



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

PROGRAMME OF STUDY HANDBOOK

ACADEMIC DISCIPLINE OF ENGINEERING

BEng/HND/C/DipHE/CertHE Automotive Engineering
BEng/HND/C/DipHE/CertHE Motorcycle Engineering
BEng/HND/C/DipHE/CertHE Motorsport Engineering

LEVEL 4

WALES INSTITUTE OF SCIENCE & ART

2022-2023

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

PROGRAMMES OF STUDY AND PROGRAMME MANAGERS

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

Programme of Study	Programme Manager	Tel.No.	E-mail
BEng/HND/DipHE Automotive Engineering	Mark Sandford	+441792481000 x4334	mark.sandford@uwtsd.ac.uk
BEng/HND/DipHE Motorcycle Engineering	Owen Williams	+441792481000 x4283	owen.williams@uwtsd.ac.uk
BEng/HND/DipHE Motorsport Engineering	Tim Tudor	+441792481126 x4126	tim.tudor@uwtsd.ac.uk

SUPPORT DURING YOUR STUDIES

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

EXTERNAL EXAMINERS

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

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

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

The current External Examiners for the Programmes of Study are:

Programme of Study	External Examiner for 2022/23 (forename/surname)	External Examiner for 2021/22 (if different to current)
BEng/HND/C/DipHE/CertHE Automotive Engineering	Mr David Campion	Dr Alastair Clarke
BEng/HND/C/DipHE/CertHE Motorcycle Engineering	Mr David Campion	Dr Alastair Clarke
BEng/HND/C/DipHE/CertHE Motorsport Engineering	Mr David Campion	Dr Alastair Clarke

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
Exam Period 1:	04/01/23 - 13/01/23
Examining Boards:	30/01/23 - 10/02/23
Semester 2:	30/01/23 - 14/07/23
Exam Period 2:	03/05/23 - 17/05/23
Examining Boards:	30/05/23 - 15/06/23
Re-sit Period:	17/07/23 - 21/07/23

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;
- potential non-compliance with visa regulations.

Please take time to check your enrolment details 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

Level (of Study):

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

The level is not necessarily synonymous with a year, though very often Level 4 will be the first year of a Programme of Study, Level 5 will be the second year, and Level 6 will be the third year. The basic characteristics of the relevant levels of study are outlined by the Welsh Assembly government and available on their website:

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

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 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 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) BEng/HND/DipHE/CertHE Automotive Engineering

The programme has the following general educational and specific aims:

To produce graduates who will:

- be pragmatic, taking a systematic approach and the logical and practical steps necessary for often complex concepts to become reality;
- seek to achieve sustainable solutions to problems and have strategies for being creative, innovative and overcoming difficulties by employing their skills, knowledge and understanding in a flexible manner;
- be skilled at solving problems by applying their numerical, computational, analytical and technical skills, using appropriate tools;
- be risk, cost and value-conscious, and aware of their ethical, social, cultural, environmental, health and safety, and wider professional responsibilities of the automotive industry;
- be familiar with the nature of business and enterprise in the creation of economic and social value;
- appreciate the global dimensions of automotive engineering, commerce and communication;
- be able to formulate and operate within appropriate codes of conduct, when faced with an ethical issue;
- be professional in their outlook, be capable of team working, be effective communicators, and be able to exercise responsibility and sound management approaches.

Programme Learning Outcomes

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

Main Award: BEng Automotive Engineering

Knowledge and Understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.
- KU2** Apply and integrate knowledge and understanding of other engineering disciplines and appreciate the wider multidisciplinary engineering context.
- KU3** Appreciate the social, environmental, ethical, economic and commercial considerations affecting the exercise of their engineering judgement.

