

### **KEY PROGRAMME INFORMATION**

Originating institution(s) Bournemouth University	Faculty responsible for the programme Faculty of Science and Technology		
Final award(s), title(s) and credits			

BA (Hons) Product Design – 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 Product Design – 120 (60 ECTS) Level 4 / 120 (60 ECTS) Level 5 credits Cert HE Design – 120 (60 ECTS) Level 4 credits

UCAS Programme Code(s) (where applicable and if known)	HECoS (Higher Education Classification of Subjects) Code and balanced or major/minor load
W240	100050 (100%)

### **External reference points**

UK Quality Code for Higher Education;

Part A: Part A: Setting and Maintaining Academic Standards;

Chapter A1: UK and European reference points for academic standards (October 2013) - 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);

Subject benchmark statements - Business and Management (2023);

Accreditation of Product Design Education Programmes (APDEP) from the Institution of Engineering Designers (June 2021).

## Professional, Statutory and Regulatory Body (PSRB) links

Accreditation will be sought from the Institution of Engineering Designers (IED) to meet the exemplifying academic benchmark requirements for registration as a Registered Product Designer (RProdDes) 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		

### Date of this Programme Specification

June 2024

### Version number

Version 2.1-0925

## Approval, review or modification reference numbers

E232436

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

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## PROGRAMME STRUCTURE

## Programme Award and Title: BA (Hons) Product Design

Year 1/Level 4

Students are required to complete all 6 core units

Unit Name	Core/ Option	No of credits	Assessment Element Weightings		Expecte d contact hours	Unit version no.	HECoS Code (plus balanced or major/minor load)	
			Exam 1	Cwk 1	Cwk 2	per unit		
Digital Design Tools and A.I.	Core	20		100		50	1.0	10050
Design Communication	Core	20		100		50	2.0	100048 (major) 100632 (minor)
Materials and Engineering Fundamentals	Core	20	80	20		50	2.0	100203 (balanced) 100184 (balanced)
Materials and Technology for Design	Core	20	80	20		50	2.0	100203 (balanced) 100184 (balanced)
Design Projects & Prototyping	Core	20		Pass/ Fail	100	50	1.0	100050
Human Factors in Design	Core	20		50	50	40	1.0	100048

Progression requirements: Requires 120 credits at Level 4

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

Year 2/Level 5 Students are required to complete all 6 core units Unit **HECoS Code Unit Name** Core/ No of Assessment Element Expecte Option credits Weightings version (plus balanced or contact no. major/minor load) hours per unit Exam Cwk Cwk 1 1 2 Manufacturing and Core 20 50 40 2.0 50 100184 (balanced) Technology 100209 (balanced) **Product Design Tools** 20 50 Core 50 40 2.0 100048 Technical Design Core 20 Pass/ 100 50 1.0 100050 **Projects** Fail Industrial Design Projects Core 20 100 50 1.0 100050 20 100 40 2.0 Management and Core 101221 (balanced) Commercialisation 100078 (balanced) Design Aesthetics and Core 20 50 50 40 1.0 100048 UX

Progression requirements: Requires 120 credits at Level 5

Exit qualification: Dip HE Product Design (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.

Year 3 or 4/Level 6 Students are required to complete all 4 core units HECoS Code (plus **Unit Name** Core/ No of **Assessment Element Expecte** Unit Option balanced or credits Weightings version major/minor load) contact no. hours **Exam** Cwk Cwk per unit 100 100048 Human-Centred Design Core 20 40 1.0 Studies 70 Innovation and Core 20 30 40 1.1 100078 (balanced) 100814 (balanced) **Professional Practice** 1.0 **BA Final Design Project** 100050 Core 60 40 60 60 Final Design Prototype Core 20 30 70 150 1.0 100050

Exit qualification: BA (Hons) Product Design

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:

- have a balanced educational experience that encompasses the appropriate integration of design processes, technology, materials, production techniques, aesthetics, ergonomics, design methods, computer tools, professional practice and prototype manufacture in the industrial aspects of product design, with a user-centred bias.
- have creativity, analytical ability, knowledge, understanding, and the broad based skills necessary to practice design of industrially manufactured products.
- can evaluate solutions to design problems against conflicting constraints and challenge conventional solutions.
- can demonstrate complex visual literacy and have an ability to synthesise a broad range of design aspects.

