

## **PROGRAMME SPECIFICATION**

Part 1: Basic Data				
Awarding Institution	University of the West of England, Bristol			
Teaching Institution	University of the West of Er	ngland, Bristol		
Delivery Location				
Faculty responsible for programme	Faculty of Environment and	Technology		
Department responsible for programme	Department of Engineering	Design and Mathematics		
Modular Scheme Title				
Professional Statutory or Regulatory Body Links	IMechE			
Highest Award Title	MEng Automotive Engineer	ing		
Default Award Title				
Interim Award Titles	BEng(Hons) Automotive Engineering BEng Automotive Engineering Diploma of Higher Education, Automotive Engineering Certificate of Higher Education, Automotive Engineering			
UWE Progression Route				
Mode(s) of Delivery	Full Time /Part Time/Sandw	<i>l</i> ich		
Codes	UCAS: H335 ISIS2:	JACS: HESA:		
Relevant QAA Subject Benchmark Statements	Engineering			
CAP Approval Date	5 February 2015 v1.2, June 2015 v1.3; July 2015 V2; Jan 2016 v2.1; June 2016 v2.2, Jan 2017 v3; 16 Jan 2018 v4			
Valid From	September 2013			
Revised with effect from	September 2018			
Valid until Date				
Version	4			

## Part 2: Educational Aims of the Programme

The aim of the Faculty's MEng programmes is to respond to the need for effective engineering practitioners by offering programmes that are an intellectually challenging mix of taught engineering science and experiential learning. The practitioner approach is intended to produce engineers with a strong orientation towards problem solving, underpinned by theoretical knowledge.

The aim of the Automotive Engineering programme is to produce graduates with a broad understanding of mechanical analysis and design, combined with awareness of engineering practice, information technology, assembly and manufacture, project management and business issues, all contextualised to the automotive environment. Graduates with MEng will be equipped to solve multi-disciplinary problems and lead future developments in industry. It is anticipated that graduates from the course will play a major role in the design, management and co-ordination of multi-disciplinary projects.

The development of the award was undertaken with reference to the QAA Subject Benchmark in Engineering (2010) with particular reference to the learning outcomes and ethos of the MEng degree.

The engineering provision at UWE is entirely in alignment with the subject benchmark statements, and the design of this MEng properly reflects the QAA in its statement regarding MEng degrees: "Crucially, they will have the ability to integrate their knowledge and understanding......to solve a substantial range of Engineering problems.....through involvement in individual and group design projects, ...."

The aims of the programme are:

- To prepare students for careers in automotive engineering and related disciplines. The content of the programme ensures that students will have the appropriate level of knowledge and understanding of mechanical engineering so that they will also be suitable for employment in the wider engineering domain and not be restricted only to the automotive environment.
- 2. To provide knowledge and understanding of scientific principles and methods necessary to underpin the students' education in engineering. To provide .insight into, and practical skills in, the creation of complex engineering products, particularly in relation to automotive engineering. This involves understanding the opportunities provided by vehicle power trains, chassis configurations, various materials, aerodynamics assembly and manufacture; all considered within the constraints imposed by the relevant regulations. In addition, issues relating to efficient and effective use of resources within the power train and the reduction of environmental impact will be explored.
- 3. To provide the students with the ability to integrate their knowledge and understanding of core subject material in order to solve a substantial range of engineering problems, including ones of a complex nature.
- 4. To prepare students for progression to study for higher degrees in appropriate engineering subjects.
- 5. To continue the development of those general study skills that will enable students to become independent, lifelong learners.
- 6. Pursue independent study, undertake enquiry into novel and unfamiliar concepts and implement change in an Engineering environment.

P	Part 3: Learning Outcomes of the Programme				
	The award route provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas:				
Le	arning Outcomes	Teaching, Learning and Assessment Strategies			
	A Knowledge	and Understanding			
1.	<b>Consistent of the second seco</b>	<b>Teaching/learning methods and strategies:</b> Acquisition of 1 to 7 is through a combination of formal lectures, tutorials, laboratory work, guided			
2.	Generic engineering topics, plus additional specialist subjects relating to automotive engineering (such as vehicle dynamics, aerodynamics and power train systems).	project work, group assignments, independent projects and case studies. The programme of study is designed to introduce basic knowledge and understanding of the			
	Structures, materials and safety.	technologies underpinning engineering, design and product development through a range of level 1 modules.			
5.	mechanical elements in complex engineering systems.	This basic knowledge developed through a range of taught modules at levels 2, 3 and M is integrated through group design and individual project work at			
	engineering products and manufacture.	levels 3 and M.			
6.	commercial factors and their influence or	Throughout, the student is encouraged to undertake independent reading both to supplement and fconsolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.			
7.	The complexity of large-scale engineering systems and projects, with particula emphasis upon automotive systems.				
		Assessment:			
		Testing of the knowledge base is through assessed course work, through tasks undertaken under examination conditions, through oral presentations and assessed practical work done in various laboratories.			
		Project work involves both presentation and inquisition.			

