Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

PROGRAMME OF STUDY HANDBOOK

SCHOOL OF ENGINEERING

LEVEL 5

BEng (Hons) Mechanical Engineering
BEng (Hons) Mechanical and Manufacturing Engineering
BEng (Hons) Manufacturing Systems Engineering
BEng (Hons) Materials Science
BSc (Hons) Engineering Management
BEng (Hons) Advanced Manufacturing and Operations

(* All programmes include a 4-year Degree Apprenticeship route)

FACULTY OF SCIENCE AND ART

2026-2027

CONTENTS PAGE

Page No

INTRODUCTION 1

FEEDBACK 1

PROGRAMMES OF STUDY AND PROGRAMME MANAGERS 2

SUPPORT DURING YOUR STUDIES 2

EXTERNAL EXAMINERS 3

ACADEMIC YEAR 2026/27 4

DISCLOSURE AND BARRING SERVICE (DBS) – ENHANCED 5

MODULAR TERMINOLOGY 6

ASSESSMENT 6

- Submitting written work in Welsh 6
- Academic Support Tutor 7
- Extenuating Circumstances 7
- Additional needs in terms of assessment 7
- Academic Appeals 7
- Assessment Regulations 7
- Responsibilities of students in relation to the assessment process 7

VIRTUAL LEARNING ENVIRONMENT (VLE) 9

ASSESSMENT FEEDBACK VIA TURNITIN 10

PROGRAMMES OF STUDY 11

(1) BEng (Hons) Mechanical Engineering 11
(2) BEng (Hons) Mechanical and Manufacturing Engineering 15
(3) BEng (Hons) Manufacturing Systems Engineering 18
(4) BEng (Hons) Materials Science 21
(5) BSc (Hons) Engineering Management 24
(6) BEng (Hons) Advanced Manufacturing and Operations 27

UNIVERSITY ENGAGEMENT POLICY 33

CODES OF CONDUCT 33

ABOUT ACADEMIC INTEGRITY 34

LIBRARY AND LEARNING RESOURCES 36

DIGITAL CREATIVITY AND LEARNING (DCL) 37

IT SERVICE DELIVERY 38
STUDENT SERVICES 39
STUDY SKILLS 39
CAREERS 40
COMPLAINTS 40

INTRODUCTION

This handbook provides you with information about your Programme of Study for the academic year 2026/27. Module descriptors are presented in the accompanying Module Directory document.

The University has made every effort to make the information as full and as accurate as possible, but you should note that minor changes in the organisation of modules between the planning stage and the actual teaching are inevitable. We shall try to keep any such changes to a minimum, and you will receive advance warning in the event of any alteration.

FEEDBACK

Feedback on your programme of study and modules is welcome and important and will help us to improve and enhance your learning experience. You can give feedback in a number of ways: through the academic representatives for your programme of study, through module evaluation questionnaires, through informal meetings with your academic support tutor, teaching staff, or Programme Manager, through focus groups to gain feedback from students on particular issues, or through the Students' Union. If there are issues, then it is important that you share these with us so that we can address them. We would also be grateful if you would let us know about any changes that you think might be helpful if introduced into future handbooks. Your opinion is valued.

PROGRAMMES OF STUDY AND PROGRAMME MANAGERS

This handbook covers the following Programmes of Study. The name and contact details of the Programme Managers are also listed below.

Programme of Study	Programme Manager	E-mail
BEng (Hons) Mechanical Engineering	Arnaud Marotin	arnaud.marotin@uwtsd.ac.uk
BEng (Hons) Mechanical and Manufacturing Engineering		
BEng (Hons) Manufacturing Systems Engineering		
BEng (Hons) Materials Science		
BSc (Hons) Engineering Management		
BEng (Hons) Advanced Manufacturing and Operations		

SUPPORT DURING YOUR STUDIES

A member of staff will be identified at the beginning of the academic year to act as a point of first contact for support issues. Further support can also be accessed through the Student Services department.

EXTERNAL EXAMINERS

All taught Programmes of Study which lead to an award of the University have at least one External Examiner. The principal purposes of the University's external examiner system are to ensure that:

- the standard of each award is maintained at the appropriate level;
- the standards of student performance are comparable with standards on similar programmes or subjects in other UK institutions with which they are familiar;
- the processes for assessment and the determination of awards are sound and fairly conducted.

Students may request a copy of the previous year's External Examiner's Report for their programme of study by contacting the Programme Manager.

The current External Examiners for the Programmes of Study are:

Programme of Study	**External Examiner for 2026/27 (forename/surname)**	**External Examiner for 2025/26 (if different to current)**
BEng (Hons) Mechanical Engineering	Ben Lishman (all programmes) Stephen Magowan (all programmes)	
BEng (Hons) Mechanical and Manufacturing Engineering		
BEng (Hons) Manufacturing Systems Engineering		
BEng (Hons) Materials Science		
BSc (Hons) Engineering Management		
BEng (Hons) Advanced Manufacturing and Operations		

Please note that students are not permitted to make direct contact with the External Examiners without permission and to do so may be considered a disciplinary offence.

ACADEMIC YEAR 2026/27

The academic year 2026/27 will be divided up as follows:

Semester 1:	21/09/26 - 24/01/27
Semester 2:	25/01/27 - 23/05/27

INFORMATION ABOUT YOU AND YOUR PROGRAMME OF STUDY

Information about you and your programme of study is held by the University on a central Student Record System managed by the University Registry. It is essential that the University Registry has an accurate record of your personal details at all times. It is equally important to ensure that you are fully enrolled on the correct Programme of Study and on the correct modules and that you read and agree to the Enrolment Agreement. If your enrolment status is partially enrolled, this means that you have outstanding documents not provided to the University. Please log in to your MyTSD account to check for pending documents and submit the required items as early as possible. You can direct all enrolment related queries to enrolment@uwtsd.ac.uk. The non-completion of enrolment may lead to your withdrawal from the programme. Additionally, as outlined in the student agreement you must ensure that all relevant tuition fees are paid by the due date. Late or non-payment of fees may invoke sanctions from the University, up to and including the non-release of transcripts and withdrawal from the University.

My Student Record / MyTSD

You can view your personal details on MyTSD and make requests to amend data when your circumstances change. It is important to keep your personal details up to date. You can use MyTSD to:

- enrol for the new academic year
- generate a 'Confirmation of enrolment' letter
- generate a council tax exemption letter and/or bank letter
- view enrolment and module registration details
- amend your address
- check your financial information (e.g. fees due)
- submit a programme change request
- apply for 'Extenuating Circumstances'
- apply for student bursaries
- check your module results and examining board decision
- request to withdraw from your studies
- register to attend your graduation ceremony (when applicable)

Failure to keep your personal details up to date can result in a range of problems including:

- delays in obtaining your student loan;
- failure to contact you in an emergency;
- not being able to borrow materials from the Library and Learning Resources
- not being able to use the Information Technology services;
- potential non-compliance with visa regulations.

Please take time to check your enrolment details on MyTSD. The MyTSD portal home page will appear in the language you selected at enrolment (English or Welsh), but it is also possible to toggle to the other language once you have logged in to MyTSD, by clicking on the red button on the homepage.

DISCLOSURE AND BARRING SERVICE (DBS) – ENHANCED

If your programme involves you coming into contact with children or vulnerable adults, you will be required to undertake a DBS check (Enhanced). Further details will be provided by the Student Records and Enrolment Team. All DBS related queries should be directed to dbs@uwtsd.ac.uk.

You will also be asked to complete a formal self-declaration during the enrolment period at the beginning of the academic year, which confirms your criminal conviction status.

MODULAR TERMINOLOGY

Level (of Study):

A level is assigned to each module to define the standard of its academic demand in line with the National Qualifications Framework which incorporates both Further Education and Higher Education.