Products are sophisticated solutions to complex and diverse problems, not just a novel idea or elaborate solution. The designer must arrive at a product that is a considered compromise between many different and varied fields of study that at times results in conflicting constraints. The ability to think both laterally and logically, in both artistic and scientific domains is crucial in order to satisfy aesthetic, ergonomic, technological, manufacturing, standards and economic criteria.

Design is the result of a considerable amount of unseen concurrent effort by multi-disciplinary design teams. Product designers are the product champions and design team leaders directing the product development process. Product Design is a difficult process which requires dedication, commitment and attention to both "the big picture" and details.

In addition to the need for a broad basic knowledge and the ability to communicate in a wide range of disciplines, is the recognition that designers must be able to think both creatively and analytically. For example, arriving at a detailed technical answer is the result of a clear and uncluttered analytical approach. However, generating an appropriate visual image requires a creative approach. This programme will develop both analytical and creative abilities.

The designer has to be realistic. To develop a sense of design realism means designing the whole product to answer the essential problem. For many students, the production of a working prototype is an essential part of the educational process required to produce realistic designers. The course therefore develops the practical skills of designers who learn real lessons about design by producing working prototype of their solutions.

Well-developed hand/eye/mind co-ordination, spatial awareness and manual sketching techniques are essential in design practice. Designers need to be able to develop and communicate their ideas rapidly and effectively. Discussion and debate are crucial elements of the product development process so written and oral presentation are also important.

Whilst they cannot replace manual techniques, it is important that a Product Designer gains experience in using CAD systems ranging from 2D drafting, to 3D solid modelling, to sophisticated analysis tools. It is an intention to educate designers who are able to utilise CAD technology appropriately and effectively to assist in the design of a product.

The key academic elements of research, understanding, analysis, assimilation, creativity, development and presentation are implicit within the process of product design making this course a highly suitable area of study for a first degree.

Essentially, this programme covers a very broad area of study preparing students for careers and continuing personal development in the field of Product Design.

### ALIGNMENT WITH THE UNIVERSITY'S STRATEGIC PLAN

The BA (Hons) Product Design 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 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. These projects are aimed at equipping students with the full range of skills necessary to succeed in an innovative 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 INTENDED OUTCOMES

This	Knowledge and understanding  a programme provides opportunities for students to elop and demonstrate knowledge and understanding of:	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:
	the design process at a professional level; science, mathematics and technology and a well-	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
	developed ability to apply them to Product Design problems;	<ul> <li>independent research (for project) (A1, A2, A5-A8);</li> </ul>
A3	selecting, testing and making appropriate use of materials, processes and manufacturing techniques;	• lectures (A1-A8);
A4	industry-standard design, modelling and visualisation tools and other appropriate creative software;	• seminars (A1–A8);
A5	visual, psychology, ergonomic design issues and an	practical tutorials (A2-A4);
	ability to apply them appropriately to Product Design;	directed reading (A1);
A6	the skills required to be prepared for continuing personal & professional development;	use of the VLE (A1-A8).
A7	the impact of design decisions in a global and societal context, in particular sustainable design and an awareness of UN SD Goals;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
A8	the business environment with respect to ethics, and the benefits and importance of equality, diversity and inclusion (EDI). And with respect to security risk, and the threat to business operations, assets and intellectual property	<ul> <li>individual project (A1-A8);</li> <li>examinations and in-class tests (A1, A2, A7);</li> <li>coursework (A1-A8).</li> </ul>
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 learning outcomes:
B1	be creative and innovative in solving problems;	Learning and teaching strategies and methods (referring to numbered
B2	generate ideas, concepts, proposals, solutions or arguments;	Intended Learning Outcomes):
В3	analyse problems logically to arrive at suitable solutions;	<ul> <li>independent research (for project) (B1- B8);</li> </ul>
В4	work independently and/or collaboratively in response to set briefs and/or as self-initiated activity;	group exercises (B1-B8);
В5	take a holistic approach, applying professional judgments, balancing costs, benefits, safety, quality, reliability, appearance and environmental impact;	<ul><li>practical tutorials (B1-B8);</li><li>use of the VLE (B1-B8).</li></ul>