- KU4** Knowledge and understanding of mathematical and computational concepts, methods and techniques which are employed elsewhere in the programme or regarded as essential for professional engineering.
- KU5** Appreciate the full range of manufacturing processes employed in the automotive industry and have more detailed knowledge of common machining processes.
- KU6** Exhibit familiarity with the generic elements of current engineering applications and practices and have an awareness of the professional, legal and ethical responsibilities of the automotive engineer.
- KU7** Demonstrate a basic knowledge of business and management concepts, methods and techniques relevant to the practicing automotive engineer.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.
- CS3** Demonstrate creativity and innovation in the synthesis of solutions and in formulating designs.
- CS4** Investigate and define an engineering problem and identify associated constraints such as environmental and sustainability limitations, and health and safety.
- CS5** Manage effectively the design process, appreciate customer and user needs, evaluate outcomes, assess commercial risk and manage cost drivers.

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** Analyse and solve automotive engineering problems.
- PS2** Employ basic theoretical models and scientific principles where appropriate.
- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.
- PS4** Design a system, component or process and recognise opportunities for improvements in a design.
- PS5** Take a holistic approach to problem-solving to encompass technical, business and social factors and constraints.
- PS6** Use laboratory and workshop equipment, along with appropriate instrumentation, in order to execute a series of experiments, both effectively and safely.
- PS7** Use appropriate computer software for design purposes and as a means of analysing and solving engineering problems.
- PS8** Produce engineering drawings, both manually and by employing Computer Aided Design facilities.
- PS9** Produce technical reports to a professional standard.
- PS10** Plan and deliver technical presentations.

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

Key skills (KS)

- KS1** Communicate effectively in writing, verbally and through graphical media.
- KS2** Manage time and resources, prioritise and work to deadlines.
- KS3** Use computers and information technology effectively.
- KS4** Locate and assemble information using various sources
- KS5** Demonstrate generic problem-solving skills acquired during the programme.
- KS6** Work and learn independently.
- KS7** Work effectively as a member of a group or team.
- KS8** Prepare for automotive employment

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: HND/DipHE Automotive Engineering

Knowledge and understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.
- KU5** Appreciate the full range of manufacturing processes employed in the automotive industry and have more detailed knowledge of common machining processes.
- KU7** Demonstrate a basic knowledge of business and management concepts, methods and techniques relevant to the practicing automotive engineer.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.
- CS3** Demonstrate creativity and innovation in the synthesis of solutions and in formulating designs.

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** Analyse and solve automotive engineering problems.
- PS2** Employ basic theoretical models and scientific principles where appropriate.

- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.
- PS6** Use laboratory and workshop equipment, along with appropriate instrumentation, in order to execute a series of experiments, both effectively and safely.
- PS7** Use appropriate computer software for design purposes and as a means of analysing and solving engineering problems.

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

Key skills (KS)

- KS1** Communicate effectively in writing, verbally and through graphical media.
- KS2** Manage time and resources, prioritise and work to deadlines.
- KS7** Work effectively as a member of a group or team.
- KS8** Prepare for automotive employment

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 1: HNC/CertHE Automotive Engineering

Knowledge and understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.

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

Practical skills (PS)

- PS1** Analyse and solve automotive engineering problems.
- PS2** Employ basic theoretical models and scientific principles where appropriate.
- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.

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

Key skills (KS)

KS1 Communicate effectively in writing, verbally and through graphical media.

KS2 Manage time and resources, prioritise and work to deadlines.

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

Level 4

All Level 4 students must normally pursue 120 credits at Level 4. The credit rating of each module is specified in the module details.

