

Course Specification

A Course Information								
Final award title(s)	MSc Civil Engine	MSc Civil Engineering Course FT 5289 Code(s) PT 5290						
Intermediate award title(s)	PgCert Civil Eng	ineering; PgDip (Civil Engine					
Awarding Institution	London South Ba	ank University						
School		🛛 🖾 BEA 🗆 B	US 🗆 EI	NG 🗆	HSC			
Division	Civil and Building	g Services Engine	eering					
Delivery site(s) for course(s)	Southwark Other: please	D Havering Specify	ng					
Mode(s) of delivery	⊠Full-time	⊠Part-time	Both					
Length of course								
	Mode	Length years	Start - m		Fin	ish - month		
	Full-time - Jan1Januastart (5289)					May		
	Part time - Jan start (5290)	2	Janua	ary		Мау		
Is this course generally suitable	Please complete the	International Office	questionnaire	9				
for students on a Tier 4 visa?	Yes	No 🗸						
	Students are advised the visa but other factors w	hat the structure/nature vill be taken into accour						
Approval dates:	Course(s) valida	ted		mber 20 lidated N		2021)		
	Course specifica and signed off	•						
Professional, Statutory & Regulatory Body accreditation	 Joint Board of Moderators (on behalf of the Engineering Council), representing; The Institution of Civil Engineers The Institution of Structural Engineers The Chartered Institution of Highways and Transportation The Institute of Highway Engineers The Permanent Way Institution 							
Defenence neinte	Accredited to 202	24 intake						
Reference points:	Internal	- LSBU Mission S - LSBU Core Skil - LSBU Academi	ls Policy;		egic I	Plan;		

External	 Engineering Council, Accreditation of Higher Education Programmes (Third Edition 2014); Joint Board of Moderators Guidelines for Developing Degree Programmes, January 2018 (Version 1 – Revision 2)
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В	Course Aims, Features and Outcomes
Distinctive features of course	 This is a broad-based civil engineering course covering the areas of structures, geotechnics, water engineering, transportation and conservation. The technical modules of the course aim to develop the understanding and application of advanced theoretical contents of the specialist subject. Structural topics are taught in the two modules of Finite Elements and Stress Analysis, and Advanced Structural Design. The interaction of geotechnics and structures is covered in the Soil-Structure Engineering module. The Water Engineering module looks into the water engineering aspects. The transportation field is studied in the Highway Engineering and Operations module and the Railway Engineering and Asset Management module. Students will be required to complete an individual project in a specific area of the course studied, providing them with the opportunity of pursuing a course of independent study. The work is to be of an investigative nature having an experimental, analytical, computer-based or fieldwork input.
Course Aims	 The MSc Civil Engineering course aims to: Produce graduates who are committed to a career in civil engineering with a range of employers. Produce graduates equipped to take up professional employment in the construction industry and become lifelong learners with an appreciation of the value to society of an education in civil engineering. Produce graduates who have knowhow and understanding of the key aspects of civil engineering. Allow graduates to acquire and develop problem-solving skills, and subject-specific skills. Develop graduates who bring practical solutions to design problems and who have the technical skills to see their ideas through to realisation. Provide an opportunity to those in full-time employment to study towards a degree in civil engineering on a part-time basis. Create a unique educational environment that seeks to benefit from the practical experience of mature and part-time students. Provide an engineering education centred within the built environment that recognises the important roles of other professions in the development of the built environment and cultivates interaction and teamwork with these other professionals. Provide graduates with the necessary further learning which will provide the full educational base for a Chartered Engineer.
Course Outcomes	The course outcomes have been developed with reference to the JBM guidelines and Engineering Council's Accreditation of Higher Engineering Programmes document, Third Edition (2014). The number and letter in

