

University of the West of Scotland
Undergraduate Programme Specification

Session: 2024/25

1	Named Award Title:	BEng (Hons) Computer Aided Design (Single)	
2	Award Title for Each Award:	BSc (Hons) Computer Aided Design BSc Computer Aided Design	
3	Date of Validation / Approval:	March 2019	
4	Details of Cohorts Applies to:	All cohorts entering from Sept 2024	
5	Awarding Institution/Body:	University of the West of Scotland	
6	Teaching Institution:	University of the West of Scotland	
7	Language of Instruction & Examination:	English	
8	Award Accredited By:	N/A	
9a	Maximum Period of Registration:	3 Years Authorised Interruption Guidance notes (uws.ac.uk)	
9b	Duration of Study:	Full Time – 2 years;	
10	Mode of Study:	Full Time	
11	Campus:	Paisley	
12	School:	School of Computing, Engineering and Physical Sciences	
13	Programme Board:	Engineering	
14	Programme Leader:	Dr Parag Vichare	

15. Admission Criteria

Candidates must be able to satisfy the general admission requirements of the University of the West of Scotland as specified in Chapter 2 of the University Regulatory Framework together with the following programme requirements:

SQA National Qualifications:

or GCE

or SQA National Qualifications/Edexcel Foundation

An appropriate HND award with the level of entry and/or credit awarded being subject to the content of the HN programme in a related discipline.

Other Required Qualifications/Experience

Applicants may also be considered with other academic, vocational or professional qualifications deemed to be equivalent.

Further desirable skills pre-application (i.e. to satisfy additional PSRB requirements or other)

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General Overview

Graduates from BSc (Hons) Computer aided Design programme will have a unique blend of skill-sets and ability to apply contemporary computer aided design(CAD) and visualisation solutions and methodologies used in multidisciplinary industrial sectors. It will expose students to creativity and complexity required in diversified design projects. Students will be able to produce creative graphical contents and analyse, tackle multidisciplinary design problems using a new or existing technologies, through methodical investigation, innovation, creativity and change.

Graduates will possess the following defining characteristics: The theoretical design knowledge to develop and visualise product designs using well proven creative and developmental techniques. Successful application of knowledge and contemporary skills to deliver designs using established processes and methods. Effective interpersonal communication skills. Commitment to professional values.

BSc (Hons) Computer aided Design programme is contextually aligned with following Learning Outcomes as outlined by The Institution of Engineering Designers (IED) for Registered Product Designer (RProdDes):

R1 Apply knowledge of Design Methods, Design Management, Product Design Specifications, User-centred and inclusive design, Standards, Design codes of Practice and Processes to broadly defined problems.

R2 Apply knowledge of mathematical, scientific, and engineering principles to broadly defined problems. Have a practical knowledge of materials, manufacturing, assembly and product quality

R3 Apply knowledge of Sustainable Design to broadly defined problems including disassembly, repair, recycling. Some knowledge will be informed by current developments.

R4 Analyse and evaluate broadly defined problems design ideas, problem solutions and designed products reaching substantiated conclusions.

R5 Carry out intellectual and practical inquiry to address broadly defined problems, including manipulating information and utilising user feedback.

R6 Utilise broadly defined techniques and practices of conceptual and embodiment design in the creation of novel designs. Use broadly defined creative ideation techniques and problem-solving tools.

R7 Display effective knowledge of aesthetic concepts, anthropometry and usability interface design and ergonomics, using them to create appropriate emotional designs.

R8 Carry out prototyping, including testing and validation, displaying ability to incorporate production and manufacturing knowledge.

R9 Manage product design work including carrying out a significant, individual, complete product design exercise (from conception to physical realisation), taking responsibility for planning and management including deadlines. Plan and record personal professional development and involvement.

R10 Carry out a significant collaborative product design exercise, including liaison with stakeholders and knowledge of team dynamics as a team member.

R11 Demonstrate effective abilities at sketching, drawing, modelling (physical and virtual), and use of CAD in the design of products. Write effective reports.

R12 Use risk management processes to identify, evaluate and mitigate safety and other risks associated with projects or activities. Adopt holistic and proportionate approaches to mitigation of security and cyber-security risks.

R13 Demonstrate knowledge of legal matters relevant to product design including intellectual property and liability.

R14 Apply and evaluate commercial, financial and economic aspects of product design.

R15 Demonstrate knowledge of human resource management, recognising the responsibilities, benefits and importance of supporting equality, diversity and inclusion.

