



Programme Specification						
Save		Show Guidance				
General Information						
Title		MEng in Civil Engineering				
Awarding Institution		University of Bath				
Teaching Institution		University of Bath				
Programme Accredited by		Joint Board of Moderators (2010)				
Collaborative Provision Type		Not Applicable <input type="checkbox"/>				
Placement Available?		Yes <input type="checkbox"/>				
Study Abroad Available?		Yes <input type="checkbox"/>				
Subject Benchmark Statement(s) Click here to see 'QAA List'		Engineering: http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/Engineering10.pdf				
Programme Approved by		Senate minute 11741, 22 October 2003				
Aims	Learning Outcomes	Assessment	Placement/Prof Acc	Admissions/Support	Show All	Close
Aims; "What is the purpose of this programme of study? What is the programme intended to achieve?"						
Synopsis and Coherence		<p>The programmes are designed to provide a suitable educational base for a career as a chartered civil or structural engineer. Emphasis is placed on fundamental engineering skills, including creative problem solving. Design project work is used in all years of the course to consolidate some of the material taught in lectures, and clarify its application. Students engage in substantial industry sponsored project work in the second semester of third year, giving the students opportunity to experience the application of the course material to design practice; the experience also acts as a significant motivator. Projects comprise interdisciplinary group projects, and individual detailed design projects. Students also carry out individual research projects. A year long industrial placement is undertaken at the end of the second year of study for students on the thick sandwich course. The MEng programmes in the department provide students with additional option courses, allowing them to take particular subjects to a more advanced level compared with the BEng. All MEng students carry out substantially more design work, and take engineering mathematics to a more advanced level.</p>				
Educational Aims of the Programme		<p>The overall aim of the MEng programme is to provide an education which will enable graduates to proceed to the highest levels of civil/structural engineering design, with a particular emphasis on structural, geotechnical, and construction aspects, and a creative and holistic approach to design. The programme meets this aim through:</p> <ul style="list-style-type: none"> • providing an education in civil engineering with a challenging and stimulating curriculum, which encourages students to innovate and think creatively; • providing a curriculum founded on sound engineering science and technology to cover all core requirements in civil engineering, and with additional continuous threads in design, management and professional studies which emphasise the responsibilities of the engineer to society and the environment; • delivering an enhanced knowledge of continuum mechanics and structural engineering theory, analysis and design; • extending and enhancing the education in civil and structural engineering design through both interdisciplinary and individual work on substantial projects; • cultivating an awareness of civil and architectural design practice and developing skill in structural design through both interdisciplinary and individual design projects, which provide a continuous thread throughout the course and encourage creative team work and communication skills; • providing a period of industrially related project work in the second semester of year 3, which reinforces the vocational nature of the programme. 				
Learning Outcomes; including teaching, learning and assessment methods, specifying those applicable for interim awards where appropriate. Indicate what successful students should be able to do, how well they should be able to do it and the context or conditions in which they should be able to do it. See also FHEQ and SEEC guidance.						
Knowledge and Understanding						

