

Course Addendum: Changes to 2020/21 Teaching In Response to Covid-19

Whilst we hope to deliver as much activity on-campus as possible, the government's guidance and social distancing measures will inform how much teaching we can deliver face-to-face in the 2020/21 academic year. Working to government guidelines we have adapted the delivery of our courses to a model of blending learning, which consists of a mix of online and on-campus activities. We are equipped to move between blended learning to fully online, or face—to—face, as the Covid-19 situation evolves.

The learning outcomes of your course remain the same but there are changes to its delivery, assessment and structure, as set out in the Changes section of this document. The subsequent pages of this document contain the original teaching and learning schedule of this course, for your reference.

24th July 2020

Course Details

Course (Course Course Course Course Course Code(s) BSc (Hons) Information Technology (PT)	Course Title(s)					
BSC (Hons) Information Technology (PT) 4156 BSC (Hons) Information Technology (PT) (6yrs) 4935 BSC (Hons) Information Technology (PT) (6yrs) 4935 BSC (Hons) Information Technology (Top Up) (FT) 5454 BSC (Hons) Information Technology (Top Up) (PT) 4006 BSC (Hons) Information Technology (Top Up) (PT) 4006 BSC (Hons) Extended Degree (Foundation) 569 BSC (Hons) Computer Science (FT) 4638 BSC (Hons) Computer Science (PT) 5455 BSC (Hons) Digital and Technology Solutions Professional (Business Analyst) (PT) (Apprenticeship) BSC (Hons) Digital and Technology Solutions Professional (Cyber Security Analyst) (PT) (Apprenticeship) 5198 BSC (Hons) Digital and Technology Solutions Professional (Data Analyst) (PT) (Apprenticeship) 5199 BSC (Hons) Digital and Technology Solutions Professional (IT Consultant) (PT) (Apprenticeship) 5200 BSC (Hons) Digital and Technology Solutions Professional (Network Engineer) (PT) (Apprenticeship) 5201 BSC (Hons) Digital and Technology Solutions Professional (Software Engineer) (PT) (Apprenticeship) 5202 MSC Data Science (FT) 4940 MSC Data Science (PT) 5084 Electrical and Electronic Engineering (PT) 4150 BEng (Hons) Computer Engineering (FT) 4630 MEng (Hons) Electrical and Electronic Engineering (FT) 4526 MEng (Hons) Computer Systems and Networks Engineering (PT) 4619	Course Title(s)	Computer Science & Informatics				
BSC (Hons) Information Technology (PT) (6yrs) BSC (Hons) Information Technology (PT) (6yrs) BSC (Hons) Information Technology (Top Up) (FT) BSC (Hons) Information Technology (Top Up) (PT) BSC (Hons) Extended Degree (Foundation) 569 BSC (Hons) Computer Science (FT) BSC (Hons) Computer Science (PT) BSC (Hons) Digital and Technology Solutions Professional (Business Analyst) (PT) (Apprenticeship) BSC (Hons) Digital and Technology Solutions Professional (Cyber Security Analyst) (PT) (Apprenticeship) BSC (Hons) Digital and Technology Solutions Professional (Data Analyst) (PT) (Apprenticeship) S199 BSC (Hons) Digital and Technology Solutions Professional (IT Consultant) (PT) (Apprenticeship) S200 BSC (Hons) Digital and Technology Solutions Professional (IT Consultant) (PT) (Apprenticeship) S200 BSC (Hons) Digital and Technology Solutions Professional (Network Engineer) (PT) (Apprenticeship) S201 BSC (Hons) Digital and Technology Solutions Professional (Software Engineer) (PT) (Apprenticeship) MSC Data Science (FT) MSC Data Science (FT) MSC Data Science (PT) BEING (Hons) Computer Engineering (PT) BEING (Hons) Electrical and Electronic Engineering (FT) MENG (Hons) Electrical and Electronic Engineering (FT) MENG (Hons) Computer Systems and Networks Engineering (PT) MENG (Hons) Computer Systems and Networks Engineering (PT)		, , ,				
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BSc (Hons) Extended Degree (Foundation) 569 BSc (Hons) Computer Science (FT) 4637 BSc (Hons) Computer Science (PT) 4638 BSc (Hons) Computer Science (PT) 5455 BSc (Hons) Digital and Technology Solutions Professional (Business Analyst) (PT) (Apprenticeship) BSc (Hons) Digital and Technology Solutions Professional (Cyber Security Analyst) (PT) (Apprenticeship) BSc (Hons) Digital and Technology Solutions Professional (Data Analyst) (PT) (Apprenticeship) BSc (Hons) Digital and Technology Solutions Professional (IT Consultant) (PT) (Apprenticeship) 5199 BSc (Hons) Digital and Technology Solutions Professional (IT Consultant) (PT) (Apprenticeship) 5200 BSc (Hons) Digital and Technology Solutions Professional (Network Engineer) (PT) (Apprenticeship) 5201 BSc (Hons) Digital and Technology Solutions Professional (Software Engineer) (PT) (Apprenticeship) 5202 MSc Data Science (FT) 4940 MSc Data Science (PT) 5084 Electrical and Electronic Engineering HND Electrical and Electronic Engineering (PT) 4150 BEng (Hons) Computer Engineering (FT) 4630 MEng (Hons) Electrical and Electronic Engineering (FT) 4526 MEng (Hons) Computer Systems and Networks Engineering (PT) 4619		BSc (Hons) Information Technology (Top Up) (FT)	5454			
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Electrical and Electronic Engineering HND Electrical and Electronic Engineering (PT) BEng (Hons) Computer Engineering (FT) MEng (Hons) Electrical and Electronic Engineering (FT) MEng (Hons) Computer Systems and Networks Engineering (PT) 4619		MSc Data Science (FT)	4940			
HND Electrical and Electronic Engineering (PT) 4150 BEng (Hons) Computer Engineering (FT) 4630 MEng (Hons) Electrical and Electronic Engineering (FT) 4526 MEng (Hons) Computer Systems and Networks Engineering (PT) 4619		MSc Data Science (PT)	5084			
HND Electrical and Electronic Engineering (PT) 4150 BEng (Hons) Computer Engineering (FT) 4630 MEng (Hons) Electrical and Electronic Engineering (FT) 4526 MEng (Hons) Computer Systems and Networks Engineering (PT) 4619						
BEng (Hons) Computer Engineering (FT) 4630 MEng (Hons) Electrical and Electronic Engineering (FT) 4526 MEng (Hons) Computer Systems and Networks Engineering (PT) 4619		Electrical and Electronic Engineering				
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MEng (Hons) Computer Systems and Networks Engineering (PT) 4619		BEng (Hons) Computer Engineering (FT)	4630			
		MEng (Hons) Electrical and Electronic Engineering (FT)	4526			
MEng (Hons) Electrical Engineering and Power Electronics (FT) 4622		MEng (Hons) Computer Systems and Networks Engineering (PT)	4619			
		MEng (Hons) Electrical Engineering and Power Electronics (FT)	4622			
BEng (Hons) Electrical and Electronic Engineering (PT) 502		BEng (Hons) Electrical and Electronic Engineering (PT)	502			

