Bournemouth University

Programme Specification – Section 1

KEY PROGRAMME INFORMATION

KET I KOOKAMME IN OKMATION						
Originating institution(s) Bournemouth University	Faculty responsible for the programme Faculty of Science and Technology					
Final award(s), title(s) and credits BSc (Hons) Design Engineering – 120 (60 ECTS) Level 4 / 120 (60 ECTS) Level 5 / 120 (60 ECTS) Level 6 credits						
Intermediate award(s), title(s) and credits Dip HE Design Engineering – 120 (60 ECTS) Cert HE Design Engineering – 120 (60 ECTS)						
UCAS Programme Code(s) (where applicable and if known) H100	HECoS (Higher Education Classification of Subjects) Code and balanced or major/minor load 100048 (20%), 100182 (80%)					

External reference points

UK Quality Code for Higher Education;

Part A: Setting and Maintaining Academic Standards;

Chapter A1: UK and European reference points for academic standards (May 2015) - incorporates the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (Qualification Frameworks), Foundation Degree qualification benchmark, Master's Degree Characteristics and Subject Benchmark Statements:

Subject benchmark statements – Art and Design (2020);

Subject benchmark statements - Engineering (2023);

UK Standard for Professional Engineering Competence and Commitment (UK-SPEC): The Accreditation of Higher Education Programmes (AHEP) fourth edition from the Engineering Council UK (August 2020).

Professional, Statutory and Regulatory Body (PSRB) links

Accreditation will be sought from the Institution of Engineering Designers (IED) and the Institution of Mechanical Engineers (IMechE) to meet the exemplifying academic benchmark requirements for registration as an Incorporated Engineer (IEng) and also, in part, Chartered Engineer (CEng) in 2025.

Places of delivery

Bournemouth University, Talbot Campus

Mode(s) of delivery	Language of delivery
Full-time/Full-time sandwich	English

Typical duration

Programme duration: 3 years full-time / 4 years full-time sandwich

Level 4: 1 year Level 5: 1 year

Optional sandwich placement: 1 year

Level 6: 1 year

Date of first intake September 2025	Expected start dates September
Maximum student numbers Not applicable	Placements Optional sandwich placement in industry between level 5 and 6 (30 weeks minimum). Students are expected to search for suitable placement opportunities, with the support of the Faculty placements team.
Partner(s) Not applicable	Partnership model Not applicable

Date of this Programme Specification

March 2025

Version number

Version 2.1-0925

Approval, review or modification reference numbers

E232435

EC 2425 06, approved 24/10/2024, version remains unchanged

FST2425 17, approved 19/03/2025, previously v2.0

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Dr Nigel Garland and Dr Diogo Montalvão

PROGRAMME STRUCTURE

Programme Award and Title: BSc (Hons) Design Engineering

Year 1/Level 4

Students are required to complete all 6 core units

Unit Name	Core/ Option	No of credits	Assess Weight	ment Ele ings	ement	Expecte d contact hours	Unit version no.	HECoS Code (plus balanced or major/minor load)				
			Exam 1	Cwk 1	Cwk 2	per unit						
Design Communication	Core	20		100		50	2.0	100048 (major) 100632 (minor)				
Engineering Principles A	Core	20	100	Pass/ Fail		50	2.0	100203 (balanced) 101061 (balanced)				
Design Engineering Projects 1	Core	20		Pass/ Fail	100	50	4.0	100182				
Materials with Practice	Core	20	60	40		50	2.0	100203 (balanced) 100184 (balanced)				
Electrical and Electronic Principles	Core	20		50	50	50	3.0	100163				
Mechatronics and Robotics Principles	Core	20	50	50		50	1.0	100430 (balanced) 100170 (balanced)				

Progression requirements: Requires 120 credits at Level 4

Exit qualification: Cert HE Design Engineering (requires 120 credits at Level 4)

Year 2/Level 5 Students are required to complete all 5 core units **Unit Name** Core/ No of Assessment Element Expected Unit **HECoS Code** (plus balanced Option credits Weightings contact version or major/minor hours per no. Exam Cwk Cwk unit load 2 Manufacturing and 100202 (balanced) Core 20 40 60 40 2.0 100203 (balanced) Engineering Materials Engineering Design 100182 Core 20 100 50 2.0 Tools 100182 (balanced) Engineering Core 20 50 50 50 3.0 Simulation 100163 (balanced) 2.0 100182 Core 40 40 60 60 Design Engineering Proiects 2 40 Management and Core 20 100 2.0 101221 (balanced) 100078 Commercialisation

Progression requirements: Requires 120 credits at Level 5

Exit qualification: Dip HE Design Engineering (requires 120 credits at Level 4 and 120 credits at Level 5)

Year 3/Level P - Optional placement year in industry/business

The optional sandwich placement is taken between levels 5 and 6.