B7 B8 C: F	focus on criticising and justifying aesthetic and ergonomic attributes of a designed product while considering a sound theoretical approach in enabling the introduction of new and advancing technology;  evaluate designs, processes and products, and suggest improvements;  undertake research and analysis of information from a variety of sources.  Practical skills	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):  • individual project (B1-B8);  • coursework (B1-B8).  The following learning and teaching and assessment strategies and methods
This	programme provides opportunities for students to:	enable students to achieve and to demonstrate the programme learning outcomes:
C1	produce high quality prototypes which, as closely as possible, look like, feel like and work in the same way as a manufactured item;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
C2	use a wide range of tools, techniques and equipment, including appropriate software and rapid prototyping techniques;	<ul><li>individual project (C1-C5);</li><li>practical tutorials (C1-C5);</li></ul>
C3	employ appropriate materials, media, techniques, methods, technologies and tools with skill and imagination whilst observing safe working practices;	<ul><li>seminars (C1-C4);</li><li>use of the VLE (C1-C4).</li></ul>
C4	undertake laboratory works, test rigs, use laboratory and workshop equipment to generate and evaluate data.	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
C5	demonstrate abilities at sketching, drawing, modelling (physical and virtual), and use of CAD in the design of products.	<ul><li>individual project (C1-C5);</li><li>coursework (C1-C5).</li></ul>
D: T	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	source, navigate, select, retrieve, evaluate, manipulate and manage information from a variety of sources;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
D2	select and employ communication and information technologies;	<ul> <li>individual project (D1-D3, D5-D9);</li> </ul>
D3	articulate ideas and information comprehensibly in visual, oral and written forms;	practical tutorials (D2);
men	interact and work effectively with others, as a leader or nber of a team; often through collaboration, collective eavour and negotiation;	<ul> <li>seminars (D1-D9);</li> <li>group exercises (D1, D2, D3, D4, D5, D8);</li> </ul>
D5	analyse information and experiences, formulate independent judgments;	• use of the VLE (D1 – D9).
D6	articulate reasoned arguments through reflection, review and evaluation;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):

- **D7** study independently, set goals, identify learning needs, manage their own workloads and meet deadlines;
- **D8** develop independence of mind, with intellectual integrity, particularly in respect of ethical issues;
- **D9** recognise the importance of lifelong learning, CPD and professional registration.
- individual projects (D1-D9);
- coursework (D1–D8).

# LEVEL 5/DipHE INTENDED LEVEL OUTCOMES

A: ŀ	Cnowledge and understanding	The following learning and teaching and
	s level provides opportunities for students to develop and nonstrate knowledge and understanding of:	assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
A1 A2	the Design Process and Design Methods and their value in the product development process;  less common materials and associated manufacturing processes and an understanding of how to design components and assemblies to suit appropriate production Processes;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):  • lectures (A1- A8);  • seminars (A1 – A8);
А3	prototyping techniques;	<ul><li>use of the VLE (A1-A8).</li></ul>
A4	applying technical principles to design problems and an understanding of how advanced products function;	Assessment strategies and methods (referring to numbered Intended
A5	appropriate visual, psychological, ergonomic and social issues and their impact upon Product Design;	examinations and on-line
A6	how visualisation techniques may be applied during the process of design;	<ul><li>assessments (A2, A4);</li><li>coursework (A1 – A8).</li></ul>
A7	industry-standard design, visualisation and modelling software tools.	
A8	the business environment with respect to opportunities and competitive advantage, people management, security risk, and the threat to business operations, assets and intellectual property.	
	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	use creativity, innovation and analysis in solving problems;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
B2	generate ideas, concepts, proposals and solutions;	,
В3	use analytical understanding to assist in generating and judging ideas;	<ul><li>lectures (B1 – B5);</li><li>seminars (B1 – B5);</li></ul>