The level is not necessarily synonymous with a year, though very often Level 4 will be the first year of a Programme of Study, Level 5 will be the second year, and Level 6 will be the third year. The basic characteristics of the relevant levels of study are outlined by the Welsh Government and available on their website:
https://gov.wales/sites/default/files/publications/2018-02/level-descriptors.pdf

Module Credit Rating:

Each module has a credit rating, which indicates how significant it is to your degree. To pass a level of study and either continue or graduate, you need to complete a specific number of credits. A module's credit rating affects its assessment and the hours of learning required.

ASSESSMENT

At the start of each module, tutors will provide on Moodle full details of the means by which you will be assessed in that module. This will include a full assessment brief and guidelines on the criteria that will be used for marking your work as well as clear information about when the assessments are due and the turn-around feedback time for the assessments. It will also detail how you will be able to discuss the feedback on your work and your performance and what to do if you have any questions.

All assessed written coursework needs to be submitted in electronic copy via Turnitin; alternative instructions will be provided by the Programme Manager for any forms of coursework that cannot be submitted via Turnitin.

You will receive confirmation of your assessment marks at the end of each year. Any marks released prior to formal approval by the Examining Board are provisional.

The University offers programmes in both English and Welsh. The normal expectation is that you will be assessed in the same language in which the programme or modules are delivered.

Submitting written work in Welsh

The University is committed to promoting the Welsh language and encourages its students to develop their bilingual skills. The University offers programmes through the medium of both English and Welsh. The University offers many Welsh-medium or bilingual courses, varying from whole courses, individual modules to bilingual provision across modules. By continuing to study your course completely or partly through the medium of Welsh, you will develop your skills in two languages, Welsh and English, which will open doors for you when you leave the University, as more employers than ever before are looking for staff with bilingual skills.

As a student at UWTSD you have a right to submit coursework and sit exams through the medium of Welsh, even if you've chosen to study through the medium of English. Your Programme Manager / Module Lead will ask you at the beginning of the module

whether you wish to submit in Welsh or English. Welsh language assignments will be assessed in exactly the same way as those written in English.

Academic Support Tutor
Some courses will offer an academic support tutor, and you have the right to express your choice to have a Welsh-speaking tutor to facilitate this. Should you wish to express this, contact the Programme Manager / Module Lead as soon as possible, to allow time for the Faculty to make the appropriate arrangements.

Extenuating Circumstances
If you believe that there are extenuating circumstances which may have adversely affected your ability to complete coursework or examinations, you should follow the University's procedures for Extenuating Circumstances for Taught Provision, which can be found on the Academic Office section on the University's website and forms part of the *Mitigating Circumstances Policy* associated with Chapter 12 of the Academic Quality Handbook:
https://www.uwtsd.ac.uk/academic-quality-handbook

Additional needs in terms of assessment
If you have any additional needs in terms of assessment, it is your responsibility to liaise with Student Services regarding those needs at the start of the academic year, so that a Statement of Compensatory Measures can be drafted in line with the University's procedures for assessment of students with additional needs: https://www.uwtsd.ac.uk/experience-facilities/student-support-wellbeing/disability-support

Academic Appeals
Information about how to appeal is provided in the 'Academic Appeal Procedure' which forms part of the *Academic Appeal Policy* associated with Chapter 12 of the Academic Quality Handbook, and in supporting documentation published on the Academic Office section on the University's website:
https://www.uwtsd.ac.uk/academic-quality-handbook

Additional advice is available from the Students' Union. It is very important that you note carefully the grounds on which appeals may be made and submit your appeal on the appropriate form because incomplete or ineligible appeals cannot be processed.

Assessment Regulations
The rules and regulations that govern the assessment of your Programme of Study are available in Chapters 6 and 7 of the University's Academic Quality Handbook, a copy of which is available on the Academic Office section of the website:
https://www.uwtsd.ac.uk/academic-quality-handbook

Responsibilities of students in relation to the assessment process
You are responsible for ensuring that:

i) You are correctly enrolled on your programme of study (including re-enrolment for each academic year after initial enrolment).
ii) You read and understand the information provided about how you will be assessed, how your final award will be determined, and the action to take in the event that you experience difficulties relating to assessment.
iii) You attempt every assessment component of a module.
iv) You attend examinations and other assessment events, including re-examination and re-assessment events, as required; and that you are available to attend oral examinations if required to do so within the published dates of terms or semesters, or other date notified to you in advance.

v) You submit work for assessment as required and in accordance with the required format and deadline.
vi) You inform your Programme Manager or Student Services of any disability or long-term impairment which might require special provisions for assessment.
vii) You familiarise yourself with the University's definition of academic misconduct and undertake assessments in a manner that does not attempt to gain unfair advantage.
viii) You follow the prescribed procedures in the event that you experience extenuating circumstances or wish to appeal against the decision of an Examining Board.
ix) You keep copies of all drafts of work presented or submitted for assessment wherever feasible.
x) You make your work available for sampling for external examining purposes.

VIRTUAL LEARNING ENVIRONMENT (VLE)

Moodle is the University's Virtual Learning Environment (VLE). The VLE is used to support learning and teaching. It can be accessed by **enrolled** students from anywhere in the world using the internet and a web browser.

Some of Moodle's features allow students to:

- Access course materials such as video lectures, documents, resource / reading lists and participating in eLearning activities
- Facilitate communication between students and tutors - this may also take place via Microsoft Teams
- Support group tasks and collaborative learning activities.
- Take online assessments with automatic marking and feedback facilities
- Submit written assessments via Turnitin and video assessments via Panopto and receive grades and feedback
- Access academic skills development and digital content.

Moodle can be used for administration tasks such as:

- Displaying announcements e.g. lecture venue changed
- Messaging student cohorts, and organising students into cohort groups
- Tracking student engagement and activity completion progress in modules.
- Administration of online surveys, such as module evaluation questionnaires.

How to Access:

You can access Moodle in 3 different ways:

1. From Hwb - Access your Hwb dashboard either by logging into a campus PC and opening Microsoft Edge browser, or accessing https://hwb.uwtsd.ac.uk from any browser on an internet-connected device. Click on the Moodle tile.
2. From the University Website - navigate to https://uwtsd.ac.uk/ and select Current Students (top right side of screen) and then Moodle.
3. URL Input - Open any browser on an internet-connected device and navigate to https://moodle.uwtsd.ac.uk

If you are already signed into the Hwb or Office 365 you should be automatically signed into Moodle when you connect; if not log in using your Network username and password which are the same as used to access a campus PC.

If you are missing any modules from your Moodle homepage, please contact your **lecturers** to ask if they use Moodle. Please note it can take 24hrs for enrolment data to feed into Moodle. If you have problems finding resources (timetables, lecture notes, assignment briefs etc.) please contact the **lecturer** that delivers the course/module.

For any technical issues or error messages contact the **IT Service Desk** via:
Web: ServiceNow
Tel: 0300 500 5055
Or visit https://www.uwtsd.ac.uk/it
In any correspondence, please include your name and username (your student number) together with details of your issue, and include screenshots of any error messages

Further information on using online and digital resources can be found at https://digitallearning.uwtsd.ac.uk/

ASSESSMENT FEEDBACK VIA TURNITIN

For feedback provided through Turnitin, there are four areas to get your feedback: general comments in the comments box, audio feedback, in-line comments within the body of your written work, and the marking rubric.

