	OFFICE USE ONLY
Date of validation event:	26 April 2018
Date of approval by Academic Board:	28 November 2018
Approved Validation Period:	5 years from September 2018
Date and type of revision:	03/04/19 APSC approved 3 replacement modules for Sept 19 as follows: COM436 Fundamentals of Networks and Security replaced with COM457Discrete Computational Methods, COM544 Operating Systems replaced with COM556 User Experience Design (UXD), COM538 Cyber Security and Forensics replaced with COM553 Group Project August 2019 – revised to include dual language delivery of BSc (Hons) Computer Science at IST College/SEY, Athens 12/04/21 Partner approval of Global Pathways Academy (GPA) 20/5/21 APSC approval of BSc (Hons) Computer Science (Top up) 10/08/21 APSC approval of change of assessment for Computer Systems module. COM434 module code replaced with COM465 21/06/2023 AB approval to offer BSc (Hons) Computer Science
	programmes entirely in English from September 2023,

PART TWO PROGRAMME SPECIFICATON

BSc (Hons) Computer Science BSc (Hons) Computer Science (with Industrial Placement) BSc (Hons) Computer Science (Top up)

1 Awarding body

Glyndŵr University

2 **Programme delivered by**

Glyndŵr University

3 Location of delivery

Plas Coch Campus, Wrexham IST College/SEY, Athens (BSc (Hons) Computer Science only) GPA Global Pathways Academy (BSc (Hons) Computer Science (Top up) only) – please refer to Appendix 1 – Partner Provider Supplement

4 Faculty / Department

Faculty of Arts, Science and Technology

5 **Exit awards available**

BSc (Ord.) Computer Science DipHE Computer Science CertHE Computing

6 **Professional, Statutory or Regulatory Body (PSRB) accreditation**

The Programme has been designed to align with the requirements of the British Computer Society (BCS) and accreditation will be requested post approval. The information above is correct at the point of programme validation, refer to university PSRB register and university website for current details of programme accreditation.

7 Accreditation available

See above.

8 Please add details of any conditions that may affect accreditation (e.g. is it dependent on choices made by a student?)

Students must have studied all years at the Wrexham Glyndŵr University campus.

9 JACS3 code

I100

10 UCAS code

BSc (Hons) Computer Science 4R9B BSc (Hons) Computer Science (with Industrial Placement) CSIP

11 Relevant QAA subject benchmark statement/s

Computing (2016)

12 Other external and internal reference points used to inform the programme outcomes

BCS: Core requirements for accreditation of honours programmes BCS: Additional requirements for CITP BCS: Additional requirements for CEng/CSci

13 Mode of study

Full & part time

14 Normal length of study

BSc (Hons) Computer Science (with Industrial Placement): 4 years full-time BSc (Hons) Computer Science: 3 years full-time

15 Maximum length of study

Refer to academic regulations.

16 Language of study

English

Dual language delivery: English and Greek for BSc (Hons) Computer Science at IST College/SEY, Athens

17 Criteria for admission to the programme

Standard entry criteria

Entry requirements are in accordance with the University's admissions policy https://www.glyndwr.ac.uk/en/media/FINAL%20ADMISSIONS%20POLICY%2020 17.pdf

The University's entry requirements are set out at http://www.glyndwr.ac.uk/en/Undergraduatecourses/UCAStariffchange2017/

International entry qualifications are outlined on the <u>National Academic</u> <u>Recognition and Information Centre (NARIC)</u> as equivalent to the relevant UK entry qualification.

In addition to the academic entry requirements, all applicants whose first language is not English or Welsh must demonstrate English language proficiency.

European students are able to provide this evidence in a number of ways (please see <u>http://www.glyndwr.ac.uk/en/Europeanstudents/entryrequirements/</u> for details), including IELTS.

International students require a UKVI Approved Secure English Language Test (SELT) (please see

<u>http://www.glyndwr.ac.uk/en/Internationalstudents/EntryandEnglishLanguageRequ</u> <u>irements/</u> for details).

International Students are not eligible to study the Industrial Placement programme.

DBS Requirements

No DBS check is required.