brackets e.g. (SM2m) refer to the Learning Outcomes described in
Engineering Council Documentation (Appendix C).
The curriculum map showing the modules in which the material that each of the learning outcomes covers is taught, developed and assessed is in Appendix A.
a) Students will have knowledge and understanding of:
A1: Scientific principles and methodology necessary to underpin their education in their engineering discipline, and an understanding and know-how of the scientific principles of related disciplines, to enable appreciation of the scientific and engineering context, and to support their understanding of relevant historical, current and future developments and technologies. (SM1m)
A2: Mathematical and statistical methods necessary to underpin their education in their engineering discipline and to enable them to apply a range of mathematical and statistical methods, tools and notations proficiently and critically in the analysis and solution of engineering problems. (SM2m)
Ability to apply and integrate knowledge and understanding of other engineering disciplines to support study of their own engineering discipline and the ability to evaluate them critically and to apply them effectively. (SM3m)
A3: Understanding the need for a high level of professional and ethical conduct in engineering and knowledge of professional codes of conduct. (EL1m)
A4: Knowledge and understanding of the commercial, economic and social context of engineering processes. (EL2)
A5: Knowledge of management techniques, including project and change management, that may be used to achieve engineering objectives, their limitations and how they may be applied appropriately. (EL3m)
A6: Understanding of the requirement for engineering activities to promote sustainable development and ability to apply quantitative techniques where appropriate (EL4m)
A7: Awareness of relevant legal requirements governing engineering activities, including personnel, health & safety, contracts, intellectual property rights, product safety and liability issues, and an awareness that these may differ internationally. (EL5m)
 A8: Knowledge and understanding of risk issues, including health & safety, environmental and commercial risk, risk assessment and risk management techniques and an ability to evaluate commercial risk. (EL6m)
b) Students will develop their intellectual skills such as:
B1: Understanding of engineering principles and the ability to apply them to undertake critical analysis of key engineering processes. (EA1m)

B2: Ability to identify, classify and describe the performance of systems and components through the use of analytical methods and modelling
techniques. (EA2)
B3 Ability to apply quantitative and computational methods, using
alternative approaches and understand their limitations, in order to
solve engineering problems and to implement appropriate action.
(EA3m)
B4: Understanding of, and the ability to apply, an integrated or systems
approach to solving engineering problems. (EA4) B5: Understand and evaluate business, customer and user needs,
including considerations such as the wider engineering context, public
perception and aesthetics. (D1)
B6: Investigate and define the problem, identifying any constraints including
environmental and sustainability limitations; ethical, health, safety,
security and risk issues; intellectual property; codes of practice and
standards. (D2)
B7: Work with information that may be incomplete or uncertain, quantify the effect of this on the design and where appropriate, use theory or
experimental research to mitigate deficiencies. (D3m)
B8: Apply advanced problem-solving skills, technical knowledge and
understanding, to establish rigorous and creative solutions that are fit
for purpose for all aspects of the problem including production,
operation, maintenance and disposal. (D4)
B9: Plan and manage the design process, including cost drivers, and evaluate outcomes. (D5)
B10: Communicate their work to technical and non-technical audiences.
(D6)
c) Students will acquire and develop practical skills such that they are able to:
C1: Understanding of contexts in which engineering knowledge can be
applied (for example operations and management, application and
development of technology, etc.). (P1)
C2: Knowledge of characteristics of particular equipment, processes or
products, with extensive knowledge and understanding of a wide range of engineering materials and components. (P2m)
C3: Ability to apply relevant practical and laboratory skills. (P3)
C4: Understanding the use of technical literature and other information
sources. (P4)
C5: Knowledge of relevant legal and contractual issues. (P5); and
nderstanding of appropriate codes of practice and industry standards.
(P6) C6: Awareness of quality issues and their application to continuous
improvement. (P7); Ability to work with technical uncertainty. (P8)
C7: Understanding of different roles within an engineering team and the
ability to exercise initiative and personal responsibility, which may be as
a team member or leader. (P11m).