Progression requirements: Satisfactory completion of a minimum 30-week placement in industry/business. Students who do not choose to undertake the optional sandwich placement may progress directly from Level 5 to Level 6.

(balanced)

Year 3/4/Level 6 Students are required to complete all 3 core units **Unit Name** Core/ No of **Assessment Element Expected** Unit **HECoS Code** Option credits Weightings contact version (plus balanced or major/minor hours per no. Exam Cwk unit load) Cwk 2 100160 Computational Core 20 100 40 3.0 Engineering 100170 Mechatronics Core 20 40 60 50 2.0 100078 (balanced) Innovation and Core 20 30 70 40 1.1 100814 (balanced) Professional Practice 100182 Design Engineering Core 60 70 30 60 3.0 Project 3

Exit qualification: BSc (Hons) Design Engineering

Sandwich UG award: Requires 120 credits at Level 4, 120 credits at Level 5, 120 credits at Level 6 and successful completion of a placement year.

Full-time UG award: Requires 120 credits at Level 4, 120 credits at Level 5 and 120 credits at Level 6.

AIMS OF THE DOCUMENT

The aims of this document are to:

- define the structure of the programme;
- specify the programme award titles;
- identify programme and level learning outcomes;
- articulate the regulations governing the awards defined within the document.

AIMS OF THE PROGRAMME

This programme aims to develop creative, innovative and resourceful graduates, who:

- can employ modern design methodologies and new technologies to achieve optimum solutions to complex engineering design problems in a creative, efficient and effective manner, and be confident in presenting their ideas to a range of audiences.
- have a thorough understanding and knowledge of engineering principles, analysis, tools and practices, and the ability to apply these to the design of manufactured products and technical applications.
- have a broad understanding of business and management processes, security risks, and the application of business law and intellectual property.
- Recognise that the impacts of their decisions may be global and long-lasting and are able to apply the principles of ethics as well as sustainability through the UNSD Goals.
- Are equipped to work with stakeholders and social and cultural structures, both within and outside of their normal community of practice, recognising the benefits and importance of equality, diversity and inclusion. that the impacts of their decisions may be global and longlasting.

Engineering design and its application is at the core of this programme, integrating knowledge through a programme of projects, which are the major activities at each level. Projects increase in complexity and diversity through the programme, addressing more complexity at each level, with scenarios ranging from mass production to niche, one off solutions. Integral to each of the project units, students develop practical understanding and capability through workshop practice, simulation and technical demonstration, with opportunities to research, explore, and apply unfamiliar or emerging technologies.

The programme treats computers and software as a means of achieving the aims of the course, supporting the design, simulation and integration of mechanical, electronic and software systems.

Students are expected to make real contributions as engineers and designers, becoming recognised by their professional community early after graduation, and understanding the importance of lifelong learning and continuing professional development (CPD).

The programme seeks to develop global citizens who understand how the world works economically, politically, socially, culturally, technologically and environmentally. They will be able to balance the demands of industry against ethical practice and social and environmental impacts identified in the UNSD Goals. Students will develop team-working skills and understand the importance and benefit of equality, diversity and inclusion.

Design Engineering students have the opportunity to undertake an overseas work placement within industry. This helps to promote awareness and tolerance of diversity and allows for cultural exchange.

The programme strives to enhance the students' graduate capabilities so that they can continue to develop the appropriate knowledge, understanding, values and attitudes, cognitive, social and practical skills for continuing employability.

The programme promotes partnerships and collaborations with local, regional, national and international partners (i.e. communities, institutions and companies). This is achieved by promoting and supporting students for their placements (both nationally and internationally), by facilitating widening access and by supporting the commercialisation of final year projects.