	B Intell	ectual Skills
Inte	ellectual Skills	Teaching/learning methods and strategies:
1.	The ability to produce solutions to problems through the application of engineering knowledge and understanding.	At all levels students are required to bring together knowledge and skills acquired in several modules and hence determine new ways of working. As the student progresses, the need to synthesise ever-
2.	modelling and analysis of engineering systems, processes and products. The ability to select and apply appropriate	greater volumes of information and approaches into a coherent approach is developed and consequently so is their critical thinking.
	analysing relevant problems.	At level 1 analysis, evaluation and problem solving are developed on small-scale problems in various programming activities in a number of modules.
3.	The ability to use a broad spectrum o technologies/techniques and solve complex engineering problems.	Here the focus is on understanding the problem and then solving it free from the environmental implications of real- world problems and without the need to examine alternatives and to balance
4.	Adoption of a creative and innovative approach to solving problems and design	conflicting goals.
	constraints.	problems to the design of larger scale systems. With this comes the need to evaluate alternative methods
5.	demonstration of of a professional attitude	and designs and to balance conflicting objectives. Level 3 sees the move to specific application examples and with it the need to appreciate problem contexts is developed as well as striking the right
6.	analysing problems in fields relating to the	balance when facing conflicting objectives.
	automotive components and systems	modules and those involving project work.
7.	The ability to apply theory in unfamiliar applications and to assimilate new theory.	Assessment:
		The development of engineering solutions requires demonstration of all of the intellectual skills. At level 1 the focus is on the skills of Analysis, Evaluation and Problem Solving. At levels 2 and 3 this branches out to include all the remaining skills. Level M examinations are more demanding and project work is open-ended, with key decisions to be made by students.
		Independent reading is used to enable students to focus on their own areas of interest and in the process assimilate skills in submitted reports, assignments and exam answers.

C Subject, Profession	al and Practical Skills
C Subject, Professional and Practical Skills	Teaching/learning methods and strategies:
	Throughout the program, the skills listed are developed through a combination of theoretical discussion, practical laboratory based work, classroom based tutorial exercises and directed self-study.
supporting technical analysis and critical evaluation of results.	Many of the skills listed are introduced at level 1 and then drawn into sharper focus at levels 2 and 3.
3 Understanding and execution of the design process.	The general teaching/learning method is
4 Use of a range of computer software for design, analysis and control.	therefore to impart these practical/professional skills by a process of moving from an overview of what is required to a specific application of an individual skill at a higher level.
member of a group.	Some very specific skills are introduced at level 3. These are underpinned by the more generalized capabilities that are practised
	throughout the levels in most of the modules that contribute to the award.
	Point 6 is emphasized at level M through careful management and assessment of the level M Group Project.
	Assessment:
	The possession of these skills is demonstrated by the development of practical laboratory work, coursework, presentations and examinations. The practical nature of the skills to be acquired means that some are specifically addressed by particular modules, whilst the more generic skills are assessed across a range of modules.
D Transferable Skills	and other attributes
D Transferable Skills and other attributes	Teaching/learning methods and strategies:
<ol> <li>Communication skills: to communicate orally or in writing, including, for instance, the results of technical investigations, to peers and/or to "problem owners".</li> </ol>	and strategies including the following:
<ol> <li>Self-management skills: to plan and manage time, to meet deadlines and to work with others.</li> </ol>	work sessions.
3. IT Skills in Context (to use software in the	in tutorials