Modules

PROGRAMME STRUCTURE

Full-time BEng Automotive Engineering (Year 1)

Semester 1 & 2

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
ACHA4002	Engineering Design	Compulsory	20
ACHA4004	Vehicle Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

Full-Time HND/C Automotive Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
ACHA4002	Engineering Science	Compulsory	20
ACHA4004	Vehicle Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

Part-Time BEng/HND/C Automotive Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4002	Engineering Science	Compulsory	20
ACHA4004	Vehicle Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

(2) Beng/HND/DipHE/CertHE Motorcycle Engineering

The programme has the following general educational and specific aims:

To produce graduates who will:

- be pragmatic, taking a systematic approach and the logical and practical steps necessary for often complex concepts to become reality;
- seek to achieve sustainable solutions to problems and have strategies for being creative, innovative and overcoming difficulties by employing their skills, knowledge and understanding in a flexible manner;
- be skilled at solving problems by applying their numerical, computational, analytical and technical skills, using appropriate tools;
- be risk, cost and value-conscious, and aware of their ethical, social, cultural, environmental, health and safety, and wider professional responsibilities of the motorcycle industry;
- be familiar with the nature of business and enterprise in the creation of economic and social value;
- appreciate the global dimensions of motorcycle engineering, commerce and communication;
- be able to formulate and operate within appropriate codes of conduct, when faced with an ethical issue;
- be professional in their outlook, be capable of team working, be effective communicators, and be able to exercise responsibility and sound management approaches

Programme Learning Outcomes

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

Main Award: BEng Motorcycle Engineering

Knowledge and Understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.
- KU2** Apply and integrate knowledge and understanding of other engineering disciplines and appreciate the wider multidisciplinary engineering context.
- KU3** Appreciate the social, environmental, ethical, economic and commercial considerations affecting the exercise of their engineering judgement.
- KU4** Knowledge and understanding of mathematical and computational concepts, methods and techniques which are employed elsewhere in the programme or regarded as essential for professional engineering.

- KU5** Appreciate the full range of manufacturing processes employed in the automotive industry and have more detailed knowledge of common machining processes.
- KU6** Exhibit familiarity with the generic elements of current engineering applications and practices and have an awareness of the professional, legal and ethical responsibilities of the automotive engineer.
- KU7** Demonstrate a basic knowledge of business and management concepts, methods and techniques relevant to the practicing automotive engineer.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.
- CS3** Demonstrate creativity and innovation in the synthesis of solutions and in formulating designs.
- CS4** Investigate and define an engineering problem and identify associated constraints such as environmental and sustainability limitations, and health and safety.
- CS5** Manage effectively the design process, appreciate customer and user needs, evaluate outcomes, assess commercial risk and manage cost drivers.

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** Analyse and solve automotive engineering problems.
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- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.
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- PS6** Use laboratory and workshop equipment, along with appropriate instrumentation, in order to execute a series of experiments, both effectively and safely.
- PS7** Use appropriate computer software for design purposes and as a means of analysing and solving engineering problems.
- PS8** Produce engineering drawings, both manually and by employing Computer Aided Design facilities.
- PS9** Produce technical reports to a professional standard.
- PS10** Plan and deliver technical presentations.

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

Key skills (KS)

- KS1** Communicate effectively in writing, verbally and through graphical media.
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- KS3** Use computers and information technology effectively.
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- KS5** Demonstrate generic problem-solving skills acquired during the programme.
- KS6** Work and learn independently.
- KS7** Work effectively as a member of a group or team.
- KS8** Prepare for automotive employment

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: HND/DipHE Motorcycle Engineering

Knowledge and understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.
- KU5** Appreciate the full range of manufacturing processes employed in the automotive industry and have more detailed knowledge of common machining processes.
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- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.

- PS6** Use laboratory and workshop equipment, along with appropriate instrumentation, in order to execute a series of experiments, both effectively and safely.
- PS7** Use appropriate computer software for design purposes and as a means of analysing and solving engineering problems.

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Key skills (KS)

- KS1** Communicate effectively in writing, verbally and through graphical media.
- KS2** Manage time and resources, prioritise and work to deadlines.
- KS7** Work effectively as a member of a group or team.
- KS8** Prepare for automotive employment

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 1: HNC/CertHE Motorcycle Engineering

Knowledge and understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.