ALIGNMENT WITH THE UNIVERSITY'S STRATEGIC PLAN

The BSc (Hons) Design Engineering programme is informed by and aligned with Bournemouth University's 2025 strategic plan and the fusion of excellent teaching, world-class research and professional practice that is at the heart of the institution's visions and values. Students are supported by academics with a wealth of industry experience, many of whom are actively engaged with national professional engineering institutions. Academics delivering the programme are actively engaged in cutting edge research and consultancy projects, while students are encouraged to participate in a range of co-creation and co-publication projects. The programme's innovative pedagogic approach offers students the opportunity to learn by engaging in a series of practical, industry focused projects focused around the newly developed Design and Engineering Innovation Centre. These projects are aimed at equipping students with the full range of skills necessary to succeed in an innovative engineering design environment, and are informed by the academic team's own industrial experience as well as by a network of industry contacts, who may also contribute directly to the programme by delivering guest lectures and providing opportunities for industrial visits.

LEARNING HOURS AND ASSESSMENT

Bournemouth University taught programmes are composed of units of study, which are assigned a credit value indicating the amount of learning undertaken. The minimum credit value of a unit is normally 20 credits, above which credit values normally increase at 20-point intervals. 20 credits is the equivalent of 200 study hours required of the student, including lectures, seminars, assessment and independent study. 20 University credits are equivalent to 10 European Credit Transfer System (ECTS) credits.

The assessment workload for a unit should consider the total time devoted to study, including the assessment workload (i.e. formative and summative assessment) and the taught elements and independent study workload (i.e. lectures, seminars, preparatory work, practical activities, reading, critical reflection).

Assessment per 20 credit unit should normally consist of 3,000 words or equivalent. Dissertations and Level 6 and 7 Final Projects are distinct from other assessment types. The word count for these assignments is 5,000 words per 20 credits, recognising that undertaking an in-depth piece of original research as the capstone to a degree is pedagogically sound.

STAFF DELIVERING THE PROGRAMME

Students will usually be taught by a combination of senior academic staff with others who have relevant expertise including – where appropriate according to the content of the unit – academic staff, qualified professional practitioners, demonstrators/technicians and research students.

INTENDED LEARNING OUTCOMES - AND HOW THE PROGRAMME ENABLES STUDENTS TO ACHIEVE AND DEMONSTRATE THE INTENDED LEARNING OUTCOMES

PROGRAMME AND LEVEL 6 INTENDED PROGRAMME OUTCOMES

A: 5	Subject knowledge and understanding	The following learning and teaching and
This	programme provides opportunities for students to elop and demonstrate knowledge and understanding of:	assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:
A1	scientific, mathematical and engineering principles and processes required to analyse and solve complex problems;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
A2	simulate, analyse and optimise components, systems	 lectures (A1 – A6); seminars (A1 – A6); directed reading (A5); use of the VLE (A1-A6); independent research (for project) (A5-A6)
A4 A5	and assemblies to solve complex problems; planning, implementation and presentation of a major individual complex project, presenting to technical and non-technical audiences; the business environment and management processes including security risk to operations and assets, and intellectual property rights;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes): • examinations and in-class tests (A1, A5); • coursework (A1 – A6)
A6	the importance and benefit of equality, diversity and inclusion, as well as being able to balance the demands of industry against social and environmental impacts identified in the UNSD Goals.	
B: I	ntellectual skills	The following learning and teaching and
This	programme provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the programme outcomes:
B1	approach and implement design in a methodical and disciplined manner;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
B2 B3	evaluate critically, and apply scientific knowledge and skills in the development and implementation of practical solutions to complex engineering problems; evaluate computer based packages for the integration of	 lectures (B1 - B4); seminars (B1 - B5); use of the VLE (B1 - B5);
	design functions from concept to realisation;	independent research (for project) (B1 - B5) Assessment strategies and methods
B4	plan and implement engineering design projects individually and in a group;	(referring to numbered Intended Learning Outcomes):
B5	demonstrate a level and type of education to allow the pursuit of postgraduate research in a related discipline.	coursework (B1 - B5);practical exercises (B3 – B4).
C: F	Practical skills	The following learning and teaching and assessment strategies and methods
This	programme provides opportunities for students to:	enable students to achieve and to