<ul> <li>Students present technical work in written reports.</li> <li>Problem formulation and solution.</li> <li>Progression to self-learning: To gain experience of and to develop skillsand strategies including the following:</li> <li>Comprehension of professional literature: to support learning activities.</li> <li>Ability to critically appraise and adjust plans to changing circumstances.</li> <li>Ability to think independently and self-manage the work environment</li> <li>Students practice design and programming</li> <li>Students practice design and programme.</li> <li>Students practice design and programme.</li> <li>Students practice design and programming</li> <li>Students are encouraged to practice programming to extend their skills</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to access online material and academic literature available from the professional institutions.</li> <li>Ti dealt with through the level M Group project in which circumstances and constraints are changed, requiring students to adapt their approach. Critical appraisal of mesearch literature and assessment of alternative view are inherent to the individual project at level M.</li> </ul>	r	context of problem colving investigations	Otudanta naticinata in individual tutariala
<ol> <li>Problem formulation and solution.</li> <li>Progression to self-learning: To gain experience of and to develop skillsand strategies including the following: independently of structured class work.</li> <li>Comprehension of professional literature: to read and to use literature sources appropriate to the discipline to support learning activities.</li> <li>Ability to critically appraise and adjust plans to changing circumstances.</li> <li>Ability to think independently and self- manage the work environment</li> <li>Students practice design and programming</li> <li>Students practice design and programming</li> <li>Students practice design and programme.</li> <li>Students practice design and programs</li> <li>Students practice design and programming</li> <li>Students practice design and programming</li> <li>Students practice design and programs</li> <li>Students practice design and programming</li> <li>Students are encouraged to practice programs</li> <li>Students are encouraged to practice programs</li> <li>Students are encouraged to practice programs</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to access and strategies including the following:</li> <li>Students are encouraged to access and strategies including the following:</li> <li>Students are encouraged to access and strategies including the following:</li> <li>Students are encouraged to access and strategies including the following:</li> <li>Students are encouraged to access and strategies including the following:</li> <li>Students are encouraged to access and strategies including the following:</li> <li>Students are encouraged to access online material and academic literature available from the prof</li></ol>		context of problem-solving investigations and to interpret findings)	Students present technical work in
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<ul> <li>6. Comprehension of professional literature sources appropriate to the discipline to support learning activities.</li> <li>7. Ability to critically appraise and adjust plans to changing circumstances.</li> <li>8. Ability to think independently and self-programming</li> <li>3 is developed widely throughout the programming</li> <li>4 is developed through a variety of methods and strategies including the following:</li> <li>Students work through practice design and programming</li> <li>Students are encouraged to practice programming to extend their skills</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to access online material and academic literature available from the professional institutions.</li> <li>7 is dealt with through the level M Group project in which circumstances and constraints are changed, requiring students to adapt their approach. Critical appraisal of research literature and assessment of alternative views are inherent to the individual project at level M.</li> </ul>	5.	experience of and to develop skills	<ul><li>and strategies including the following:</li><li>Students conduct self-managed practical</li></ul>
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<ul> <li>8. Ability to think independently and self-programme. manage the work environment</li> <li>4 is developed through a variety of methods and strategies including the following: <ul> <li>Students develop problem solving programs</li> <li>Students practice design and programming</li> <li>Students sketch designs of larger systems</li> </ul> </li> <li>5 is developed through a variety of methods and strategies including the following: <ul> <li>Students are encouraged to practice programming to extend their skills</li> <li>Students are encouraged to practice programming to extend their skills</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to use online facilities to discover information</li> </ul> </li> <li>6 is developed through a variety of methods and strategies including the following: <ul> <li>Students are encouraged to use online facilities to discover information</li> </ul> </li> <li>6 is developed through a variety of methods and strategies including the following: <ul> <li>Students are encouraged to use online facilities to discover information</li> </ul> </li> <li>6 is developed through a variety of methods and strategies including the following: <ul> <li>Students are encouraged to access online material and academic literature available from the professional institutions.</li> </ul> </li> <li>7 is dealt with through the level M Group project in which circumstances and constraints are changed, requiring students to adapt their approach. Critical appraisal of research literature and assessment of alternative views are inherent to the individual project at level M.</li> </ul>	7.		, i i i i i i i i i i i i i i i i i i i
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8 is most exercised at level M, where debate is			in which circumstances and constraints are changed, requiring students to adapt their approach. Critical appraisal of research literature and assessment of alternative views
	<b>_</b>		8 is most exercised at level M, where debate is

encouraged, mainly within project work, but also in other modules where appropriate.
Assessment:
<ul> <li>These skills are demonstrated in a variety of context including <ul> <li>examination</li> <li>poster presentation.</li> <li>individual and group projects</li> <li>practical assignments</li> <li>portfolio of exercises</li> <li>Individual project levels 3 and M.</li> </ul> </li> <li>In addition skill 2 is assessed by both peers and tutors.</li> </ul>

Part 4: Programme Structure This structure diagram demonstrates the student journey from Entry through to Graduation for a typical full time student, including: level and credit requirements, interim award requirements, module diet, including compulsory and optional modules				
ENTRY		Compulsory Modules	Optional Modules	Interim Awards
	Year 1	UFMFJ9-30-1 Engineering Mathematics UFMFN3-30-1 Design, Materials & Manufacturing UFMFH3-30-1 Stress & Dynamics UFMFF3-15-1 Energy and Thermodynamics UFMFG3-15-1 Fluid Dynamics		CertHE Automotive Engineering 120 credits at appropriate level

	Compulsory Modules	Optional Modules	Interim Awards
	UFMF88-30-2 Design and Electromechanical Systems		DipHE Automotive Engineering 240 credits at appropriate
	UFMFMC-30-2 Automotive Technology		level
Year 2	UFMFKP-15-2 Engineering Maths 2 (PBL)		
	UFMFLP-15-2 Dynamics (PBL)		
	UFMFMP-15-2 Stress Analysis (PBL)		
	UFMFHA-15-2 Project Management		
Year year 2.	Out: Students on the Sandy Students on the sandwich rou	l wich route take spend a year on a te will undertake UFMF89-15-3 Indu	work or study placement after ustrial Placement
	Compulsory Modules	Optional Modules	Awards:
	UFMFU7-15-3 Computational Methods	<b>Choose one from:</b> UFMFM7-15-3 Business Environment	BEng Automotive Engineering
	UFMFXJ-15-3 Vibrational Dynamics	UFMF89-15-3 Industrial Placement	300 credits at appropriate level
	UFMFY8-30-3 Individual Project MEng Part A	UFMFCL-15-3 Engineering and Society	BEng(Hons) Automotive Engineering
	The MEngA module is the default but the BEng	Choose one from:	360 credits at appropriate level
Year 3	module can be accepted by agreement with the programme	UFMFNC-30-3 Automotive Manufacturing	
	leader, subject to the student meeting progression criteria from	UFMFT9-30-3 Motorsport Performance	
	Level 2	Choose one from:	
	UFMFX8-30-3 Individual Project BEng	UFMFYJ-15-3 Control Engineering	
	DElig	UFMF7K-15-3 Materials and Structures for Special Applications	
		UFMFU6-15-3 Composite Engineering	