R16 Identify and analyse ethical concerns and make reasoned ethical choices informed by professional codes of conduct.

General Overview of Programme

The current BSc Computer aided Design (BSc CAD) programme is designed as Degree 'top-up' at SCQF Level 9 (Year 3) for students with HND in 3D Design; Computer Aided Draughting and Design; Interior Design; Product Design; Mechanical Engineering; Architectural Design; Jewellery Design; or relevant discipline. This gave potential recruits an entry route into the University system and upon successful completion of the programme, allowed them to undertake further study, or to enter the job market. The programme is highly vocational and aims to prepare students for employment.

This degree will put your creative and technical skills to the test to produce digital models, concepts (2D and 3D designs) and specifications for multidisciplinary design and development projects. It has been developed to meet the needs of industry to enhance your existing qualifications in design, or a related area, to Honours level.

You will use Computer-aided Design, Visualisation and Manufacturing packages, Prototyping systems and ancillary equipment in combination with modern communications technologies. This unique blend of skill-set and knowledge will provide you with a lot of opportunities in industry across Civil, Structural, Architectural, Manufacturing, Product Design and Mechanical engineering.

The teaching and learning methods employed by staff in the delivery of the module portfolio covers a wide range of established and some novel approaches. Lectures and tutorials form the basis for much of the teaching within engineering but 'flipped' classroom and online content, video recording of sessions is now found in all modules. Extensive use is also made of laboratories, seminars, group work, independent learning and demonstrations. Synoptic learning is undertaken in a number of modules within the same level replicating how engineering problems are addressed within industry. One of the main objectives in this area is to keep teaching materials as interesting and as relevant as possible to ensure student enthusiasm for the subjects being presented. Staff make full

use of all technologies when delivering material to students including high quality notes, use of multimedia presentations and use of the internet/electronic technology.

The Engineering group has a policy of using small tutorial groups in key subject areas and either sub-divides cohorts into small groups or increase staff numbers in classes or laboratories. All modules are taught by subject experts with staff making use of materials and topics raised through their professional activities whether prior industrial experience, research KTP, and/or consultancy based. Many case studies and examples of applications are taken from live industrial situations. The School of Computing, Engineering and Physical Sciences has always taken a lead in the use of IT to either deliver material or to supplement and reinforce the traditional teaching and learning approaches. At the Paisley Campus Engineering has its own extensive networks to support all of the area's activity. Students have access to 100+ high specification PC workstations in state of the art air- conditioned laboratories dedicated specifically for Engineering students. Indeed, all modules are now supported electronically, providing notes, copies of lectures, models, sample simulations etc. A VLE (Virtual Learning Environment) is used by all staff as both a repository for material and a social learning platform and is used for online formative and summative assessment, assessment submissions and discussion forums. A variety of assessment methods are used throughout programmes. These range from class tests, laboratory reports, design assignment, individual and group presentations and formal open-book examinations. Both group project work and individual project work are incorporated into the curriculum so that students develop the learning skills associated with group and independent working as well as giving presentations on their work. Formative feedback and constructive comments are given to the student on their coursework submissions. Anonymous marking is undertaken, where possible. Mixtures of formative and summative methods are used in the assessment of student performance within the group. It is recognised that while most of the assessments are summative in nature formative assessment is also found in all modules, delivering timely and regular feedback.

The programme and programme specification has been reviewed and updated taking cognisance of the University's Curriculum Framework principles as discussed below.

Student Centred

Reflection on learning is inherent and credit bearing in all years of the programme.

Advanced entry to the programme is available where RPL/CPD/informal learning is evidenced.

Access to student support (programme team, peers and wider University student services) is promoted at induction, through personal tutoring/year/programme leader, group activity in all levels of the programme, SCQF Level appropriate employability and careers sessions and within modules evident in entry level of the programme.

Engagement and progress is monitored by module coordinators, this takes the form of VLE analytics, assessment engagement, on-campus activity engagement and formative and summative assessment engagement. Monthly meetings with year leads and programme leads allows the programme teams to respond appropriately and quickly both from a student and programme learning, teaching and assessment perspective.

Co-creation of curriculum is challenging due to the need to demonstrate that Engineering Council learning outcomes are met by all students. However, within a number of modules

students can determine the direction of their learning with boundaries set to ensure the assessment is fit for purpose. [1]

Flexible and Hybrid

Hybrid delivery of the programme is demonstrated through the recording of accessible lecture content and on-campus tutorial, laboratory or group work activity. The timetables are produced to ensure on-campus learning time is efficiently maximised.