	<p>Graduates should be able to demonstrate a core and breadth of knowledge appropriate to the needs of a graduate engineer aiming for chartered status. Graduates should also be able to demonstrate an enhanced and extended knowledge and understanding. Extensive information is available from the Joint Board of Moderators, which accredits civil engineering degree programmes. A range of lecture and tutorial styles are used as appropriate, together with laboratory and project work. Assessment is through problem solving, design projects, practical work, essays, reports, oral and drawn presentations, and formal examination.</p>
Intellectual Skills	<p>Graduates should be able to analyse a civil or structural engineering problem to identify its characteristics, and determine appropriate means for its solution, using the knowledge they have gained and the methods they have learned. They should be able to respond in an imaginative and creative way to loosely defined problems.</p> <p>Basic abilities are taught through traditional lecture courses, tutorials, and research type project work; the higher intellectual skills referred to are developed through design project work. Assessment is through problem solving, design projects, practical work, essays, reports, oral and drawn presentations, and formal examination.</p>
Professional Practice Skills	<p>In addition to those skills described above, students acquire practical skills in drawing, surveying, CAD, the use of analytical computer software, and computer programming.</p> <p>These are developed through practical sessions and tutorials, and self-directed learning. Assessment is through problem solving, design projects, practical work, essays, reports, oral and drawn presentations, and formal examination.</p>
Transferable/Key Skills	<p>Students develop skills in use of general purpose computer software, in giving oral presentations, preparing written reports, analytical problem solving, mathematics, and a range of other skills which are intrinsic to the requirements for education towards chartered engineer status, and eminently transferable.</p> <p>Assessment is through problem solving, design projects, practical work, essays, reports, oral and drawn presentations, and formal examination.</p>
Assessment Methods	
Summary of Assessment Regulations	NFA - fully compliant <input checked="" type="checkbox"/>
Progression Regulations and Awards	<p>The rules for progression from one stage to another and grading of assessed work and examinations conform to the University's framework for assessment and assessment regulations (NFAAR), see http://www.bath.ac.uk/registry/nfa/nfaar-ug.pdf</p> <p>The following exemptions have been granted from the NFAAR framework for this programme:</p> <ul style="list-style-type: none"> NFAAR-UG weightings of 0:16:34:50 are replaced with 0:20:40:40 for Stages 1,2,3 and 4, as described in the programme description; In the penultimate year of the programme a maximum of 12 compensatory credits may be awarded so that the BEng accreditation requirements will be met before progressing into the final year of the MEng; A student who has passed (P1 or P2) fewer than 48 credits in Part 3 will be transferred to the appropriate Designated Alternative Programme (DAP) in accordance with the DAP regulations.
<p><i>For programmes fully compliant with NFA refer to the relevant appendices of the relevant NFAAR document (UG, PGI, FD, HY, or CPD)</i></p> <p><i>Note any significant features relevant to the "Assessment in the programme context" sections of the relevant NFAAR document.</i></p> <p><i>Set out any approved exemptions from NFA.</i></p> <p><i>Set out progression and assessment regulations where these do not comply with NFA.</i></p>	
<p>Students leaving an undergraduate programme prematurely may be eligible for a Certificate of Higher Education or a Diploma of Higher Education.</p> <p>Click here to see 'Indicators of Quality & Standards'</p>	
Placement and Professional Accreditation	
Details of Work Placements Requirements / Work Based Learning / Industrial Training Requirements	<p>A work placement takes place in the third year for students registered on the thick sandwich programme. Students will usually work from after the end of second semester in second year through to the end of the summer prior to fourth year, although the formal placement is restricted to the period during the academic semesters. Students are responsible for arranging their own placements through the faculty Placements Office. Tuition is given to assist in the preparation of CVs and covering letters, and the Placements Office makes a great deal of information available relating to previous and prospective placement employers. The model offered for the placement report is the Personal Development Report, which forms part of graduate training practice. Experience gained on placement can count towards the experience required to achieve chartered status. Students are normally visited on placement by a member of academic staff, when safety will be discussed in addition to the general experience being gained. The visitor will have discussions with both student and supervisor, to ensure that both parties are making the most of the opportunities available. Students on placement overseas will only be visited if a member of staff is travelling to somewhere reasonably close, but the student is responsible for maintaining contact with a named tutor, who will oversee the placement.</p>