	Compulsory Modules	Optional Modules	Highest Award:
Masters	UFMERY-30-M Individual Project MEng (Part B) UFMFVL-15-3-M Mechanics of Composites UFMFWL-15-3-M Computational Fluid Dynamics (CFD) UFMFXC-15-M Masters Group Project UFMEVE-15-M Advanced Chassis UFMF8E-15-M Advanced Powertrain Technologies	Choose one from: UFMEBP-15-M Structural Integrity in Design UFMFCC-15-M Industrial Applications of Vision and Automation UFMEEA-15-M Electromechanical Systems Integration	MEng Automotive Engineering 480 credits at appropriate level

# GRADUATION

## Part 5: Entry Requirements

The university's minimum requirements for entry to a degree apply to this programme. In addition entrants are required to have evidence of achievement equivalent to Mathematics at A2 Level (at grade B or above), plus evidence of achievement equivalent to A2 Level in another scientific discipline (for example, physics, chemistry, engineering, design and technology). The normal offer is listed on the UWE website.

It should be noted that years 1, 2 and 3 of the MEng Automotive Engineering are common with the BEng Automotive Engineering.

Progression to MEng is dependent upon the achievement of a 60% average across 120 credits at level 2 due to professional body requirements. Direct Entry students wishing to enrol on the MEng at UWE should demonstrate the equivalent 60% average on their level 2 modules.

#### Part 6: Assessment

Approved to a variant of the University Regulations and Procedures.

The 480 credit integrated Bachelor / Masters degree (or 600 credit integrated Bachelor / Masters with foundation year) is not classified, but may be awarded with merit or distinction.

The award of merit or distinction in Automotive Engineering is determined as follows:

#### Distinction

An overall average of 70% has been achieved across 210 credits at level 3 or above (FHEQ level 6). This average will be calculated based upon the marks for all of the level M modules (FHEQ level 7) and at level 3, must include the marks and whole credit for the project followed by the marks for the best remaining level 3 modules (FHEQ level 6) which are then required to make up the credit total.

#### Merit

An overall average of 60% has been achieved across 210 credits at level 3 or above (FHEQ level 6). This average will be calculated based upon the marks for all of the level M modules (FHEQ level 7) and at level 3, must include the marks and whole credit for the project followed by the marks for the best remaining level 3 modules (FHEQ level 6) which are then required to make

## Part 7: Student Learning

# Teaching, learning and assessment strategies to enable learning outcomes to be achieved and demonstrated

At UWE there is a policy for a minimum average requirement of 12 hours/week contact time over the course of the full undergraduate programme. This contact time encompasses a range of face to face activities as described below. In addition a range of other learning activities will be embedded within the programme which, together with the contact time, will enable learning outcomes to be achieved and demonstrated.

In Engineering it is recognized that a higher contact time is desirable and so laboratory-based modules have an extra factor included in the time calculation which provides more hours. In addition the level 1 and 2 students have timetabled Peer-Assisted Learning hours, where trained level 2 and 3 students (as appropriate) work with groups.

#### **Class Activities**

The mode of delivery of a module is determined by its Module Leader, and typically involves a combination of one or more lectures, tutorials, 'lectorials', laboratory classes, group activities and individual project work.

Modules are predominantly delivered by means of large group lectures, supported by smaller 'lectorials': classes for groups of 20-30 students to allow a closer interaction and discourse with staff.

#### Academic Support

Academic advice and support is the responsibility of the staff delivering the module in question. Staff are expected to be available outside normal timetabled hours, either by appointment or during published "surgery" hours, in order to offer advice and guidance on matters relating to the material being taught and on its assessment.

#### Pastoral Care

The faculty offers pastoral care through two routes:

- Academic Personal Tutors: All level 1 students are assigned a Personal Academic Tutor, who is an academic member of staff in their department. Students meet individually with their tutor at least twice a year and also participate in group sessions with the Personal Academic Tutor's tutor group (max size 15) during years 1 and 2. In year 3 project supervisors take on the role of Personal Academic Tutor.
- Student Advisers, a team of administrative staff who provide comprehensive, full-time student support service on a drop-in basis or by appointment. Advisers are trained to provide advice on matters commonly of concern, including regulatory and other matters; the Adviser will, when necessary, advise the student to seek advice to from other professional services including the university's Centre for Student Affairs or from members of academic staff.

#### Progression to Independent Study

Many modules require students to carry out independent study, such as research for projects and assignments, and a full range of facilities are available at all sites to help students with these. The philosophy is accordingly to offer students both guided support and opportunities for independent study. Guided support, mainly in the form of timetabled sessions, takes the form of lectures, tutorials, seminars and practical laboratory sessions. Students are expected to attend all sessions on their timetable, and this is especially important because of the high content of practical work in the programme.