Simple and Coherent

The programme has multiple exit award points as demonstrated in the programme specification and students are supported/counselled appropriately by the programme leader after examiners' panels.

Programme teams are aware of the programme learning outcomes through ongoing programme development meetings. The importance of the modular outcomes and assessment approaches on the overall programme outcomes and Engineering Council's learning outcomes, student feedback and sustainability are core to the discussions at these meetings. Students are made aware of the programme learning outcomes at induction, module introductions and programme development workshops. A capstone module is present at L10- Final Year Project.

Assessment, wherever possible, follows real-world activities examination is required as part of the accreditation requirements however this follows an open-book approach providing time-bound, individually assessed, unfamiliar problems- assessing content and developing a number of important meta-skills. All modules have inherent tutorial activity with formative assessment providing concurrent feedback allowing implementable feed-forward.

Meta-skills are embedded in the programme include digital skills, creativity, critical thinking, innovation, and entrepreneurship and social enterprise.

Students are assessed in a variety of ways and settings including, practical, written, oral, time-bound, group, real-world environment, creative, critical thinking and this broad approach to assessment provides a number of transferrable skills to be developed whilst assessing.

Inclusivity

The programme team have reviewed the content of the AdvanceHE Anti-Racist Curriculum Project [2] and are aware that in this regard 'curricular reform is a continual process rather than a final destination'. With this in mind, further institutional guidance is welcomed to ensure that every effort has been made to safeguard that the curriculum is and will continue to be anti-racist and inclusive for all.

Sustainability

Wherever possible modules are shared with other engineering programmes to maximise efficiency with specific programme contextualised components of learning, teaching and assessment. All modules have been reviewed to ensure they meet the norms around contact hours.

	<p>[1]- https://www.uws.ac.uk/media/8142/assessment-handbook-2021-22.pdf</p> <p>[2]- https://www.advance-he.ac.uk/anti-racist-curriculum-project</p> <p>During the course of this programme students will develop their UWS Graduate Attributes. Academic Universal and Work-ready attributes: Students will gain knowledge and understanding of this important discipline as well as having the opportunity to develop a broad range of ICT, technical and transferable skills.</p>
17	<p>Graduate Attributes, Employability & Personal Development Planning</p>
	<p>UWS' Graduate Attributes focus on academic, personal and professional skills and throughout the programmes that these skills develop graduates who are universally prepared, work-ready and successful. The Engineering and Manufacturing Graduate Apprenticeship programme provides opportunities throughout the levels to enable these skills to be developed and focussed appropriately.</p> <p>BSc (Hons) Computer Aided Design knowledge is assembled throughout the programme and wherever possible digital literacy skills and ability to provide effective solutions is enhanced utilising industry standard appropriate technologies such as Design, Modelling, Manufacturing and Visualisation tools. Most of the undergraduate projects are designed with commercial potential in collaboration with local industry / internal research groups, leading towards long/short term projects and possible employment after graduation.</p> <p>The programme promotes cultural awareness and emotional intelligence with a variety of group exercises developing resilient, ambitious and enterprising leadership qualities whilst ensuring that group members are emotionally and culturally aware and respectful communication and behaviours are the norm. Commercial awareness is linked to various product design activities during the programme ensuring that costs associated with staff, materials, manufacture, in-service and decommissioning are considered when developing transformational/innovative solutions with commercial potential.</p> <p>Ethical awareness and social responsibility is developed throughout and is formalised in final year project studies where School/University ethical approval is sought if required.</p> <p>Links to current University and programme research are promoted through the programme with opportunities for students to become involved in aspects of the research from the earliest opportunity either discretely or as part of an assessment.</p> <p>Employability</p> <p>As a graduate, your wide-ranging skills and experience will be sought by employers within the design, engineering, manufacturing, construction, structural, civil, architectural sectors. Roles include Design, CAD/CAM, Manufacturing, Process Planning and Product Design Engineer and Civil/Structural CAD Technician. Graduates from this programme have progressed onto post-graduate study in Computer Aided Mechanical Engineering, Digital Construction Management and Advanced Manufacturing or similar academic streams.</p> <p>Personal Development Planning</p> <p>Across the programme of study, the Personal Development Planning (PDP) process gives the opportunity for engagement of students with a set of core activities, which include</p>

