

UNIVERSITY OF PLYMOUTH INTERNATIONAL COLLEGE

PROGRAMME SPECIFICATION

University Foundation in Computing, Engineering and Robotics

RQF 3

Maniana		C	4.22			No
Versions		Current Version	1.23			November 2023
		Prior Version/s	3.19			September 2019
			2.19			August 2019
			1.19 1.18			January 2019 November 2018
			1.18			March 2017
			2.16			November 2016
			1.16			May 2016
			2.15			October 2015
			1.15			July 2015
			4.14			December 2014
			3.14			October 2014
			2.14			September 2014
			1.14			May 2014
			3.13			October 2013
			2.13			April 2013
			1.13			January 2013
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PATHWAY/s						
Pathway Type	Undergraduate					
Pathway Areas						
Pathways/s	Computing,					
1 4 11 1 4 4 3 7 5						
	Engineering					
	and Robotics					
University UNITe Code/s	Codes now appl	ied per pathway, ple	ease see	available spreadsheet		
College NAVIGATE						
Code/s						
Three Semester						
	1454	1452				
Two Semester	L1E1	L1E2		L1E4		
Pathway Provision		College: RQF	Level/s	3 and 4		
		University: RQF	Level/s	5 and 6		
Awarding University	University of Ply	mouth				
Awards by Pathway	Degree awards S					RQF Award Level
Transfer			allows	on successful completion,	transfor	6
i unojer	Stream I (LIEI)	Generalist Stream -	- anows,	on successful completion,	transier	0
	to candidacy of	the prescribed UP	IC 1st Y	ear degree (equivalent) int	tegrated	
		-			-	
		-	-	niversity of Plymouth, Fa	-	
	Science and En	gineering and the ,	Faculty	of Arts, Humanities and I	Business	
	degree schemes	at HE Level 2:				
	BSc (Hons) Com	puter Science				
	BSc (Hons) Audi	o and Music Techno	ology			
	Stream 2 (L1E2)	Specialist Stream –	- allows,	on successful completion,	transfer	
	to candidacy of	the prescribed UP	IC 1st Y	ear degree (equivalent) int	tegrated	
	programme/s le	eading to the follo	wing U	niversity of Plymouth, Fa	culty of	
		5	0 -	. , , , .	•	

Science and Engineering and Faculty of Arts, Humanities and Business degreeschemes at HE Level 2:BSc (Hons) Architectural EngineeringBEng (Hons) Civil and Coastal EngineeringBEng (Hons) Civil EngineeringBEng (Hons) Mechanical EngineeringBEng (Hons) Marine TechnologyStream 4 (L1E4) Specialist Stream – allows, on successful completion, transferto candidacy of the prescribed UPIC 1st Year degree (equivalent) integratedprogramme/s leading to the following University of Plymouth, Faculty ofScience and Engineering degree schemes at HE Level 2:	
BSc (Hons) Architectural EngineeringBEng (Hons) Civil and Coastal EngineeringBEng (Hons) Civil EngineeringBEng (Hons) Mechanical EngineeringBEng (Hons) Marine TechnologyStream 4 (L1E4) Specialist Stream – allows, on successful completion, transferto candidacy of the prescribed UPIC 1st Year degree (equivalent) integratedprogramme/s leading to the following University of Plymouth, Faculty of	
 BEng (Hons) Civil and Coastal Engineering BEng (Hons) Civil Engineering BEng (Hons) Mechanical Engineering BEng (Hons) Marine Technology Stream 4 (L1E4) Specialist <i>Stream</i> – allows, on successful completion, transfer to candidacy of the prescribed UPIC 1st Year degree (equivalent) integrated programme/s leading to the following University of Plymouth, Faculty of 	
 BEng (Hons) Civil Engineering BEng (Hons) Mechanical Engineering BEng (Hons) Marine Technology Stream 4 (L1E4) Specialist <i>Stream</i> – allows, on successful completion, transfer to candidacy of the prescribed UPIC 1st Year degree (equivalent) integrated programme/s leading to the following University of Plymouth, Faculty of 	
 BEng (Hons) Mechanical Engineering BEng (Hons) Marine Technology Stream 4 (L1E4) Specialist <i>Stream</i> – allows, on successful completion, transfer to candidacy of the prescribed UPIC 1st Year degree (equivalent) integrated programme/s leading to the following University of Plymouth, Faculty of 	
BEng (Hons) Marine Technology Stream 4 (L1E4) Specialist <i>Stream</i> – allows, on successful completion, transfer to candidacy of the prescribed UPIC 1st Year degree (equivalent) integrated programme/s leading to the following University of Plymouth, Faculty of	
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to candidacy of the prescribed UPIC 1st Year degree (equivalent) integrated programme/s leading to the following University of Plymouth, Faculty of	
programme/s leading to the following University of Plymouth, Faculty of	
Science and Engineering degree schemes at HE Level 2:	
BEng (Hons) Electrical and Electronic Engineering	
BEng (Hons) Robotics	
Subject Benchmark Reference, where appropriate, to the following overall degree Learning Outcomes: Computing (000
Statements 5 th Edition 30/03/2022; Engineering QAA 5 th Edition 08/03/2023; Chemistry QAA 5 th Edition	
30/03/2022; MSOR QAA 5 th Edition 08/03/2023	
College Status Associate College College Location 15 Portland Villas, Drake Circus	
University Location Drake Circus, Plymouth, PL4 8AA	
University Faculty of Science and Engineering; Faculty of Art, Humanities and Business	
University School/s School of Engineering, Computing and Mathematics; School of Art, Design and Architecture, School of Society and Culture	100l
Rationale The partnership between UPIC and University of Plymouth facilitates the acquisition of	of an
undergraduate degree by international students who, because of their previous educat	
experience, are not normally able to gain direct access to the University's degree schemes in Faculty of Science and Engineering. The programme has been developed to satisfy impo	
pedagogical issues:	
1. To ensure that international students have a dedicated period of time, in a familial	land
safe setting, to acquire the basic knowledge and skills to prepare for undergraduate de	
studies within a western learning environment. Thus, supporting transfer to the UPI	
Year degree (equivalent) integrated programmes in Electronic and Electrical Enginee Robotics; Civil, Structural and Coastal Engineering; Building and Construction Manager	
Mechanical, Marine and Materials Engineering; and Computing studies and thereor	
successful completion, transfer to the prescribed HE Level 2/Stage 2 studies at University	ersity
of Plymouth.	
2. To satisfy the University's quality protocols, which, in turn, are directed by the QAA Su	-
Benchmark requirements, for transfer to undergraduate degree studies in the disciplin Electronic and Electrical Engineering; Robotics; Civil, Structural and Coastal Engineer	
	vring
Mechanical, Marine and Materials Engineering; Building and Construction Manager	-
Mechanical, Marine and Materials Engineering; Building and Construction Manager and Computing; Architectural Engineering at HE Level 2/Stage 2.	-
and Computing; Architectural Engineering at HE Level 2/Stage 2.	nent;
	nent; from