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

Practical skills (PS)

- PS1** Analyse and solve automotive engineering problems.
- PS2** Employ basic theoretical models and scientific principles where appropriate.
- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.

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

Key skills (KS)

KS1 Communicate effectively in writing, verbally and through graphical media.

KS2 Manage time and resources, prioritise and work to deadlines.

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

Level 4

All Level 4 students must normally pursue 120 credits at Level 4. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Full-time BEng Motorcycle Engineering (Year 1)

Semester 1 & 2

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
ACHA4002	Engineering Science	Compulsory	20
ACHA4003	Motorcycle Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

Full-Time HND/C Motorcycle Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
ACHA4002	Engineering Science	Compulsory	20
ACHA4003	Motorcycle Technology	Compulsory	20
ACHA4011	Workshop and Practice	Component pass	20

Part-Time BEng/HND/C Motorcycle Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
Year 2	Level 4	Semester 1 & 2	Sept to May
ACHA4002	Engineering Science	Compulsory	20
ACHA4003	Motorcycle Technology	Compulsory	20
ACHA4011	Workshop and Practice	Component pass	20

(3) BEng/HND/C/DipHE/CertHE Motorsport Engineering

The programme has the following general educational and specific aims:

To produce graduates who will:

- be pragmatic, taking a systematic approach and the logical and practical steps necessary for often complex concepts to become reality;
- seek to achieve sustainable solutions to problems and have strategies for being creative, innovative and overcoming difficulties by employing their skills, knowledge and understanding in a flexible manner;
- be skilled at solving problems by applying their numerical, computational, analytical and technical skills, using appropriate tools;
- be risk, cost and value-conscious, and aware of their ethical, social, cultural, environmental, health and safety, and wider professional responsibilities of the motorsport industry;
- be familiar with the nature of business and enterprise in the creation of economic and social value;
- appreciate the global dimensions of motorsport engineering, commerce and communication;
- be able to formulate and operate within appropriate codes of conduct, when faced with an ethical issue;
- be professional in their outlook, be capable of team working, be effective communicators, and be able to exercise responsibility and sound management approaches

Programme Learning Outcomes

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

Main Award: BEng Motorsport Engineering

Knowledge and Understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.
- KU2** Apply and integrate knowledge and understanding of other engineering disciplines and appreciate the wider multidisciplinary engineering context.
- KU3** Appreciate the social, environmental, ethical, economic and commercial considerations affecting the exercise of their engineering judgement.
- KU4** Knowledge and understanding of mathematical and computational concepts, methods and techniques which are employed elsewhere in the programme or regarded as essential for professional engineering.
- KU5** Appreciate the full range of manufacturing processes employed in the automotive industry and have more detailed knowledge of common machining processes.
- KU6** Exhibit familiarity with the generic elements of current engineering applications and practices and have an awareness of the professional, legal and ethical responsibilities of the automotive engineer.
- KU7** Demonstrate a basic knowledge of business and management concepts, methods and techniques relevant to the practicing automotive engineer.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.
- CS3** Demonstrate creativity and innovation in the synthesis of solutions and in formulating designs.
- CS4** Investigate and define an engineering problem and identify associated constraints such as environmental and sustainability limitations, and health and safety.
- CS5** Manage effectively the design process, appreciate customer and user needs, evaluate outcomes, assess commercial risk and manage cost drivers.

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** Analyse and solve automotive engineering problems.
- PS2** Employ basic theoretical models and scientific principles where appropriate.
- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.
- PS4** Design a system, component or process and recognise opportunities for improvements in a design.
- PS5** Take a holistic approach to problem-solving to encompass technical, business and social factors and constraints.
- PS6** Use laboratory and workshop equipment, along with appropriate instrumentation, in order to execute a series of experiments, both effectively and safely.
- PS7** Use appropriate computer software for design purposes and as a means of analysing and solving engineering problems.
- PS8** Produce engineering drawings, both manually and by employing Computer Aided Design facilities.
- PS9** Produce technical reports to a professional standard.
- PS10** Plan and deliver technical presentations.