	BEng (Hons) Electrical and Electronic Engineering (Apprenticeship) (PT) 5265
	BEng (Hons) Computer Systems and Networks Engineering (PT)	2419
	MSc Electrical and Electronic Engineering (PT)	4322
	PhD Electronic and Electrical Engineering (FT)	9042
	BEng (Hons) Electrical Engineering and Power Electronics (FT)	4632
	MEng (Hons) Electrical Engineering and Power Electronics (FT)	4622
	HND Electrical and Electronic Engineering (FT)	511
	BEng (Hons) Electrical Engineering and Power Electronics (PT)	4633
	BEng (Hons) Computer Systems and Networks Engineering (FT)	2388
	MSc Electrical and Electronic Engineering (FT)	4321
	MSc Advanced Telecommunications and Wireless Engineering (PT)	4320
	BEng (Hons) Electrical and Electronic Engineering (FT)	501
	MEng (Hons) Electrical Engineering and Power Electronics (PT)	4623
	BEng (Hons) Computer Engineering (FT)	4630
	MEng (Hons) Computer Systems and Networks Engineering (FT)	4618
	BEng (Hons) Computer Engineering (PT)	4631
	BEng (Hons) Electrical Engineering and Power Electronics (FT)	4632
	BEng (Hons) Electrical and Electronic Engineering (FT)	501
	HND Electrical and Electronic Engineering (FT)	511
	BEng (Hons) Electrical and Electronic Engineering	5607
	BEng (Hons) Electrical and Electronic Engineering	5608
	BEng (Hons) Electronic and Computer Systems Engineering	5604
	BEng (Hons) Electronic and Computer Systems Engineering	5605
Course	All Course Directors. Details given in 'additional information'	
Director		
Shared		
Modules?		

Changes to sequencing of modules:

3143	BSc (Hons) Product Design (FT)			
Module code and	name (please list	S2→S1	S1 → S2	
by level)				
Level 5 Design Int	teractions	Module can be delivered via online		
ENG_5_549		teaching so 'switched' to semester 1		
		(as evidenced by Module Leader's		
		experience of delivering during		
		initial lockdown)		
Level 5 Design Futures and			Module 'switched' to semester 2	
emerging technologies				
ENG_5_548				

4622 / 4623	MEng (Hons) Electrical Engineering and Power Electronics FT/PT		
Module code and name (please list		S2 → S1	S1 → S2
by level)			
Systems for Environmental Services			V
ENG_7_529			
Advanced Power Electronics and		V	
Renewable Energy			
EEB_7_404			

4526 / 4529	MEng Electrical and Electronic Engineering FT/PT
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Module code and name (please list	S2→S1	S1→S2
by level)		
Advanced Instrumentation and		٧
Design		
EEE_7_AID		
Advanced Power Electronics and	V	
Renewable Energy		
EEB_7_404		