Non-standard entry criteria and programme specific requirements

Applicants for this programme are required to hold a minimum of grade C in A-Level Mathematics or equivalent.

Applicants with significant industry or professional experience will be treated on a case-by-case basis and invited for a discussion/interview with a member of the programme team.

18 Recognition of Prior (Experiential) Learning

Applicants may enter the programme at various levels with Recognition of Prior Learning (RPL) or Recognition of Prior Experiential learning (RPEL) in accordance with the <u>University General Regulations</u>. Any programme specific restrictions are outlined below

Programme specific restrictions

N/A

19 Aims of the programme

The broad field of computing is an exciting, challenging and dynamic discipline. Computers form an integral part of every aspect of society and modern life. New computing technologies are introduced at an enormous rate and the computer science field develops and changes continually and rapidly.

Students studying this programmes will be exposed to an education and learning experience that aims to instil knowledge and develops critical and intellectual abilities applicable to problem solving and solution specifying in technologically and socially diverse environments.

The purpose of this programme is to prepare graduates for a career in the computer science field. Their educational journey begins by providing them with a solid set subject-specific knowledge and skills, which gradually draws to a narrower focus of computer science subjects over the duration of their studies. Integrated into this experience is the explicit opportunity to gain first-hand involvement with the workplace, by completing the Industrial Placement at level 5. Although these are two distinct, named award routes, the programme team foresee that students may

choose to start on one, but switch to the other, prior to completion of their core modules at level 5; thereby affording them the optionality of this year in industry.

The overall aims of the programmes are to:

BSc (Hons) Computer Science (with Industrial Placement)

- Provide students with knowledge and understanding of the fundamental principles and technologies which underpin the discipline of computer science;
- Produce independently learning, workplace ready practitioners with a strong set of communication and employment skills who are cognisant of their career trajectory and personal and professional development goals;
- Provide a rigorous and scientifically-based course of study, informed by research, which successfully balances practical vocational skills with theoretical understanding;
- Produce versatile and resourceful practitioners fostering innovation, enterprise and enthusiasm for excellence in the discipline of computing;
- Develop capability in the exploration, critical analysis and evaluation of technical, business and professional issues and concepts, including an awareness of ethical and environmental factors;
- Provide students with an awareness of the roles and responsibilities of a professional working within the computing profession.
- Enable students to spend a significant period of time in the computer science related workplace and to reflect upon their experiences and lessons learned therein.

BSc (Hons) Computer Science

- Provide students with knowledge and understanding of the fundamental principles and technologies which underpin the discipline of computer science;
- Produce independently learning, workplace ready practitioners with a strong set of communication and employment skills who are cognisant of their career trajectory and personal and professional development goals;
- Provide a rigorous and scientifically-based course of study, informed by research, which successfully balances practical vocational skills with theoretical understanding;
- Produce versatile and resourceful practitioners fostering innovation, enterprise and enthusiasm for excellence in the discipline of computing;
- Develop capability in the exploration, critical analysis and evaluation of technical, business and professional issues and concepts, including an awareness of ethical and environmental factors;
- Provide students with an awareness of the roles and responsibilities of a professional working within the computing profession.

20 Distinctive features of the programme

The demand for graduates with the knowledge, understanding and skills required to analyse, design, develop, test and maintain modern computer systems is high. Organisations rely on the use of computers for information processing and problem solving so the industry requires specialists to create, understand and further advance computer science. This degree will look at the computer science at the

core of the underlying technologies that are increasingly infiltrating every element of our society.

Employability skills are at the heart of our computer courses including team working, project management, communication and creative thinking. This degree aims to equip you with the knowledge and skills required to work as professional engineer and/or consultant in the design, configuration and management of computer systems. The main focus is on the more technical aspects and underlying principles of computer systems.