	meet the direct entry tariff to the Faculty of Science and Engineering degree schemes at HE Level 1/Stage 1.
	4. Protect the Faculty of Science and Engineering entry tariff to its undergraduate degree schemes and ensure that the University does not need to lower its entry tariff in order to increase its international student population.
	5. Widen access and participation in higher education in line with the University's internationalisation agenda.
	6. Commit to the provision of best practice customer service and student experience for international students and thus add value to the University's award-winning student lifestyle.
	 Support the integrity of the University's QAA commitment by adopting and adapting the University's quality regime to form the basis of a robust, quality driven set of academic programmes and administrative systems and processes.
	8. Facilitate effective and efficient, low risk public/private partnership in line with the University's strategic research mission.
	9. Enhance the global reach of the University into previously untapped markets and market segments.
	10. Add resource, human and financial, to the University's marketing process.
	11. Facilitate access to a global recruitment process.
	12. Assist in the diversification of the student body.
	13. Make available the benefits derived from access to Navitas' global reach and corporate marketing arm.
	The UPIC University Foundation in Computing, Engineering and Robotics offers successful candidates the opportunity to transfer seamlessly to the UPIC 1st Year degree (equivalent) integrated programmes in Electronic and Electrical Engineering; Robotics; Civil, Structural and Coastal Engineering; Mechanical, Marine and Materials Engineering; Building and Construction Management; Architectural Engineering and Computing and, on successful completion, to the prescribed University of Plymouth degree schemes at HE Level 2/Stage 2. The UPIC University Foundation is recognised by University of Plymouth, see <i>Recognition Agreement</i> , March 2009, Schedules 1 and 2, and thus operates, where possible, in line with the quality framework of University of Plymouth, Faculty of Science and Engineering and the Faculty of Arts, Humanities and Business to which these pathways lead.
Educational Aims	The programme has been devised in accordance with the NVT UK Ltd University Foundation general educational aims along with those formulated for UPIC, see CPR QS01; CPR QS 04; CPR QS08; and CPR QS09.
	The educational aims of the programme are to:
	 Prepare students, who would not normally be considered qualified, to an appropriate standard for entry into the UPIC 1st Year degree (equivalent) integrated programmes in Electronic and Electrical Engineering; Robotics; Civil, Structural and Coastal Engineering; Mechanical, Marine and Materials Engineering; Building and Construction Management; and Computing – equivalent to the prescribed HE Level 1 Faculty of Science and Engineering degree schemes at University of Plymouth.
	2. Develop in students a fundamental knowledge and understanding that can demonstrate basic facts, concepts, theories and principles of engineering and related technological disciplines, and their underpinning science of mathematics so as to support their transfer into the UPIC 1st Year degree (equivalent) integrated programmes in Electronic and

	Marin		Civil, Structural and Coastal Engineering; Mechanical, ing; Building and Construction Management; and
	its un comm their Electr Mech	nderlying principles, inclusive nercial impacts and effects as transfer into the UPIC 1st ronic and Electrical Engineeri	r an appreciation of the wider engineering context and e of the social, environmental, ethical, economic and s well as the potential careers involved so as to support Year degree (equivalent) integrated programmes in ng; Robotics; Civil, Structural and Coastal Engineering; s Engineering; Building and Construction Management;
	and r degre Robo Engin	related technological queries ee (equivalent) integrated p tics; Civil, Structural and Co	to use analytical and practical processes to engineering so as to support their transfer into the UPIC 1st Year programmes in Electronic and Electrical Engineering; pastal Engineering; Mechanical, Marine and Materials ruction Management; Architectural Engineering and
	and p aspec	practical skills that build to a	on and desire to learn based on competent intellectual set of transferable skills that will support them in all studies/careers and support their decision making in an
	comp Comr	etence described as Level E non European Framework of , Council of Europe, CUP, Cam	ned the prescribed level of inter-disciplinary language 32 'Independent User' by the Council of Europe, see <i>Reference for languages: Learning, teaching assessment</i> bridge, p. 24, Table 1. <i>Common Reference Levels: global</i>
	comp	petence to a minimum pass	ned the prescribed level of inter-disciplinary language mark of 50% in the ACL accredited module Interactive , and therein a minimum 6.0 IELTS equivalent.
PROGRAMME	·		
Title	University Foun	dation in Computing, Enginee	ring and Robotics
RQF	3		-
Credit Points	Entry Point 1		Entry Point 2
	Stream 1= 170		Stream 1= 120
	Stream 2= 180		Stream 2= 130
	Stream 4 = 180		Stream 4 = 130
Duration of Study	Two (2) semeste		
Weeks of Study	Twenty Six (26)	weeks	
Mode of Study	Full-time		
Mode of Delivery	Face to Face		
Notional Hours	Two Semester		