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		demonstrate the programme learning outcomes:
C1	identify, understand and employ the appropriate mathematical models to solve complex engineering design problems;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
C2	use highly specialised manual and computer-based methods for engineering communication and product presentation;	 coursework (C1 – C8); group exercises (C8).
C3	be able to creatively employ advanced modelling, simulation and analysis packages in engineering design;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
C4	critically review and select engineering materials and material processing methods for the design of components;	coursework (C1- C8);project (C1, C2, C5).
C 5	design and use a range of electronic system modules to complex engineering systems;	
C6	use basic workshop-based material processing tools and machines, safely and effectively, to create physical demonstrators;	
C7	use basic electrical and electronic components, safely and effectively;	
C8	identify and safely use appropriate laboratory methods to conduct experimental analysis.	
D: 1	ransferable skills	The following learning and teaching and
This	programme provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:
D1	communicate effectively by oral, written and visual means to technical and non-technical audiences;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
D2	select and employ communication and information technologies;	• seminars (D1- D7);
D3	solve numerical and statistical problems using appropriate techniques;	directed reading (D6).
D4	work effectively in collaboration with others, including staff and students;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
D5	demonstrate creativity in problem solving and the application of knowledge across discipline areas;	• coursework (D1 – D7).
D6	identify and work towards targets for personal, career, and academic development;	
D7	be independent and reflective learners.	

LEVEL 5/DipHE INTENDED LEVEL OUTCOMES

This	Knowledge and understanding s level provides opportunities for students to develop and nonstrate knowledge and understanding of:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
A1	their abilities in identifying and applying engineering principles and analysis to the solution of design problems;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
A2 A3	in the modelling and analysis software packages; the limitations and potentials of these tools, and be able	 lectures (A1- A5); seminars (A1 – A5); directed reading (A4); use of the VLE (A1-A5).
A4	to evaluate the solutions; the business environment with respect to opportunities and competitive advantage, people management, security risk, and the threat to business operations, assets and intellectual property; increasingly complex engineering designs in a creative, dynamic and professionally structured manner.	Assessment strategies and methods (referring to numbered Intended Learning Outcomes): • examinations and in-class test (A1); • coursework (A1 – A5).
	ntellectual skills s level provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
B1 B2 B3 B4	skills in the development and implementation of practical solutions to engineering problems; evaluate computer based packages for the integration of design functions from concept to realisation;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes): • lectures (B2 - B4); • seminars (B1 – B4); • use of the VLE (B1 – B4). Assessment strategies and methods (referring to numbered Intended Learning Outcomes): • coursework (B1 – B4).
	Practical skills s level provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
C1	identify, understand and employ the appropriate mathematical models to solve engineering design problems; Integrate technology from a range of engineering disciplines to solve practical engineering design problems;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes): • lectures (C1 – C6); • coursework (C1 – C6); • group exercises (C3, C5).
		5 ap 2 (30, 30).

C4	be able to employ efficiently advanced modelling, simulation and analysis packages in engineering design; understand engineering materials and material processing methods, and intelligently select materials and manufacturing processes; design and use a range of electronic system modules in the process of engineering design; identify and safely use appropriate laboratory methods.	Assessment strategies and methods (referring to numbered Intended Learning Outcomes): • coursework (C1-C6).
	ransferable skills level provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
D1 D2 D3 D4 D5	be reflective learners; communicate and argue effectively in both written and verbal form; work effectively in teams; demonstrate problem-solving skills; apply a range of statistical tests to laboratory work.	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes): seminars (D1- D5); use of the VLE (D1 - D5); directed reading (D1). Assessment strategies and methods (referring to numbered Intended Learning Outcomes): coursework (D1 - D5).

LEVEL 4/Cert HE INTENDED LEVEL OUTCOMES

This	Knowledge and understanding s level provides opportunities for students to develop and nonstrate knowledge and understanding of:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
A1	the scientific foundations of a range of engineering principles and apply them to the solution of appropriate engineering design problems;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
A2	the problem in a design task and the appropriate engineering techniques for its solution;	 lectures (A1- A4); seminars (A1 – A4); directed reading (A4);
A3	mathematical fundamentals, models and processes and their application to a range of engineering principles and processes;	use of the VLE (A1-A4). Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
A4	project planning and the product development process.	examinations and in-class tests (A1);

	• coursework (A1 – A4).
B: Intellectual skills This level provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
 B1 approach and implement design in a methodical and disciplined manner; B2 evaluate, and apply scientific knowledge and skills in the development and implementation of practical solutions to engineering problems; B3 plan and implement engineering design projects individually and in a group. 	 seminars (B1 – B3); use of the VLE (B1 – B3). Assessment strategies and methods (referring to numbered Intended Learning Outcomes): examinations and in-class tests (B2); coursework (B1 – B3).
C: Practical skills This level provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
 C1 identify, understand and employ the appropriate mathematical models to solve engineering design problems; C2 learn manual and computer-based methods for engineering communication and product presentation; C3 understand engineering materials and material processing methods, and intelligently select materials and manufacturing processes; C4 use basic workshop-based material processing tools and machines, safely and effectively; C5 use basic electrical and electronic components, safely and effectively; 	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes): Iectures (C1 - C3); seminars (C1 – C6); group exercises (C4, C6). Assessment strategies and methods (referring to numbered Intended Learning Outcomes): examinations and in-class tests (C1, C3); coursework (C1-C6).
C6 identify and safely use appropriate laboratory methods.	
D: Transferable skills This level provides opportunities for students to:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
D1 communicate effectively by oral, written and visual means;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):