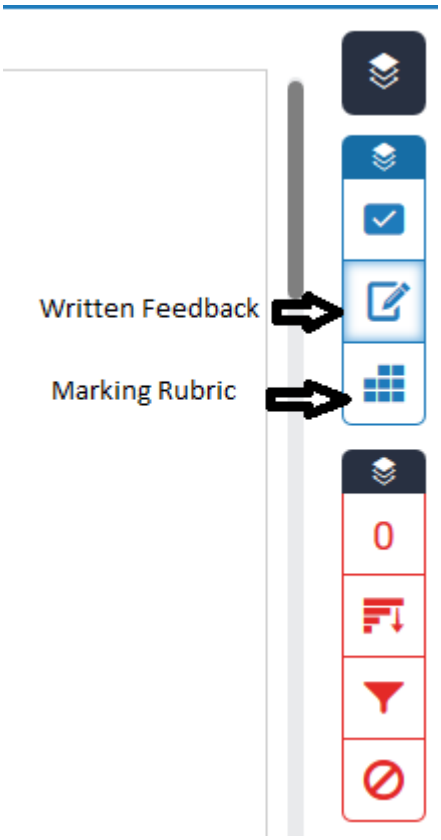
Written and audio feedback will comment on the overall work.

In-line comments provide feedback about specific elements within the body of the text.

The marking rubric will focus on how the piece of work meets the criteria listed in the relevant rubric.

The marking rubric does not give a mathematically calculated result based on the sum of individual components, but is used holistically to help determine the mark.

Written Feedback and the Marking Rubric can be found by clicking the buttons as shown when you view your submitted assignment in Turnitin.



PROGRAMMES OF STUDY

(1) BEng (Hons) Mechanical Engineering

Programme Learning Outcomes

Science and Mathematics (SM)

Graduates will:

- Apply mathematical and scientific principles to model, analyse, and solve mechanical engineering problems.
- Use numerical and computational methods to support design, simulation, and optimisation of mechanical systems.

Engineering Analysis (EA)

Graduates will:

- Critically analyse mechanical systems using theoretical, computational, and experimental approaches.
- Evaluate system performance, reliability, and safety using data-driven methods and engineering judgement.
- Assess failure modes and risk in mechanical components and assemblies.

Design and Innovation (DI)

Graduates will:

- Develop creative and sustainable engineering solutions to real-world problems.
- Apply CAD tools, simulation software, and design methodologies to produce and evaluate mechanical designs.
- Integrate emerging technologies and materials into engineering solutions.

The Engineer and Society (ES)

Graduates will:

- Evaluate the ethical, legal, and environmental implications of engineering decisions.
- Ensure compliance with relevant standards, regulations, and codes of practice.
- Promote inclusive, accessible, and responsible engineering practices.

Engineering Practice (EP)

Graduates will:

- Apply practical skills and experimental techniques to test and validate engineering solutions.
- Use modern engineering tools, instrumentation, and digital technologies in professional contexts.
- Demonstrate competence in workplace-based projects, drawing on real-world engineering experience.

Additional General Skills (AG)

Graduates will:

- Communicate technical information effectively through reports, presentations, and digital media.
- Collaborate in multidisciplinary teams, applying structured problem-solving and decision-making strategies.
- Engage in lifelong learning and professional development, preparing for progression toward Chartered Engineer (CEng) status.

Programme Learning Outcomes by Award

To support progression and recognise achievement, the programme includes the following awards:

Main Award: BEng (Hons) Mechanical Engineering

At **Level 6**, graduates demonstrate advanced technical competence, professional readiness, and leadership potential.

Key Competencies:

- Develop and implement innovative engineering solutions to complex mechanical challenges.
- Lead and manage engineering projects, ensuring compliance with industry standards and best practices.
- Apply critical thinking and strategic decision-making to support innovation and continuous improvement.

Exit Award 1: DipHE Mechanical Engineering

At **Level 5**, students build on foundational knowledge to develop applied problem-solving and design skills.

Key Competencies:

- Apply engineering analysis techniques to evaluate mechanical systems and processes.
- Develop detailed designs and prototypes using appropriate tools and materials.
- Interpret experimental and workplace data to refine engineering solutions.

Exit Award 2: CertHE Mechanical Engineering

At **Level 4**, students establish a solid foundation in core engineering principles and practices.

Key Competencies:

- Understand fundamental concepts in mechanics, thermodynamics, and materials science.
- Use basic analytical and computational methods to solve engineering problems.
- Create simple CAD models and conduct basic experiments or workplace-based investigations.

Summary Table of Awards

Award	Exit Level	Key Focus Areas
BEng (Hons)	Level 6	Advanced mechanical systems, leadership, innovation, and professional readiness (CEng).
DipHE	Level 5	Applied mechanical design, system analysis, and problem-solving.
CertHE	Level 4	Core mechanical principles, practical skills, and foundational engineering knowledge.

Level 5

All Level 5 students must normally pursue 120 credits at Level 5. The credit rating of each module is specified in the module details.

Modules

PROGRAMME STRUCTURE

Structure: Part-time study / Degree Apprenticeship – BEng (Hons) Mechanical Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 2	**Level 5**	**Semester 2**	**Feb to May**
ACMA5026	Engineering Mathematics 2	Compulsory	10
Year 2	**Level 5**	**Semester 2 & 3**	**Feb to Jul**
ACMA5033	Manufacturing Design and Sustainable Technology	Compulsory	20
Year 2	**Level 5**	**Semester 3**	**May to Jul**
ACMA5024	Computational Techniques 1	Compulsory	10
Year 3	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMA5001	Control and Automation	Compulsory	20
ACMA5011	Thermofluid Mechanics	Compulsory	20

Pembrokeshire College

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 2	**Level 5**	**Semester 2**	**Feb to May**
ACMA5026	Engineering Mathematics 2	Compulsory	10

Year 2	Level 5	Semester 2 & 3	Feb to Jul
ACMA5033	Manufacturing Design and Sustainable Technology	Compulsory	20
Year 2	**Level 5**	**Semester 3**	**May to Jul**
ACMA5024	Computational Techniques 1	Compulsory	10
Year 3	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMA5001	Control and Automation	Compulsory	20
ACMA5011	Thermofluid Mechanics	Compulsory	20

Please note that delivery schedules/timetabling can be found by accessing your personalised timetable via the My Timetable tile on the Student Hwb.

(2) BEng (Hons) Mechanical and Manufacturing Engineering

Programme Learning Outcomes

Science and Mathematics (SM)

Graduates will:

- Apply mathematical and scientific principles to model, analyse, and solve mechanical and manufacturing engineering problems.
- Use numerical and computational methods to support design, simulation, and optimisation of systems and processes.

Engineering Analysis (EA)

Graduates will:

- Analyse mechanical and manufacturing systems using theoretical, computational, and experimental approaches.
- Evaluate system performance, reliability, and efficiency using data-driven methods and engineering judgement.
- Assess failure modes, risk, and quality control in mechanical components and manufacturing processes.

Design and Innovation (DI)

Graduates will:

- Develop innovative and sustainable engineering solutions for mechanical and manufacturing challenges.
- Apply CAD, CAM, and digital tools to design and optimise components, assemblies, and production systems.
- Integrate emerging technologies such as automation, robotics, and additive manufacturing into engineering practice.

The Engineer and Society (ES)

Graduates will:

- Evaluate the ethical, legal, and environmental implications of engineering decisions.
- Ensure compliance with relevant health, safety, and environmental regulations and standards.
- Promote inclusive and responsible engineering practices that address societal needs.

Engineering Practice (EP)

Graduates will:

- Apply practical skills and experimental techniques to test and validate

engineering solutions.

- Use modern engineering tools, instrumentation, and digital technologies in professional contexts.
- Demonstrate competence in workplace-based projects, drawing on real-world engineering experience.

Additional General Skills (AG)

Graduates will:

- Communicate technical information effectively through reports, presentations, and digital media.
- Collaborate in multidisciplinary teams, applying structured problem-solving and decision-making strategies.
- Engage in lifelong learning and professional development, preparing for progression toward Chartered Engineer (CEng) status.