		d) Students will acquire and develop transferable skills such that they are able to:						
		 D1: Apply their skills in problem-solving, communication, information retrieval, working with others and the effective use of general IT facilities. (G1) D2: Plan self-learning and improve performance, as the foundation for lifelong learning/CPD. (G2) D3: Monitor and adjust a personal programme of work on an on-going basis (G3m) 						
		D4: Exercise initiative and personal responsibility, which may be as a team member or leader. (G4)						
	C	Teaching and Learning Strategy						
Α	A Knowledge and understanding Through a combination of lectures, seminars, tutorials, practical classes, coursework, design, computer sessions, project work and self-study. Throughout the course students have module guides relevant to each topic of study, giving additional reading material, which students are encouraged to use for private study to consolidate the formal learning process, and both broaden and deepen their knowledge and understanding in the subject area.							
В	Intellectual skills Intellectual skills are developed throughout the course of teaching and learning. Analysis and problem-solving skills are further developed through regular tutorial sheets and design-based exercises. Experimental, research and design skills are further developed through coursework exercises, laboratory, research and design projects.							
С	Practical Skills Practical skills are developed through the teaching and learning course. Experimental skills are developed through laboratory experiments and project work.							
D	Transferrable Skills Transferrable skills are developed through a combination of coursework, presentations, provision of module guides, setting coursework deadlines, laboratory experiments, project work, design work and individual learning.							

D	Assessments
U	Assessments

A Knowledge and understanding

Testing of the knowledge base is through a combination of unseen written examinations, closed book tests, essays, oral presentations, design exercises, laboratory reports, poster displays and individual projects.

B Intellectual skills

Analysis and problem-solving skills are assessed through unseen written examinations and class tests. Experimental, research and design skills are assessed through laboratory reports, coursework exercises, project reports, poster displays and oral presentations.

C Practical Skills

Through a mixture of coursework exercises, laboratory reports, presentations, oral examinations, unseen written examinations, computer-based projects, and individual investigative-based projects.

D Transferrable Skills

Transferrable skills are assessed through a mixture of coursework exercises, laboratory reports, presentations, oral examinations, unseen written examinations, computer-based projects, and individual investigative-based projects.

E Academic Regulations

The University's Academic Regulations apply for this course. Any course specific protocols will be identified here.

http://www.lsbu.ac.uk/__data/assets/pdf_file/0008/84347/academic-regulations.pdf

The lowest mark in an Assessment that can be compensated is 40%.

F Entry Requirements

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

- An undergraduate Civil Engineering degree with a minimum of a BEng (Hons) Lower Second (2.2) classification, or equivalent; or
- An undergraduate Civil Engineering or Architectural Engineering degree with a minimum of a BSc (Hons) Upper Second (2.1) classification, or equivalent; or
- Applicants with appropriate relevant professional experience deemed to be equivalent to a first degree will also be considered.

For applicants whose first language is not English, an IELTS score of 6.5 or equivalent is required.

G Course Structure

The Course is run on Thursdays and Fridays. Part-time students initially attend one day a week on Thursdays in their first year; in their second year, they attend one day a week on Fridays.

Module Title	Module Code	Semester	Assessment	Weighting CW/EX	Mode / Day / Time
Soil-Structure Engineering	BEA/7/499	2	CW/EX	30/70	FT & PT1, Thurs am
Railway Engineering and Asset Management	BEA/7/481	2	CW/EX	50/50	FT & PT1, Thurs pm
Highway Engineering and Operations	BEA/7/480	2	CW/EX	50/50	FT & PT2, Friday am
Advanced Structural Design	BEA/7/449	1	CW/EX	30/70	FT & PT1, Thurs am
Finite Elements and Stress Analysis	BEA/7/494	1	CW/EX	50/50	FT & PT1, Thurs pm
Water Engineering	BEA/7/495	1	CW/EX	30/70	FT & PT2, Friday am