B4	work effectively using their own initiative and as part of	use of the VLE (B1 − B5).
	a group;	Assessment strategies and methods
	•	(referring to numbered Intended
B5	use a holistic and balanced approach to design tasks.	Learning Outcomes):
		<ul> <li>examinations and on-line tests (B3);</li> </ul>
		• coursework (B1 - B5).
C: F	ractical skills	The following learning and teaching and
This	level provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
C1	produce prototypes that demonstrate the function, manufacture, visual and ergonomic aspects of their designs;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
C2	use a wide and varied range of workshop tools, techniques and equipment;	coursework (C1-C5).
<b>C</b> 3	employ various materials, media, techniques, methods, technologies and tools whilst observing good working practices;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
C4	use practical test rigs to test ideas and prototypes to evaluate their solutions;	<ul><li>coursework (C1-C5);</li><li>practical exercises (C1-C4).</li></ul>
<b>C</b> 5	use advanced 3D computerised modelling techniques to aid their design process.	
D: T	ransferable skills	The following learning and teaching and
This	level provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
D1	undertake research, evaluate and summarise	Learning and teaching strategies and
	information from a wide variety of sources;	methods (referring to numbered Intended Learning Outcomes):
D2	use appropriate computer software;	interided Learning Outcomes).
Da		• seminars (D1- D14);
D3	select and employ communication and information technologies;	• use of the VLE (D1 – D14);
D4	present visual work in a wide variety of different ways;	Assessment strategies and methods (referring to numbered Intended
D5	communicate ideas in oral and written forms;	Learning Outcomes):
D6	present ideas and work in a professional manner effectively to different audiences;	• coursework (D1 – D14).
D7	work effectively with others in a group situation;	
D8	clearly explain the reasons and judgments that informed their decisions;	
D9	be constructive and supportive in criticising the work of others;	

D10 listen to, evaluate and respond to criticism of their own work;	
<b>D11</b> plan their own time effectively, set priorities and meet deadlines;	
D12 develop a committed awareness of the need for academic study;	
<b>D13</b> enjoy developing and applying their knowledge, understanding and skills;	
D14 develop a clear awareness and personal interest in	

## LEVEL 4/Cert HE INTENDED LEVEL OUTCOMES

professional development.

Δ - L	Cnowledge and understanding	The following learning and teaching and
This	s level provides opportunities for students to develop and nonstrate knowledge and understanding of:	assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
A1	the Design Process, basic design methods and their usefulness and importance to the product designer;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
A2	a basic ability in the use of development, communication and presentation tools;	lectures (A1- A7);
А3	visual, ergonomic, and physiology issues and their effect upon design;	• seminars (A1 – A7);
<b>A4</b>	principles and their application to Product Design	use of the VLE (A1-A7).  Assessment strategies and methods
A5	problems; the basic structure of materials and how these affect	(referring to numbered Intended Learning Outcomes):
	their properties and a broad knowledge and understanding of general workshop theory and practice;	in-class tests (A3-A6);
<b>A6</b>	basic materials and production Processes and an understanding of how to design simple components to suit some production processes;	• coursework (A1 – A7).
Α7	industry-standard design, visualisation, and 3D modelling, software tools.	
	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	be creative and innovative in solving problems;	Learning and teaching strategies and methods (referring to numbered
B2	generate ideas, proposals and solutions for simple product ideas;	Intended Learning Outcomes):
В3	analyse problems logically to arrive at suitable solutions;	• lectures (B1, B7);
В4	work alone or in teams;	• seminars (B1 – B7);