Programme Learning Outcomes by Award

To support progression and recognise achievement, the programme includes the following awards:

Main Award: BEng (Hons) Mechanical and Manufacturing Engineering

At **Level 6**, graduates demonstrate advanced technical competence, professional readiness, and leadership potential.

Key Competencies:

- Develop and implement innovative engineering solutions to complex mechanical challenges.
- Lead and manage engineering projects, ensuring compliance with industry standards and best practices.
- Apply critical thinking and strategic decision-making to support innovation and continuous improvement.

Exit Award 1: DipHE Mechanical and Manufacturing Engineering

At **Level 5**, students build on foundational knowledge to develop applied problem-solving and design skills.

Key Competencies:

- Apply engineering analysis techniques to evaluate mechanical systems and processes.
- Develop detailed designs and prototypes using appropriate tools and materials.
- Interpret experimental and workplace data to refine engineering solutions.

Exit Award 2: CertHE Mechanical and Manufacturing Engineering

At **Level 4**, students establish a solid foundation in core engineering principles and practices.

Key Competencies:

- Understand fundamental concepts in mechanics, thermodynamics, and materials science.
- Use basic analytical and computational methods to solve engineering problems.
- Create simple CAD models and conduct basic experiments or workplace-based investigations.

Summary Table of Awards

Award	Exit Level	Key Focus Areas
BEng (Hons)	Level 6	Integrated mechanical and manufacturing systems, innovation, and project leadership (CEng).
DipHE	Level 5	Mechanical-manufacturing integration, applied design, and process development.
CertHE	Level 4	Fundamentals of mechanical and manufacturing engineering, with hands-on applications.

Level 5

All Level 5 students must normally pursue 120 credits at Level 5. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Part-time study / Degree Apprenticeship BEng (Hons) Mechanical and Manufacturing Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 2	**Level 5**	**Semester 2**	**Feb to May**
ACMA5026	Engineering Mathematics 2	Compulsory	10
Year 2	**Level 5**	**Semester 2 & 3**	**Feb to Jul**
ACMA5033	Manufacturing Design and Sustainable Technology	Compulsory	20
Year 2	**Level 5**	**Semester 3**	**May to Jul**
ACMA5024	Computational Techniques 1	Compulsory	10
Year 3	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMA5008	Thermofluids and Control	Compulsory	20

ACMB5005	Six Sigma Green Belt	Compulsory	20

Please note that delivery schedules/timetabling can be found by accessing your personalised timetable via the My Timetable tile on the Student Hwb.

(3) BEng (Hons) Manufacturing Systems Engineering

Programme Learning Outcomes

Science and Mathematics (SM)

Graduates will:

- Apply mathematical and scientific principles to model and analyse manufacturing and control systems.
- Use statistical and computational methods to support process control, automation, and optimisation.

Engineering Analysis (EA)

Graduates will:

- Analyse dynamic systems and control loops using theoretical and simulation-based approaches.
- Evaluate system performance, reliability, and stability in automated manufacturing environments.
- Assess risk, failure modes, and process variability in control and production systems.

Design and Innovation (DI)

Graduates will:

- Design and implement control strategies for manufacturing systems using PLCs, embedded systems, and simulation tools such as MATLAB.
- Apply CAD/CAM and digital tools to develop and optimise automated production lines.
- Integrate emerging technologies such as robotics and Industry 4.0 into manufacturing system design.

The Engineer and Society (ES)

Graduates will:

- Evaluate the ethical, legal, and environmental implications of automation and control in manufacturing.
- Ensure compliance with safety and regulatory standards in control systems.
- Promote inclusive and responsible engineering practices that address societal and global challenges.

Engineering Practice (EP)

Graduates will:

- Apply practical skills in control systems integration, instrumentation, and diagnostics.
- Use modern engineering tools and digital platforms to monitor, test, and validate manufacturing systems.
- Demonstrate competence in delivering workplace-based engineering projects with measurable impact.

Additional General Skills (AG)

Graduates will:

- Communicate technical information clearly and effectively through reports, presentations, and digital media.
- Collaborate in multidisciplinary teams, applying structured problem-solving and decision-making strategies.
- Engage in lifelong learning and professional development, preparing for Chartered Engineer (CEng) status.

Programme Learning Outcomes by Award

To support progression and recognise achievement, the programme includes the following awards:

Main Award: BEng (Hons) Manufacturing Systems Engineering

At **Level 6**, graduates demonstrate advanced technical competence, professional readiness, and leadership potential.

Key Competencies:

- Develop and implement innovative engineering solutions to complex mechanical challenges.
- Lead and manage engineering projects, ensuring compliance with industry standards and best practices.
- Apply critical thinking and strategic decision-making to support innovation and continuous improvement.

Exit Award 1: DipHE Manufacturing Systems Engineering

At **Level 5**, students build on foundational knowledge to develop applied problem-solving and design skills.

Key Competencies:

- Apply engineering analysis techniques to evaluate mechanical systems and processes.
- Develop detailed designs and prototypes using appropriate tools and materials.
- Interpret experimental and workplace data to refine engineering solutions.

Exit Award 2: CertHE Manufacturing Systems Engineering

At **Level 4**, students establish a solid foundation in core engineering principles and

practices.

Key Competencies:

- Understand fundamental concepts in mechanics, thermodynamics, and materials science.
- Use basic analytical and computational methods to solve engineering problems.
- Create simple CAD models and conduct basic experiments or workplace-based investigations.

Summary Table of Awards

Award	Exit Level	Key Focus Areas
BEng (Hons)	Level 6	Advanced manufacturing systems, digital transformation, and operational excellence (CEng).
DipHE	Level 5	Applied manufacturing process optimisation, systems modelling, and production planning.
CertHE	Level 4	Core manufacturing systems, engineering fundamentals, and practical modelling skills.

Level 5

All Level 5 students must normally pursue 120 credits at Level 5. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Part-time study / Degree Apprenticeship – BEng (Hons) Manufacturing Systems Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 2	**Level 5**	**Semester 2**	**Feb to May**
ACMA5026	Engineering Mathematics 2	Compulsory	10
Year 2	**Level 5**	**Semester 2 & 3**	**Feb to Jul**
ACMA5033	Manufacturing Design and Sustainable Technology	Compulsory	20
Year 2	**Level 5**	**Semester 3**	**May to Jul**
ACMA5024	Computational Techniques 1	Compulsory	10
Year 3	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMA5001	Control and Automation	Compulsory	20
ACMB5005	Six Sigma Green Belt	Compulsory	20

Please note that delivery schedules/timetabling can be found by accessing your personalised timetable via the My Timetable tile on the Student Hwb.

(4) BEng (Hons) Materials Science

Programme Learning Outcomes

<u>Main Award: BEng (Hons)</u>

Knowledge and understanding (KU)

KU1	Demonstrate a comprehensive understanding of the structure, properties, processing, and performance of a wide range of engineering materials.
KU2	Explain the principles of materials selection, enhancement, and degradation in relation to environmental and mechanical performance.
KU3	Apply knowledge of sustainable engineering practices, including lifecycle analysis and recycling, to materials design and manufacturing.
KU4	Describe and evaluate key computational, mathematical, and scientific principles underpinning materials science and engineering.
KU5	Understand the principles of engineering management, including project planning, risk assessment, and quality assurance in materials-related industries.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Cognitive (thinking) skills (CS)

CS1	Analyse and interpret experimental and simulation data to draw valid conclusions about materials behaviour and performance.
CS2	Critically evaluate materials processes and systems, considering technical, economic, and environmental factors.
CS3	Formulate and justify solutions to complex engineering problems using appropriate modelling and analytical techniques.
CS4	Integrate knowledge from multiple disciplines to design and assess materials for specific engineering applications.
CS5	Reflect on personal and professional development through project work and collaborative learning.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Practical skills (PS)

