



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

PROGRAMME OF STUDY HANDBOOK

ACADEMIC DISCIPLINE OF ENGINEERING

MASTER OF SCIENCE (MSc)

MSc/PgDip/PgCert Automotive Engineering

MSc/PgDip/PgCert Motorcycle Engineering

MSc/PgDip/PgCert Motorsport Engineering

MSc/PgDip/PgCert Industrial Engineering

MSc/PgDip/PgCert Lean & Agile Operations

MSc/PgDip/PgCert Engineering Project Management

MSc/PgDip/PgCert Mechanical Engineering

LEVEL 7

WALES INSTITUTE OF SCIENCE AND ART

2022-2023

CONTENTS PAGE

Page No

INTRODUCTION.....	1
FEEDBACK.....	1
PROGRAMMES OF STUDY AND PROGRAMME MANAGERS.....	2
SUPPORT DURING YOUR STUDIES	2
ADMINISTRATIVE PROCEDURES	2
EXTERNAL EXAMINERS	3
ACADEMIC YEAR 2022/23.....	4
DISCLOSURE AND BARRING SERVICE (DBS) – ENHANCED.....	5
MODULAR TERMINOLOGY	6
ASSESSMENT.....	6
Extenuating Circumstances.....	6
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).....	8
ASSESSMENT FEEDBACK VIA TURNITIN.....	9
PROGRAMMES OF STUDY	10
(1) MSc/PgDip/PgCert Automotive Engineering.....	10
(2) MSc/PgDip/PgCert Motorcycle Engineering	15
(3) MSc/PgDip/PgCert Motorsport Engineering	19
(4) MSc/PgDip/PgCert Industrial Engineering Engineering	23
(5) MSc/PgDip/PgCert Lean and Agile Operations	28
(6) MSc/PgDip/PgCert Engineering Project Management.....	32
(7) MSc/PgDip/PgCert Mechanical Engineering	35
ASSESSMENT OF PART I	39
COURSEWORK DEADLINES.....	39
DISSERTATION/PORTFOLIO PREPARATION AND ASSESSMENT.....	39
DISSERTATION.....	39
Master's Dissertation Repository	40

Eligibility	40
Submitting to the repository	40
Contacts	41
UNIVERSITY ATTENDANCE POLICY	42
CODES OF CONDUCT	42
ABOUT ACADEMIC MISCONDUCT AND PLAGIARISM	43
Plagiarism: Regulations, Procedure and Penalties	43
Avoiding Plagiarism	43
Other types of Academic Misconduct	44
LIBRARY AND LEARNING RESOURCES	44
DIGITAL CREATIVITY AND LEARNING (DCL)	46
IT SERVICE DELIVERY	46
STUDENT SERVICES	47
STUDY SKILLS	48
COMPLAINTS	48

INTRODUCTION

This handbook provides you with information about your Programme of Study for the academic year 2022/23. 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 representative 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	Tel. No.	E-mail
MSc Portfolio	Dr Kerry Tudor	Ext 3363	Kerry.tudor@uwtsd.ac.uk
MSc Automotive Engineering	Mark Sandford	Ext 3367	Mark.sandford@uwtsd.ac.uk
MSc Motorcycle Engineering	Owen Williams	Ext 4283	Owen.williams@uwtsd.ac.uk
MSc Motorsport Engineering	Tim Tudor	Ext 4126	Tim.tudor@uwtsd.ac.uk
MSc/PgDip/PgCert Industrial Engineering	Andrew Thorn	01792 484321	Andrew.thorn@uwtsd.ac.uk
MSc Lean and Agile Operations	Andrew Thorn	01792 484321	Andrew.thorn@uwtsd.ac.uk
MSc Engineering Project Management	Andrew Thorn	01792 484321	Andrew.thorn@uwtsd.ac.uk
MSc/PgDip/PgCert Mechanical Engineering	Andrew Thorn	01792 484321	Andrew.thorn@uwtsd.ac.uk

SUPPORT DURING YOUR STUDIES

A member of academic 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.

ADMINISTRATIVE PROCEDURES

All relevant forms (e.g. essay submission form, dissertation form, extension request form) can be found in the postgraduate student section on the University's VLE and / or on the University's intranet.