		·
B5	use time planning techniques to organise their own time;	• use of the VLE (B1 – B7).
В6	be aware of the need for a holistic and balanced approach to design tasks;	Assessment strategies and methods (referring to numbered Intended Learning Outcomes):
В7	apply basic analytical and creative techniques to design problems.	• coursework (B1 – B7).
C: F	Practical skills	The following learning and teaching and
This	level provides opportunities for students to:	assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
C1	produce simple prototypes that function reasonably well and portray an appropriate visual image of simple products;	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):
C2	develop and communicate their ideas using manual techniques;	• lectures (C1 – C4);
C2	produce clear effective engineering drawings to the	<ul><li>coursework (C1 – C6);</li></ul>
CS	produce clear effective engineering drawings to the appropriate standard;	• group exercises (C1-C6).
C4	use various workshop tools, techniques and equipment;	Assessment strategies and methods
C5	undertake practical test rigs to test ideas;	(referring to numbered Intended Learning Outcomes):
	use 2D-computer drafting and 3D Computer modelling packages.	coursework (C1-C6).
	ransferable 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:
D1	research and utilise information from both manual and	Learning and teaching strategies and
<b>D0</b>	digital sources;	methods (referring to numbered Intended Learning Outcomes):
DZ	use basic office software on a PC efficiently and accurately;	lectures (D1, D8)
D3	use a range of techniques to communicate ideas in oral, visual and written forms;	seminars (D1- D11)
D4	present ideas and work to a range of audiences;	use of the VLE (D1 – D11).  Assessment starts rise and seathed.
D5	work in a group situation;	Assessment strategies and methods (referring to numbered Intended
D6	justify decisions based upon reasonable analysis, evaluation and consideration;	<ul><li>Learning Outcomes):</li><li>coursework (D1 – D11).</li></ul>
D7	develop the ability to take and give constructive criticism;	
D8	plan their own time and meet deadlines;	
D9	to develop an awareness of the need for academic study;	
D10	enjoy developing their knowledge, understanding and skills;	

D11 develop awareness and personal interest in professional development.

### ADMISSION REGULATIONS

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

### ASSESSMENT REGULATIONS

The regulations for this programme are the University's Standard Undergraduate Assessment Regulations (6A) with the following approved exceptions to clauses 7.1 and 7.2 which align the programme with the requirements of the Institution of Engineering Designers (IED), Accreditation of Product Design Education Programmes (APDEP):

### **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).

### 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 product design 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**

Units			Pr	ogra	mm	e Int	end	ed L	earn	ning	Outo	om	es																				
		A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	C 1	C 2	C 3	C 4	C 5	D 1	D 2	D 3	D 4	D 5	D 6	D 7	D 8	D 9		
L E V	Final Design Prototype			х						х		х		х		х	х	х	х	х	х	х	х						х				
	Innovation and Professional Practice								х					х			х								х	х			х	х			
E L	BA Final Design Project	х	х		х	х	х	х	х	х	х	х	х	х	х	х	х		х			х	х	х	х		х	х	х	х	х		
6	Human-Centred Design Studies					х																							х				
L	Manufacturing and Technology		х									х													х				Х		Х		
E V	Design Aesthetics and UX			х																			х		х				Х		х		
Ē	Management and Commercialisation								х		х			х									х		х				Х		х		
L	Product Design Tools				х																	Х			Х				Х		х		
5	Technical Design Projects	Х	х	х	х	х	х	Х		х	Х	х	Х	х				х	х	х	Х	Х	Х	х	Х	х	х	х	Х	Х	х		
	Industrial Design Projects	х	х	х	х	х	х	х		х	Х	х	х	х				х	х	х	х	Х	х	х	Х	х	х	х	Х	Х	х		1
L E	Materials and Engineering Fundamentals		х	х								х											х		х				х		х		
v	Materials and Technology for Design		х	х								х											Х		Х				Х		Х		
E L 4	Design Communication				Х																	Х			Х				Х		Х		
	Human Factors in Design					х										х	х						х		х				Х		х		l
	Design Projects & Prototyping	х		х	х	х				х	Х	х	х	х	х	х	х	х	х	х	х	Х			Х		х		Х	Х			1
	Digital Design Tools and Al	Х		х	Х	х	х		х	х	х	х	х	х	х	х			х			Х	Х	х	Х	х	х		Х	Х	х		

### A - Subject Knowledge and Understanding

This programme provides opportunities for students to develop and demonstrate knowledge and understanding of:

- 1. the design process at a professional level;
- 2. science, mathematics and technology and a well-developed ability to apply them to Product Design problems;
- 3. selecting, testing and making appropriate use of materials, processes and manufacturing techniques;
- 4. industry-standard design, modelling and visualisation tools and other appropriate creative software;
- 5. visual, psychology, ergonomic design issues and an ability to apply them appropriately to Product Design;

### C - Subject-specific/Practical Skills

This programme provides opportunities for students to:

- 1. produce high quality prototypes which, as closely as possible, look like, feel like and work in the same way as a manufactured item;
- 2. use a wide range of tools, techniques and equipment, including appropriate software and rapid prototyping techniques;
- 3. employ appropriate materials, media, techniques, methods, technologies and tools with skill and imagination whilst observing safe working practices;
- 4. undertake laboratory works, test rigs, use laboratory and workshop equipment to generate and evaluate data.