PS1	Safely operate and interpret results from a range of materials testing and characterisation equipment.
PS2	Design, conduct, and report on laboratory experiments and simulations related to materials processing and performance.
PS3	Apply appropriate joining, machining, and treatment techniques to modify material properties for engineering use.
PS4	Use computational tools and software to model materials behaviour and simulate engineering processes.
PS5	Conduct failure and defect analysis using appropriate laboratory and analytical techniques.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Key skills (KS)

KS1	Communicate technical information effectively through written reports, oral presentations, and digital media.
KS2	Work independently and collaboratively in multidisciplinary teams to solve engineering problems.
KS3	Manage time, resources, and information effectively to meet academic and professional deadlines.
KS4	Apply numerical and IT skills to analyse data, develop models, and support engineering decisions.
KS5	Demonstrate awareness of ethical, environmental, and societal responsibilities in engineering practice.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

<u>Intermediate/Exit Awards</u>

Exit Award 1: Diploma of Higher Education (DipHE)

Knowledge and understanding (KU)

KU1	Demonstrate knowledge of the structure, properties, and applications of common engineering materials.
KU2	Explain key principles of materials processing, sustainability, and environmental impact.
KU3	Apply mathematical and scientific concepts to materials-related problems.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Cognitive (thinking) skills (CS)

CS1	Analyse experimental and numerical data to identify trends and draw conclusions.
CS2	Evaluate materials processes and performance using established techniques.
CS3	Apply logical reasoning to solve structured engineering problems.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Practical skills (PS)

PS1	Use laboratory equipment to carry out standard materials testing procedures.
PS2	Record, analyse, and report experimental results accurately.
PS3	Apply basic computational tools to support engineering analysis.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Key skills (KS)

KS1	Communicate technical information clearly in written and oral formats.
KS2	Work effectively in teams to complete project-based tasks.

KS3	Manage time and resources to meet academic deadlines.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Exit Award 2: Certificate of Higher Education (CertHE)

Knowledge and understanding (KU)

KU1	Describe the basic structure and properties of engineering materials.
KU2	Recognise the role of materials in sustainable engineering practices.
KU3	Understand fundamental mathematical and scientific principles relevant to materials science.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Cognitive (thinking) skills (CS)

CS1	Interpret simple data sets and draw basic conclusions.
CS2	Apply standard methods to solve routine engineering problems.
CS3	Demonstrate awareness of the relationship between materials properties and performance.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Practical skills (PS)

PS1	Follow instructions to carry out basic laboratory procedures.
PS2	Record and present experimental observations clearly.
PS3	Use introductory software tools for data analysis and simulation.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Key skills (KS)

KS1	Communicate ideas and findings using appropriate formats.
KS2	Participate in group activities and contribute to shared goals.
KS3	Organise study activities and meet set deadlines.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Level 5

All Level 5 students must normally pursue 120 credits at Level 5. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Part-time study / Degree Apprenticeship BEng (Hons) Materials Science

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 2	**Level 5**	**Semester 2**	**Feb to May**
ACMA5026	Engineering Mathematics 2	Compulsory	10
Year 2	**Level 5**	**Semester 2 & 3**	**Feb to Jul**
ACMA5035	Materials in the Environment	Compulsory	10
ACMA5030	Laboratory Skills for Materials 2	Compulsory	10
Year 2	**Level 5**	**Semester 3**	**May to Jul**
ACMA5024	Computational Techniques 1	Compulsory	10
Year 3	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMB5005	Six Sigma Green Belt	Compulsory	20

Please note that delivery schedules/timetabling can be found by accessing your personalised timetable via the My Timetable tile on the Student Hwb.

(5) BSc (Hons) Engineering Management

Programme Learning Outcomes

Main Award: BSc (Hons)

Knowledge and understanding (KU)

KU1	Demonstrate comprehensive knowledge of engineering materials, manufacturing technologies, and business operations.
KU2	Explain the principles of finance, quality management, and organisational behaviour in engineering contexts.
KU3	Apply knowledge of sustainable practices and environmental engineering to industrial operations.
KU4	Understand strategic, procurement, and risk management principles in engineering management.
KU5	Evaluate the role of data analysis and computational tools in decision-making and performance improvement.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Cognitive (thinking) skills (CS)

CS1	Analyse complex engineering and management problems using appropriate tools and methodologies.

CS2	Critically evaluate business processes and propose improvements based on lean and six sigma principles.
CS3	Integrate technical and managerial knowledge to develop sustainable and efficient solutions.
CS4	Assess the impact of change and risk in engineering projects and operations.
CS5	Reflect on personal and professional development through independent and group projects.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Practical skills (PS)

PS1	Apply data analysis and simulation techniques to solve engineering management problems.
PS2	Use computational tools to model and optimise manufacturing and logistics systems.
PS3	Conduct performance evaluations and implement quality improvement initiatives.
PS4	Demonstrate effective project planning and execution in engineering contexts.
PS5	Apply negotiation and procurement strategies in supply chain management.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Key skills (KS)

KS1	Communicate technical and managerial information effectively in various formats.
KS2	Collaborate in multidisciplinary teams to achieve project goals.
KS3	Manage time, resources, and information efficiently.
KS4	Use IT and numerical skills to support engineering management decisions.
KS5	Demonstrate ethical awareness and responsibility in professional practice.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Intermediate/Exit Awards

Exit Award 1: Diploma of Higher Education (DipHE)

Knowledge and understanding (KU)

KU1	Demonstrate knowledge of materials, manufacturing systems, and business operations.
KU2	Explain key principles of finance, quality, and sustainability in engineering.
KU3	Apply basic data analysis and computational techniques to engineering problems.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Cognitive (thinking) skills (CS)

CS1	Analyse structured problems using standard engineering and management methods.
CS2	Evaluate business processes and suggest improvements.
CS3	Apply logical reasoning to solve practical engineering management challenges.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Practical skills (PS)

PS1	Use standard tools for data analysis and simulation.
PS2	Support quality and performance improvement activities.
PS3	Contribute to project planning and team-based tasks.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Key skills (KS)

KS1	Communicate technical and business information clearly.
KS2	Work effectively in teams.
KS3	Manage academic tasks and meet deadlines.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

<u>Exit Award 2: Certificate of Higher Education (CertHE)</u>

Knowledge and understanding (KU)

KU1	Describe basic concepts in materials, manufacturing, and business operations.
KU2	Recognise the importance of sustainability and quality in engineering.
KU3	Understand fundamental principles of data analysis and finance.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Cognitive (thinking) skills (CS)

CS1	Interpret simple data and draw basic conclusions.
CS2	Apply standard methods to solve routine problems.
CS3	Demonstrate awareness of business and engineering interactions.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Practical skills (PS)

PS1	Follow instructions to use basic tools and techniques.
PS2	Record and present data accurately.
PS3	Participate in team-based learning activities.

Each of the above PLOs is covered by at least 2 modules at the appropriate level

(taking into account individual patterns of study)

Key skills (KS)

KS1	Communicate ideas using appropriate formats.
KS2	Contribute to group tasks.
KS3	Organise study activities and meet deadlines.

Each of the above PLOs is covered by at least 2 modules at the appropriate level (taking into account individual patterns of study)

Level 5

All Level 5 students must normally pursue 120 credits at Level 5. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Part-time study / Degree Apprenticeship BEng (Hons) Engineering Management

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 2	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMA5017	Managing Change	Compulsory	10
ACMA5020	Supply Chain and Logistics Operations	Compulsory	20
Year 2	**Level 5**	**Semester 2**	**Feb to May**
ACMA5013	Capacity Planning	Compulsory	10
Year 2	**Level 5**	**Semester 2 & 3**	**Feb to Jul**
ACMA5019	Procurement Strategies	Compulsory	10
Year 2	**Level 5**	**Semester 3**	**May to Jul**
ACMA5024	Computational Techniques 1	Compulsory	10
Year 3	**Level 5**	**Semester 1**	**Sep to Feb**
ACMB5005	Six Sigma Green Belt	Compulsory	20

Please note that delivery schedules/timetabling can be found by accessing your personalised timetable via the My Timetable tile on the Student Hwb.