Stream 1= 120 Stream 2= 130 Stream 4 = 130

Stream 1 = 460 Stream 2 = 472 Stream 4 = 472

Stream 1 =940 Stream 2 = 1028 Stream 4 = 1028

Credit Points

Contact Hours

Self-directed Study Hours

Delivery Model	Integrated Delive	y Model (IDM): Fi	rst Year Direct	Entry for Middle E	astern Sponsored Students
Language of Delivery	Delivery	English			
	Assessment	English			
	Council of	Entry Level 1: Co	ommon langua	ge reference level E	31 increasing to B2 Independent
	Europe	User			
					32 Independent User
	ACL	Interactive Learr	ning Skills and (Communication	
	Accreditation				
Intended Learning	<u>Generic:</u>	_			
Outcomes					to them; see relevant Definitive
					transferable skills that can be
			-		They are delivered using an
					ant Interactive Learning Skills and
					the context of subject-specific
				-	relationship-management, time-
	competency.	olessional comm			numerical understanding and
	The Generic LOs f	or the programme	are tabled be	low:	
	Key knowledge will be				nstrated by the ability to:
	Personal organisatio		ment skills to		ssment deadlines – based on punctuality
	achieve research go			and organisation with	reference to class, group and individual
	levels.			-	namic and flexible learning environment
	Understanding of th	e importance of att	aining in-denth		nours and forms of delivery. v using appropriate nomenclature to
	knowledge of termino			-	all oral and written assessments with no
	basis to further study.		-	recourse to collusion of	
	Understanding, know				ently and logically in a variety of oral and
	and effective method assessment measures		to meet formal	quantitative tools and	a variety of appropriate qualitative and evidence bases
	Understanding and kn		elopment of the		erstanding of the current themes of a
	industry and/or scholarship in relation to a given				emic and practical foundation on which
	under study.				monstrated by a lack of plagiarism and oth individual and group work.
	Understanding of th	e rules applying to	plagiarism and		eason and debate/argue effectively on a
	collusion.	· · · · · · · · · · · · · · · · · · ·		given topic with app	ropriate reference to another's work or
	Ability to work on an	individual in a small	toom and in a	ideas/concepts.	in each of the varied assessments
	Ability to work as an individual, in a small team and larger group to effect data collation, discussion			presented.	in each of the varied assessments
	presentation of evidence.				
	Generic IOs – Al	l modules have a	set of generi	c Learning Outcon	nes (LOs) attached to them, see
			•	-	
		-			nat can be employed as a basis to
	further study and	d life-long learnin	g. They are d	elivered using an	interdisciplinary and progressive
	approach to build	these core skills	within the co	ontext of subject-s	pecific learning. Incorporated in
	these core skills	are the key them	es of relations	ship management.	time management, professional
		-			
	communication, t	echnological and r	numerical unde	erstanding and com	ipetency.
	The generic LOs fo	or the programme	are tabled bel	ow:	
	A Knowledge	and Understandi	ng		
		a knowledge and	-	ning methods and	Assessment methods and
	understand	ng:	strategies:		strategies are tested via
	1 The relation	ship the subject of	Acquisition of	intended LOs via a	A combination of summative (closed-
		has to industry,	-	small group lectures,	book) examinations and summative
		uman development		ip-based tutorial	coursework along with written
		and its applications	0	oral and written	assignments and in-course
		nporary world.		ndividual coursework	assessments, computer-based
	2	· · ·		en presentation) and	coursework, project reports and
	2 The principle	s underlying the use	-	mination. Additional	
	of material	s in engineering			presentations, laboratory work.
	applications	along with their		ovided through the	
	production, u	se and control.	-	nall peer-led tutorial	
				oratory-based work in	
			I University of I	Plymouth labs; UPIC	
	3 The fu		-	subject specialists;	

·				
		programming and how it is used and contributes to the engineering and computing process and solves engineering and computing problems.	guest speakers (industry/topic specific); monitoring and appraisal by UPIC academic management as well as NVT UK Ltd management.	
	4	The context and future development of engineering processes at personal, commercial, national and global levels.	Ensuring all candidates acquire grounding in University of Plymouth and associated end-user IT platforms for academic study. The opportunity to interface regularly with noted platforms in the College University of Plymouth library and independent environments to develop an understanding of the implications of	
		physical science in an interdisciplinary context.	understanding of the implications of the use of different computer and IT systems for research.	
	6	How engineering contributes to the wider range of social and political issues.	Acquisition of A.2, A.3, A.7, A10 and A.11 via topic specific small lab-based group lectures and the additional support and guidance provided via the provision of small peer-led	
	7	Physical laws and their relevance to engineering principles.	tutorial group work in differing, sometimes laboratory-based, environments.	
	8	How economic and technological developments affect the environment and their management.	All lecturers are available via email and the student portal for queries to be met.	
	9	The application of mathematic techniques to the engineering and logical decision making process.	Students are encouraged throughout the programme to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and	
	10	The purpose and processes of object-orientated programming and an introductory understanding of Java.	understanding of the subject. Feedback is given to all students on all work produced and, where appropriate, confirmed in individual	
	11	The application of ICT as a fundamental tool for extracting, sourcing, describing and presenting data and information in a variety of relevant forms, and distributing data and information via a range of channels and formats.	appraisal events associated with modules and more generally NVT UK Ltd academic management. Additional interviews are made with the lecturer and/or the College Director/Principal to evaluate and discuss any emerging learning issues and therein a candidate's options.	
	12	The techniques and forms of effective and clear communication in a variety of	Academics preferably have a strong commercial-related and engineering background as well as academic and	

	the ability to:	strategies	strategies via
C		Teaching/learning methods and	Assessment methods and
3 4 5 C	Integrate oral, written, non-verbal and diagrammatic skills for clear communication. Ability to analyse data and various modes of information using appropriate techniques. Ability to begin to evaluate and start to apply, reasoned thinking and supportive evidence collation to conflicting sets of information and academic opinion. Practical Skills To obtain practical skills with	well as NVT UK Ltd management. Ensuring all candidates acquire grounding in University of Plymouth and associated end-user IT platforms for academic study. The opportunity to interface regularly with noted platforms in College University of Plymouth library and independent environments to develop an understanding of the implications of the use of different computer and IT systems for research. Acquisition of B.1 and B.2 via topic specific small lab-based group lectures and the additional support and guidance provided via the provision of small peer-led tutorial group work in differing environments. Candidates are always encouraged to further develop intellectual skills by independent self-directed study as in the setting and monitoring of projects and compilation skills as well as in- course spot-tests, examinations and participation. Students are encouraged to understand and evaluate with critical awareness the concepts studied at this level.	Assessment methods and
2 Apply basic research techniques to sourcing and selecting appropriate academic data and literature. (oral and written presentation) and summative examination. Additional support is provided through the provision of small peer-led tutorial group work; monitoring and appraisa	based coursework and tests, project reports, presentations and practical's. All students are required to maintain an 85% attendance record.		
1	Make full use of library and IT search (catalogue and bibliographic) resources.	Acquisition of intended LOs via a combination of small group lectures, small group-based tutorial coursework (oral and written presentation), individual coursework	B.1 to B.5 – a combination of summative (closed-book) examinations and summative coursework along with written assignments, portfolios and incourse assessments/tests, computer-
В	Cognitive/Intellectual Skills To obtain intellectual/cognitive skills with the ability to:	Teaching/learning methods and strategies	Assessment methods and strategies via
13	The role and importance of the study of the history of scholarship as a basis to determining a full understanding, correct use of accurate nomenclature and an appreciation of fundamental concepts associated with a subject area.	benchmark – application of concepts to the work environment.	
	academic and professional settings in accordance with Level B2 'Independent User' as described by the Council of	teaching credentials to ensure that the programme satisfies the generic outcomes required by the QAA Foundation Degree qualification	