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- D2 use IT including the Web, spreadsheets and word-processing;
- **D3** apply a range of basic statistical tests to laboratory work, and understand other relevant mathematical procedures in the processing of data;
- **D4** work in collaboration with others, including staff and students;
- **D5** demonstrate problem solving skills and the application of knowledge across discipline areas;
- **D6** be independent and reflective learners.

- lectures (D1, D3);
- seminars (D1- D6);
- use of the VLE (D1 D6).

Assessment strategies and methods (referring to numbered Intended Learning Outcomes):

coursework (D1 – D6).

ADMISSION REGULATIONS

Please refer to the course website for further information regarding admission regulations for this programme: Courses | Bournemouth University

PROGRESSION ROUTES

None

ASSESSMENT REGULATIONS

The regulations for this programme are the University's Standard Undergraduate Assessment Regulations (6A) (https://intranetsp.bournemouth.ac.uk/pandptest/6a-standard-assessment-regulations-integrated-masters.pdf) with the following approved exceptions to clauses 7.1 and 7.2 which align the programme with the requirements of The Engineering Council, Accreditation of Higher Education Programmes (AHEP):

COMPENSATION (Section 7)

Compensation may only be applied for up to 20 credits across all levels of the programme and cannot be applied to individual or group project units, or those in the following list:

- Innovation and Professional Practice (Level 6);
- Mechatronics (Level 6);
- Computational Engineering (Level 6).

PLACEMENT ELEMENT

This programme offers students, under the guidance of the Placement Tutor and the Placement Coordinator, the opportunity to complete a sandwich year with a minimum 30-week placement before level 6.

Successful completion of the 30 week placement is optional. The placement is assessed on a pass/fail basis using a 3,000-word reflective report. The 30-week sandwich placement must be completed between levels 5 and 6 and is a requirement for progression to level 6 for the successful completion of the sandwich mode award.

Placement draws on some or all of the units studied on the first two levels of the programme. It provides the opportunity for the student to develop their abilities and understanding of design engineering and related subjects, as well as providing a platform for successful entry into the profession following graduation. It applies and develops understanding and skills acquired in Levels 4 and 5, makes a major contribution to the understanding of the final level units, further develops final projects by utilising the context of the work experience as appropriate and enhances students' prospects of future employment.

http://intranetsp.bournemouth.ac.uk/pandptest/4k-placements-policy-and-procedure.pdf

Programme Skills Matrix

Prog Units	ramme Intended Learning Outcomes	A 1	A 2	A 3	A 4	A 5	A 6	B 1	B 2	B 3	B 4	B 5	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	D 1	D 2	D 3	D 4	D 5	D 6	D 7
L6	Mechatronics	Х	Х	Х				Х	Х	Х	Х	Х	Х	Х	Х		Х		Х		Х	х	Х	Х	Х		Х
L6	Computational Engineering	Х		х				Х	х	х			х	х	Х	Х							Х		Х		
L6	Innovation and Professional Practice					Х	Х					Х									Х	Х		Х	Х	Х	Х
L6	Design Engineering Projects 3				Х		Х	Х	Х	Х	Х	Х	Х			Х	Х	Х		Х	Х	Х	Х	Х	Х	Х	Х
L5	Engineering Design Tools	Х							х				Х							Х		х	Х	х			
L5	Engineering Simulation	х							х				х				х			х		х	Х	х			
L5	Management and Commercialisation					х																					
L5	Manufacturing and Engineering Materials	х							х				х			х				х		х	Х	х			
L5	Design Engineering Projects 2		х		Х		Х	х	х	х	х		Х	х	х	Х	х	Х		Х	х	х	Х	х	х	х	х
L4	Design Communication		Х						Х				Х									х	Х				
L4	Engineering Principles A	х	х						х				Х						х	Х		х	Х	х			
L4	Electrical and Electronic Principles	х	х						х				Х						х	Х		х	Х	х			
L4	Materials with Practice	х							х				х			Х		Х		Х		х	Х	х			
L4	Design Engineering Projects 1				Х		Х	Х	х	Х	Х		х	х		Х		Х	Х	Х	х	х	Х	Х	х	Х	Х
L4	Mechatronics and Robotics Principles	Х	х	х					х	х			х	х	х					х	х	х	х		х		