Contact details for the Institute office administrative lead for the programme of study:

Mrs Louise Harris,
Principal Administrative Officer
Telephone: +44 1792 481000 x4413
email: louise.harris@uwtsd.ac.uk

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 2022/23 (forename/surname)	External Examiner for 2021/22 (if different to current)
MSc/PgDip/PgCert Automotive Engineering	Prof. Mark Whittaker	Alastair Clarke
MSc/PgDip/PgCert Motorcycle Engineering	Prof. Mark Whittaker	Alastair Clarke
MSc/PgDip/PgCert Motorsport Engineering	Prof. Mark Whittaker	Alastair Clarke
MSc/PgDip/PgCert Industrial Engineering	Andrew Gough	
MSc/PgDip/PgCert Lean & Agile Operations	Andrew Gough	
MSc/PgDip/PgCert Engineering Project Management	Andrew Gough	
MSc/PgDip/PgCert Mechanical Engineering	Andrew Gough	

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 2022/23

The academic year 2022/23 will be divided up as follows:

Induction 26/09/22 - 30/09/22

Semester 1: 26/09/22 - 27/01/23

Semester 2: 30/01/23 - 14/07/23

Examination Boards: normally November, March and June annually

Please note that dates are subject to change depending upon developments relating to the Coronavirus/Covid-19 pandemic.

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 enrolled on the correct Programme of Study and on the correct modules and that you read and agree to the Enrolment Agreement.

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'
- check your module results and examining board decision
- request to withdraw from your studies

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;
and
- not being able to use the Information Technology services.

Please take time to check the enrolment information provided on MyTSD.

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 University Registry or Programme Manager.

As part of each programme's procedures relating to DBS, continuing students will normally be required to inform their Programme Manager immediately of any change to their criminal convictions status.

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

Programme of Study (Course)

A Programme of Study or course is the collection of modules leading to a particular award.

Module

A module is an academically coherent unit of learning activity with defined aims/learning outcomes, content and assessment scheme.

Module Credit Rating

Every module has a credit rating. Credit is an award made to a learner in recognition of the verified achievement of designated learning outcomes at a specified level.

Level of Study

A level is assigned to each module to define the standard of its academic demand. Study at Master's level is called Level 7 in the National Qualifications Framework. The basic characteristics of the relevant levels of study are outlined by the Welsh Assembly government and available on their website:

<https://gov.wales/sites/default/files/publications/2018-02/level-descriptors.pdf>

Students should note that the expectations and demands of work at Level 7 is higher than those at undergraduate Levels 4-6, and that this will be reflected in the assessment and marking of the module assessments.

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.

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. If you have been taught in English and wish to be assessed in Welsh, or vice versa, you should consult your Programme Manager about the options available to you.

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

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*:

<http://www.uwtsd.ac.uk/academic-office/procedures-for-academic-appeals-complaints-and-other-student-cases/>

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.

<http://www.uwtsd.ac.uk/services-for-disabled-students/>

Academic Appeals

Information about how to appeal is provided in the 'Academic Appeal Procedure' which forms part of the *Academic Appeal Policy* associated with in Chapter 12 of the *Academic Quality Handbook*, and in supporting documentation published on the Academic Office section on the University's website:

<http://www.uwtsd.ac.uk/academic-office/procedures-for-academic-appeals-complaints-and-other-student-cases/>

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:

<http://www.uwtsd.ac.uk/academic-office/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 a copy of work presented 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
- Facilitate communication between students and tutors - this may also take place via Microsoft Teams
- Support group tasks
- Take online assessments with automatic marking and feedback facilities

Moodle can be used for administration tasks such as:

- Displaying announcements e.g. lecture venue changed
- Submission of assignments electronically
- Administration of online surveys, such as module 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 Internet Explorer, 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 Quick Links (top left 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 courses/modules in the **My Courses** block 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: <https://webhelp.uwtsd.ac.uk>

Tel: 0300 500 5055

Or email: ITServiceDesk@uwtsd.ac.uk

In any correspondence please include your name and username (your student number) together with details of your issue.

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

ASSESSMENT FEEDBACK VIA TURNITIN

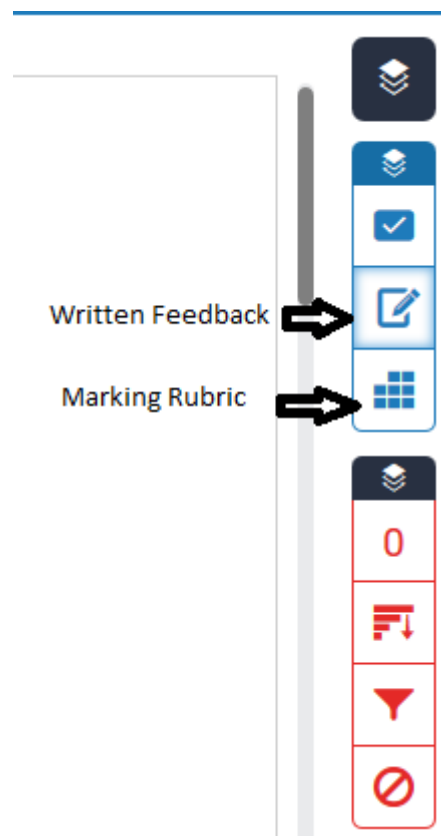
For feedback provided through Turnitin, there are two areas to get your feedback: written feedback, and the marking rubric.

Written feedback will comment on the overall work.