<p>Details of Study Abroad Requirements</p>	<p>Students may be able to study abroad for one semester as described in the Programme Description. This can only be at an approved partner institution and a list of current partner institutions can be obtained from the Study Abroad Coordinator. Normally only students with an overall programme average (OPA) of at least 65% are allowed to attend a partner institution as part of the study abroad programme. As there may be insufficient places available, the Director of Studies and Study Abroad Coordinator in consultation with colleagues at partner institutions will be responsible for approving any outgoing study abroad applications.</p>
<p>Details of Professional Accreditation</p>	
<p>Admissions and Support</p>	
<p>Admissions Criteria including APL/APEL arrangements</p> <p><i>Only refer to APL, APEL or direct entry with advanced standing if regular use is likely to be made or is not possible.</i></p>	<p>A*AA or AAAA at A-Level or equivalent, with at least an A or equivalent in Mathematics.</p> <p>General entrance requirements of the University of Bath, including for proficiency in English language, apply to this programme.</p> <p>Admissions Criteria can be found by following the link below:</p> <p>http://www.bath.ac.uk/study/ug/prospectus/subject/civil-architectural-engineering/entry-requirements/</p>
<p>Details of Support Available to Students</p> <p>[link to Ac Reg quality page]</p>	<p>University of Bath students attending programmes of study at the Claverton Campus are usually encouraged to stay in University halls of residence during their first year and will be supported in their transition into University life and study by Resident Tutors. These are postgraduate students or staff who live in the halls of residence and are responsible for the general welfare, health and safety and discipline of student residents.</p> <p>All taught students will be allocated a Personal Tutor and postgraduate research students a supervisor who are responsible for monitoring and supporting the academic progress and general welfare of their students.</p> <p>Staff in these roles will be able to respond to many of the questions and concerns raised by their students. However, there is also a range of specialist student support services that will offer both information and advice to support these staff working with their students, as well as take referrals to work more directly with the students. Students can also self-refer to these services.</p> <p>These services can provide information, advice and support in relation to accommodation, emotional difficulties, assessment of needs and provision of support relating to disability, student funding, general welfare, academic problems, student discipline and complaints, careers, international students, spiritual matters, part time work, security and personal safety. The Students' Union can also provide advocacy for students. More information about these services can be accessed via: http://www.bath.ac.uk/students/support/.</p> <p>There are also Medical and Dental Centres, and a Chaplaincy on campus that are very experienced in meeting the needs of a student population, as well as a University nursery and vacation play scheme to provide childcare for older children during the school holidays.</p>
<p>Department and Programme Specific Support Information</p> <p><i>e.g. induction programmes, any peer mentoring schemes, regular department events</i></p>	<p>Additional information about the Department is available at the Department's webpage:</p> <p>http://www.bath.ac.uk/ace/</p>



MEng(Hons) Civil Engineering - Being delivered 2017/2018
UEAR-AFM07

+

NFAAR Version	UG <input type="checkbox"/>
Length	4 Years
Mode of Attendance	Full-time
Mode of Placement	None
Type of Placement	None
Intended Award	Master of Engineering with Honours
Award Title	MASTER OF ENGINEERING IN CIVIL ENGINEERING
For UG Masters Type Programmes this is	Y
Exit Awards	UEAR-AFC07 Certificate of Higher Education UEAR-AFL07 Diploma of Higher Education
Exit Award Rules	
Designated Alternative Programmes	UEAR-AFB07 BEng (hons) Civil Engineering

Assessment weightings and decision references		
Stage	Weighting within programme %	NFAAR decisions reference
Stage 1	<input type="text" value="0"/>	http://www.bath.ac.uk/registry/nfa/index.htm
Stage 2	<input type="text" value="20"/>	
Stage 3	<input type="text" value="40"/>	
Stage 4	<input type="text" value="40"/>	Additional information for Year 4: It may be possible for students to take AR40430 (Study abroad) in place of the S1 units listed here, subject to the approval of the Director of Studies.
Stage 5	<input type="text"/>	
Stage 6	<input type="text"/>	