4321 / 4322	MSc Electrical and Electronic Engineering		
Module code and name (please list		S2→S1	S1 → S2
by level)			
Advanced Power Electronics and		V	
Renewable Energy			
EEE_7_PRE			
Advanced Instrumentation and			V
Design			
EEE_7_AID			

Changes to the mode of delivery and course composition

Subject to Government advice and in line with our commitment to the safety of our staff and students, from September we are planning the following:

- Labs, workshops and small group tutorials will be delivered on site, where possible
- Lectures will be online, with remote alternatives, during the first semester, including live online discussions/tutorials with lecturers and other students
- Support materials and lecture notes will be available on our virtual learning environment, Moodle
- Module teaching teams and personal tutors will be available throughout the semester via email and virtual office hours

Importantly, we will ensure that we provide equivalent resources and support to students who are unable to join us on campus for these sessions.

Your overall amount of contact will be the same as if it were delivered fully on campus.

Additional information

Any additional information		
COURSES	COURSE DIRECTORS	CONTACT EMAIL
Computer Science & Informati	ics	
BSc (Hons) Information Technology:		
BSc (Hons) Information Technology (FT) 5453		
BSc (Hons) Information Technology (PT) 4156		
BSc (Hons) Information Technology (PT) (6yrs) 4935		
BSc (Hons) Information Technology (Top Up) (FT) 5454		
BSc (Hons) Information Technology (Top Up) (PT) 4006	Maria Lemac	lemacm@lsbu.ac.uk
BSc (Hons) Extended Degree (Foundation) 569	Paul Carden	cardenp@lsbu.ac.uk
BSc (Hons) Computer Science:		
BSc (Hons) Computer Science (FT) 4637		
BSc (Hons) Computer Science (PT) 4638		
BSc (Hons) Computer Science (Top Up) (FT) 5455	Mike Child	childm@lsbu.ac.uk
BSc (Hons) Digital Professional (Apprenticeships)	Paul Carden	cardenp@lsbu.ac.uk

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BSc (Hons) Digital and Technology Solutions Professional					
(Business Analyst) (PT) (Apprenticeship) 5197					
BSc (Hons) Digital and Technology Solutions Professional (Cyber					
Security Analyst) (PT) (Apprenticeship) 5198					
BSc (Hons) Digital and Technology Solutions Professional (Data					
Analyst) (PT) (Apprenticeship) 5199					
BSc (Hons) Digital and Technology Solutions Professional (IT					
Consultant) (PT) (Apprenticeship) 5200					
BSc (Hons) Digital and Technology Solutions Professional					
(Network Engineer) (PT) (Apprenticeship) 5201					
BSc (Hons) Digital and Technology Solutions Professional					
(Software Engineer) (PT) (Apprenticeship) 5202					
MSc Data Science					
MSc Data Science (FT) 4940					
MSc Data Science (PT) 5084	Daqing Chen	chend@lsbu.ac.uk			
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Mechanical Engineering & De	sign				
	Ravee				
BEng + MEng (Hons) Mechanical Engineering	Sundararajan	sundarr2@lsbu.ac.uk			
	Ravee				
BEng (Hons) Mechanical Engineering and Design (Top-up)	Sundararajan	sundarr2@lsbu.ac.uk			
BEng + MEng (Hons) Advanced Vehicle Engineering	Alessio Corso	corsoa@lsbu.ac.uk			
BSc (Hons) Engineering Product Design	Ben Lishman	lishmanb@lsbu.ac.uk			
	Andrew				
BSc (Hons) Product Design	Forkes	forkesa@lsbu.ac.uk			
	Abas	hadaweya@lsbu.ac.u			
MSc Mechanical Engineering		k			
	Hadawey	K			
Electrical and Electronic Engine	eering				
BEng (Hons) Electrical and Electronic Engineering	Ya Bao	baoyb@lsbu.ac.uk			
BEng (Hons) Electronic and Computer Systems Engineering	Stavros				
52.1.6 (110113) Licettonia and Computer Systems Engineering	Dimitriou	dimitrsa@lsbu.ac.uk			
DEng (Hone) Floatrical Dawer Engineering	Manoj	ponugubm@lsbu.ac.			
BEng (Hons) Electrical Power Engineering	Ponugubati	uk			
BEng (Hons) Electrical and Electronic Engineering	Manoj	ponugubm@lsbu.ac.			
(Apprenticeship)	Ponugubati	uk			
MSc Electrical and Electronic Engineering	Tony Vilches	vilchesa@lsbu.ac.uk			
	iony viiones	s.memon@lsbu.ac.u			
HND Electrical and Electronic Engineering	Saim Memon	k			
	Charman	K			
BEng (Hons) Computer Engineering (old program - L5/L6 live)	Stavros	alian itana sa Olishi			
	Dimitriou	dimitrsa@lsbu.ac.uk			
BEng (Hons) Computer Systems and Networks Engineering (old	Zhanfang				
program - L5/L6 live)	Zhao	zhaoza@lsbu.ac.uk			
BEng (Hons) Electrical Engineering and Power Electronics (old	Manoj	ponugubm@lsbu.ac.			
program - L5/L6 live)	Ponugubati	uk			
Chemical and Energy Enginee	Chemical and Energy Engineering				
	Anna-Karin				
BEng/MEng (Hons) Chemical Engineering	Axelsson	axelssa2@lsbu.ac.uk			
Dens, with thous, chemical trigineering	AVCISSOLI	uncissuz@isbu.ac.uk			