Project (three mo	lules value) BEA/7/497 1,2 Dissertation 100 CW FT & PT2, Fri				FT & PT2, Friday pm			
CW/EX: Coursework / Examination								
		H (Course	Modules				
Module Code	Ile Code Module Title				Credit valu	e Assessment CW / EX		
BEA/7/499	Soil-Structure En	gineering		2	20	30/70		
BEA/7/481	Railway Enginee	ring and Asset Manag	gement	2	20	50/50		
BEA/7/480	Highway Engine	ering and Operations		2	20	50/50		
BEA/7/449	Advanced Struct	ural Design		1	20	30/70		
BEA/7/494	Finite Elements and Stress Analysis			1	20	50/50		
BEA/7/495	Water Engineering			1	20	30/70		
BEA/7/497	Project (three modules value)			1/2	60	100 dissertation		

J Costs and financial Support

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

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Module			CA: Currie Engii	neering Co	-	earning O	utcomes	s / Course	e Outcor	nes		
		SM1m	SM2m	EL1m	EL2	EL3m	EL4	EL5m	EL6m			
Title	Code	A1	A2	A3	A4	A5	A6	A7	A8			
Advanced Structural Design	BEA/7/449	TD	DA	TDA	DA		D	TDA				
Finite Elements and Stress Analysis	BEA/7/494	TDA	TD									
Water Engineering	BEA/7/495	TD	TD		D		TDA	D				
Soil-Structure Engineering	BEA/7/499		TD			TDA	D					
Railway Engineering and Asset Management	BEA/7/481	TD		TD	DA	DA	D	D				
Highway Engineering and Operations	BEA/7/480		D	D	D	D	D	TD	DA			
Project (three modules value)	BEA/7/497	D	D									
					1				T	r	1	
		EA1m	EA2	EA3m	EA4	D1	D2	D3m	D4	D5	D6	
Title	Code	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	
Advanced Structural Design	BEA/7/449	TD	D	D	D	DA		D	TD	DA	D	
Finite Elements and Stress Analysis	BEA/7/494	TDA	TDA	TD	D			D	DA		D	
Water Engineering	BEA/7/495	TD	TD	TD	D		TDA		TD		D	
Soil-Structure Engineering	BEA/7/499	TDA	D	D				D	TD		D	
Railway Engineering and Asset Management	BEA/7/481			DA	D	D	D	D	D	D		
Highway Engineering and Operations	BEA/7/480	TD	D	TD	DA	TD	Т	TDA	D		D	
Project (three modules value)	BEA/7/497	DA		DA			D	D	D		DA	
				1	1	1	1		T		[
		P1	P2m	Р3	P4	Р5	P6	P7+ P11m	G1	G2	G3	G4
Title	Code	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4
Advanced Structural Design	BEA/7/449	DA	TDA		DA		TD	D	TDA			D
Finite Elements and Stress Analysis BEA/7/494			TDA	DA					TD			
Water Engineering	BEA/7/495	D	D	TD	D	D	TD		TD			D
Soil-Structure Engineering BEA/7/499		D		DA	D		D	D	TD			D
Railway Engineering and Asset Management	BEA/7/481	TD	TD	TDA		TD	TD		DA			
Highway Engineering and Operations	BEA/7/480	TD	D	D		D	D	D	TDA			
Project (three modules value)	BEA/7/497	DA	D	DA	TD	D			D	DA	DA	DA