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) MSc/PgDip/PgCert Automotive Engineering

Programme Learning Outcomes

Main Award: MSc

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of automotive engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the automotive field.
- KU4** Conceptual understanding that enables the student to evaluate critically current research and advanced scholarship within the automotive discipline.
- KU5** Conceptual understanding that enables the student to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for automotive engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS3** Consider professional, legal and ethical issues including sustainability
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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

Intermediate/Exit Award 1: Postgraduate Diploma

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of automotive engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
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- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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 Award 2: Postgraduate Certificate

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of automotive engineering and areas of 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)

Cognitive (thinking) skills (CS)

- CS1** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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

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- PS1** The qualities and transferable skills necessary for automotive engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
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- KS1** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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

PROGRAMME STRUCTURE

TYPICAL DELIVERY PLAN

The tables below indicate typical delivery schedules for the programmes for each pattern of attendance. The team reserves the right to reorganise the delivery of modules per semester in accord with resource availability and student requests (which will be accommodated where feasibility).

Full-time study

Module Code	Module Title	Module type	Credits
Year 1	Level 7	Semester 1 & 2	Sept to May
ACEA7003	Advanced Vehicle Dynamic Behaviour	Compulsory	20
ACEA7005	Engine Performance and Emissions	Compulsory	20
ACEA7010	Mechanisms of Materials Failure	Compulsory	20
ACFA7004	Research Methods and Professional Development	Compulsory	20
ACEA7007	Hybrid Powertrain and Control	Compulsory	20
ACEA7013	Structural Integrity and Material Evaluation	Compulsory	20
Year 1	Level 7	Semester 3	Jun to Sept
ACFA7003	Masters Project	Compulsory	60

Part-Time Study

Module Code	Module Title	Module type	Credits
Year 1	Level 7	Semester 1 & 2	Sept to May
ACEA7003	Advanced Vehicle Dynamic Behaviour	Compulsory	20
ACEA7005	Engine Performance and Emissions	Compulsory	20
ACEA7010	Mechanisms of Materials Failure	Compulsory	20
Year 2	Level 7	Semester 1 & 2	Sept to May
ACFA7004	Research Methods and Professional Development	Compulsory	20
ACEA7007	Hybrid Powertrain and Control	Compulsory	20
ACEA7013	Structural Integrity and Material Evaluation	Compulsory	20
Year 3	Level 7	Semester 1	Sept to May
ACFA7003	Masters Project	Compulsory	60

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.

The modules that are delivered each academic year will depend on a number of factors, including the number of students that opt to study that module. All the options on your Programme of Study will not necessarily be offered each year.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

(2) MSc/PgDip/PgCert Motorcycle Engineering

Programme Learning Outcomes

Main Award: MSc

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of motorcycle engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
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Key skills (KS)

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- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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Intermediate/Exit Awards

Intermediate/Exit Award 1: Postgraduate Diploma

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Intermediate/Exit Award 2: Postgraduate Certificate

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PROGRAMME STRUCTURE

TYPICAL DELIVERY PLAN

The table below shows the typical delivery schedules for the programme for each pattern of attendance. The team reserves the right to re-organise the delivery of modules per semester in accord with resource availability and student requests (which will be accommodated where feasible)

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Module Code	Module Title	Module Type	Credits
Year 1	Level 7	Semester 1 & 2	Sept to May
ACEA 7001	Advanced Motorcycle Performance	Compulsory	20
ACEA7005	Engine Performance and Emissions	Compulsory	20
ACEA7010	Mechanisms of Materials Failure	Compulsory	20
ACFA7004	Research Methods and Professional Development	Compulsory	20
ACEA7007	Hybrid Powertrain and Control	Compulsory	20
ACEA7013	Structural Integrity and Material Evaluation	Compulsory	20
Year 1	Level 7	Semester 3	Jun to Sep
ACFA7003	Masters Project	Compulsory	60

Part-time study

Module Code	Module Title	Module Type	Credits
Year 1	Level 7	Semester 1 & 2	Sept to May
ACEA7001	Advanced Motorcycle Performance	Compulsory	20
ACEA7005	Engine Performance and Emissions	Compulsory	20
ACEA7010	Mechanisms of Materials Failure	Compulsory	20
Year 2	Level 7	Semester 1 & 2	Sept to May
ACEA7007	Hybrid Powertrain and Control	Compulsory	20
ACEA7004	Research Methods and Professional Development	Compulsory	20
ACEA7013	Structural Integrity and Material Evaluation	Compulsory	20
Year 3	Level 7	Semester 1	Sept to May
ACFA7003	Masters Project	Compulsory	60

The Postgraduate Certificate and Diploma delivery plan will be typically year 1 and 2 of the part-time provision respectively.

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.