	Anna-Karin	
BEng/MEng (Hons) Chemical & Energy Engineering	Axelsson	axelssa2@lsbu.ac.uk
	Anna-Karin	
Beng/MEng (Hons) Chemical & Process Engineering	Axelsson	axelssa2@lsbu.ac.uk
	Achilleas	
HND Chemical Engineering	Constantinou	constaa8@lsbu.ac.uk
	Maria	centenom@lsbu.ac.u
Extended Degree Programme in Engineering	Centeno	k
	Maria	centenom@lsbu.ac.u
MSc Petroleum Engineering	Centeno	k
	Anna-Karin	
MSc Chemical Engineering and Process Management	Axelsson	axelssa2@lsbu.ac.uk

Original Course Specification

For reference, the following pages contain the original teaching and learning schedule of this course, prior to the changes implemented in response to Covid-19.

	A. Course Information				
Final award title(s)	BSc (Hons) Computer Science				
	BSc (Hons) Computer Science (Sandwich) BSc (Hons) Computer Science Top-Up				
Intermediate exit award	BSC (Hons) Com	puter Science	е тор-ор		
title(s)					
110400				T	
UCAS Code			Course Code(s)		
	London South Ba	ank University			
School	□ ASC □ ACI	□ BEA □	□ BUS ⊠	ENG 🗆	HSC □ LSS
Division	Computer Science	e and Inform	atics		
Course Director	Mike Child				
Delivery site(s) for course(s)	Southwark	☐ Ha\	vering		
	☐ Other: please	specify			
Mode(s) of delivery	⊠Full time	⊠Part time		⊠Part ⁻	Γime (6 years)
		⊠ Full-time	sandwich		
Length of course/start and finish dates					
illisti dates	Mode	Length year	s Start - r	month	Finish - month
	Full time	3	Septen	nber	August
	Full time with	4	Septen	nber	August
	placement/				
	sandwich year				
	Part time (4 year)	4	Septen	nber	August
	Part time (6 year)	6	Septen	nber	August
	Part time (4 year)	5	Septen		August
	with				
	Placement/				
	sandwich year				
	Part time (6 year)	7	Septen	nber	August
	with				
	Placement/				
	sandwich year				
	Top-up	1	Septen	nber	August
	Top-up Part time	2	Septen	nber	August
					

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Is this course generally	Please comple	Please complete the International Office questionnaire		
suitable for students on a	Yes			
Tier 4 visa?	Students are ad	Students are advised that the structure/nature of the course is suitable for those on a Tier 4		
			count before a CAS number is allocated.	
Approval dates:	Course(s) v	alidated /	May 2018	
	Subject to v			
	•	cification last	15 May 2019	
	updated an	d signed off		
Professional, Statutory &	BCS sough	t		
Regulatory Body	Partial IET	CEng sought		
accreditation				
Reference points:	Internal	Corporate Strate	eav 2015-2020	
·		Academic Quali	ity and Enhancement Manual	
		School Strategy		
	External	LSBU Academic	de for Higher Education 2013	
	External		Higher Education Qualifications	
		•	nark Statements (Dated)	
			nd Markets Authority	
		SEEC Level De BCS Guidelines	scriptors 2016 s for Accreditation [2018]	
		ACM curricula for Computer Science [2013]		
		IET Guidance for meeting AHEP learning outcomes		
	P. Course	B. Course Aims and Features		
Distinctive features The			legree offers the opportunity to study	
			ractical approaches to the design and	
		nentation of systems. This course explores a wide range of computer		
	•	e topics from the algorithmic essentials and hardware foundations to ced software systems, networks, virtual machines and emerging		
	anced software nnologies.	s systems, network	s, virtual machines and emerging	
	•	n develoning a con	nprehensive understanding of	
			stems and technology directly in terms	
of t	ne fundamental	principles of comp	outer science. This is intended to	
			ing than could be achieved by studying	
			e graduates with the ability to see all essions of fundamental principles and	
			ntials and limitations.	
The	course offers a	a balanced program	nme including the theory of computation,	
		nine architecture, machine language, algorithms, data structures,		
		amming and software development, software engineering, operating		
			esign and security. It also offers various ligence, mobile and cloud computing.	
			ngenee, mobile and cloud computing.	
Course Aims The	ne BSc (Hons) Computer Science degree aims to:			
			quipped with the knowledge and skills	
	kinds	ievelop, use and II	nanage computer systems of diverse	
	2. provide a c			
	implementa	ation and evaluation	n of computer systems	