(6) BEng (Hons) Advanced Manufacturing and Operations

Programme Learning Outcomes

Main Award: BEng Advanced Manufacturing and Operations

Underpinning Mathematics, Science and Associated Disciplines (MSAD)

MSAD1	Demonstrate their knowledge and understanding of scientific principles and methodology necessary to underpin their education in manufacturing and operations and associated disciplines, to enable appreciation of its operational context and to support their understanding of future developments and technologies.
MSAD2	Demonstrate their knowledge and understanding of mathematical principles necessary to underpin their education in manufacturing and operations and associated disciplines and to enable them to apply mathematical methods, tools and notations proficiently in the analytical and numerical solution of manufacturing and operational problems.
MSAD3	Exhibit an ability to apply and integrate knowledge and understanding of quality improvement to support the study of manufacturing and operation and associated disciplines.

Manufacturing and Operations Analysis (MA)

MA1	Demonstrate their knowledge and understanding of manufacturing and operation principles and the ability to apply them to analyse key operational processes.
MA2	Demonstrate an ability to identify, classify and describe the performance of systems and operations using analytical methods and modelling techniques.
MA3	Demonstrate an ability to apply quantitative methods and computer software relevant to manufacturing and operations and related disciplines, to solve operational problems.
MA4	Demonstrate an understanding of and an ability to apply a systems approach to manufacturing and operations.

Design (D)

D1	Investigate and define a problem and identify constrains including environmental and sustainability limitations, health and safety and risk assessment issues.
D2	Demonstrate an understanding of customer and user needs and the importance of considerations such as aesthetics.
D3	Identify and manage cost drivers.
D4	Use creativity to establish innovative solutions.
D5	Ensure fitness for purpose for all aspects of the problem including production, operation, maintenance and disposal.
D6	Manage the design process and evaluate outcomes.

Economic, Social and Environmental Context (ES)

ES1	Demonstrate their knowledge and understanding of commercial and economic context of engineering processes
ES2	Demonstrate their knowledge of management techniques which may be used to achieve engineering objectives within that context.
ES3	Demonstrate their understanding of the requirement for engineering activities to promote sustainable development.

ES4	Demonstrate an awareness of the framework of relevant legal requirements governing engineering activities, including personnel, health, safety, and risk (including environmental risk) issues.
ES5	Demonstrate their understanding of the need for a high level of professional and ethical conduct in engineering.

Engineering Practice (EP)

EP1	Demonstrate their knowledge of characteristics of particular equipment, processes or products.
EP2	Demonstrate engineering workshop and laboratory skills.
EP3	Demonstrate their understanding of contexts in which manufacturing knowledge can be applied (e.g. operations and management, technology, development, etc.).
EP4	Demonstrate their ability to use technical literature and other information sources.
EP5	Demonstrate an awareness of nature of intellectual property and contractual issues.
EP6	Demonstrate an understanding of appropriate codes of practice and industry standards.
EP7	Demonstrate an awareness of quality issues.
EP8	Demonstrate an ability to work with technical uncertainty.

Intermediate Exit Award 2: Higher National Diploma/Diploma of Higher Education

Underpinning Mathematics, Science and Associated Disciplines (MSAD)

MSAD1b	Demonstrate their knowledge and understanding of scientific necessary to underpin their education in manufacturing and operations and associated disciplines,
MSAD2b	Demonstrate their knowledge and understanding of mathematical principles necessary to support application of key manufacturing and operation principles.

Manufacturing and Operations Analysis (MA)

MA1b	Demonstrate an ability to monitor, interpret and apply the results of analysis in order to bring about continuous improvement
MA2b	Demonstrate an ability to apply quantitative methods in order to understand the performance of systems.
MA3b	Demonstrate an ability to apply a systems approach to manufacturing and operation problems.

Design (D)

D1b	Demonstrate an ability to define a problem and identify constraints such as environmental and sustainability limitations, health, safety risk assessment issues.

D1b	Demonstrate an awareness of customer and user needs and the importance of considerations such as aesthetics.
D3b	Identify and manage cost drivers.
D4b	Manage the design process and evaluate outcomes.

Economic, Social and Environmental Context (ES)

ES1b	Demonstrate their knowledge of management techniques which may be used to achieve manufacturing and operations objectives within that context.
ES2b	Demonstrate their understanding of the requirement for manufacturing and operations activities to promote sustainable development.
ES2c	Demonstrate an awareness of the framework of relevant legal requirements governing manufacturing and operations activities, including personnel, health, safety, and risk (including environmental risk) issues.

Engineering Practice (EP)

EP1b	Demonstrate an understanding of characteristics of particular equipment, processes or products.
EP2b	Demonstrate engineering workshop and laboratory skills.
EP3b	Demonstrate their ability to use technical literature and other information sources.
EP4b	Demonstrate an ability to use appropriate codes of practice and industry standards.
EP5b	Demonstrate an awareness of quality issues.
EP6b	Demonstrate an ability to work with technical uncertainty.

Intermediate/Exit Award 1: Higher National Certificate/Certificate of Higher Education

Underpinning Mathematics, Science and Associated Disciplines (MSAD)

MSAD1c	Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of manufacturing and operations and its underpinning science and mathematics.

Manufacturing and Operations Analysis (MA)

MA1c	Demonstrate an ability to apply appropriate quantitative science and engineering tools to the analysis of manufacturing and operations.

Design (D)

D1c	Manage the design process and evaluate outcomes

Economic, Social and Environmental Context (ES)

ESC1c	Demonstrate an awareness of the framework of relevant legal requirements governing manufacturing and operations activities, including personnel, health, safety, and risk (including environmental risk) issues.

Engineering Practice (EP)

EP1c	Demonstrate engineering workshop and laboratory skills.
EP2c	Demonstrate their ability to use technical literature and other information sources.
EP3c	Demonstrate an ability to use appropriate codes of practice and industry standards.

To support IMechE accreditation, the programme is mapped to the Accreditation of Higher Education Programmes (AHEP) 3rd learning outcomes, please refer to the Appendix One for the full learning outcome statements.

Level 5

All Level 5 students must normally pursue 120 credits at Level 5. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Structure: Part-time study / Degree Apprenticeship - Advanced Manufacturing Options

Module Code	**Title**	**Module type (component pass, core, compulsory or optional)**	**Credits**
Year 3	**Level 5**	**Semester 1 & 2**	**Sep to May**
ACMA5001	Control and Automation	Compulsory	20
ACMB5005	Six Sigma Green Belt	Compulsory	20

Please note that delivery schedules/timetabling can be found by accessing your personalised timetable via the My Timetable tile on the Student Hwb.

Where appropriate, the University may allow students to study modules in addition to the 120 credits studied for the level of study e.g. Welsh medium or IT modules. Students would need to discuss this with their Programme Manager.

Note that on Programmes of Study offering a number of options, timetable constraints will inevitably mean that not all combinations of options will be possible. In addition, a minimum viable number of students must normally be reached for a module to run.

Module details are correct on 1 September 2026, and will not normally be changed during the year. In the unlikely event of changes having to be made to these details during the year, you will be notified in writing. Module descriptors are presented in the accompanying Module Directory document.

UNIVERSITY ENGAGEMENT POLICY

All students should familiarise themselves with the engagement policy and understand their responsibilities in relation to engaging with their course (https://www.uwtsd.ac.uk/academic-quality-handbook).