The progression to independent study will also be assisted by the nature of the support offered in individual modules. Typically, module leaders will provide a plan for the module indicating the activities to be carried out and the forms of learning to be undertaken during the delivery of the module, with a view to encouraging students to plan ahead and to take responsibility for managing their time and resources.

#### **Computing Facilities**

The Faculty offers a specialised computing facility alongside the general University provision. There are a number of general PC computing laboratories of 20 plus seats all running Windows7, two 40 seater PC labs, two Unix based laboratories and 10 specialist computing labs. All computer laboratories are available to students up until midnight, seven days per week, and many are on 24 hour access. The specialist laboratories are equipped with the specific software for Engineering students; including Software Design Tools development environment, CAD, finite element analysis, mathematics and statistics packages to support the taught program. The specialist Computing laboratories are designed to target the discipline taught in that area.

Due to the extensive computing facilities provided within the Faculty, and the specialist nature of this facility, the need for user support is high. The Faculty provides a user support Helpdesk. The Helpdesk provides first line support, uniquely supported by both permanent staff and students that are in their second or final year of study (employed on a part time basis) during normal working hours.

#### Description of Distinctive Features and Support

# Automotive Engineering

To distinguish this award from other engineering awards in the faculty, students on the Automotive Engineering award will study discipline specific modules, as seen from this programme specification, as well as modules shared with other awards. Shared modules are normally cohort streamed, which enables the use of discipline focused examples in the delivery of general engineering material. Modules will be supported by appropriate discipline relevant laboratory exercises, including engine dynamometry, combustion chemistry and chassis dynamics, to name but a few.

# Design and Engineering Lab Facilities

Students on Engineering programmes can access a suite of specialist laboratories. These include Motorsport, Structures, Material Science, Dynamics, Thermofluids, Aero (with subsonic and supersonic wind tunnels and a programmable flight simulator with hydraulic motion platform), plus manufacturing workshops including CNC machines, laser cutting and rapid prototyping.

Students have 24/7 access to industry standard Computational Engineering software such as Ansys-CFX for Computational Fluid Dynamics and Abaqus for Mechanics of Composites.

## Technology Enhanced Learning

Staff in the department are keen adopters of technology to support and enhance student learning. This includes

- computer based e-assessment implemented in a number of modules, so that students can take regular short tests with automated computer generated feedback.
- Recordings of some lectures (audio and video) which are made available after classes via the university's Virtual Learning Environment.

#### The Placement Year

An optional placement year provides opportunities for real-world, industrially based final year projects. The student will in most cases be on a formal contract in which they are paid for their employment. He or she will have the opportunity to explore career possibilities, make new business contacts for the future and prepare for the final year at University. Students are responsible for finding their own placement, however, many opportunities are published through the University Placements Office, and the process of finding a placement is supported in year 2 of the Graduate Development sessions. Once on placement, students retain access to the support network of the University and will be visited in their place of work at least once by a Visiting Tutor. Placement students gain credit for their work through submitting a portfolio, which reduces the amount of credit required to be taken in their final year by 15 credits.

#### Mathematics Support

- EspressoMaths: provides drop-in one-to-one tuition each day in social learning areas and a web-site that provides a portal to a variety of on-line resources in mathematics and statistics.
- Mathematical software used in the programme is available for home use free of charge.

#### Part 8: Reference Points and Benchmarks

Description of *how* the following reference points and benchmarks have been used in the design of the programme:

This programme has been prepared with reference to a number of external benchmarks, including the QAA Subject Benchmark Statement for Engineering, the QAA Framework for HE Qualifications, the university's Learning & Teaching Strategy, and a number of more specialised publications relating to motorsport education as referenced below.

The Subject Benchmark Statement for Engineering outlines a set of skills expected of a graduate in an engineering discipline (Section 4 of the Statement refers), while noting that they should be interpreted in the context of the particular engineering discipline which is being

# Part 8: Reference Points and Benchmarks

studied. These skills map closely to the skills contained in the learning outcomes for this programme, and hence we have confidence that the programme is in accordance with the precepts of the Statement.

The university's Learning & Teaching Strategy has informed the faculty's policy for the delivery of its programmes, whose main features are described in section 7.

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First CAP Approval Date				
Revision CAP		Version	1	
Approval Date			1.1	
Update this row			1.2	
each time a			1.3	
change goes to			2	
CAP			2.1	
			2.2	
			3	
	16 Jan 2018		4	Link to RIA (ID 4582)
Next Periodic				culum Review due (6 years from initial
Curriculum	approval or last	Periodic Curi	nculum Review	/)
Review due date				
Date of last				
Periodic				
Curriculum				
Review				