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3. provide a combination of theory, practical skills and knowledge suitable for a range professional roles in the computing industry

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. the foundations and contemporary development of theoretical computer science, computer hardware, computer networks, operating systems and application software
- 2. requirements analysis and the formal specification of computer systems
- 3. software development using a variety of software engineering techniques, design notations, development environments and programming languages, data encoding, storage, management and analysis
- 4. the fundamental issues related to robustness and security in systems, software and networks including consideration of social, ethical and legal issues which affect the development and use of information systems

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 to comprehend and critically evaluate theoretical arguments in computer science
- 2. analyse and predict future developments in computing based upon fundamental principles and evolving trends
- 3. evaluate, modify and synthesise approaches to software development and systems design
- 4. collaborate effectively and professionally with technical and non-technical colleagues working to analyse practical problems and propose appropriate and feasible technical solutions

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

- design, develop, test and document software representative of contemporary programming practices and using professional development tools and techniques
- analyse and specify requirements for the implementation of a range of computing and information systems including effectively use formal notations and graphical and numerical representations for data, processes and other relevant concepts
- 3. analyse systems for potential security weaknesses and propose mitigating measures that could be taken
- 4. comprehend the fundamental principles underpinning computer systems and use them to estimate limitations they impose and potential future advancements that might allow you to acquire new technical competencies and skills by applying theoretical principles to future developments in technology

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- D. Students will acquire and develop transferable skills such that they are able to:
 - 1. communicate effectively verbally and in writing
 - 2. work effectively in teams
 - 3. manage time and personal resources effectively
 - 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.

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

- at level 5, there are 65 direct contact hours and 135 independent study hours
- at level 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 JDK, Oracle, Python, SAS, Visual Paradigm, Microsoft Imagine, etc. We also have a cyber security lab, which is used for specialised modules and several printers, including large format printers.

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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 08.30 until 21.00 from Monday – Thursday, and 10.30 to 16.20 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

Majority of academics have standing with a professional body (e.g. BCS, ACM, IEEE), and either a research background or an industry experience in their teaching area. Some 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 Lynda.com website, through which students have free access to a wide range of training materials supporting their course.

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Typically, the content from Lynda.com 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.

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:

- interactive revision guizzes
- think-pair-share concept and class discussions
- · verbal feedback on tutorial activities
- observation and questioning to provide instant feedback as the student takes part in learning activities
- self and peer assessment

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 and Award

Progression means a student can move to a higher stage of study. If you have passed all the modules in one stage of study you can progress to the next stage. If you have failed any modules within the stage of study you can progress to the next stage if your failure has been compensated or condoned.

You may be awarded a pass by compensation if you have not met all the requirements to pass a module but your overall performance, and your performance in the failed module, meets criteria previously approved by the Quality and Standards Committee. If we award a compensated pass, the module mark is recorded as a pass mark on your transcript.

We may condone a pass if you can prove that your work was affected by circumstances outside your control. If we condone a failed module, the mark will stay the same, but you will be credited with a pass on your transcript.

You can progress to the next stage while still needing to complete one 20-credit module from the first semester and one 20-credit module from the second semester or the equivalent for part-time

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study. You must have passed all relevant modules (or had any failures condoned or compensated) before you can receive an award.

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 the degree course applicants will be required to have the following qualifications:

- A Level BBB or;
- BTEC National Diploma DDM or;
- Access to HE qualifications with 24 Distinctions 21 Merits including 3 Merits in Maths and 12 Merits in ICT or:
- Equivalent level 3 qualifications worth 122 UCAS points
- 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.

Top-up Course

In order to be considered for entry to the Top-up course 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.

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Computer Science – Full time with sandwich

Year 1	Semester 1		Semester 2	
Level 4	Fundamentals of Computer Science, compulsory	20 credits	Professional Practice, compulsory	20 credits
	Discrete Mathematics, compulsory	20 credits	Requirements Analysis and UCD, compulsory	20 credits
	Fundamentals of Software Development, compulsory	20 credits	Data Structures and Algorithms, compulsory	20 credits
Year 2				
Level 5			Big Data and Database Systems, compulsory	20 credits
	Software Engineering, compulsory	20 credits	Principles of Data Networks, compulsory	20 credits
	Object Oriented Programming, compulsory	20 credits	Advanced Programming, compulsory	20 credits
Sandwich year				
	Sandwich Placeme	nt in Computer	Science and Informatics (0 credit)	
Year 3				
Level 6		Project, compu	llsory 40 credits	
	Systems and Cyber Security, compulsory	20 credits	ICT Project Management in Practice, compulsory	20 credits
	Data Mining and Big Data Analytics, optional	20 credits	Smart Internet Technologies, optional	20 credits
	Mobile Computing, optional	20 credits	AR/VR Technologies, optional	20 credits
			Artificial Intelligence, optional	20 credits

Computer Science – Part time (4 year course)