	<ul style="list-style-type: none"> • Reflection on prior experience, personal attributes and goals; • Audits of skills and feedback on their development; • Opportunities and guidance on the recording of achievements; • Identification/development of learning goals; • Opportunities to reflect on this material and to gain feedback; • Opportunities (and guidance) on presentation of evidence for different audiences and planning of future • Learning and career development (such as CVs); • Maintaining an effective PDP record. <p>The School has set up a group to co-ordinate and improve the effectiveness of the delivery of PDP and students are encouraged to maintain an effective PDP record using e-portfolios.</p>
18	Work Based Learning/Placement Details
19	Attendance and Engagement
	<p>In line with the Student Attendance and Engagement Procedure, Students are defined as academically engaged if they are regularly engaged with timetabled teaching sessions, course-related learning resources including those in the Library and on the VLE, and complete assessments and submit these on time.</p> <p>For the purposes of this programme, academic engagement equates to the following:</p> <p>Students are expected to attend all timetabled sessions and to engage with all formative and summative assessment elements of all the modules that are included in the programme specification as core modules as well as any optional module when applicable.</p>
20	Equality and Diversity
	<p>The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code.</p> <p>Please detail any specific arrangements for this programme. This should be considered and not just refer the reader to the UWS Equality and Diversity policy.</p> <p>Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on inclusive learning and teaching practice. Specialist assistive equipment, support provision and adjustment to assessment practice in accordance with the University's</p>

	<p>policies and regulations. More information on the University's EDI policies can be accessed at: https://www.uws.ac.uk/about-uws/uws-commitments/equality-diversity-inclusion/ (N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School).</p>
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Programme structures and requirements, SCQF level, term, module name and code, credits and awards ([Chapter 1, Regulatory Framework](#))

21	Learning Outcomes (Maximum of 5 per heading)		
	Outcomes should incorporate those applicable in the relevant QAA Benchmark statements.		
	SCQF LEVEL 7		
	Learning Outcomes (Maximum of 5 per heading)		
Knowledge and Understanding			
A1			
Practice - Applied Knowledge and Understanding			
B1			
Communication, ICT and Numeracy Skills			
C1			
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation			
D1			
Autonomy, Accountability and Working With Others			
E1			

Learning Outcomes - Level 7 Core Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

Footnotes for Core Modules:

N/A

Learning Outcomes - Level 7 Optional Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

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Footnotes for option modules

N/A

22 a	Level 7 Criteria for Progression and Award

	Level 8 Learning Outcomes (Maximum of 5 per heading)
Knowledge and Understanding	
A1	
Practice - Applied Knowledge and Understanding	
B1	
Communication, ICT and Numeracy Skills	
C1	
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	
D1	
Autonomy, Accountability and Working With Others	
E1	

Learning Outcomes - Level 8 Core Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

Footnotes for Core Modules:

N/A

Learning Outcomes - Level 8 Optional Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

Footnotes for option modules

N/A

22b	Level 8 Criteria for Progression and Award

SCQF LEVEL 9 Learning Outcomes (Maximum of 5 per heading)	
Knowledge and Understanding	
A1	Demonstrate a broad knowledge and understanding of the essential design principals and techniques of digital product design using Computer Aided Design, modelling and visualisation Methods.
A2	Demonstrate an understanding of material properties and testing when selected for design and multi-disciplinary engineering applications.
A3	Demonstrate a capability to analyse complex, ill-defined problems using design analysis methodologies and suggest feasible design solutions.
A4	Demonstrate a knowledge and understanding of contemporary design practices such as collaborative product development, design data management, prototyping technology, project and risk management for multi-disciplinary industrial sectors.
Practice - Applied Knowledge and Understanding	
B1	Demonstrate the analysis of broadly-to-ill defined problems to reach substantiated conclusions using design Methods and design management tools.
B2	Demonstrate a capability to produce multi-disciplinary design solution using digital 3D assets production and visualisation methods.
B3	Evaluate the environmental and societal impact of solutions to complex problems and minimise adverse impacts. Use a risk management process to identify, evaluate and mitigate risks (the effects of uncertainty) associated with a particular project or activity.
B4	Undertake the design, testing, data-collection and analysis for multi-disciplinary design and engineering products using contemporary design tools
B5	Select and evaluate technical literature and other sources of information to address complex problems. Use practical laboratory and workshop skills to investigate complex problems.
Communication, ICT and Numeracy Skills	
C1	Demonstrate the ability to apply rendering, visualisation and animation techniques to design problems as a communication aid.
C2	Use different design, modelling, visualisation and product data management tools for product design and development tasks.
C3	Use computer software to develop a rapid prototype to assist in communicating ideas and concepts to potential customers.
C4	Make formal and informal presentations on aspects of the engineering design process.
C5	Communicate effectively on complex engineering matters with technical and non-technical audiences.
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	
D1	Demonstrate digital 3D modelling, visualisation and product data management skills appropriate to Architecture, Construction, Engineering (ACE)industry.