2	Transfer and utilise key skills at a higher level of study.	Additional support is provided through the provision of small peer- led tutorial group work and integrated assessment regimes fostering interactivity of skills and knowledge across modules within the programme. Monitoring and appraisal by UPIC academic management as well as NVT UK Ltd management. Ensuring all candidates acquire grounding in University of Plymouth and associated end-user IT platforms for academic study. The opportunity to interface regularly with noted platforms in College, University of Plymouth library and independent environments to develop an understanding of the implications of the use of different computer and IT systems for research. Through a combination of small group lectures and small group-based tutorial supported by an assessment framework that requires a high level of self-directed study allows candidates to foster a range of analytical skills to support further study. This is aided by inclusion of the module ILSC1&3 in the programme. Ensuring all candidates acquire grounding in University of Plymouth and associated end-user IT platforms for academic study. The opportunity	Integrated themes used across the continuous assessment framework for the programme to test robust capability skills in a number of environments.
3	Ability to begin to engage critically with regard to science.	Application of the central mathematical themes throughout all core modules of the programme via examples and topics for assessment	Integrated themes used across the continuous assessment framework for the programme to test robust capability skills in a number of
_	Transforable Clille	regimes.	environments.
D	Transferable Skills To obtain transferable skills with the ability to:	Teaching/learning methods and strategies	Assessment methods and strategies via
1		Embedded in all aspects of delivery	A combination of summative (closed-
	Select, read, digest, summarise		A combination of summative (closed-

	and synthesise information	and assessment structures is the	book) examinations and summative
	and synthesise information material in a variety of forms, both qualitative and quantitative (text, numerical data and diagrammatic) and in an appropriate manner to identify and determine key facts/themes and relevancy.	need to disseminate information presented in a variety of forms and modalities. Using a combination of all delivery and assessment styles (oral and written, group and individual) used within the programme to demonstrate competence in presentation, reports, long and short	coursework along with written assignments and in-course assessments, computer-based coursework, project reports and presentations.
2	Use and clearly communicate discursive, numerical, statistical and diagrammatic ideas, concepts, results and conclusions using appropriate technical and non-technical language and language style, structure and form.	essays (to enhance summarisation techniques and limit collusion and plagiarism), timed assignments (indicating knowledge, organisation, time management and clear communication ability), of the following: design a persuasive message from the audience's perspective; demonstrate effective presentation delivery skills in a	manage a complex and flexible timetable, combining a variety of delivery and assessment modes, some of which are conflicting in submission and style (oral/written and individual/small group, to demonstrate effective organisation, self-reliance and time-management skills.
3	Application of basic research and referencing techniques to all aspects of study, information collation, information presentation and formulation of academic opinion.	variety of situations; leave effective voice-mail messages; write persuasive e-mails, memos, letters; and write factual essays and reports in plain English. Benchmarking of skills with regard to IT software packages (Word, PowerPoint, Excel, Access), internet	
4	Embedding the importance of self-study and reliance. This involves cultivating and developing a responsibility within each student to take cognizance for their own learning, initiative, effective time management and self-discipline within the academic and professional environments.	access, web-content management (CMS, via Drupal).	
5	Students will also begin to develop a very good conceptual understanding and evaluation of the main aspects of the disciplines of Life Sciences / Sciences that can serve them well in their future studies and careers.		

Summary:

Assessment Regulations The programme is compliant with both the generic assessment regulations of Navitas UK and those of the College; see CPR QS9.

Each module within the programme/stage of study has an associated Module Outline Guide (MG) that may be broadened into a Definitive Module Document (DMD) either of which will be provided to students at the beginning of their studies. These documents offer generic information on the Aims and Specific LOs of the subject/s under study, basic references and the attendance and notional contact requirements. They also include topics/subject areas of study and outlines of the assessment events.

Each module has an associated textbook, as prescribed by the University's Module Outlines, and a specifically developed Module Content Guide (MG) which includes the types of assessment activities employed, teaching methods, resources, assessment criteria and expectations, contact details of the tutor/s, referencing (if applicable) and submission/completion requirements. Contained is also a detailed lecture-by-lecture schedule of subject's students can be expected to cover over the teaching period. This acts as a useful reference for study and revision purposes. All assessment is designed to reflect and measure both an individual's and a cohort's achievement against the Specific LOs of the module and Intended LOs of the programme.

In-course written, reading, listening and oral assessment is built into all modules through general interaction between tutors and students, student peer review and small group tutorials or individual tutorials/appraisals. Modes of assessment include essay/report writing, oral presentation (group or individual, and poster), portfolio, and e-based, in-class or take-home exercises/tests.

All written assessments must follow certain criteria in style and submission as noted in the relevant Module Content Guides. This form of assessment is considered fundamental to a student's ability to communicate ideas and evidence with clarity, relevance and logic in a planned and organised manner. Plain writing style, syntax and grammar are core skills that can be enhanced to support the maturing of individual students' composition and thus academic and transferable proficiency.

Oral presentations, whether part of formal or informal assessment practice, are encouraged within all modules as they promote, among others, transferable skills and can identify those students who may be plagiarising material. It is advised, however, that they should not make up more than 60% of the final module mark unless as part of the learning rational. Oral group presentations should ideally contain no more than five (5) students, unless specific reasoning is applied. Each member, irrespective of their role, should be awarded the same mark unless where obvious differentiation arises, for management of this process see CPR QS9. This form of expression should not be allocated more than fifty (50) minutes per group, with less than a 30% weighting. Time limits must be upheld by tutors so as to ensure all students have the same opportunity to perform. Furthermore, tutors ought to notify students as to the materials available to them before preparation takes place.