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

Key skills (KS)

- KS1** Communicate effectively in writing, verbally and through graphical media.
- KS2** Manage time and resources, prioritise and work to deadlines.
- KS3** Use computers and information technology effectively.
- KS4** Locate and assemble information using various sources
- KS5** Demonstrate generic problem-solving skills acquired during the programme.
- KS6** Work and learn independently.
- KS7** Work effectively as a member of a group or team.
- KS8** Prepare for automotive employment

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: HND/DipHE Motorsport Engineering

Knowledge and understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.
- KU5** Appreciate the full range of manufacturing processes employed in the automotive industry and have more detailed knowledge of common machining processes.
- KU7** Demonstrate a basic knowledge of business and management concepts, methods and techniques relevant to the practicing automotive engineer.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.
- CS2** Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.
- CS3** Demonstrate creativity and innovation in the synthesis of solutions and in formulating designs.

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** Analyse and solve automotive engineering problems.
- PS2** Employ basic theoretical models and scientific principles where appropriate.
- PS3** Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.
- PS6** Use laboratory and workshop equipment, along with appropriate instrumentation, in order to execute a series of experiments, both effectively and safely.
- PS7** Use appropriate computer software for design purposes and as a means of analysing and solving engineering problems.

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

Key skills (KS)

- KS1** Communicate effectively in writing, verbally and through graphical media.
- KS2** Manage time and resources, prioritise and work to deadlines.
- KS7** Work effectively as a member of a group or team.
- KS8** Prepare for automotive employment

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 1: HNC/CertHE Motorsport Engineering

Knowledge and understanding (KU)

- KU1** Demonstrate their knowledge and understanding of essential facts, concepts, theories and principles of automotive engineering and its underpinning science and mathematics.

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** Apply appropriate quantitative science and engineering tools to the analysis of problems.

CS2 Demonstrate an ability to identify, classify and evaluate the performance of engineering systems and components using analytical methods and modelling techniques, and apply a systems approach to the solution of automotive engineering problems.

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

Practical skills (PS)

PS1 Analyse and solve automotive engineering problems.

PS2 Employ basic theoretical models and scientific principles where appropriate.

PS3 Apply the mathematical and computational tools and techniques which provide essential support for problem solving and decision making in automotive engineering.

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

Key skills (KS)

KS1 Communicate effectively in writing, verbally and through graphical media.

KS2 Manage time and resources, prioritise and work to deadlines.

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

Level 4

All Level 4 students must normally pursue 120 credits at Level 4. The credit rating of each module is specified in the module details.

PROGRAMME STRUCTURE

Full-time BEng Motorsport Engineering (Year 1)

Semester 1 & 2

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
ACHA4002	Engineering Science	Compulsory	20
ACHA4012	Motorsport Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

Full-Time HND/C Motorsport Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
ACHA4002	Engineering Science	Compulsory	20
ACHA4012	Motorsport Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

Part-Time BEng/HND/C Motorsport Engineering

Module Code	Title	Module type (component pass, core, compulsory or optional)	Credits
Year 1	Level 4	Semester 1 & 2	Sept to May
ACHA4000	Analytical Methods	Compulsory	20
ACHA4010	Electrical Control Systems	Compulsory	20
ACHA4001	Engineering Design & Materials	Compulsory	20
Year 2	Level 4	Semester 1 & 2	Sept to May
ACHA4002	Engineering Science	Compulsory	20
ACHA4012	Motorsport Technology	Compulsory	20
ACHA4011	Workshop & Practice	Component Pass	20

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

Note that on Programmes of Study offering a large number of options, timetable constraints will inevitably mean that not all combinations of options will be possible.