Appendix A: Curriculum Map

T: taught, D: developed; A: assessed

Appendix B: Personal Development Planning

2	Supporting the development and recognition of skills through the personal tutor system.	The Course Director is the personal tutor of all the students (full- time and part-time). This is brought to the attention of all students at induction and regularly during the year. Each student will be offered a 15 minutes interview with the Personal Tutor, once in each of the two semesters; items discussed will be noted in the students' PDP diary. All modules are structured so that the combination of courseworks introduce and develop the technical skills at the post-graduate level in the fields of experimentation, hands-on computer modelling, design exercises, critical analysis, analysis methodologies, data interpretation and verification, research methodologies. Assessed coursework, in stages, provide the feedback for the
		consolidation and improvement of these academic skills.
3	Supporting the development and recognition of skills through purpose designed modules.	The modules have been designed to support the development of skills in civil and structural engineering.
4	Supporting the development and recognition of skills through research projects and dissertation works.	Students will develop research skills in a variety of the modules, but in particular in the project module.
5	Supporting the development and recognition of career management skills.	An academic staff, who is the Liaison Officer for the Institution of Civil Engineers briefs the students on the benefits of the student membership of the institution.
		The London Branch of the Institution of Civil Engineers visits the students on site and briefs them about the activities and the benefits of the membership of the local activities, and routes to Chartership.
		Similar links through academic staff will be formed with other relevant professional bodies including the Chartered Institute of Highways and Transportation, the Institution of Highway Engineers, and the Institution of Structural Engineers. Students are encouraged to use the LSBU Careers Office for CV preparation, interview skills, job vacancies.
6	Supporting the development and recognition of skills through work placements or work experience.	Not applicable.
7	Supporting the development of skills by recognising that they can be developed through extracurricular activities.	Field trips and site visits are organised by members of the teaching team throughout the academic year.
8	Supporting the development of the skills and attitudes as a basis for continuing professional development.	Notices of lectures and presentations at the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institute of Highways and Transportation and the Institution of Highway Engineers are brought to the students' attention.
9	Other approaches to personal development planning.	Not applicable.
10	The means by which self-reflection, evaluation and planned development are supported, e.g. electronic or paper-	Weekly meetings for the Project between the student and the supervisor. Written and/or verbal feedback on assessed coursework.
	based learning log or diary.	

Appendix C: Learning Outcomes Correlation between JBM and LSBU codes on Learning Outcomes

	JBM G	Guidelines January 2018	Course Outcomes LSB	U	
hematics	SM1m	Knowledge and understanding of so necessary to underpin their education enable appreciation of its scientific a support their understanding of releve developments and technologies	on in their engineering discipline, to and engineering context, and to rant historical, current and future	A1	and ding
Science and Mathematics (SM)	SM2m	Knowledge and understanding of m necessary to underpin their education and to enable them to apply mather tools and notations proficiently in the engineering problems	on in their engineering discipline natical and statistical methods, e analysis and solution of	A2	Knowledge and Understanding
Scie	SM6m	Ability to apply and integrate knowle engineering disciplines to support the discipline	ne study of their own engineering		
-	EA1m	Understanding of engineering princi to undertake critical analysis of key		B1	
ring and is (EA)	EA2	Ability to identify, classify and descr and components through the use of techniques	ibe the performance of systems	B2	
Engineering and Analysis (EA)	EA3m	Ability to apply quantitative and com alternative approaches and underst solve engineering problems and to	anding their limitations, in order to implement appropriate action.	B3	
	EA4	Understanding of, and the ability to approach to solving engineering pro		B4	
	D1	Understand and evaluate the busine including considerations such as the perception and aesthetics		B5	al Skills
Ô	D2	Investigate and define the problem, including environmental and sustair safety, security and risk issues; inte and standards	nability limitations; ethical, health,	B6	Intellectual Skills
Design (D)	D3m	Work with information that may be i quantify the effect of this on the des		B7	
Desi	D4	Apply advanced problem-solving sk understanding, to establish rigorous for purpose for all aspects of the pro operation, maintenance and dispose	and creative solutions that are fit oblem including production,	B8	
	D5	Plan and manage the design proces evaluate outcomes	ss, including cost drivers, and	B9	
	D6	Communicate their work to technica	al and non-technical audiences	B10	