Final summative examination normally adheres to closed-book, invigilated, timed conditions and takes place during allocated exam periods of a programme. It represents a more Abstract measure of a student's achievement as a consequence of the Specific LOs associated with a module. It is utilised as a key measure of quality in teaching standards and provides a basis to aspects of delivery and environment which takes place at the conclusion of a semester by College academic services, see CPR QS9. Marks indicated in the relevant DMDs cannot be referred. Only in extenuating circumstances, sickness, personal tragedy or in the possibility of a clerical error, will deferral take place, see CPR QS9. Formal assessment modalities (coursework and examination, respectively), combine to produce the following weightings applied to any give module:

Coursework	Examination	
100%	0%	
80%	20%	
70%	30%	
60%	40%	
50%	50%	
40%	60%	
30%	70%	
20%	80%	
0%	100%	

Successful completion of a module is based on attaining the required overall pass grade prescribed. All students must achieve a grade D* in the Interactive Learning Skills and Communication (see DMD ILSC1&3). The assessment mode for a given module is based on the desired Specific LOs, their expressions can be found in the relevant DMD. Students must be briefed at the beginning of each module as to which weightings are in use. They should also be clearly advised as to the marking criteria and, hence, the achievement requirements for each grade cluster.

Where a student has a special need or disability, appropriate steps must be taken by the College,

	academic staff and/or internal/external invigilators to ensure that the need is recognised and a instified automa identified acad CRP OSO
	justified outcome identified, see CPR QS9. Demonstration of achievement:
	Students must pass all modules at the prescribed grade in order to progress to the next stage of their
	educational continuum, see Progression Criteria, below.
	Categories of performance and grading levels:
	A and A*(High Distinction) – Distinctive level of knowledge, skill and understanding which
	demonstrates an authoritative grasp of the concepts and principles and ability to communicate them in relation to the assessment event without plagiarism or collusion. Indications of originality in
	application of ideas, graphical representations, personal insights reflecting depth and confidence of understanding of issues raised in the assessment event.
	B and B* (Distinction) – Level of competence demonstrating a coherent grasp of knowledge, skill and understanding of the assessment and ability to communicate them effectively without plagiarism or
	collusion. Displays originality in interpreting concepts and principles. The work uses graphs and tables to illustrate answers where relevant. Ideas and conclusions are expressed clearly. Many aspects of
	the student's application and result can be commended.
	C and C*(Credit) – Level of competence shows an acceptable knowledge, skill and understanding
	sufficient to indicate that the student is able to make further progress. The outcome shows satisfactorily understanding and performance of the requirements of the assessment tasks without
	plagiarism or collusion. Demonstrates clear expression of ideas, draws recognisable and relevant
	conclusions.
	D (Pass) – Evidence of basic competence to meet requirements of the assessment task and event
	without plagiarism or collusion. Evidence of basic acquaintance with relevant source material.
	Limited attempt to organise and communicate the response. Some attempt to draw relevant conclusions.
	F (Fail) – The student's application and result shows that the level of competence being sought has
	not yet been achieved. The assessed work shows a less than acceptable grasp of knowledge, skill and
	understanding of the requirements and communication of the assessment event and associated
	tasks.
	Generic marking criteria:
	Response – the response must address all parts of the question, that is not just a part or parts of the question. A response that is not specifically tailored to the needs of the question will not be accounted
	accepted. Structure – the student has identified the main issues of the question and attached the appropriate
	emphasis to them; has stated their agreement accurately and in some detail; and has utilised the supporting data.
	Context – the student has displayed knowledge of the basic subject matter under assessment; has included only relevant material where required; has provided a written agreement or mathematical/numerical/diagrammatic/modelled statement and, in doing so, has addressed all aspects of it in reaching a conclusion; and has provided a clear understanding of a question in
	reaching a conclusion. Presentation – due credit, specified as a percentage of the marking criteria, will be given for a
	succinct and fluent writing style.
	Illegible material will not be given due credit, specified as a percentage of the marking criteria. Penalty – a student will be penalised if they have not tackled each issue of a question separately,
	stating their agreement and or rationalised progression, and then applying this to the facts; and will
	be penalised for not providing evidence of academically based reasoning in an answer.
	Sources – the student should provide accurate referencing; it is essential that a student does not plagiarise from any source, see CPR QS9.
English and Maths	Students who have joined at Entry Level 1 will attend the weekly English and Maths clubs that are
Support	provided by UPIC free of charge. The students will also attend free sessions hosted by University of
	Plymouth's English Language Centre. UPIC will also employ teaching assistants for maths and physics to give in class support
Moderation	See CPR QS09 – All examination papers are internally moderated through a peer review process. The
	College undertakes second marking as a matter of course and a 30% sample (or ten scripts, whichever
	is less) of the highest weighted piece is double marked for quality control purposes. Model answers
	are prepared alongside examination papers.
Progression Criteria	See Appendix 2 of this document; also see relevant DMDs and MGs in Associated Documentation (noted below):