Module details are correct on 1 September 2022, and will not normally be changed during the year. In the unlikely event of changes having to be made to these details during the year, you will be notified in writing. Module descriptors are presented in the accompanying Module Directory document.

UNIVERSITY 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.

SCHOOL OF ENGINEERING ATTENDANCE POLICY

Through the years of running these engineering programmes, data has shown the correlation between students who have a high level of attendance and those who succeed on the course. Generally, those who attend well also often excel at their assessments too. With this in mind the School of Engineering would not only encourage students to attend the obligatory timetabled lectures but also the extra-curricular content that is offered as well. By taking full advantage of the opportunities open while studying, students will gain a range of skills that industry finds most desirable. These skills will not only make students successful within the course but also highly employable too after graduating.

Attendance Management for Engagement and Attainment

The School of Engineering will monitor the attendance of all students for engagement and attainment purposes. The School of Engineering has identified that the minimum percentage attendance / engagement will be 70% for students studying on a full time provision. However, it should be stressed that to be fully successful on these courses, students should aim for 100% attendance.

For students who are repeating or only taking limited modules as a full time student, the minimum percentage attendance will be decided on an individual basis and will be communicated to the students by their Head of Year.

The School of Engineering will ensure that its staff are aware of the University Attendance Policy and the specific School of Engineering arrangements.

The School of Engineering has implemented a Pastoral System, that will enable a student's attendance and attainment is managed effectively. As part of the pastoral system, each student will be assigned a specific Head of Year who will be their contact for any issues relating to attendance, engagement and attainment.

Foundation Level – Head of Year will be Richard Sutton
Level 4 – Head of Year will be Abi Summerfield
Level 5 – Head of Year will be Andrew Harrison
Level 6 – Head of Year will be the Programme Manager
Level 7 – Head of Year will be Dr Kerry Tudor

Undergraduate (UG) and Postgraduate (taught) (PGT) students should attend all their scheduled academic sessions (e.g. lectures, workshops, supervisory meetings). Students will register their attendance at academic sessions via a register system. This data will be recorded in a University devised electronic attendance monitoring system by the module tutors.

The Head of Year's will be checking the students attendance on a weekly basis to ensure that attendance issues are noted as soon as possible and a solution can be found to ensure the student remains engaged with the programme.

Face-to-Face attendance will be the only accepted form of attendance, unless previously agreed with a student's Head of Year.

Where there are circumstances in which a student is unable to attend for good reason, the School of Engineering would ask the students to contact their Head of Year so that authorised absences can be included on the registers.

If students are struggling with attendance or attainment, then as well as the Head of Year contact, the university also has a number of other support systems in place that students can contact

Student Hwb can be contacted for access to any of the support services available through Student Services on hwb@uwtsd.ac.uk
 Student Assistance Programme can be accessed 24/7 by any UWTSD student, including mental health support, on 0800 028 3766. The professional staff are on hand to offer you support at any time.
 Study Skills Support Sessions – studyskillsdistance@uwtsd.ac.uk
 Counselling Service information available at www.uwtsd.ac.uk/counselling
 Money Support available at www.uwtsd.ac.uk/student-services/money-support

School of Engineering Response to Poor Attendance

As stated **above**, a student's average attendance should aim to be 100%. For those students whose attendance drops, the School of Engineering has a set process that will be triggered.

The process will be a mixture of informal and formal responses and is shown in the table below;

Letter/email label	Letter or email	UG	PGT Part I	Response Required
Percentage attendance related:				
EA1 Percentage Attendance Reminder (UG/PGT Part I)	E	✓	✓	
EA2 Percentage Attendance Warning (UG/PGT Part I)	E & L	✓	✓	✓
EA3 Notification of Action Required (Second Warning) (UG/PGT Part I)	E & L	✓	✓	✓
EA4 Notification of Withdrawal due to Percentage Attendance (UG/PGT Part I)	E & L	✓	✓	✓

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 programme 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.

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 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/>