#### **PROGRAMME SPECIFICATION**

Part 1: Basic Data	Part 1: Basic Data			
Awarding Institution	University of the West of England, Bristol			
Teaching Institution	University of the West	of England, Bristol		
Delivery Location				
Faculty responsible for programme	Faculty of Environmen	t and Technology		
Department responsible for programme	Department of Enginee	ering Design and Mathematics		
Modular Scheme Title				
Professional Statutory or Regulatory Body Links	IMechE			
Highest Award Title	BEng(Hons) Automotiv	/e Engineering		
Default Award Title				
Interim Award Titles	BEng Automotive Engineering Diploma of Higher Education, Automotive Engineering Certificate of Higher Education, Automotive Engineering			
UWE Progression Route				
Mode(s) of Delivery	Full Time /Part Time/ S	Sandwich		
Codes	UCAS: H331 ISIS2:	JACS: HESA:		
Relevant QAA Subject Benchmark Statements	Engineering			
CAP Approval Date	February 2015 v1.2, June 2015 v1.3; July 2015 v2; Feb 2016 v2.1, Jan 2017 v3; 16 Jan 2018 v4			
Valid From	September 2018			
Valid until Date				
Version	4			

#### Part 2: Educational Aims of the Programme

The aim of the Faculty's BEng(Hons) programmes is to respond to the need for effective engineering practitioners by offering programmes that are an intellectually challenging mix of taught engineering science and experiential learning. The practitioner approach is intended to produce engineers with a strong orientation towards problem solving, underpinned by theoretical knowledge.

The aim of the Automotive Engineering programme is to produce graduates with a broad understanding of mechanical analysis and design, combined with awareness of engineering practice, information technology, manufacturing, project management and business issues, all contextualised to the automotive engineering environment. Graduates with BEng(Hons) will be equipped to solve multi-disciplinary problems and lead future developments in industry. It is anticipated that graduates from the course will play a major role in the design, management and co-ordination of multi-disciplinary projects.

The development of the award was undertaken with reference to the QAA Subject Benchmark in Engineering (2010) with particular reference to the learning outcomes and ethos of the BEng(Hons) degree.

The aims of the programme are:

- 7. To prepare students for careers in automotive engineering and related disciplines. The content of the programme ensures that students will have the appropriate level of knowledge and understanding of mechanical engineering so that they will also be suitable for employment in the wider engineering domain and not be restricted only to the Automotive environment.
- 8. To provide knowledge and understanding of scientific principles and methods necessary to underpin the students' education in engineering. To provide insight into, and practical skills in, the creation of complex engineering products, particularly in relation to automotive engineering. This involves understanding the opportunities provided by vehicle power trains, chassis configurations, various materials, aerodynamics, assembly and manufacture; all considered within the constraints imposed by the relevant regulations. In addition, issues relating to efficient and effective use of resources within the power train and the reduction of environmental impact will be explored.
- 9. To provide the students with the ability to integrate their knowledge and understanding of core subject material in order to solve a substantial range of engineering problems, including ones of a complex nature.
- 10. To prepare students for progression to study for higher degrees in appropriate engineering subjects.
- 11. To continue the development of those general study skills that will enable students to become independent, lifelong learners.

Part 3: Learning Outcomes of the Programm	le	
The award route provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas:		
A Knowledge a	and Understanding	
Knowledge and understanding of:	Teaching/learning methods and strategies:	
<ol> <li>Automotive and Mechanical Engineering principles and design.</li> <li>Generic engineering topics, plus additional conscious engineering topics.</li> </ol>	Acquisition of 1 to 6 is through a combination of formal lectures, tutorials, laboratory work, guided project work, group assignments, independent projects and case studies.	
specialist subjects relating to automotive engineering (such as vehicle dynamics, aerodynamics and power train systems).	The programme of study is designed to introduce basic knowledge and understanding of the technologies underpinning engineering, design and	
10. Structures, materials and safety.	product development through a range of level 1 modules.	
<ol> <li>Integration of mechanical and non- mechanical elements in complex engineering systems.</li> </ol>	This basic knowledge developed through a range of taught modules at levels 2, 3 and is integrated through individual project work at level 3.	
12. Business issues relating to automotive engineering products and manufacture.	Throughout the student is encouraged to undertake independent reading both to supplement and	
commercial factors and their influence on	consolidate what is being taught/learnt and to	
	Assessment:	
	Testing of the knowledge base is through assessed course work, through tasks undertaken under examination conditions, through oral presentations and assessed practical work done in various laboratories.	
	Project work involves both presentation and inquisition.	
B Intelle	ectual Skills	
Intellectual Skills	Teaching/learning methods and strategies:	
through the application of engineering knowledge and understanding.	At all levels students are required to bring together knowledge and skills acquired in several modules and hence determine new ways of working. As the student progresses, the need to synthesise ever-	
<ol> <li>The ability to use scientific principles in the modelling and analysis of engineering systems, processes and products. The</li> </ol>	greater volumes of information and approaches into a coherent approach is developed and consequently so is their critical thinking.	