	Summary: Minimum pass mark of 50% achieved in all modules.
	Summary. Minimum pass mark of 50% achieved in an modules.
	<i>Specialist Stream 2 and 4 summaries:</i> All modules require a minimum pass mark of 60% for students seeking transfer through Specialist Stream 2 or 4, to a UPIC 1 st Year degree (equivalent) integrated BEng programme.
	Students progressing to BEng (Hons) Degree Programmes would normally be required to achieve a minimum pass of 60% in all Stage 1 modules. However consideration can be given to progressing students to Stage 2 BEng (Hons) programmes who have not achieved 60% in all modules. An average of the grades across the six academic modules (Not ILSC1&3 or ICT) will be taken into account and students achieving an aggregate of 60% will be allowed to progress. All decisions regarding progression to BEng (Hons) shall be determined by the end of Stage 1 Progression Boards which will assess the students across their full range of module grades. Students who fail to achieve 60% across all modules (individually or as an aggregate grade) or who do not show an academic progression will be deemed to have failed. Students achieving more that 50% but less than 60% will be offered the choice of a referred examination or progression on to the BSc equivalent (if available).
	In the case of BEng (Hons) Civil Engineering Students the BSc Equivalent is the BSc (Hons) Construction Management and the Environment pathway in the faculty of Arts and Humanities.
Failure to Progress	See CPR QS9 – Summary: a student may not fail any module more than three times; failure of a module that the student is judged through the processes set out in Sections 8 and 9 in CPR QS9. Depending on the amount of credits failed a student may be allowed a referral in the failed assessment elements. Failure of a student to successfully complete a module on the repeat of that module will result in referral to the College Progression Board for a student management decision to be made
Associated Documentation	Definitive Module Documents (DMDs) as follows: DMD UF/ILSC1&3; DMD U/F SCI101MB; DMD UF/SCI101SC; DMD UF/SCI103; DMD UF/BUS107; DMD UF/SCI115; DMD UF/SCI116; DMD UF/SCI130; DMD UF/SCI131; DMD UF/SCI132; DMD UF/SCI135; DMD UF/SCI125
	Module Introductory Documents (MGs) as follows: MG UF/ILSC1&3; MG UF/SCI101SC; MG UF/SCI101; MG UF/SCI103; MG UF/BUS107; MG UF/SCI115; MG UF/SCI116; MG UF/SCI130; MG UF/SCI131; MG UF/SCI135; MG UF/SCI125; MG UF/SCI132
	Associated teaching aids for a module as required
	Associated Student Handbook and Student Study Guide
	College Policies and Regulations (CPRs)
Human Resource	Sessional academics (tutors) – with appropriate qualifications, experience and abilities. Guest speakers – relevant industries as requested by the College.
Built Environment	All lectures/classes/labs and small group tutorials are held in the designated UPIC/University of Plymouth class rooms, seminar rooms and dedicated IT laboratories; students are encouraged to use University of Plymouth's library and e-learning facilities for self-directed study; students are encouraged to use their private IT facilities where possible; field-trips will be taken as required.
E-learning	College Portal; University Moodle; Library
Library	Charles Seale-Hayne library

Programme Framework

University Foundation in Computing, Engineering and Robotics

Core Modules			%	%	
Module Code	Module Name	Credit Points	Examination (closed-book and timed conditions)	Coursework (oral and written communication – small group and individual)	
ILSC1&3	Interactive Learning Skills and Communication 1&3	20	30	70	
BUS107	Principles of ICT	10	-	100	
SCI115	Physics 1	20	90	10	
SCI101SC	Numerical Techniques 1	20	100	-	
SCI30	Research and Referencing	20	-	100	
SCI131	Programming Techniques	20	-	100	
SCI135	Preparation for Computer Science	20	-	100	
SCI102	Numerical Techniques 3	20	100	-	
		150 Credit Poin	ts		

Core Modules		Core Modules	%	%					
Module Code	Module Code		Examinatio n (closed-book and timed conditions)	Coursework (oral and written communication – small group and individual)					
ILSC1&3	Interactive Learning Skills and Communication 3	20	30	70					
BUS107	Principles of ICT	10	50	50					
SCI101SC	Numerical Techniques 1	20	100	-					
SCI103	Numerical Techniques 3	20	100	-					
SCI115	Physics 1	20	90	10					
SCI116	Physics 2	20	90	10					
SCI30	Research and Referencing	20	-	100					
SCI132	Materials and Mechanics	20	100	-					
Computing, Engineering and Robotics 150 Credit Points									

	University I	Foundation – Computing, Engineering	and Robotics (Strea	m 4; L1E4)	
	Core Module Module Code	· · · · · · · · · · · · · · · · · · ·	Credit Points	% Examinatio n (closed-book and timed conditions)	% Coursework (oral and written communication – small group and individual)
	BUS107	Principles of ICT	10	30	70
	ILSC1&3	Interactive Learning Skills and Communication 3	20	-	100
	SCI101SC	Numerical Techniques 1	20	100	-
	SCI103	Numerical Techniques 3	20	100	-
	SCI115	Physics 1	20	90	10
	SCI116	Physics 2	20	90	10
	SCI130	Research and Referencing	20	-	100
	SCI131	Programming Techniques	20	-	100
	Computing	, Engineering and Robotics		150 Credit	Points
	resources to not only pro protocols of t The program the Quality a operating in processes the	c Circus campus of University of Plymou ensure that all students enrolled with P vides assimilation into campus and stu- the University experience. me operates under and according to t and Standards Office Navitas UK. This the UK. Any changes to a programm rough the Quality and Standards Office. operational management of the progr	UPIC are afforded a udent life but is ali he general complia Office has oversig e must be submitt	n education gned with t nce structur ht of all Nav ed via the n	al experience tha he standards and es determined b vitas programme ormal Navitas Ul
	assume over The UPIC Hea the program UPIC provide extra contact The various s initial assess UPIC Head of Navitas UK, Programme I The Learning	all responsibility for the administrative a ad of Teaching and Learning or nominee me inclusive of attendance monitoring. s additional tutorial support to any stud c hours per week per enrolled student. sessional academic module leaders/lect ment of modules whilst appraisal of de Teaching and Learning or nominee in c the Head of the Faculty of Science Directors/Leaders and/or Link Tutor. and Teaching Board of the College, is in versity Foundation in Business Studies.	and implementation is responsible for t dent who may requi turers/tutors are re elivery and program consultation with th and Environment	n functions. he day-to-da re it, to the a sponsible fo me content e Quality and and associ	ny management of amount of two (2 r the delivery an is advised by th d Standards Offic ated appropriat
ring and	Formal revie an annual re Strategic, log Committee (determined v	w of the University Foundation in Com eview by UPIC with representation fro sistical and operational issues are deve AAC) held on a trimester basis and ch via the UPIC Board of Examiners. For a PIC programmes, see, CPR QS9.	m the Faculty of S loped within the re naired by Universit	Science and mit of the A y of Plymou	the Environmen cademic Adviso th. Progression

	the teaching staff using both student surveys (inclusive of i-graduate) and teaching observation
Entry Requirements	Standard and approved requirements for academic international benchmark qualifications; see CPR
	Q\$3.
	English language for Entry Point 1 is at CEFR level B1; English language for Entry Point 2 is at CEFR
	level B2 in line with UKVI requirements for RQF 6.
Appendix 1	Intended Learning Outcomes in the constituent modules – table inserted indicating direct mapping of
	LOs per module.
Appendix 2	Delivery schedule incorporating notional, contact and self-directed hours of study applied to each
	module and therein the programme.
	Appendix 2 = Two Semester
Appendix 3	-
Appendix 4	-
Appendix 5	- See DMDs.

