (of websites)	the ease with which users can obtain the information they require from a website
optional module	a module or course unit that students choose to take
performance (examinations)	a type of examination used in performance- based subjects such as drama and music
professional body	an organisation that oversees the activities of a particular profession and represents the interests of its members
prospective student	those applying or considering applying for any programme, at any level and employing any mode of study, with a higher education provider

AQE October 2017 Page 24 of 25

regulated course	a course that is regulated by a regulatory body
regulatory body	an organisation recognised by government as being responsible for the regulation or approval of a particular range of issues and activities
scholarship	a type of bursary that recognises academic achievement and potential, and which is sometimes used interchangeably with 'bursary'
semester	either of the parts of an academic year that is divided into two for purposes of teaching and assessment (in contrast to division into terms)
seminar	seminars generally involve smaller numbers than lectures and enable students to engage in discussion of a particular topic and/or to explore it in more detail than might be covered in a lecture
summative assessment	formal assessment of students' work, contributing to the final result
term	any of the parts of an academic year that is divided into three or more for purposes of teaching and assessment (in contrast to division into semesters)
total study time	the total time required to study a module, unit or course, including all class contact, independent learning, revision and assessment
tutorial	one-to-one or small group supervision, feedback or detailed discussion on a particular topic or project
work/study placement	a planned period of experience outside the institution (for example, in a workplace or at another higher education institution) to help students develop particular skills, knowledge or understanding as part of their course
workload	see 'total study time'
written examination	a question or set of questions relating to a particular area of study to which candidates write answers usually (but not always) under timed conditions

AQE October 2017 Page 25 of 25