Student Responsibilities in relation to attendance and engagement are:

- To engage with all scheduled and asynchronous learning in their programme/module(s);
- Attend punctually and completely all scheduled and timetabled learning and teaching activities unless unable to do so for reasons of illness or other extenuating circumstances;
- To engage as appropriate with the University's support mechanisms, according to their specific needs;
- To inform their Academic Support Tutor (or other member of staff identified by the Faculty) of any issues that affect or are expected to affect their engagement with their course;
- To engage proactively with all university procedures in support of their learning, including probation, action plans, etc.

This is particularly important for **international students with a Student Visa.** Failure to adhere to the requirements and conditions of the Engagement Policy will lead to withdrawal from your programme and the University will also inform the UKVI to withdraw your student visa sponsorship.

Appeal against withdrawal due to lack of engagement
Information on how to appeal against withdrawal due to lack of engagement is provided within the Engagement Policy which is published alongside Chapter 12 of the Academic Quality Handbook.

Withdrawal
Students who have decided they do not wish to continue their programme of study, must complete a formal University withdrawal form which is available on MyTSD. (Please access the form under the 'Data Changes and Forms' tab on the 'Forms' menu). Withdrawal from a programme may have implications for student finance and this should be understood by the student prior to submitting the form.

CODES OF CONDUCT

The University is committed to providing all students with a safe and inclusive learning environment where all students have the potential to succeed to the best of their ability.

The University expects all students to abide by the Student Code of Conduct (see https://www.uwtsd.ac.uk/student-charter).

The University also has Support for Study and Fitness to Practise Policies (see https://www.uwtsd.ac.uk/academic-quality-handbook).

In addition, many programmes have a professional code of conduct that you are expected to adhere to. Your Programme Manager will provide you with appropriate details.

ABOUT ACADEMIC INTEGRITY

Academic integrity is being honest in the work that you do in your studies. Honesty takes many forms; for example:

- writing your own answers in unseen exams without consulting with others or using online or printed materials;
- formally acknowledging the work and ideas of others, whether those of a friend, a lecturer, an article or book that you read, or a page on the internet that you accessed;
- formally acknowledging any and all uses of Artificial Intelligence tools;
- ensuring that you get ethical approval for your research where necessary;
- and many other actions that you take during your studies.

Breaches of Academic Integrity are called Academic Misconduct.

The University defines academic misconduct as '– Any action by a student which gives or has the potential to give an unfair advantage in an examination or assessment, or might assist someone else to gain an unfair advantage, or any activity likely to undermine the integrity essential to scholarship and research'. Committing academic misconduct in assessment is one of the most serious offences in academic life, and its consequences can be severe. It undermines the integrity of scholarship, research, and of the examination and assessment process.

It is very important to understand that it is no defence to claim that academic misconduct has been committed unintentionally, accidentally, due to extenuating circumstances or a long-term impairment (irrespective of whether or not these circumstances or long-term impairment have been acknowledged by the University).

You can find out the full regulatory framework, including penalties, on Academic Misconduct in the UWTSD Academic Misconduct Policy, which you can find here: https://www.uwtsd.ac.uk/academic-quality-handbook.

There are several types of Academic Misconduct. Here are some examples and how to avoid them:

Plagiarism is presenting someone else's work or ideas as one's own. Plagiarism can include phrases, sentences, ideas, viewpoints, data, tables, pictures or indeed anything that someone else has created and is presented as your own work.

How to avoid plagiarism:

1. Never copy/paste from any source, unless you have clearly identified that you are doing this.
2. Always provide references to the sources of information you have used.

Referencing is essentially acknowledging the sources of information and ideas that you have used.

The University recognises four referencing styles: APA, Harvard, IEEE and MHRA and provides a handbook for each of these styles. For your programme of study, you should be using **Harvard**.

You can find all of the Referencing Handbooks here:
Referencing and Plagiarism | Digital Services | University of Wales Trinity Saint David

If you are uncertain which handbook is for your subject, do ask your Programme Manager or Academic Tutor.

Self-plagiarism is when you are reusing material that you have created yourself.
How to avoid self-plagiarism:

1. Never take a paragraph (or sentence or graph or image, etc.) from a previous piece of work and submit it as part of a new piece of work.

Remember Self-plagiarism is as bad as plagiarism and has the same penalties.

False authorship is a broad category of misconduct, which covers from buying an essay off an essay-mill to using paraphrasing software.

How to avoid false authorship:

1. Never ask someone else to create your work, whether that is a friend, a relative or someone you pay.
2. Never submit work that you have bought or solicited.
3. Do not use material repositories, where students store essays and notes, without full referencing.
4. Do not use paraphrasing software, unless you have been allowed to do so by the module tutor.
5. Use Generative Artificial Intelligence tools only as allowed in the assessment specification for any given assessment, and acknowledge their use as appropriate.

Fundamentally, the work that you submit for any part of your degree **must be your own**.

Collusion is when two or more students submit work that is very similar and there is evidence to suggest that they worked together, or one used the other's work. Collusion is only relevant when the assignment is to be completed by each student individually. Group work that is submitted on a group basis is not subject to allegations of collusion.

How to avoid collusion:

1. Keep your materials, such as notes from reading, essay drafts, etc. private.
2. Do not share them with others, whether in the same class or in another class.
3. Do not publish them online.
4. Do not leave them in shared computers without password protection.

There is no problem in discussing your work, your discoveries and knowledge with other students. On the contrary, you will often be asked to work with others informally whether in class or outside. Learning from others and teaching others is an essential avenue to deeper learning.

Cheating in examinations (or other formal assessment) includes the possession of unauthorised material or technology during an examination, and attempting to access unseen assessment materials in an advance of an examination.

You can access training on Academic Integrity through the Library and Learning Resources Info Skills programme.

When enrolling as a student at the University of Wales Trinity Saint David you have consented to your work being scrutinised both electronically and manually for academic misconduct. Normally, your work will be submitted electronically via Moodle.

For submissions outside of the Moodle platform, it is equally important that you reference your sources accurately. In some cases, you will be expected to submit both hard and electronic copies, which can be checked against the database of the UK Higher Education Plagiarism Detection Service. For handwritten, portfolio and process workbook submissions check with your module tutor if you are in any doubt about whether you have infringed the regulations. They are here to assist you; ensure that you take advantage of their expertise.

UWTSD has published specific guidance as to the allowable uses of Artificial Intelligence in assessment, as well as the appropriate acknowledgement of use. You should ensure that you are fully aware of the allowable uses of AI in each individual assessment you attempt. General advice and guidance is available on HWB.

LIBRARY AND LEARNING RESOURCES

The Library and Learning Resources (LLR) aims to support and enhance the learning, teaching and research activities of staff and students across the University. We provide on and off campus access to thousands of online journals and e-books, and subscribe to online databases relevant to each subject area; in addition to specialist digital and information literacy support, research support and special collections and archives.

The LLR is a full member of WHELF (Wales Higher Education Libraries Forum) and is also a member of the SCONUL Access (Society of College, National and University Libraries) scheme, which is a co-operative venture between most of the higher education libraries of the UK and Ireland. It enables staff, research students, full-time postgraduates and part-time, distance learning and placement students to borrow material from other libraries. Librarians are welcomed to Staff / Student Committees and other relevant Faculty meetings where invited, including Faculty Boards.

Information Skills

Academic Liaison Librarians are the main point of contact for staff and students, and contribute to teaching and learning by helping students to develop the skills required to find, use and evaluate information sources within the subject areas taught by the Faculty. All new students receive a basic skills session and a referencing session during the first term, followed by more in-depth sessions throughout their studies.