The modules that are delivered each academic year will depend on a number of factors, including the number of students that opt to study that module. All the options on your Programme of Study will not necessarily be offered each year.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

(3) MSc/PgDip/PgCert Motorsport Engineering

Programme Learning Outcomes

Main Award: MSc

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of motorsport engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the motorsport field.
- KU4** Conceptual understanding that enables the student to evaluate critically current research and advanced scholarship within the motorsport discipline.
- KU5** Conceptual understanding that enables the student to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for motorsport engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS3** Consider professional, legal and ethical issues including sustainability
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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

Intermediate/Exit Award 1: Postgraduate Diploma

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of motorsport engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the motorsport field.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for motorsport engineering employment requiring the exercise of initiative and personal responsibility.
PS2 The skills required for decision-making in complex and unpredictable situations.
PS3 An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
KS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
KS4 Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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 Award 2: Postgraduate Certificate

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of motorsport engineering and areas of 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)

Cognitive (thinking) skills (CS)

- CS1** An ability to deal with complex issues both systematically and creatively
CS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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** The qualities and transferable skills necessary for motorsport engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.

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

PROGRAMME STRUCTURE

TYPICAL DELIVERY PLAN

The tables below indicate the typical delivery schedules for the programme for each pattern of attendance. The team reserves the right to re-organise the delivery of modules per semester, in accord with resource availability and student requests (which will be accommodated where feasible).

Full-Time Study

Module Code	Module Title	Module Type	Credits
Year 1	Level 7	Semester 1 & 2	Sept to Feb
ACEA7002	Advanced Motorsport Dynamics	Compulsory	20
ACEA7005	Engine Performance and Emissions	Compulsory	20
ACEA7010	Mechanisms of Materials Failure	Compulsory	20
ACFA7004	Research Methods and Professional Development	Compulsory	20
ACEA7007	Hybrid Powertrain and Control	Compulsory	20
ACEA7013	Structural Integrity and Material Evaluation	Compulsory	20
Year 1	Level 7	Semester 3	Jun to Sep
ACFA7003	Masters Project	Compulsory	60

Part-time study

Module Code	Module Title	Module Type	Credits
Year 1	Level 7	Semester 1 & 2	Sept to Feb
ACEA7002	Advanced Motorsport Dynamics	Compulsory	20
ACEA7005	Engine Performance and Emissions	Compulsory	20
ACEA7010	Mechanisms of Materials Failure	Compulsory	20
Year 2	Level 7	Semester 1 & 2	Sept to Feb
ACEA7007	Hybrid Powertrain and Control	Compulsory	20
ACEA7004	Research Methods and Professional Development	Compulsory	20
ACEA7013	Structural Integrity and Material Evaluation	Compulsory	20
Year 3	Level 7	Semester 1	Sept to Feb
ACFA7003	Masters Project	Compulsory	60

The Postgraduate Certificate and Diploma delivery plan will typically be year 1 and 2 of the part time provision respectively.

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.

The modules that are delivered each academic year will depend on a number of factors, including the number of students that opt to study that module. All the options on your Programme of Study will not necessarily be offered each year.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

(4) MSc/PgDip/PgCert Industrial Engineering Engineering

Programme Learning Outcomes

Main Award: MSc

Knowledge and Understanding (KU)

KU1 A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by,

the forefront of their academic discipline, field of industrial engineering and areas of professional practice.

- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.
- KU4** Conceptual understanding that enables the student to evaluate critically current research and advanced scholarship within the industrial discipline.
- KU5** Conceptual understanding that enables the student to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS3** Consider professional, legal and ethical issues including sustainability
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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

Intermediate/Exit Award 1: Postgraduate Diploma

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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 Award 2: Postgraduate Certificate

Knowledge and understanding (KU)

KU1 A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of 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)

Cognitive (thinking) skills (CS)

CS1 An ability to deal with complex issues both systematically and creatively
CS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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 The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
PS2 The skills required for decision-making in complex and unpredictable situations.
PS3 An independent learning ability required for continuing professional development.

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

Key skills (KS)

KS1 Work as an individual or as a member of a team with minimum guidance
KS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.

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

PROGRAMME STRUCTURE

TYPICAL DELIVERY PLAN

The tables below indicate the typical delivery schedules for the programme for each pattern of attendance. The team reserves the right to re-organise the delivery of modules per semester, in accord with resource availability and student requests (which will be accommodated where feasible).