JBM Guidelines January 2018 Course Outcomes LSBU						
and	EL1m	Understanding the need for a high level of professional and ethical conduct in engineering and a knowledge of professional codes of conduct and how ethical dilemmas can arise.		ß		
hical (EL)	EL2	Knowledge and understanding of the commercial economic and		A4	andin	
Economic, legal, social, ethical and environmental context (EL)	EL3m	objectives, their limitations, and how they can arise.		A5	Knowledge and Understanding	
legal, so mental	EL4	Understanding of the requirement for engineering activities to promote sustainable development and ability to apply quantitative techniques where appropriate		A6	ge and I	
nomic, l environ	EL5m	Awareness of relevant legal requirements governing engineering		A7	nowledę	
Eco	EL6m	Knowledge and understanding of risk issues, including health & safety, environmental and commercial risk, and risk assessment and risk management techniques and an		A8	Å	
	P1	Understanding of contexts in which applied (for example operations an development of technology, etc.)		C1		
(a)	P2m	Knowledge of characteristics of par products, with extensive knowledge range of engineering materials and	e and understanding of a wide	C2		
ice	P3	Ability to apply relevant practical and laboratory skills		C3	<u>ى</u>	
pract	P4	Understanding the use of technical literature and other information sources		C4	Practical Skills	
bu	P5	Knowledge of relevant legal and contractual issues		C5	ica	
Engineering practice (P)	P6	Understanding of appropriate code standards		C5	Pract	
Engir	P7	Awareness of quality issues and th improvement	eir application to continuous	C6		
	P8	Ability to work with technical uncert	ainty	C7		
	P11m	Understanding of different roles wit ability to exercise initiative and pers as a team member of leader.	0 0	C7		
Additional general skills (G)	G1	Apply their skills in problem-solving retrieval, working with others and the facilities		D1	Skills	
	G2	Plan self-learning and improve perl lifelong learning/CPD	formance, as the foundation for	D2	able	
	G3m	Monitor and adjust a personal prog basis	ramme of work on a on-going	D3	Transferable Skills	
Ad	G4	Exercise initiative and personal res team member or leader	ponsibility, which may be as a	D4	Trê	

Appendix D: Educational Framework

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	Outcomes focus and professional/employer	The curriculum design is informed
informed by	links	by the JBM and the Industrial
employer and	All LSBU courses will evidence the	Advisory Panel at LSBU. Teaching
industry need	involvement of external stakeholders in the	staff on the course are LSBU staff.
	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.	
Embedded	Support for transition and academic	Most taught modules involve
learning	preparedness	analysis of a civil / structural
development	There should be some embedded learning	engineering system, a coursework
	development in the curriculum to support	encouraging independent analysis
	student understanding of, and familiarity	of such a system and finally
	with, disciplinary ways of thinking and	delivery of a report as part of the coursework.
	practising (e.g. analytical thinking, academic writing, critical reading, reflection). Where	Coursework.
	possible, learning development will be	
	normally integrated into content modules	
	rather than as standalone modules.	
High impact	Group-based learning experiences	Group work is introduced in tutorial
pedagogies	The capacity to work effectively in teams	sessions and in some coursework
pouugogioo	enhances learning through working with	activities.
	peers and develops student outcomes,	
	including communication, networking and	
	respect for diversity of perspectives relevant	
	to professionalism and inclusivity.	
	Consideration should be given to how	
	students are allocated to groups to foster	
	experience of diverse perspectives and	
	values.	
Inclusive	Accessible materials, resources and	Students work in diverse groups in
teaching,	<u>activities</u>	labs and project and field trips.
learning and	All course materials and resources,	Inclusion is guaranteed with the mix
assessment	including course guides, PowerPoint	of different cohorts during the
	presentations, handouts and Moodle should	lectures
	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 for	Assessment and feedback to support	Tutorial sessions are used to aid
learning	attainment, progression and retention	student learning and some modules
	Assessment is recognised as a critical point	feature formative assessments.
	for at risk students as well as integral to the	
	learning of all students. Formative feedback	
	is very helpful upon commencing study at	
	the University. Assessment and feedback	
	communicates high expectations and develops a commitment to excellence .	
High impact	Research and enquiry experiences	The learners undertake their
pedagogies	Opportunities for students to undertake	individual research project at the
	small-scale independent enquiry enable	end of the degree; they are
	students to understand how knowledge is	prepared for this via weekly
	generated and tested in the discipline as	research seminars.
	well as prepare them to engage in enquiry	
	as a highly sought after outcome of	
	university study. 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.	
Curricula	Authentic learning and assessment tasks	Many coursework briefs are based
informed by	Live briefs, projects or equivalent authentic	on real-life design scenarios or
employer and	workplace learning experiences and/or	engineering situations. A number of
industry need / Assessment for	assessments enable students, for example, to engage with external clients, develop their	students choose to study research topics suggested by their
learning	understanding through situated and	employers or in conjunction with
loanning	experiential learning in real or simulated	external industrial partners.
	workplace contexts and deliver outputs to an	external maderial partitole.
	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.	
Inclusive	Course content and teaching methods	This diversity is guaranteed with a
teaching,	acknowledge the diversity of the student	successful mix of full-time and part-
learning and	<u>cohort</u>	time students where the lecturers
assessment	An inclusive curriculum incorporates images,	encourage the learners to share
	examples, case studies and other resources	their knowledge.
	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	