Appendix 1

University Foundation – Computing, Engineering and Robotics

Development of Programme Learning Outcomes in the Constituent Modules

The table below maps where the LOs of a programme are assessed in the core/constituent modules. It provides an aid to (i) academic staff in understanding how individual modules contribute to the programme aims, (ii) a checklist for quality control purposes, and (iii) a means to help students monitor their own learning, and personal and professional development as the programme progresses.

Key:

Learning Outcomes which are assessed as part of a given module $\checkmark\checkmark$

Learning outcomes which are not explicitly assessed as part of a given module \checkmark

Pathway Stage 1		Programm	Programme Intended LOs												
		Knowledge and Understanding													
Core Modules	Module Code	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10	A.11	A.12	A.13	
Interactive Learning	ILSC1&3	$\checkmark\checkmark$		\checkmark	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$		$\checkmark\checkmark$			\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	
Skills and															
Communication 3															
Principles of ICT	BUS107	\checkmark	\checkmark	$\checkmark\checkmark$	\checkmark				$\checkmark\checkmark$		\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	
Numerical	SCI101SC			\checkmark		\checkmark			\checkmark	$\checkmark\checkmark$			\checkmark	\checkmark	
Techniques 1															
Numerical	SCI102	✓	~	✓	✓	✓	✓	v v	✓	√ √	✓	✓	v v	$\checkmark\checkmark$	
Techniques 2															
Numerical	SCI103			\checkmark		\checkmark			\checkmark	$\checkmark\checkmark$			\checkmark	\checkmark	
Techniques 3															
Physics 1	SCI115		\checkmark	\checkmark		$\checkmark\checkmark$		$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark			\checkmark	\checkmark	
Physics 2	SCI116		\checkmark	\checkmark		$\checkmark\checkmark$		$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark			\checkmark	\checkmark	
Research and	SCI130	\checkmark	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	✓	$\checkmark\checkmark$		$\checkmark\checkmark$	$\checkmark\checkmark$			✓	$\checkmark\checkmark$	
Referencing															
Programming	SCI131	\checkmark	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	\checkmark	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	\checkmark	
Techniques															
Materials and	SCI132	\checkmark	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	\checkmark	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	\checkmark	
Mechanics															
Preparation for	SCI135	\checkmark	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	\checkmark	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	\checkmark	
Computer Science															
Biology 1	SCI120	$\checkmark\checkmark$	~~	√ √	v v	~~	~~	✓	√ √	~~	$\checkmark\checkmark$	✓	v v	$\checkmark\checkmark$	
Chemistry	SCI125	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	✓	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	✓	$\checkmark\checkmark$	$\checkmark\checkmark$	

University Foundation – Computing, Engineering and Robotics

Pathway Stage 1		Program	nme Intended	LOs											
		Intellect	ual Skills				Practical	Practical Skills				Transferable Skills			
Core Modules	Module Code	B.1	B.2	B.3	B.4	B.5	C1	C.2	C.3	C.4	D.1	D.2	D.3	D.4	D.5
Interactive Learning Skills and Communication 3	ILSC1&3	~~		√√			~~				~~	√√		√	
Principles of ICT	BUS107	$\checkmark\checkmark$	✓	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	✓	$\checkmark\checkmark$						
Numerical Techniques 1	SCI101SC	\checkmark	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~~			$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~	$\checkmark\checkmark$
Numerical Techniques 2	SCI102	~	~	~~	~~	~~	$\checkmark\checkmark$	~~	~	~	√ √	~~	~~	~	~~
Numerical Techniques 3	SCI103	\checkmark	\checkmark	~~	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~~			$\checkmark\checkmark$	$\checkmark\checkmark$	~~	~	~~
Physics 1	SCI115	\checkmark	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$
Physics 2	SCI116	\checkmark	✓	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	\checkmark	$\checkmark\checkmark$
Research and Referencing	SCI130	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	~	~~
Programming Techniques	SCI131	~	~	~~	~~	~~	$\checkmark\checkmark$	$\checkmark\checkmark$	~	~	$\checkmark\checkmark$	~~	~~	~	$\checkmark\checkmark$
Materials and Mechanics	SCI132	~	~	$\checkmark\checkmark$	~~	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~	\checkmark	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~	$\checkmark\checkmark$
Preparation for Computer Science	BUS105	~	~	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~	~	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	~	$\checkmark\checkmark$
Biology 1	SCI120	$\checkmark\checkmark$	~~	√ √	~~	~~	$\checkmark\checkmark$	✓	~~	$\checkmark\checkmark$	~~	✓	√ √	√ √	<i>√√</i>
Chemistry	SCI125	$\checkmark\checkmark$	√ √	✓	√ √	$\checkmark\checkmark$	√ √	✓	√ √	√ √	√ √				

A.1 The relationship the subject of engineering has to industry, business, human development and lifestyles and its applications to the contemporary world.

A.2 The principles underlying the use of materials in engineering applications along with their production, use and control.

A.3 The fundamentals of programming and how it is used and contributes to the engineering process and solves engineering problems.

A.4 The context and future development of connectivity using mobile communications and the internet at personal, commercial, national and global levels.

A.5 The theories and key concepts of physical science in an interdisciplinary context.

A.6 How engineering contributes to the wider range of social and political issues.

A.7 Physical laws and their relevance to engineering principles.

A.8 How economic and technological developments affect the environment and their management.

A.9 The application of mathematical techniques to the engineering and logical decision making process.

A.10 The purpose and processes of object-orientated programming and an introductory understanding of Java.

A.11 The application of ICT as a fundamental tool for extracting, sourcing, describing and presenting data and information in a variety of relevant forms, and distributing data and information via a range of channels and formats.

A.12 The techniques and forms of effective and clear communication in a variety of academic and professional settings in accordance with Level B2 'Independent User' as described by the Council of Europe, see p. 3 of this document for reference.

A.13 The role and importance of the study of the history of scholarship as a basis to determining a full understanding, correct use of accurate nomenclature and an appreciation of fundamental concepts associated with a subject area.

Skills and Attributes

Intellectual/Cognitive Skills

B.1 Make full use of library and IT search (catalogue and bibliographic) resources.

B.2 Apply basic research techniques to sourcing and selecting appropriate academic data and literature.

B.3 Integrate oral, written, non-verbal and diagrammatic skills to effect clear communication.

B.4 Ability to analyse data and various modes of information using appropriate numerical techniques.

B.5 Ability to begin to evaluate and start to apply, reasoned thinking and supportive evidence collation to conflicting sets of information and academic opinion.