Year 1	Semester 1		Semester 2		
	Fundamentals of Computer Science, compulsory	20 credits	Professional Practice, compulsory	20 credits	
	Fundamentals of Software Development, compulsory	20 credits	Data Structures and Algorithms, compulsory	20 credits	
Year 2					
	Discrete Mathematics, compulsory	20 credits	Requirements Analysis and UCD, compulsory	20 credits	
			Principles of Data Networks, compulsory	20 credits	
	Object Oriented Programming, compulsory	20 credits	Advanced Programming, compulsory	20 credits	
Year 3					
	Operating Systems, compulsory	20 credits	Big Data and Database Systems, compulsory	20 credits	
	Software Engineering, compulsory	20 credits	Smart Internet Technologies, optional	20 credits	
			AR/VR Technologies, optional	20 credits	
			Artificial Intelligence, optional	20 credits	

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Year 4								
	Project, compulsory 40 credits							
	Systems and Cyber Security, compulsory	20 credits	ICT Project Management in Practice, compulsory	20 credits				
	Data Mining and Big Data Analytics, optional	20 credits						
	Mobile Computing, optional	20 credits						

Computer Science – Part time (6 year course)

Year 1	Semester 1		Semester 2	
	Fundamentals of Computer Science, compulsory	20 credits	Professional Practice, compulsory	20 credits
	Discrete Mathematics, compulsory	20 credits		
Year 2				
			Requirements Analysis and UCD, compulsory	20 credits
	Fundamentals of Software Development, compulsory	20 credits	Data Structures and Algorithms, compulsory	20 credits
Year 3				
	Operating Systems, compulsory	20 credits	Big Data and Database Systems, compulsory	20 credits
	Software Engineering, compulsory	20 credits		
Year 4				
			Principles of Data Networks, compulsory	20 credits
	Object Oriented Programming, compulsory	20 credits	Advanced Programming, compulsory	20 credits
Year 5				
	Systems and Cyber Security, compulsory	20 credits	ICT Project Management in Practice, compulsory	20 credits
	Data Mining and Big Data Analytics, optional	20 credits		
	Mobile Computing, optional	20 credits		
Year 6				
		Project, comp	ulsory 40 credits	
			Smart Internet Technologies, optional	20 credits
			AR/VR Technologies, optional	20 credits
			Artificial Intelligence, optional	20 credits

Computer Science – Top-up Full time (1 year)

Year 1	Semester 1		Semester 2	
	Object Oriented Programming, compulsory	20 credits	Principles of Data Networks, compulsory	20 credits
	Systems and Cyber Security, 20 cred compulsory Data Mining and Big Data Analytics, optional		ICT Project Management in Practice, compulsory	20 credits
			Smart Internet Technologies, optional	20 credits
	Mobile Computing, optional	20 credits	AR/VR Technologies, optional	20 credits
			Artificial Intelligence, optional	20 credits
		Sum	nmer	
		Project, compu	llsory 40 credits	

Computer Science – Top-up Part time (2 years)

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	Year 1	Semester 1		Semester 2	
ĺ		Object Oriented Programming,	20 credits	Principles of Data Networks,	20 credits
		compulsory		compulsory	
		Data Mining and Big Data Analytics, optional	20 credits	Smart Internet Technologies, optional	20 credits
		Mobile Computing, optional	20 credits	AR/VR Technologies, optional	20 credits
ĺ				Artificial Intelligence, optional	20 credits
ĺ	Year 2	Year 2			
			lsory 40 credits		
		Systems and Cyber Security,	20 credits	ICT Project Management in Practice,	20 credits
		compulsory		compulsory	

Placements information

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

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H. Course Modules

All options are offer 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
	Professional Practice	4	2	20	Coursework 100%
CSI-4-DSA	Data Structures and Algorithms	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-MCS	Discrete Mathematics	4	1	20	Coursework 100%
	Requirements Analysis and User-Centred Design	4	2	20	Coursework 100%
	Big Data and Database Systems	5	2	20	Coursework 60% - Exam 40%
CSI-5-OOP	Object Oriented Programming	5	1	20	Coursework 100%
CSI-5-OSY	Operating Systems	5	1	20	Coursework 60% - Exam 40%
CSI-5-SFE	Software Engineering	5	1	20	Coursework 100%
	Advanced Programming	5	2	20	Coursework 60% - Exam 40%
	Principles of Data Networks	5	2	20	Coursework 60% - Exam 40%
CSI-5-PLA	Sandwich Placement in Computer Science and Informatics	5	1&2	0	End of placement report
	AR/VR Technologies	6	2	20	Coursework 60% - Exam 40%
CSI-6-ARI	Artificial Intelligence	6	2	20	Coursework 60% - Exam 40%
CSI-6-CSP	Computer Science Project	6	1&2	40	Coursework 100%
	Data Mining and Big Data Analytics	6	1	20	Coursework 60% - Exam 40%
	ICT Project Management in Practice	6	1	20	Coursework 60%
CSI-6-MOB	Mobile Computing	6	1	20	Coursework 60% - Exam 40%
	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.