Full-time study

Full-Time Study

Module Code	Module Title	Module Type	Credits
Year 1	Level 7	Semester 1	Sept to Feb
ACEA7004	Design for Manufacture	Compulsory	20
ACEA7009	Management of Engineering Projects	Compulsory	20
ACEA7012	Quality Management in an Operational Environment	Compulsory	20
Year 1	Level 7	Semester 2	Feb to May
ACFA7004	Research Methods and Professional Development	Compulsory	20
ACEA7008	Lean and Agile Systems	Compulsory	20
ACEA7011	Procurement and Supply Chain Management	Compulsory	20
Year 1	Level 7	Semester 3	Jun to Sep
ACFA7003	Masters Project	Compulsory	60

Part-time study

Module Code	Module Title	Module Type	Credits
Year 1	Level 7	Semester 1	Sept to Feb
ACEA7004	Design for Manufacture	Compulsory	20
ACEA7009	Management of Engineering Projects	Compulsory	20
Year 1	Level 7	Semester 2	Feb to May
ACEA7012	Quality Management in an Operational Environment	Compulsory	20
Year 2	Level 7	Semester 1	Sept to Feb
ACEA7008	Lean and Agile Systems	Compulsory	20
Year 2	Level 7	Semester 2	Feb to May
ACFA7004	Research Methods and Professional Development	Compulsory	20
ACEA7011	Procurement and Supply Chain Management	Compulsory	20
Year 3	Level 7	Semester 1	Sept to Feb
ACFA7003	Masters Project	Compulsory	60

The Postgraduate Certificate and Diploma delivery plan will typically be year 1 and 2 of the part time provision respectively.

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.

The modules that are delivered each academic year will depend on a number of factors, including the number of students that opt to study that module. All the options on your Programme of Study will not necessarily be offered each year.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

(5) MSc/PgDip/PgCert Lean and Agile Operations

Programme Learning Outcomes

Main Award: MSc

Knowledge and Understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.
- KU4** Conceptual understanding that enables the student to evaluate critically current research and advanced scholarship within the industrial discipline.
- KU5** Conceptual understanding that enables the student to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS3** Consider professional, legal and ethical issues including sustainability
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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

Intermediate/Exit Award 1: Postgraduate Diploma

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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 The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2 The skills required for decision-making in complex and unpredictable situations.
- PS3 An independent learning ability required for continuing professional development.

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 Work as an individual or as a member of a team with minimum guidance
- KS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS4 Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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 Award 2: Postgraduate Certificate

Knowledge and understanding (KU)

- KU1 A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of 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)

Cognitive (thinking) skills (CS)

- CS1 An ability to deal with complex issues both systematically and creatively
- CS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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

Key skills (KS)

- KS1** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.

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

PROGRAMME STRUCTURE

There are no prerequisites for any of the modules on this programme and all modules are compulsory. The table shows the current composition of the programme.

Code	Title	Credits
PART I		
Compulsory Modules		
ACEA7004	Design for Manufacture	20
ACEA7006	Engineering Management Leadership	20
ACEA7008	Lean and Agile Systems	20
ACEA7011	Procurement and Supply Chain Management	20
ACEA7012	Quality Management in an Operational Environment	20
ACFA7004	Research methods and Professional Development	20
PART II Compulsory Module		
ACFA7003	Master's Project	60

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.

The modules that are delivered each academic year will depend on a number of factors, including the number of students that opt to study that module. All the options on your Programme of Study will not necessarily be offered each year.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

(6) MSc/PgDip/PgCert Engineering Project Management

Programme Learning Outcomes

Main Award: MSc

Knowledge and Understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.
- KU4** Conceptual understanding that enables the student to evaluate critically current research and advanced scholarship within the industrial discipline.
- KU5** Conceptual understanding that enables the student to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS3** Consider professional, legal and ethical issues including sustainability
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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

Intermediate/Exit Award 1: Postgraduate Diploma

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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 Award 2: Postgraduate Certificate

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of 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)

Cognitive (thinking) skills (CS)

- CS1** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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

Key skills (KS)

- KS1** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.

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

PROGRAMME STRUCTURE

The table below shows the current composition of the programme.

Code	Title	Credits
PART I		
Compulsory Modules		
ACEA7006	Engineering Management Leadership	20
ACEA7008	Lean and Agile Systems	20
ACEA7009	Management of Engineering Projects	20
ACEA7011	Procurement and Supply Chain Management	20
ACEA7012	Quality Management in an Operational Environment	20
ACFA7004	Research methods and Professional Development	20
PART II		
Compulsory Module		
ACFA7003	Master's Project	60

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.

The modules that are delivered each academic year will depend on a number of factors, including the number of students that opt to study that module. All the options on your Programme of Study will not necessarily be offered each year.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

(7) MSc/PgDip/PgCert Mechanical Engineering

Main Award: MSc

Knowledge and Understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.
- KU3** Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS3** Consider professional, legal and ethical issues including sustainability
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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

Intermediate/Exit Award 1: Postgraduate Diploma

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of professional practice.
- KU2** A comprehensive understanding of techniques applicable to their own research or advanced scholarship.

KU3 Originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge within the industrial field.

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** An ability to deal with complex issues both systematically and creatively
- CS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level
- CS3** An ability to communicate their conclusions clearly to specialist and non-specialist audiences

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
- PS2** The skills required for decision-making in complex and unpredictable situations.
- PS3** An independent learning ability required for continuing professional development.