D2	Assess the strengths and weaknesses of different tools for the processing of digital information.
D3	Develop the ability to work independently or as part of a team.
D4	Develop effective technical based communication skills.
Autonomy, Accountability and Working With Others	
E1	Adopt an inclusive approach to engineering practice and recognise the responsibilities, benefits and importance of supporting equality, diversity and inclusion.
E2	Recognise the need for professional and ethical conduct in engineering and awareness of environmental issues.
E3	Function effectively as an individual, and as a member or leader of a team. Communicate effectively on complex engineering matters with technical and non-technical audiences.
E4	Demonstrate knowledge of current professional issues in the ACE and 3D content creation industry.

Learning Outcomes - Level 9 Core Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	
9	ENGG09056	Computer Aided Design 1	20	✓			
8	COMP08013	3D Asset Production 1	20	✓			
9	ENGG09018	Independent Study	20	✓			
9	ENGG09057	Computer Aided Design 2	20		✓		
9	ENGG09054	Building Modelling and Visualisation	20		✓		
9	ENGG09001	Design Prototyping & Testing	20		✓		

Footnotes for Core Modules:

N/A

Learning Outcomes - Level 9 Optional Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

Footnotes for option modules

N/A

22c	Level 9 Criteria for Progression and Award
	<p>Students obtaining 360 credits of which 100 credits are at SCQF 9 from the above programme, plus 20 credits from another module at either SCQF levels 9 or 10 from the Engineering SDG are eligible for the exit award of BSc in Computer Aided Design. The award of distinction can be made to a student obtaining a pass degree as stated in the University Regulations.</p> <p>Links: UWS Regulatory Framework; and Student Experience Policy Statement.</p>

SCQF LEVEL 10 Learning Outcomes (Maximum of 5 per heading)	
Knowledge and Understanding	
A1	Demonstrate an integrated knowledge and understanding of digital design, modelling, visualisation, and data management practices used in Architecture, Construction, Engineering (ACE) industry.
A2	Demonstrate a critical understanding of the concepts of sustainable design, user-centric design, product lifecycle analysis, risk management in ACE industry.
A3	Demonstrate an integrated knowledge and understanding of design verification, validation, manufacturing and testing used in new product design (NPD) and development.
A4	Demonstrate an integrated knowledge and understanding of high-quality material shaders, lighting, rendering and texture maps for a range of 3D assets in order to achieve specified goals in visualisation
Practice - Applied Knowledge and Understanding	
B1	Select and apply appropriate digital design, modelling and visualisation techniques to model multi-disciplinary digital/3D assets, recognising the limitations of the techniques employed. Select and evaluate technical literature and other sources of information to address complex problems.
B2	Design solutions for complex design problems that meet a combination of societal, user, business and customer needs as appropriate. This will involve consideration of applicable health & safety, diversity, inclusion, cultural, societal, environmental and commercial matters, codes of practice and industry standards.
B3	Apply knowledge of design management principles, commercial context, project and change management, and relevant legal matters including intellectual property rights.
Communication, ICT and Numeracy Skills	
C1	Use a wide range of standard software in the planning, execution and control of the design process.
C2	Use dedicated computer assisted methods to present project results to a variety of audiences including peers, academics and industrialists.
C3	Interpret, use and evaluate a wide range of numerical and graphical data.
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	
D1	Demonstrate creative skills using digital technologies in preparing design solutions
D2	Demonstrate the ability to investigate and solve design and engineering problems through the use of computer aided design techniques
D3	Make engineering judgements where data/information is limited

D4	Develop effective technical based communication skills
Autonomy, Accountability and Working With Others	
E1	Exercise autonomy and initiative in the study of an advanced practices and trends in digital design used in Architecture, Construction, Engineering and 3D content creation industry.
E2	Practice in ways which show a clear awareness of own and other roles and responsibilities.
E3	Demonstrate personal development and awareness of professional standards in their chosen field.