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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: 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

- 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-

List of Appendices

Appendix A: Curriculum Map

Appendix B: Educational Framework (undergraduate courses)

Appendix C: Personal Development Planning (postgraduate courses)

Appendix D: Terminology

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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.

Modules				Course outcomes														
Level	Title	Code	A1	A2	А3	Α4	B1	B2	В3	B4	C1	C2	C3	C4	D1	D2	D3	D4
L4	Fundamentals of Computer Science		ta	ta	t	t	ta	t	t	tda		ta	ta	d			ta	
L4	Discrete Mathematics		ta	t			ta	t	t				tda				ta	
L4	Professional Practice		t	t		t	ta	tda				d			ta	ta	ta	t
L4	Requirements Analysis and UCD		d	tda	td	tda	tda	tda	tda	tda	td	tda	d	da	da	tda	da	
L4	Fundamentals of Software Development		td	ta	tda		tda	tda	tda	tda	tda	td	tda	da	da		da	da
L4	Data Structures and Algorithms		td	ta	tda		tda	tda	tda	tda	tda	td	tda	d	da		da	da
L5	Mobile Applications Development		d	tda	td	tda	da	tda		d	d							
L5	Big Data and Database Systems		tda	tda	td	td	tda	d	tda	tda	td	tda	tda	da	da		d	
L5	Object-Oriented Programming		td	tda	tda	td	tda	tda	da		da	da						
L5	Software Verification and Validation		td	tda	tda	td	tda	td	tda	d	tda	tda	tda	da	da		da	da
L5	Software Engineering		tda	d	tda	td	tda	tda	tda	tda	tda	tda	d	td	tda		d	d
L5	Advanced Programming		tda	td	tda	td	tda	tda	tda	d	tda	tda	d	td	da		da	da
L5	Sandwich Placement in CSI		da	da	da	da	da	da	da	da	da	da	da	da	da	da	da	da
L6	Honours Computer Science Project		da	da	da	da	tda	tda	da	da	da	da	tda	tda	tda		tda	tda
L6	ICT Project Management in Practice		ad	da		tda	tda	tda	d	da		d	d	tda	tda	tda	tda	tda
L6	Systems and Cyber Security		tda	d	d	tda	td	tda	tda	td	d	tda	d	d				
L6	AR/VR Technologies		td	tda	tda	tda	tda	tda	tda	td	tda	tda	d	td				td
L6	Formal Approaches to Software Engineering		td	tda	tda	tda	tda	tda	tda	td	tda	tda	d	td	da		da	td
L6	Smart Internet Technologies		tda	d	d	tda	tda	tda	tda	d	tda	tda	d	td	da			td
L6	Artificial Intelligence		tda	d	tda	d	td	tda	tda		tda	tda	d	td				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 reflects our status as University of the Year for Graduate Employment awarded by *The Times and The Sunday Times Good University Guide 2018* and 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.

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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	Minimum expectations and rationale	How this is achieved in the
the		course
Educational		
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.

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High impact	Group-based learning experiences	The level 4 module Professional
pedagogies	The capacity to work effectively in	Practice incorporates team and
pedagogies	teams enhances learning through	group working exercises, with
	working with peers and develops	outputs of these activities included in the assessment. At
	student outcomes, including	
	communication, networking and respect	level 5 the module Software
	for diversity of perspectives relevant to	Engineering involves team work
	professionalism and inclusivity. At	as an integral part of its teaching
	least one module at level 4 should	and assessment. The level 6
	include an opportunity for group	module ICT Project
	working. Group-based learning can also	Management in Practice
	be linked to assessment at level 4 if	revolves around a more
	appropriate. Consideration should be	sophisticated and in-depth team-
	given to how students are allocated to	working exercise.
	groups to foster experience of diverse	
	perspectives and values.	
Inclusive	Accessible materials, resources and	All course materials and
teaching,	activities	resources will be provided in
learning and	All course materials and resources,	suitable accessible formats.
assessment	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.	
Assessment	Assessment and feedback to support	All taught modules have
for learning	attainment, progression and retention	formative assessment strategies
	Assessment is recognised as a critical	explicitly described in their
	point for at risk students as well as	descriptors.
	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 .	
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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 problemsolving. Dissemination of student research outcomes, for example via posters, presentations and reports with peer review, should also be considered.

At level 4 Professional Practice includes the development of research skills and students create a personal online portfolio of material in the course of the module. At level 5 the module Software Engineering provides students with opportunities for collaborative research activities.

Curricula informed by employer and industry need / Assessment for learning

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 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.

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 use of case studies and examples derived from current events, industry and ongoing developments in the relevant fields.