Part 3: Learning Outcomes of the Programme					
3. 4. 5.	<ul> <li>mathematical methods for modelling and analysing relevant problems.</li> <li>The ability to use a broad spectrum of technologies/techniques and solve complex engineering problems.</li> <li>Adoption of a creative and innovative approach to solving problems and design and manage conflicting objectives and constraints.</li> <li>Comprehension of the broad picture and demonstration of of a professional attitude to the responsibilities of engineering practitioners.</li> <li>Critical Thinking: The ability to select and apply appropriate mathematical and computer based methods for modelling and analysing problems in fields relating to the</li> </ul>	At level 2 there is a move away from small-scale problems to the design of larger scale systems. With this comes the need to evaluate alternative methods and designs and to balance conflicting objectives. Level 3 sees the move to specific application examples and with it the need to appreciate problem contexts is developed as well as striking the right balance when facing conflicting objectives.			
	C Subject, Professio	onal and Practical Skills			
C Subject, Professional and Practical Skills		Teaching/learning methods and strategies:			
1.		Throughout the program, the skills listed are developed through a combination of theoretical discussion, practical laboratory based work, classroom based tutorial exercises and directed			
2.	Demonstrate practical testing of engineering ideas through laboratory work or simulation with supporting technical analysis and critical evaluation of results.	self-study.			
3.	process.	The general teaching/learning method is therefore to impart these practical/professional skills by a process of moving from an overview of what is			
4.	Use of a range of computer software for	required to a specific application of an individual			

Part 3: Learning Outcomes of the Programme						
	design, analysis and control.	skill at a higher level.				
5.	0	Some very specific skills are introduced at level 3. These are underpinned by the more generalized capabilities that are practised throughout the levels in most of the modules that contribute to the award.				
		Assessment:				
		The possession of these skills is demonstrated by the development of practical laboratory work, coursework, presentations and examinations. The practical nature of the skills to be acquired means that some are specifically addressed by particular modules, whilst the more generic skills are assessed across a range of modules.				
	D Transferable Skills and other attributes					
DT	ransferable Skills and other attributes	Teaching/learning methods and strategies:				
1.	Communication skills: to communicate orally or in writing, including, for instance, the results of technical investigations, to peers and/or to "problem owners".	<ul> <li>strategies including the following:</li> <li>Students maintain laboratory log books</li> <li>Students participate in electronic</li> </ul>				
2.	Self-management skills: to plan and manage time, to meet deadlines and to work with others.	<ul> <li>Students present research topic findings in tutorials</li> </ul>				
3.	IT Skills in Context (to use software in the context of problem-solving investigations, and to interpret findings)	<ul> <li>Students participate in individual tutorials</li> <li>Students present technical work in written reports.</li> </ul>				
4.	Problem formulation and solution.	2 is developed through a variety of methods and strategies including the following:				
5.	Progression to self-learning: To gain experience of and to develop skills independently of structured class work.	<ul> <li>Students participate in practically-oriented tutorial laboratory sessions</li> </ul>				
6.	Comprehension of professional literature: to read and to use literature sources appropriate to the discipline to support learning activities.	In teams				
		3 is developed widely throughout the programme.				
		4 is developed through a variety of methods and strategies including the following:				
		<ul> <li>Students develop problem solving programs</li> <li>Students practice design and programming</li> <li>Students sketch designs of larger systems</li> </ul>				

Part 3: Learning Outcomes of the Programn	10
	<ul> <li>5 is developed through a variety of methods and strategies including the following:</li> <li>Students are encouraged to practice programming to extend their skills</li> <li>Students develop problem-solving programs</li> <li>Students are encouraged to research relevant topics</li> <li>Students are encouraged to use online facilities to discover information</li> <li>6 is developed through a variety of methods and strategies including the following:</li> <li>Students are encouraged to access online material and academic literature available from the professional institutions.</li> </ul>
	<ul> <li>These skills are demonstrated in a variety of context including</li> <li>examination</li> <li>poster presentation.</li> <li>individual and group projects</li> <li>practical assignments</li> <li>portfolio of exercises</li> <li>individual project at level 3</li> <li>In addition skill 2 is assessed by both peers and tutors.</li> </ul>

# Part 4: Programme Structure

This structure diagram demonstrates the student journey from Entry through to Graduation for a typical **full time student**, including: level and credit requirement; interim award requirements module diet, including compulsory and optional modules

ENTRY		Compulsory Modules	Optional Modules	Interim Awards
		UFMFJ9-30-1 Engineering Mathematics		CertHE Automotive Engineering
	Year 1	UFMFN3-30-1 Design, Materials & Manufacturing		120 credits at appropriate level
Ļ		UFMFH3-30-1 Stress & Dynamics		
		UFMFF3-15-1 Energy and Thermodynamics		
		UFMFG3-15-1 Fluid Dynamics		
		Compulsory Modules	Optional Modules	Interim Awards
		UFMF88-30-2 Design and Electromechanical Systems		DipHE Automotive Engineering 240 credits at
		UFMFMC-30-2 Automotive Technology		appropriate level
	Year 2	UFMFKP-15-2 Engineering Maths 2 (PBL)		
		UFMFLP-15-2 Dynamics (PBL)		
		UFMFMP-15-2 Stress Analysis (PBL)		
		UFMFHA-15-2 Project Management		
	Year Out: Students on the Sandwich route take spend a year on a work or splacement after year 2. Students on the sandwich route will undertake UFMF89- Industrial Placement			

# GRADUATION

# Part 5: Entry Requirements

The university's minimum requirements for entry to a degree apply to this programme. In addition entrants are required to have evidence of achievement equivalent to Mathematics at A2 Level (at grade C or above), plus evidence of achievement equivalent to A2 Level in another scientific discipline (for example, physics, chemistry, engineering, design and technology). The normal offer is listed on the UWE website.