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** Work as an individual or as a member of a team with minimum guidance
- KS2** Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.
- KS4** Manage their own learning and development, including the time management and organisational skills required for employment whilst recognising the need for lifelong learning.

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 Award 2: Postgraduate Certificate

Knowledge and understanding (KU)

- KU1** A systematic understanding of knowledge, and a critical awareness of current automotive problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of industrial engineering and areas of 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)

Cognitive (thinking) skills (CS)

- CS1** An ability to deal with complex issues both systematically and creatively
CS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level

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** The qualities and transferable skills necessary for industrial engineering employment requiring the exercise of initiative and personal responsibility.
PS2 The skills required for decision-making in complex and unpredictable situations.
PS3 An independent learning ability required for continuing professional development.

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

Key skills (KS)

- KS1** Work as an individual or as a member of a team with minimum guidance
KS2 Self-direction and originality in solving problems, and independently plan and implement tasks at an appropriate level.

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

PROGRAMME STRUCTURE

The table below shows the current composition of the programme.

Code	Title	Credits
PART I		
Compulsory Modules		
ACEA7004	Design for Manufacture	20
ACEA7008	Lean and Agile Systems	20
ACEA7010	Mechanisms of Material Failure	20
ACEA7011	Procurement and Supply Chain Management	20
ACEA7012	Quality Management in an Operational Environment	20
ACFA7004	Research methods and Professional Development	20
PART II		
Compulsory Module		
ACFA7003	Master's Project	60

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.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event 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.

ASSESSMENT OF PART I

Each module will be assessed independently in ways which reflect the objectives and learning outcomes of the module and the programme of study as a whole and the learning and teaching strategies employed within the module.

Details of assignments, guidance on the objectives of the assessment and criteria applied in marking will be provided at the beginning of each module.

Full information about the classification of results and regulations for progression can be found in Chapter 6 of the *Academic Quality Handbook*.

All work in Part I will normally be marked within the University's agreed 20 clear term-time working days turn-around time for assessed coursework. You will be contacted by the module co-ordinator if this is not possible.

COURSEWORK DEADLINES

Coursework deadlines are provided on the assessment calendar that you will find on your MS Teams group. This will detail all the required hand-in dates for all your modules.

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.

DISSERTATION/PORTFOLIO PREPARATION AND ASSESSMENT

Each candidate accepted into Part II will be required to submit a dissertation/portfolio not exceeding 15,000 words or the equivalent. The word limit does not include appendices (if any), essential footnotes, the formal declarations and statements or the bibliography and index. The appendices can act as a repository of raw data. It should be noted that examiners are not obliged to read the appendices when examining a piece of work.

If a piece of work is clearly above the indicated word limit, then the student should discuss editorial action with their supervisors before submission.

The module code for the dissertation/portfolio is:

ACFA7003 Masters Project

DISSERTATION

It is expected that students reaching the dissertation stage of a Master's Programme of Study will have acquired and practised research skills relevant to the modules

studied. Students will be allocated a supervisor who will advise them on the issues arising at various stages in the research project.

Dissertations must be submitted in accordance with the University's requirements.

Please note that you must hand in your dissertation at least 3 months before your intended graduation date e.g. if you would like to graduate in July, you should hand in your dissertation no later than 1 April in order to make sure that all the marking and examination procedures are completed in good time. Master's dissertations will normally be marked within the University's agreed 30 clear working days turn-around time.

Details of the responsibilities of the student and dissertation support entitlement can be found in the Supervision Policy for Taught Master's Students (Appendix GA30).
<http://www.uwtsd.ac.uk/academic-office/appendices-and-forms/>

Nature and demands of tutorial supervision for this Programme of Study

It is the student's responsibility to remain in regular contact with their supervisor. The student will arrange appointments with their supervisor who is drawn from the teaching team. The role of the supervisor is to advise and give guidance. All students should make a record of what is discussed at each tutorial appointment.

Master's Dissertation Repository

Eligibility

Master's dissertations that are awarded a distinction, or are otherwise awarded a pass and written in the Welsh language or in the academic disciplines of Welsh, Celtic Studies or Welsh history are archived to the University repository.

Master's dissertations that do not meet the above criteria, and undergraduate dissertations, are not held by Library and Learning Resources. Research degree theses are outside the scope of this document and are covered by the [electronic research theses submission process](#).

Print copies of dissertations and theses are no longer accepted by Library and Learning Resources. Historical printed dissertations and theses accepted prior to the implementation of the current policy will continue to be retained in LLR collections.

Master's dissertations accepted for archival in the repository will be electronically harvested by the National Library of Wales for the [Theses Collection Wales](#). Unlike research degree theses, UWTSD Masters dissertations are not archived by the British Library EThOS service or ProQuest.