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Inclusive	Course content and teaching methods	The course team will be
	_	
teaching,	acknowledge the diversity of the student	encouraged to explore a wide
learning and	cohort	variety of teaching approaches
assessment	An inclusive curriculum incorporates	to offer all students as exciting a
	images, examples, case studies and	learning experience as possible
	other resources from a broad range of	and hopefully to allow all to find
	cultural and social views reflecting	aspects of the course that allow
	diversity of the student cohort in terms	them to make use of their
	of, for example, gender, ethnicity,	individual strengths and
	sexuality, religious belief, socio-	characters. Non-technical
	economic background etc. This	content such as examples and
	commitment to inclusivity enables	case studies shall be drawn from
	students to recognise themselves and	a global context.
	their experiences in the curriculum as	
	well as foster understanding of other	
	viewpoints and identities.	
Curricula	Work-based learning	There is an opportunity for all
informed by	Opportunities for learning that is	students to apply for short term
employer and	relevant to future employment or	internships, which are advertised
industry need	undertaken in a workplace setting are	by the VLE.
	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.	
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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, developed through coursework assignments in modules such as Software Engineering at level 5, and brought to a professional standard in the level 6 project dissertation.

High impact pedagogies

Multi-disciplinary, interdisciplinary or interprofessional group-based learning experiences

Building on experience of group working at level 4, at level 5 students should be provided with the opportunity to work and manage more complex tasks in groups that work across traditional disciplinary and professional boundaries and reflecting interprofessional workplace settings. Learning in multi- or interdisciplinary groups creates the opportunity for the development of student outcomes including **inclusivity**, communication and networking.

The level 6 taught module ICT Project Management in Practice has been designed in collaboration with the Division of Law and involves the active participation of academics and cooperation with students from a separate discipline.

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Assessment	Variation of assessment	A wide range of diverse
for learning	An inclusive approach to curriculum	assessment types is used
	recognises diversity and seeks to create	throughout the course to offer
	a learning environment that enables	students opportunities to
	equal opportunities for learning for all	effectively apply their individual
	students and does not give those with a	talents.
	particular prior qualification (e.g. A-level	
	or BTEC) an advantage or	
	disadvantage. An holistic assessment	
	strategy should provide opportunities for	
	all students to be able to demonstrate	
	achievement of learning outcomes in	
	different 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	
0	tasks across the curriculum.	TI 1 10 11 10T D : 1
Curricula	Career management skills	The level 6 module ICT Project
informed by	Courses should provide support for the development of career management	Management in Practice
employer and	skills that enable student to be familiar	provides a forum for career
industry need	with and understand relevant industries	related discussion. Reflection is
	or professions, be able to build on work-	an assessed component of many modules throughout the
	related learning opportunities,	course and is an integral
	understand the role of self-appraisal	component of the final year
	and planning for lifelong learning in career development, develop resilience	dissertation.
	and manage the career building	dissertation.
	process. This should be designed to	
	inform the development of excellence	
O comit = 1.1 =	and professionalism.	The Goal was a series of
Curricula	Capstone project/dissertation	The final year project has been
informed by	The level 6 project or dissertation is a	designed as a capstone module
employer and	critical point for the integration and	that allows students to
industry need / Assessment	synthesis of knowledge and skills from across the course. It also provides an	synthesise and apply all they have learnt in the module. The
	important transition into employment if	
for learning /	the assessment is authentic, industry-	project has been designed with
High impact pedagogies	facing or client-driven. It is	the recognition of the British Computer Society explicitly in
pedagogies	recommended that this is a capstone	mind and thus represents an
	experience, bringing together all	undertaking relevant to future
	learning across the course and creates	employment prospects (for
	the opportunity for the development of	example as something students
	student outcomes including	can describe to potential
	professionalism, integrity and	employers in depth to illustrate
	creativity.	their expertise).
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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.	Project supervisor take over personal tutoring role.
2 Supporting the development and recognition of skills in academic modules/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.			Project
5 Supporting the development and recognition of career management skills.	Professional Practice		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	Extra-curricula and capstone events
8 Supporting the development of the skills and attitudes as a basis for continuing professional development.	Professional Practice		ICT Project Management in Practice
9 Other approaches to personal development planning.			
10 The means by which self-reflection, evaluation and planned development is supported e.g. electronic or paper-based learning log or diary.	Electronic learning log in Business and Professional Issues		Project log book

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 in addition to formal individual meetings. As far as is operationally practical, students will 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. As PDP is a significant component of the project module, it will be intrinsically involved in the development of their work and in the discussions they have with their supervisors. Thus it is most appropriate for the supervisor to fulfil the PDP functions of the personal tutor role at level 6.

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

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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.		
3 Supporting the development and recognition of skills through purpose designed modules/units.	ICT Project Management in Practice	
4 Supporting the development and recognition of skills through research projects and dissertations work.	Computer Science 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.		
7 Supporting the development of skills by recognising that they can be developed through extra curricula activities.	Extra-curricula and "capstone" events .	
8 Supporting the development of the skills and attitudes as a basis for continuing professional development.	ICT Project Management in Practice	
9 Other approaches to personal development planning.		
10 The means by which self-reflection, evaluation and planned development is supported e.g. electronic or paper-based learning log or diary.	Computer Science 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.

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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

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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

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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