other viewpoints and identities. As noted above some students on thormed by Curricula informed by 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. As noted above some students on the course are part-time and workplace setting are fundamental to developing student applied knowledge as well as developing work-relevant student outcomes such as networking. As noted above some students on the course are part-time and workplace setting are fundamental to developing work-relevant student earning 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. Student writing skills are taught and assessed in all modules. These skills are needed to produce the lab reports, field trip reports and group project report, the fautres of disciplines thinking and practices, finding opportunities to scaffold student attempts to adopt these ways of thinking and practise in 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.		curriculum as well as foster understanding of	
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High impact Multi-disciplinary interdisciplinary or Group project work a diverse range		exhibition guide.	
	High impact	Multi-disciplinary, interdisciplinary or	Group project work, a diverse range
pedagogies <u>interprofessional group-based learning</u> of engineering topics and a	• .		
experiences dedicated individual research	,	· · · · ·	
Students should be provided with the project aids multidisciplinary			
opportunity to work and manage more learning.			
complex tasks in groups that work across			
traditional disciplinary and professional			
boundaries and reflecting interprofessional			
work-place settings. Learning in multi- or		- .	
interdisciplinary groups creates the			
opportunity for the development of student			
outcomes including inclusivity ,			
communication and networking.	1		

Assessment for	Variation of assessment	There are a range of assessments
		-
learning	An inclusive approach to curriculum	on the course including as follows: Examinations and in class tests.
	recognises diversity and seeks to create a	
	learning environment that enables equal	Laboratory Reports.
	opportunities for learning for all students and	Presentations.
	does not give those with a particular prior	Group tutorials.
	qualification an advantage or disadvantage.	Computer-based design work.
	A 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 tasks across the	
	curriculum.	
Curricula	Career management skills	As noted above the course is
informed by	Courses should provide support for the	informed by the JBM and the
employer and	development of career management skills	Industrial Advisory Panel at LSBU.
industry need	that enable student to be familiar with and understand relevant industries or	
	professions, be able to build on work-related	
	learning opportunities, understand the role	
	of self-appraisal and planning for lifelong	
	learning in career development, develop	
	resilience and manage the career building	
	process. This should be designed to inform	
	the development of excellence and	
Curricula	professionalism. Capstone project/dissertation	As per the Research Project
informed by	The research dissertation is a critical point	module.
employer and	for the integration and synthesis of	
industry need /	knowledge and skills from across the	
Assessment for	course. It also provides an important	
	transition into employment if the assessment	
learning / High impact	is authentic, industry-facing or client-driven.	
	It is recommended that this is a capstone	
pedagogies	•	
	experience, bringing together all learning across the course and creates the	
	opportunity for the development of student	
	outcomes including professionalism ,	
	integrity and creativity.	

Appendix E: 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

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

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