Unit	Unit Title	Credits	Period	Part	Stage	DEU	SRU	TSC or DPC	Placement Status
Year of Study : 1 (10)									
Unit Status : Compulsory Unit (10)									
AR10003	Building environment 1	6	Semester 1	1	1				
AR10033	Geology	6	Semester 1	1	1				
AR10040	History & theory 1.1: vernacular architecture	6	Semester 1	1	1				
AR10244	Design studio 1.1	6	Semester 1	1	1				
AR10369	Structures 1A	6	Semester 1	1	1	Yes			
AR10366	Computer applications	6	Semester 2	1	1				
AR10367	Mathematics 1	6	Semester 2	1	1				
AR10368	Surveying	6	Semester 2	1	1				
AR10426	Materials science 1	6	Semester 2	1	1				
AR10370	Structures 1B	6	Semester 2	1	1	Yes			
Year of Study : 2 (10)									
Unit Status : Compulsory Unit (10)									
AR20318	Civil engineering management 1	6	Semester 1	2	2				
AR20386	Mathematics 2	6	Semester 1	2	2				
AR20389	Structures 2	6	Semester 1	2	2				
AR20390	Surveying and geology field course	3	Semester 1	2	2				
AR20076	Soil mechanics	6	Semester 1	2	2	Yes			
AR20385	Civil engineering hydraulics 1	6	Semester 1	2	2	Yes			
AR20004	Building environment 2	6	Semester 2	2	2				
AR20238	Transportation infrastructure engineering	3	Semester 2	2	2				
AR20241	Foundation design	6	Semester 2	2	2				
AR20442	Structural design and construction	12	Semester 2	2	2				
Year of Study : 3 (9)									
Unit Status : Compulsory Unit (9)									
AR30315	Dissertation	12	All Year	2	3	Yes			
AR30034	Geotechnical engineering	6	Semester 1	2	3				
AR30344	Civil engineering hydraulics 2	6	Semester 1	2	3				
AR30400	Structures 3	6	Semester 1	2	3				
AR30401	Year 3 joint design project	6	Semester 1	2	3				

Unit	Unit Title	Credits	Period	Part	Stage	DEU	SRU	TSC or DPC	Placement Status
AR30402	Bridge engineering	6	Semester 2	2	3				
AR30403	Building environment 3	6	Semester 2	2	3				
AR30405	Coastal and water engineering	6	Semester 2	2	3				
AR30412	Materials science 2	6	Semester 2	2	3				

Year of Study : 4 (13)

Unit Status : AR4007 Optional Units: Select 2 units from this list: (4)

AR40302	Architectural structures	6	Semester 1	3	4				
AR40392	Natural building materials	6	Semester 1	3	4				
AR40419	Sustainable concrete technology	6	Semester 1	3	4				
AR40446	Public health engineering for developing communities	6	Semester 1	3	4				

Unit Status : AR4008 Optional Units: Select 2 units from this list: (4)

AR40301	Conservation engineering	6	Semester 2	3	4				
AR40319	Advanced construction management	6	Semester 2	3	4				
AR40418	Advanced timber engineering	6	Semester 2	3	4				
AR40445	Programming for design	6	Semester 2	3	4				

Unit Status : AR4009 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: (1)

AR40443	Advanced research dissertation	12	All Year	3	4				
-------------------------	--------------------------------	----	----------	---	---	--	--	--	--

Unit Status : Compulsory Unit (4)

AR40413	Structures 4	6	Semester 1	3	4				
AR40325	Group design project - civil	12	Semester 1	3	4	Yes			
AR40324	Advanced geotechnical engineering	6	Semester 2	3	4				
AR40305	Civil infrastructure design project	12	Semester 2	3	4	Yes			

Business Support Systems - part of Computing Services



MEng(Hons) Civil Engineering with Year long work placement - Being delivered 2017/2018
UEAR-AKM07

+

NFAAR Version	UG <input type="checkbox"/>
Length	5 Years
Mode of Attendance	Full-time
Mode of Placement	Thick Sandwich
Type of Placement	Year Long Work Placement
Intended Award	Master of Engineering with Honours
Award Title	MASTER OF ENGINEERING IN CIVIL ENGINEERING
For UG Masters Type Programmes this is	Y
Exit Awards	UEAR-AKC07 Certificate of Higher Education UEAR-AKL07 Diploma of Higher Education
Exit Award Rules	
Designated Alternative Programmes	UEAR-AFM07 MEng (hons) Civil Engineering UEAR-AKB07 BEng (hons) Civil Engineering

Assessment weightings and decision references		
Stage	Weighting within programme %	NFAAR decisions reference
Stage 1	<input type="text" value="0"/>	http://www.bath.ac.uk/registry/nfa/index.htm
Stage 2	<input type="text" value="20"/>	
Stage 3	<input type="text" value="0"/>	
Stage 4	<input type="text" value="40"/>	
Stage 5	<input type="text" value="40"/>	Additional information for Year 5: It may be possible for students to take AR40430 (Study abroad) in place of the S1 units listed here subject to the approval of the Director of Studies
Stage 6	<input type="text"/>	