Learning Outcomes - Level 10 Core Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	
10	ENGG10086	Design for Manufacturing Processes	20		✓		
10	ENGG10015	Modern Practice in Construction Management	20		✓		
10	ENGG10001	Final Year Project	40	✓	✓		
9	COMP09100	Advanced Texturing, Lighting and Rendering	20	✓			
10	ENGG10085	Computer Aided Design 3	20	✓			

Footnotes for Core Modules:

N/A

Learning Outcomes - Level 10 Optional Modules

SCQF Level	Module Code	Module Name	Credit	Term			Footnotes
				1	2	3	

Footnotes for option modules

N/A

22d	Level 10 Criteria for Award
	<p>To be eligible for the award of BSc Honours degree a candidate must hold 480 credits, including 100 at SCQF 10 from the above programme.</p> <p>The Classification of Honours will be determined by University Regulation framework 3.20-3.24</p> <p>Links: UWS Regulatory Framework; and Student Experience Policy Statement.</p>

23	Regulations of Assessment
	<p>Candidates will be bound by the general assessment regulations of the University as specified in the University Regulatory Framework .</p> <p>An overview of the assessment details is provided in the Student Handbook and the assessment criteria for each module is provided in the module descriptor which forms part of the module pack issued to students. For further details on assessment please refer to Chapter 3 of the Regulatory Framework.</p> <p>To qualify for an award of the University, students must complete all the programme requirements and must meet the credit minima detailed in Chapter 1 of the Regulatory Framework.</p>
24	Combined Studies
	<p>There may be instances where a student has been unsuccessful in meeting the award criteria for the named award and for other more generic named awards existing within the School. Provided that they have met the credit requirements in line with the SCQF credit minima (please see Regulation 1.21), they will be eligible for a Combined Studies award (please see Regulation 1.61).</p> <p>For students studying BA, BAcc, or BD awards the award will be BA Combined Studies.</p> <p>For students studying BEng or BSc awards, the award will be BSc Combined Studies.</p>

Change/Version Control

Changes made to the programme since it was last published:

10/06/2024

L10 modules are updated according to agreed programme restructuring plan in 2022-23.

19/04/2023

New BSc CAD structure is implemented. Major changes in Programme Spec: Overview, L9-10 Outcome and modules

All L10 modules added to core.

23/04/2022

Text demonstrating how the programme aligns with UWS' Curriculum Framework principles added.

L9 Changes:

L9 Outcomes are updated for introducing Engineering management 1 aspects in Year 3.

ENGG09006 Engineering Management 1 module is added to Level 9 T1 (currently it is L10 T1), This module is replacing ENGG08001 Materials & Manufacture (T2). Materials and Manufacture module is kept as an optional for clearing any re-attend students.

ENGG09018 Independent Study (T1) is transferred to T2

ENGG08002 Computer Aided Design CAD and ENGG09011 Analysis and Simulation (currently optional for any clearing any Y2020-21 re-attend students) is removed from BSc CAD programme.

L10 Changes:

L10 Outcomes are updated for introducing Engineering management aspects.

ENGG10018 Advanced Computer Aided Design is made Core module for BSc CAD Programme (currently it is an optional module)

ENGG10008 Engineering Management 2 module will be added to BSc CAD L10 T1 for Year 2023-24. This module will be replacing ENGG09006 Engineering Management

08/07/2020

Honours spec ref to Regulatory Framework 3.20-3.24

27/04/2020

Graduate Attributes added

Level 9 Outcomes

Level 9 module changes: New module ENGG0900X Product design and Data Management will replace current ENGG08002 Computer Aided Design CAD Existing module ENGG08001 Materials & Manufacture from Mechanical Engineering programme will replace ENGG09011 Analysis & Simulation 1

Level 10 Outcomes

Level 10 module changes: ENGG09022 Design for Manufacture with Plastics module will be replaced with ENGG0900 Engineering Management 1. Engineering Management 1 is offered in T1.

ENGG10024 Computer Aided Manufacture CAM will be offered in T2

ENGG10018 Advanced Computer Aided Design will be offered in T1

01/05/2019

Graduate Attributes added

PL name

Date of validation

Engagement and Attendance

04/05/2018

L10 ENGG10010 Manufacturing Operations Mgt 2 will not be offered in Year 2018-19, this will be replaced with ENGG10XXX Manufacturing System Engineering.

03/04/2017

Analysis and Simulation 1 module was core. Now it is Optional at Year 3

Design for manufacture with plastics was core. Now it is Optional at Year 4

These modules will be replaced with more appropriate and relevant modules to BSc CAD Programme next year

Change to recommended option at L10

2014

Updated Subject health review dates + applicable from dates.

Changed references from Blackboard to Moodle - various.