Practical skills

C.1 Transfer and utilise key skills at a higher level of study.

C.2 Employ analytical skills and methodologies as a basis to further study.

C.3 Ability to begin to engage critically with regard to the underlying challenges facing the environment and engineering-based industries.

C.4 Develop the knowledge and skills to carry out basic laboratory manipulations with reference toUniversity of Plymouth protocols and safety regulations.

Transferable skills

D.1 Select, read, digest, summarise and synthesise information material in a variety of forms, both qualitative and quantitative (text, numerical data and diagrammatic) and in an appropriate manner to identify and determine

key facts/themes and relevancy.

D.2 Use and clearly communicate discursive, numerical, statistical and diagrammatic ideas, concepts, results and conclusions using appropriate technical and non-technical language, style, structure and form.

D.3 Application of basic research and referencing techniques to all aspects of study, information collation, information presentation and formulation of academic opinion.

D.4 Embedding the importance of self-study and reliance. This involves cultivating and developing a responsibility within each student to take cognizance for their own learning, initiative, effective time management and self-

discipline within the academic and professional environments.

D.5 Students will also begin to develop a very good conceptual understanding and evaluation of the main aspects of engineering that can serve them well in their future studies and careers.

Appendix 2

University Foundation – Computing, Engineering and Robotics Delivery Schedule: hours of study applied to the programme Semester 1 – Streams 1, 2 and 3 (L1E1, L1E2 & L1E4) Entry Point 1

Week	Total Hours									
	ILSC1&3		BUS107		SCI101SC		SCI115			
	Interactive Lear Communication		Principles of ICT		Numerical Techniques 1		Physics 1			
	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours/week	Self-directed study hours/week
1	5	10	3	5	5	10	5	10	18	35
2	5	10	3	5	5	10	5	10	18	35
3	5	10	3	5	5	10	5	10	18	35
4	5	10	3	5	5	10	5	10	18	35
5	5	11	3	5	5	11	5	11	18	38
6	5	11	3	5	5	11	5	11	18	38
7	5	11	3	5	5	11	5	11	18	38
8	5	11	3	5	5	11	5	11	18	38
9	5	11	3	5	5	11	5	11	18	38
10	5	11	3	5	5	11	5	11	18	38
11	5	11	3	5	5	11	5	11	18	38
12	5	11	3	5	5	11	5	11	18	38
13 (Exam)	2	10	2	2	2	10	2	10	8	38
Total hours / module	62	138	38	62	62	138	62	138	224	476
Notional hours / module	20	00	100		20	00	20	00	700	
Credit Points	2	0	1	0	2	0	2	0		70

Week	Total Hours	,								
	SCI130		SCI131		SCI102		SCI135			
	Research and Referencing		Programming Techniques		Numerical Techniques 2		Business Studies			
	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours/week	Self-directed study hours/week
1	5	10	5	10	5	10	5	10	19	34
2	5	10	5	10	5	10	5	10	19	34
3	5	10	5	10	5	10	5	10	19	34
4	5	10	5	10	5	10	5	10	19	34
5	5	11	5	11	5	11	5	11	19	37
6	5	11	5	11	5	11	5	11	19	37
7	5	11	5	11	5	11	5	11	19	37
8	5	11	5	11	5	11	5	11	19	37
9	5	11	5	11	5	11	5	11	19	37
10	5	11	5	11	5	11	5	11	19	37
11	5	11	5	11	5	11	5	11	19	37
12	5	11	5	11	5	11	5	11	19	37
13 (Exam)	2	10	2	10	2	10	2	10	8	32
Total hours / module	62	138	62	138	62	138	62	138	248	552
Notional hours / module	1		200		20	200		00	700	
Credit Points	20		2	0	2	0	2	0	80	

Semester 2 (Entry point 2) – Stream 1 (L1E1)

Week	Total Hours		. ,							
	SCI130 Research and Referencing		SCI132		SCI103		SCI116			
			Materials and Mechanics		Numerical Techniques 3		Physics 2			
	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours/week	Self-directed study hours/week
1	5	10	5	10	5	10	5	10	20	40
2	5	10	5	10	5	10	5	10	20	40
3	5	10	5	10	5	10	5	10	20	40
4	5	10	5	10	5	10	5	10	20	40
5	5	11	5	11	5	11	5	11	20	44
6	5	11	5	11	5	11	5	11	20	44
7	5	11	5	11	5	11	5	11	20	44
8	5	11	5	11	5	11	5	11	20	44
9	5	11	5	11	5	11	5	11	20	44
10	5	11	5	11	5	11	5	11	20	44
11	5	11	5	11	5	11	5	11	20	44
12	5	11	5	11	5	11	5	11	20	44
13 (Exam)	2	10	2	10	2	10	2	10	8	40
Total hours / module	62	138	62	138	62	138	62	138	248	552
Notional hours / module	20	00	200		20	200		00	800	
Credit Points	2	0	2	0	2	0	2	0		80

Semester 2 (Entry point 2) – Stream 1 (L1E2)

Semester 2 (Entry point 2) – Stream 1 (L1E4)

Week	Total Hours									
	SCI130 Research and Referencing		SCI131		SCI102		SCI116			
			Programming Techniques		Numerical Techniques 2		Physics 2			
	Contact hours	Contact hours	Contact hours	Self-dir study	Contact hours	Self-dir Study	Contact hours	Self-dir study	Contact hours/week	Self-directed study hours/week
1	5	10	5	10	5	10	5	10	20	40
2	5	10	5	10	5	10	5	10	20	40
3	5	10	5	10	5	10	5	10	20	40
4	5	10	5	10	5	10	5	10	20	40
5	5	11	5	11	5	11	5	11	20	44
6	5	11	5	11	5	11	5	11	20	44
7	5	11	5	11	5	11	5	11	20	44
8	5	11	5	11	5	11	5	11	20	44
9	5	11	5	11	5	11	5	11	20	44
10	5	11	5	11	5	11	5	11	20	44
11	5	11	5	11	5	11	5	11	20	44
12	5	11	5	11	5	11	5	11	20	44
13 (Exam)	2	10	2	10	2	10	2	10	8	40
Total hours / module	62	138	62	138	62	138	62	138	248	552
Notional hours / module	20	00	20	200		00	20	00	800	
Credit Points	2	20	2	0	2	20	2	0		80