Unit	Unit Title	Credits	Period	Part	Stage	DEU	SRU	TSC or DPC	Placement Status
Year of Study : 1 (10)									
Unit Status : Compulsory Unit (10)									
AR10003	Building environment 1	6	Semester 1	1	1				
AR10033	Geology	6	Semester 1	1	1				
AR10040	History & theory 1.1: vernacular architecture	6	Semester 1	1	1				
AR10244	Design studio 1.1	6	Semester 1	1	1				
AR10369	Structures 1A	6	Semester 1	1	1	Yes			
AR10366	Computer applications	6	Semester 2	1	1				
AR10367	Mathematics 1	6	Semester 2	1	1				
AR10368	Surveying	6	Semester 2	1	1				
AR10426	Materials science 1	6	Semester 2	1	1				
AR10370	Structures 1B	6	Semester 2	1	1	Yes			
Year of Study : 2 (10)									
Unit Status : Compulsory Unit (10)									
AR20318	Civil engineering management 1	6	Semester 1	2	2				
AR20386	Mathematics 2	6	Semester 1	2	2				
AR20389	Structures 2	6	Semester 1	2	2				
AR20390	Surveying and geology field course	3	Semester 1	2	2				
AR20076	Soil mechanics	6	Semester 1	2	2	Yes			
AR20385	Civil engineering hydraulics 1	6	Semester 1	2	2	Yes			
AR20004	Building environment 2	6	Semester 2	2	2				
AR20238	Transportation infrastructure engineering	3	Semester 2	2	2				
AR20241	Foundation design	6	Semester 2	2	2				
AR20442	Structural design and construction	12	Semester 2	2	2				
Year of Study : 3 (1)									
Unit Status : Compulsory Unit (1)									
AR20384	Industrial placement	60	All Year	2	3				
Year of Study : 4 (9)									
Unit Status : Compulsory Unit (9)									
AR30315	Dissertation	12	All Year	2	4	Yes			
AR30034	Geotechnical engineering	6	Semester 1	2	4				
AR30344	Civil engineering hydraulics 2	6		2	4				

Unit	Unit Title	Credits	Period	Part	Stage	DEU	SRU	TSC or DPC	Placement Status
			Semester 1						
AR30400	Structures 3	6	Semester 1	2	4				
AR30401	Year 3 joint design project	6	Semester 1	2	4				
AR30402	Bridge engineering	6	Semester 2	2	4				
AR30403	Building environment 3	6	Semester 2	2	4				
AR30405	Coastal and water engineering	6	Semester 2	2	4				
AR30412	Materials science 2	6	Semester 2	2	4				

4 Year of Study : 5 (13)

Unit Status : AR4007 Optional Units: Select 2 units from this list: (4)

AR40302	Architectural structures	6	Semester 1	3	5				
AR40392	Natural building materials	6	Semester 1	3	5				
AR40419	Sustainable concrete technology	6	Semester 1	3	5				
AR40446	Public health engineering for developing communities	6	Semester 1	3	5				

Unit Status : AR4008 Optional Units: Select 2 units from this list: (4)

AR40301	Conservation engineering	6	Semester 2	3	5				
AR40319	Advanced construction management	6	Semester 2	3	5				
AR40418	Advanced timber engineering	6	Semester 2	3	5				
AR40445	Programming for design	6	Semester 2	3	5				

Unit Status : AR4009 Optional Units: Select a minimum of 0 and a maximum of 1 units from this list: (1)

AR40443	Advanced research dissertation	12	All Year	3	5				
---------	--------------------------------	----	----------	---	---	--	--	--	--

Unit Status : Compulsory Unit (4)

AR40413	Structures 4	6	Semester 1	3	5				
AR40325	Group design project - civil	12	Semester 1	3	5	Yes			
AR40324	Advanced geotechnical engineering	6	Semester 2	3	5				
AR40305	Civil infrastructure design project	12	Semester 2	3	5	Yes			

Business Support Systems - part of Computing Services