#### Part 6: Assessment

Approved to a variant of the University Regulations and Procedures.

The classification for the 360 credit honours degree (or 480 credit honours degrees with an integrated foundation year) is based upon the best marks achieved for 100 credits at level 3 and the best marks achieved for the next 100 credits at level 2 or above. The calculation at level 3 must always use the full credit and mark for the level 3 project followed by the best marks associated with the remaining level 3 credits. Where the credit size of the best marks associated with the remaining level 3 credits would give a credit total greater than 100, only the relevant portion of credit is counted. The unused credit may be counted towards the set of best marks at level 2 or above. Marks achieved for the 100 level 3 credits are weighted three times the value of the marks for the 100 credits at level 2 or above.

#### Part 7: Student Learning

Teaching, learning and assessment strategies to enable learning outcomes to be achieved and demonstrated

At UWE there is a policy for a minimum average requirement of 12 hours/week contact time over the course of the full undergraduate programme. This contact time encompasses a range of face to face activities as described below. In addition a range of other learning activities will be embedded within the programme which, together with the contact time, will enable learning outcomes to be achieved and demonstrated.

In Engineering it is recognized that a higher contact time is desirable and so laboratory-based modules have an extra factor included in the time calculation which provides more hours. In addition the level 1 and 2 students have timetabled Peer-Assisted Learning hours, where trained level 2 and 3 students (as appropriate) work with groups.

#### **Class Activities**

The mode of delivery of a module is determined by its Module Leader, and typically involves a combination of one or more lectures, tutorials, 'lectorials', laboratory classes, group activities and individual project work.

Modules are predominantly delivered by means of large group lectures, supported by smaller 'lectorials': classes for groups of 20-30 students to allow a closer interaction and discourse with staff.

#### Academic Support

Academic advice and support is the responsibility of the staff delivering the module in question. Staff are expected to be available outside normal timetabled hours, either by appointment or during published "surgery" hours, in order to offer advice and guidance on matters relating to the material being taught and on its assessment.

#### **Pastoral Care**

The faculty offers pastoral care through two routes:

- Academic Personal Tutors: All level 1 students are assigned a Personal Academic Tutor, who is an academic member of staff in their department. Students meet individually with their tutor at least twice a year and also participate in group sessions with the Personal Academic Tutor's tutor group (max size 15) during years 1 and 2. In year 3 project supervisors take on the role of Personal Academic Tutor.
- Student Advisers, a team of administrative staff who provide comprehensive, full-time

#### Part 7: Student Learning

student support service on a drop-in basis or by appointment. Advisers are trained to provide advice on matters commonly of concern, including regulatory and other matters; the Adviser will, when necessary, advise the student to seek advice to from other professional services including the university's Centre for Student Affairs or from members of academic staff.

#### Progression to Independent Study

Many modules require students to carry out independent study, such as research for projects and assignments, and a full range of facilities are available at all sites to help students with these. The philosophy is accordingly to offer students both guided support and opportunities for independent study. Guided support, mainly in the form of timetabled sessions, takes the form of lectures, tutorials, seminars and practical laboratory sessions. Students are expected to attend all sessions on their timetable, and this is especially important because of the high content of practical work in the programme.

The progression to independent study will also be assisted by the nature of the support offered in individual modules. Typically, module leaders will provide a plan for the module indicating the activities to be carried out and the forms of learning to be undertaken during the delivery of the module, with a view to encouraging students to plan ahead and to take responsibility for managing their time and resources.

#### **Computing Facilities**

The Faculty offers a specialised computing facility alongside the general University provision. There are a number of general PC computing laboratories of 20 plus seats all running Windows, two 40 seater PC labs, two Unix based laboratories and 10 specialist computing labs. All computer laboratories are available to students up until midnight, seven days per week, and many are on 24 hour access. The specialist laboratories are equipped with the specific software for Engineering students; including Software Design Tools development environment, CAD, finite element analysis, mathematics and statistics packages to support the taught program. The specialist Computing laboratories are designed to target the discipline taught in that area.

Due to the extensive computing facilities provided within the Faculty, and the specialist nature of this facility, the need for user support is high. The Faculty provides a user support Helpdesk. The Helpdesk provides fist line support to the user base, uniquely supported by both permanent staff and students that are in their second or final year of study (employed on a part time basis) until 20.00hrs every day.

#### **Description of Distinctive Features and Support**

#### **Automotive Engineering**

To distinguish this award from other engineering awards in the faculty, students on the automotive engineering award will study discipline specific modules, as seen from this programme specification, as well as modules shared with other awards. Shared modules are normally cohort streamed, which enables the use of discipline focused examples in the delivery of general engineering material.

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Students on Engineering programmes can access a suite of newly refurbished specialist

#### Part 7: Student Learning

laboratories benefiting from a recent and ongoing investment of £1.6m. These include Automotive Engineernig, Structures, Material Science, Dynamics, Thermofluids, Aero (with sub sonic and supersonic wind tunnels and a programmable flight simulator with hydraulic motion platform), plus manufacturing workshops including CNC machines, laser cutting and rapid prototyping.

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