PSRB Output Standard Matrix

This course has been developed to meet the exemplifying academic benchmark requirements for registration as an Incorporated Engineer (IEng) and also, in part, Chartered Engineer (CEng). Students will need to complete an approved format of further learning pursuant to the requirements of UK-SPEC to meet CEng in full. See the Engineering Council UK website (http://www.engc.org.uk/ahep) for more information on the learning outcomes.

EAB/ACC2/C: Ou	tput Standards Matrix (for use with AHEP 4	.0)																		
IEng		AHEP4 Level >>	6	6	6	6	6	6	5	6	6	4	5	5	5	5	6	5	4	4
	BSc (Hons) Design Engineering		1														1	1		
_		Compulsory	Science and Maths	Engineering Analysis			Design and Innovation		The Engineer and Society					Engineering Practice						
			B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18
Total Count	80		6	7	7	6	3	7	2	3	3	3	1	9	7	2	4	4	4	2
Core Count	80		6	7	7	6	3	7	2	3	3	3	1	9	7	2	4	4	4	2
Year 1 / Level 4	Design Communication	X																	Х	Х
	Design Engineering Projects 1	X		Х				Х						Х	Х			Х	Х	
	Eng Principles A	X	Х	Х										Х						
	Mechatronic and Robotic Principles	X	Х					Х		Х				Х						
	Electrical & Electronic Principles	X			Х	Х								Х	Х					
	Materials with Practice	X										X		Х	х					
Year 2 / Level 5	Engineering Design Tools	X	х	х	х	х								x	х					
	Engineering Simulation	X	х	х	Х			х												
	Design Engineering Projects 2	X		х	х	х	х	х						х	х		x	х	х	
	Management & Commercialisation	X									Х	Х					X	Х		
	Manufacturing and Eng Materials	X							X						X	X				
Year 3 / Level 6	Mechatronics	X		х	х	х		х						x	х			X		
	Computational Engineering	X	х	х	х	Х		Х												
	Innovation and Professional Practice	X					Х			Х	Х		X			Х	Х			
	Design Engineering Project 3	X	х		X	Х	Х	Х	Х	Х	Х	Х		Х			Х		Х	X

EAB/ACC2/C: Out	tput Standards Matrix (for use with AHEP 4.0)																			T
Partial CEng		AHEP4 Level >>	6	6	6	6	6	6	6	6	6	4	6	6	6	6	6	5	6	4
Programme Title:	BSc (Hons) Design Engineering		Ì	1		1		1		1						İ			1	I
_	Module code	Compulsory	Science and Maths	Engineering Analysis			Design and Innovation		The Engineer and Society					Engineering Practice						
			C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18
Total Count	78		6	7	7	6	2	7	2	3	3	2	1	9	7	2	4	4	4	2
Core Count	78		6	7	7	6	2	7	2	3	3	2	1	9	7	2	4	4	4	2
Year 1 / Level 4	Design Communication	X																	Х	Х
	Design Engineering Projects 1	X		Х				Х						Х	Х			Х	Х	
	Eng Principles A	X	Х	Х										Х						
	Mechatronic and Robotic Principles	X	Х					Х		Х				Х						
	Electrical & Electronic Principles	X			Х	Х								Х	Х					
	Materials with Practice	Х										Х		х	х					
Year 2 / Level 5	Engineering Design Tools	Х	X	Χ	X	X								X	Χ					
	Engineering Simulation	Х	X	Χ	X			Χ												
	Design Engineering Projects 2	Х		Х	Х	X	Χ	Х						Х	Х		Χ	X	X	
	Management & Commercialisation	Х									Х	Х					Х	Х		
	Manufacturing and Eng Materials	Х							Х						Х	Х				
Year 3 / Level 6	Mechatronics	Х		X	X	X		X						X	X			X		
	Computational Engineering	Х	Х	х	Х	Х		х												
	Innovation and Professional Practice	х								х	х		х			х	х			
	Design Engineering Project 3	Х	X		X	Х	Χ	Χ	Х	Χ	Х			Χ			Χ		X	Х