- 6. the skills required to be prepared for continuing personal & professional development;
- 7. the impact of design decisions in a global and societal context, in particular sustainable design and an awareness of UN SD Goals:
- 8. the business environment with respect to ethics, and the benefits and importance of equality, diversity and inclusion (EDI). And with respect to security risk, and the threat to business operations, assets and intellectual property.

5. demonstrate abilities at sketching, drawing, modelling (physical and virtual), and use of CAD in the design of products.

### B - Intellectual Skills

This programme provides opportunities for students to:

- 1. be creative and innovative in solving problems;
- 2. generate ideas, concepts, proposals, solutions or arguments;
- 3. analyse problems logically to arrive at suitable solutions;
- 4. work independently and/or collaboratively in response to set briefs and/or as self-initiated activity;
- 5. take a holistic approach, applying professional judgments, balancing costs, benefits, safety, quality, reliability, appearance and environmental impact;
- 6. focus on criticising and justifying aesthetic and ergonomic attributes of a designed product while considering a sound theoretical approach in enabling the introduction of new and advancing technology:
- 7. evaluate designs, processes and products, and suggest improvements;
- 8. undertake research and analysis of information from a variety of sources.

### D - Transferable Skills

This programme provides opportunities for students to:

- source, navigate, select, retrieve, evaluate, manipulate and manage information from a variety of sources;
- 2. select and employ communication and information technologies;
- 3. articulate ideas and information comprehensibly in visual, oral and written forms:
- 4. interact and work effectively with others, as a leader or member of a team; often through collaboration, collective endeavour and negotiation;
- 5. analyse information and experiences, formulate independent judgments;
- 6. articulate reasoned arguments through reflection, review and evaluation;
- 7. study independently, set goals, identify learning needs, manage their own workloads and meet deadlines:
- 8. develop independence of mind, with intellectual integrity, particularly in respect of ethical issues;
- 9. recognise the importance of lifelong learning, CPD and professional registration.

# **PSRB Output Standard Matrix**

This course has been developed to fully meet the requirements for Registered Product Designer (RProdDes) registration awarded by the Institution of Engineering Designers (IED). See the <a href="IED website">IED website</a> for more information on the learning outcomes.

Programme Name:					BA (Hons) Product Design														
					le numl	ers/n	ames (	where	the o	output	criteria	a state	ments	are ad	dress	ed)			
RProdDes (Bachelor)					Design Communication	Materials and Engineering Fundamentals	Materials and Technology for Design	Design Projects & Prototyping	Human Factors in Design	Manufacturing and Technology	Product Design Tools	Technical Design Projects	Industrial Design Projects	Management and Commercialisation	Design Aesthetics and UX	Human-Centred Design Studies	Innovation and Professional Practice	BA Final Design Project	Final Design Prototype
Count of Learning Outcomes  EQF Level (Year 2 - L5, Bachel - L6)				4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6
Total Count	Core Count	Core Module (Y/N)?		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ
6	6	Design Principles  Design Analysis	R1	Х				Х	Х			Х	Х					Х	
5	5		R2			Х	Х			Х								Х	Х
6	6		R3			Х	Х			Х		Х	Х					Х	
6	6		R4	Х				Χ		Х	Х				Х	X			
2	2		R5						Х							Х			
7	7	Design Principles	R6	Х	Х			Х	Х		Х				Х			X	
7	7	-	R7 R8				\ <u>'</u>	V	Х						Х	Х		Х	
2	2		R9	X			Х	Х			Х	Х	Х					Х	X
2	2	Design Practice	R10									Х		Х				_^_	^_
8	8		R11	Х	х			Х			Х	X	Х	Α.	Х			Х	
2	2	The Designer and Society	R12											х			х		
3	3		R13											х			Х	Х	
3	3		R14							Х				х				Х	
2	2		R15	Х													Х		
2	2		R16														Х	Х	