Submitting to the repository

On submission of your dissertation for marking, you should also upload an additional PDF copy with the following form: <https://purl.org/uwtsd-llr/masters-dissertations>

- a. The form requests the data required for inclusion in the university repository, and the necessary copyright clauses.
- b. You will need to sign in to your UWTSD account before completing the form to act as a digital signature verification.

- c. You will be asked to upload your dissertation, and provide a personal email address to allow LLR to follow up any queries.
- d. The form includes a reference to the language of the dissertation and the subject matter to assess repository eligibility.
- e. Dissertations that are not eligible for inclusion will be removed from the repository.

Contacts

Queries over the submission process should be sent by email to the LLR repository team: repository@uwtsd.ac.uk

Information for students and staff is available on the LLR Open Access web pages: <https://www.uwtsd.ac.uk/library/open-access-and-research/>

UNIVERSITY ATTENDANCE POLICY

Attendance is an important indicator of your engagement with and success in your studies. All students are therefore required to attend all scheduled classes and tutorials and Institutes will record individual academic attendance. It is important that:

- you familiarise yourself with the attendance policy relevant to you (see <https://www.uwtsd.ac.uk/academic-office/other-forms-and-policies/>);
- you are fully aware of procedures to follow in case of unexpected absences.
- you are aware that disciplinary action will be taken for any sustained periods of unauthorised absence.

This is particularly important for **international students with a UKVI Student Visa**. Failure to adhere to the requirements and conditions of the Attendance 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 poor attendance – Information on how to appeal against withdrawal due to poor attendance is provided on the University's website (<http://www.uwtsd.ac.uk/academic-office/procedures-for-academic-appeals-complaints-and-other-student-cases/>).

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/studentcharter/>).

The University also has Support for Study and Fitness to Practise Policies (see <https://www.uwtsd.ac.uk/academic-office/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 MISCONDUCT AND PLAGIARISM

The University defines academic misconduct as ‘any act, intentional or otherwise, whereby a person may obtain for himself/herself or for another, an unpermitted advantage...’. 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).

Plagiarism is one type of academic misconduct. Plagiarism is passing off, or attempting to pass off, another’s work as your own. It includes copying the words, ideas, images or research results of another **without acknowledgement**, whether those words etc. are published or unpublished. It is plagiarism, for example, to copy the work of another student, of a member of staff or a published article without crediting the author. Persons who allow their work to be plagiarised are also guilty.

It should be noted that re-submitting work that has already been submitted for a different assessment task without noting that this is the case is also regarded as plagiarism (and is called self-plagiarism) and will be treated as such.

Plagiarism is one of the worst offences in academic life, and its consequences can be severe. It undermines the integrity of scholarship, research, and of the examination and assessment process. The guidance that follows explains what is meant by plagiarism, describes the University’s regulations for dealing with it, and provides help in avoiding it.

When enrolling as a student at the University of Wales Trinity Saint David you have consented to your work being scrutinised both electronically and in person to check for cases of plagiarism. 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.

Plagiarism: Regulations, Procedure and Penalties

Full details of the University’s procedures and penalties for dealing with issues of plagiarism can be found in Chapter 12 of the *Academic Quality Handbook* and the associated *Academic Misconduct Policy*, which can be seen on the University website or obtained from the Institute Offices.

<https://www.uwtsd.ac.uk/academic-office/academic-quality-handbook/>

Avoiding Plagiarism

Coursework, dissertations, or creative work are meant to be your own original work. Obviously you will use the work of others. Not only is this inevitable, it is expected. All scholarship builds on the work of others. The important thing to remember is always to **acknowledge your sources**. The University recognises four referencing styles: APA,

Harvard, IEEE and MHRA and provides a handbook for each of these styles. For your course of study you should be using **Harvard**. The handbooks can be found online: <https://www.uwtsd.ac.uk/library/infoskills/referencing-handbooks/> or in print from the Library and Learning Resources. A Referencing Essentials session will be provided during the first term of your first year but as a general rule of thumb observe the following:

- *Anything that is copied or quoted from another source, including electronic sources such as the internet, must be in quotation marks and attributed to the original author. This may be in the body of the text or as a footnote, depending on which Referencing style you are asked to use.*
- *Paraphrasing or summarising the work of others involves putting their ideas into your words. This is fine, but again, acknowledge your source.*
- *Where you are generally indebted for your ideas to one or two main sources, this can be a bit trickier. If the ideas or the way they are presented come from one or two sources, make this clear. Do the same if they come from lectures. It is important not to claim originality where it does not exist but to indicate in general where the information comes from.*
- *Full citations in timed unseen examinations are obviously not expected, but you should indicate general indebtedness and always credit any quotations you have managed to remember.*

The golden rule is; **'if in doubt, provide references'** and your Referencing Handbook will provide you with specific guidance to help you to do this correctly. For support, contact your tutor or Academic Liaison Librarian. There are no penalties for asking for advice and guidance; there are severe penalties for plagiarism and failure to reference means your work could be considered to be plagiarised.