Academic Liaison Librarians also provide a wider InfoSkills programme focusing on transferable employability skills and academic skills. This includes advanced search skills, AI literacy, ethical use of information, referencing and managing your online identity. Support can be provided face-to-face or remotely; by email, over the phone or via Teams. Students can also book a one-to-one session directly with their librarian or digital skills advisor from the library website. Referencing guidance is also available from the LLR and can be accessed from the library pages:
Finding and Using Information | Digital Services | University of Wales Trinity Saint David

Digital Skills

Our Digital Services team are always on hand to assist students in identifying their own skills gaps and locate appropriate structured learning resources to develop digital confidence. You can access our full range of digital skills resources at any time via the DigiCentre. Many of our courses are from LinkedIn Learning, and as a member of staff or student, you have free access. Students can gain a range of digital badges to demonstrate their knowledge and digital capabilities, and enhance their employability.

Other Specialist Support
The LLR offers access to a wide range of information sources in varied and accessible formats, ensuring equality of provision and access to learning materials. A designated member of staff can help and advise students with disabilities or specific learning requirements. Specialist support on copyright, referencing, and research activities is also provided. This includes advice on Research Data Management, using referencing software, Open Access requirements, setting up your ORCID ID and measuring the impact of research, advanced literature searching and accessing other academic and research libraries.

The Need More? Service
The LLR provides a Need More? service which takes an innovative approach to resource delivery, providing a one-stop shop for all learning resource needs. If a book, journal or other resource is needed and is not in library stock, it may be purchased, borrowed from another library or rented as an e-book. The service also provides a referral mechanism so that students are introduced to their Academic Liaison Librarian to ensure they are getting the most out of existing resources or where they are working on a specialist project. More details at Need More? | Digital Services | University of Wales Trinity Saint David

Learning Spaces
Students are welcome to use any UWTSD libraries, regardless of the subject of their study. As well as collections, the libraries provide a variety of flexible spaces, reflecting the way students work e.g. group study spaces and quiet areas, as well as IT facilities, WiFi, photocopying, scanning and printing facilities, and excellent customer service.

Further Information
For recent service developments and updates please visit the LLR's pages:
Library & Learning Services at UWTSD This also provides staff and library contact information for all the libraries of the University. The LLR can also be followed on Facebook, Bluesky and Instagram (@UWTSDLib) and contacted by email: library@uwtsd.ac.uk.

DIGITAL CREATIVITY AND LEARNING (DCL)

Digital learning

Digital learning encompasses a wide range of models, approaches, technologies, and services, making it a crucial component of modern education. The growing reliance on digital tools has highlighted the need for high-quality online teaching and learning resources, ensuring an equitable experience for both in-person and remote learners.

In addition, immersive learning approaches, such as virtual reality (VR), augmented reality (AR), simulations, and interactive environments, are increasingly enhancing digital learning by enabling students to engage in experiential, practice-based activities that deepen understanding and support real-world application of knowledge.

A well-developed package of digital learning materials can:
- Improve learning experience
- Support active, experiential learning through immersive environments
- Widen participation and collaboration
- Improve accessibility
- Develop key employability skills

IT SERVICE DELIVERY

IT support is available through our IT Service Desk who are available to help and assist you over the phone, in person or via our online portal and live chat service.

Telephone support is available 24 hours a day, 365 days a year so no matter when you may need assistance, we're here to help by calling us on 0300 500 5055.

Wi-Fi
All students can access our eduroam wireless network on their laptops, mobile phones, or tablets.

Eduroam is the wireless network available to use across all campuses. Eduroam also provides you with Wi-Fi access at any other eduroam enabled institution across the world.

Open Access Computers & Booking Facilities
Students can access general IT facilities through our open access computer areas across our University campuses.

What do computer rooms offer?

- PCs connected to the University's data network
- Usually a multifunctional device (MFD) offering colour and black and white printing, copying and scanning or a colour laser printer
- May also contain wireless access and more specialised equipment such as plotters, Sports Analysis Equipment and audio-visual equipment
- Long opening hours with many of them open 24/7
- Ability to pre-book a PC to use remotely to make sure you have access at the time you need to study.

Student IT Exclusives
We provide students with access to free or heavily discounted software and computer solutions through our Student IT Exclusives offers.

Free Microsoft Office 365
As a UWTSD student, you can download Microsoft Office 365 Pro Plus including Word, Excel and PowerPoint to use for free for the duration of your studies at UWTSD.

Adobe Creative Cloud
Students studying on eligible courses are able to access Adobe Creative Cloud suite for free which can be installed on your personal device during your studies.

You can also purchase a copy of Adobe Creative Cloud directly from Adobe's Website and save over 65% discount paying on a monthly basis.

Free Windows 11
We are able to provide all students with a license to use Microsoft's latest operating system for free.

Software Discounts
We've created an online store where all students can download a huge range of free or heavily discounted software for use at home.

The EDU store
Discounts are available for students on a range of products including the Microsoft Surface, Apple devices, Phones & Smart Watches. Free 4-year warranty on all Apple products & free next day delivery on all orders.

Select Easy Upgrade
Get the Apple Product you want right now. Spread the cost with low monthly payments, upgrade to the latest device at the end of the plan or pay off the balance with the Easy Upgrade Store.

Apple's Education store
You can get great Apple education pricing by visiting the Apple Education Store.

Free Autodesk
Download a range of Autodesk software including Fusion 360, Inventor Professional, Revit, AutoCAD, 3ds Max & Maya.

Print, Copy & Scan
Students have access to print, copy and scanning services which are available across all University Library & Learning Resource Centres as well as specific computer rooms and open access areas.

UWTSD use Multi-Functional Devices (MFDs) which all have print, copy and scan functions available in full colour or black and white.

STUDENT SERVICES

A professional support service providing high quality information, advice, guidance, practical and emotional support to enable all students to reach their full potential. Support available includes the Careers Service, Financial Support, Learning Support, Well-being Support, Counselling Service and support for students from a care background.

The Student Hwb team is on hand to help to answer any query you may have concerning your studies. You can access support from the Hwb via hwb@uwtsd.ac.uk, by calling 0300 131 3030, or via the online portal: Student Portal - Gwasanaethau Cwsmeriaid. Please make sure you have also downloaded the UWTSD Hwb app, which includes direct links to and information about all student facing services at the University.

The quickest way to access Wellbeing Support is by submitting a Support Request Form: UWTSD Wellbeing Service.

If you are worried about the health and wellbeing of another student you can let the Wellbeing Team know by filling in a Cause for Concern form: UWTSD Wellbeing Service.

For further details about Student Services see https://www.uwtsd.ac.uk/experience-facilities/student-support-wellbeing.

STUDY SKILLS

All students have access to study skills support to assist them in their studies. Details of provision are available from the Student Services offices on each campus and at

https://www.uwtsd.ac.uk/experience-facilities/student-support-wellbeing/learning-support.

Topics covered include:
Developing effective study strategies
Planning and writing assignments
Preparing presentations
Planning for seminars
Preparing for exams

Drop-in study skills sessions and 1:1 appointments are available online (and in person where possible) – no appointment necessary. Please see the Student Services study skills webpages for further details: https://www.uwtsd.ac.uk/experience-facilities/student-support-wellbeing/learning-support.

CAREERS

All students have access to MyCareer, the University's online careers platform. You need to register for an account, which you can do here: Welcome to MyCareer.

MyCareer includes specialist tools like a jobs board, career planner, automated CV360 checker, Interview 360 and more, you can start preparing for your future on your own terms.

The University's Careers Service is on hand to help you find work experience, paid placements or a part-time job. Throughout your studies you will have access to opportunities to build your career skills and confidence. Find out more via: Careers Service | University of Wales Trinity Saint David

COMPLAINTS

You have a right to make a complaint about any specific concern about the provision of your Programme of Study or a related academic service. Full details of the complaints process can be found in the *Student Complaint Policy* associated with Chapter 12 of the Academic Quality Handbook and in supporting documentation published on the Academic Office section on the University's website: https://www.uwtsd.ac.uk/academic-quality-handbook.