Other types of Academic Misconduct

There are other types of academic misconduct, including, but not limited to producing work as a group where it is an individual task (called collusion), fabricating data or making false claims to have carried out research, using the service of an essay bank/essay mill, having an unauthorised source of information in an examination, prohibited communication during an examination. The same regulations, procedures and penalties apply to all types of academic misconduct.

LIBRARY AND LEARNING RESOURCES

Library and Learning Resources (LLR) supports the learning, teaching and research activities of staff and students across the University with library services available at Birmingham, Carmarthen, Lampeter, London and Swansea including online resources, social learning spaces, special collections and archives.

The library prioritises the purchase of e-books over print wherever possible and loan periods are regularly reviewed by the library to ensure that they are appropriate and provide equitable access to resources. It is expected that at least all Essential reading list items are available from the library. The LLR follows a Fairer Fines policy which means students are only fined on items if they are in heavy demand or requested by another library user.

The LLR provides a *Need More?* service which aims to provide a one stop shop for all learning resource needs, for example, if a book, journal or thesis is needed which is not in the library stock then it may be purchased or borrowed from another library. Further information can be found here: <https://uwtsd.ac.uk/library/need-more/>.

Learning Spaces

As well as collections, the library provides a variety of modern and flexible learning spaces, reflecting different styles of working e.g. group study spaces and quiet areas, as well as IT facilities, wireless internet, photocopying and printing facilities and excellent customer service.

Online Library

The LLR offers a wide range of printed and electronic resources including an extensive collection of online e-journals and e-books that are available 24/7 providing access to scholarly journals, newspapers, company reports and reference material. The library catalogue searches the whole range of print and online library materials and gives access to your library account from anywhere.

InfoSkills

All students are provided with a library tour, a Basic Skills session and a Referencing Essentials session in the first few weeks at the University. Academic Liaison Librarians will help students to develop the skills required to find, use and evaluate information sources within their subject areas. Numerous sessions are offered throughout the year to help students develop their Information Skills further to support their academic success and employability. These include sessions on identifying fake news, using statistics, Copyright awareness, and managing your online identity. The LLR operates an open door policy which enables students to ask for help and advice on the information resources available throughout the academic year. Academic Liaison Librarians are welcomed to Staff / Student Committees, and also attend other relevant Institute meetings where invited, including the Institute Board. For further information on InfoSkills provision go to:

<https://www.uwtsd.ac.uk/library/infoskills/>

Special Collections and Archives

The Library is also home to the Special Collections of UWTSd, including the University's oldest printed books, manuscripts and archives. The Special Collections include over 35,000 printed works, 8 medieval manuscripts, around 100 post medieval manuscripts, and 69 incunables. Material from the Archives includes the institutional archive of St David's College, later The University of Wales, Lampeter, and Trinity College Carmarthen, both constituent members of the University of Wales Trinity Saint David. Students are encouraged to use these wonderful resources as part of their studies, regardless of discipline. Visits and workshops are often arranged within the purpose-built reading rooms in the Lampeter campus library and there is a regular programme of exhibitions across the campuses and online.

Services for Researchers

The LLR also provides advanced support for Research Students including support for the Researcher Development Framework such as Research Data Management, Data Plans, Open Access and measuring the impact of research through use of bibliometric and altmetrics. Access to other libraries is also available via the SCONUL scheme as well as access to scanning and postal loans services via the *Need More?* service.

For recent service developments, updates and contact information please visit the University Library website at <http://www.uwtsd.ac.uk/library/>. Please also follow the

Library and Learning Resources on Facebook, Instagram or Twitter for up-to-date news, service developments and information on new services and resources: @UWTSDLib

DIGITAL CREATIVITY AND LEARNING (DCL)

Digital learning

Digital learning encompasses a wide variety of learning models and approaches, digital technologies, and services, therefore, playing a vital role in how content is delivered and how students learn. The current Covid situation has been a catalyst to elevating the significance of high-quality digital teaching and learning resources, and also the importance of ensuring parity for both face-to-face and remote learning experiences.

A well-developed package of digital learning materials can:

- Improve learning experience
- 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 Web Help Desk system.

To request IT Support, visit our [Web Help Desk](#) service. Alternatively, we also provide telephone support 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 laptop, mobile phone or tablet.

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 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 10 & 11

We are able to provide all students with a license to use Microsoft's latest operating system for free from our On the Hub store.

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 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. For further details see <http://www.uwtsd.ac.uk/student-services/>.

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 <http://www.uwtsd.ac.uk/study-skills/>.

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: <http://www.uwtsd.ac.uk/study-skills/>.

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 in Chapter 12 of the *Academic Quality Handbook* and in supporting documentation published on the Academic Office section on the University's website: <http://www.uwtsd.ac.uk/academic-office/procedures-for-academic-appeals-complaints-and-other-student-cases/>