The programme begins at level 4 by providing a solid foundation and introduction to the broad disciplines and that underpin the subject of computer science, resulting in a strong understanding of the subject. This includes developing core knowledge in subjects such as computer systems and professionalism, alongside practical subject skills, such as computer programming. Upon commencement of level 5, a number of these themes are developed further, and to a more advanced level, with a particular emphasis upon enabling students to effectively apply what they have learned to real-world scenarios. During level 6 of the programme, an even sharper focus is provided in terms of the subject-specific material being taught. This happens in tandem with students being provided with the freedom to pursue a project of choice, under supervision. The defining features of level 6 are the encouragement for students to demonstrate their abilities as independent learners and to exercise critical and analytical thinking and problem solving skills.

The opportunity of an Industrial Placement Year is a defining feature of this programme. It takes place upon completion of level 5 (full-time study only) after which students return to complete level 6 of the course. The Industrial Placement Year provides students with an opportunity to gain valuable experience of the workplace, put the knowledge and skills developed so far into practice, and to acquire new information and abilities in a practical setting.

Students studying these programmes will be exposed to an education and learning experience that aims to instil knowledge and develops critical and intellectual abilities applicable to problem solving and solution specifying in technologically and socially diverse environments. Students will have opportunities to apply their knowledge on real life projects. This will help ensure that students acquire the necessary knowledge and skills to cope with the astonishing rate of change and to ensure that the programme produces graduates who operate on graduation as autonomous computing professionals.

21 Programme structure narrative

The programmes are delivered following the University Academic Calendar, typically consisting of an academic year composed of two semesters, each 12 weeks in length. The majority of modules have duration of one semester, although there are some exceptions to this rule, as shown in the subsequent section.

The BSc (Hons) Computer Science (with Industrial Placement) programme is provided on a full-time only basis. Full-time students would normally complete their studies in four years. The third year must be based substantially in the workplace and would normally be expected to have at least the same duration as two complete semesters at the University (24 weeks) and take place between October and May of the calendar year. The BSc (Hons) Computer Science programme is provided on a full-time basis. Fulltime students would normally complete their studies in three years.

Full-time students are expected to complete 120 credits per academic year.

Students will normally begin their studies at level 4 of the programme and progress through to completion of level 6. However, students with appropriate advance standing and/or the University Recognition of Prior (Experiential) Learning (RP[E]L) may be able to join the programme at the commencement of level 5 or level 6. In addition, to facilitate student exchange programmes, such as the ERASMUS scheme, it is possible for students to begin their studies at the beginning of the first or second semester, with agreement of the Programme Leader.

The following intended and exit awards are available from this programme, subject to the specified requirements:

Award	Credit Requirements
BSc (Hons) Computer Science	480 credits (including 120 credits at level 5
(with Industrial Placement)	from the Industrial Placement module)
BSc (Hons) Computer Science	360
BSc (Ord) Computer Science	300
DipHE Computer Science	240
CertHE Computing	120

22 Programme structure diagram

FULL-TIME STUDY (INDICATIVE) at Wrexham

	Level 4		-					
	Mod title	Computer Systems	Mod title	Managing Data		Problem Solving		Information and
Semester 1	Mod code/ 'New' Module	COM465	Mod code/ 'New' Module	COM438	Mod title	with Programming*	Mod title	Systems Engineering*
eme	Credit value	value 20 Credit value 20 Mod code/	COM439	Mod code/	COM437			
Š	Core/Option	Core	Core/Option	Core	'New' Module	0011433	'New' Module	COIVI437
	Mod leader	Teri Birch	Mod leader	Bindu Jose				
	Mod title	Web Design & Development	Mod title	Discrete Computational Methods	Credit value	20	Credit value	20
Semester 2	Mod code/ 'New' Module	COM440	Mod code/ 'New' Module	COM457	Core/Option	Core	Core/Option	Core
me	Credit value	20	Credit value	20				
Se	Core/Option	Core	Core/Option	Core				
	Mod leader	Julie Mayers	Mod leader	Bindu Jose, Jessica Muirhead	Mod leader	Rich Picking	Module leader	Denise Oram

* Problem Solving with Programming and Information and Systems Engineering modules take place over Semester 1 and Semester 2.

	Level 5						
	Mod title	Responsible Computing	Mod title	User Experience Design (UXD)	Mod title	Data Structures and Algorithms	
Semester 1	Mod code/ 'New' Module	COM545	Mod code/ 'New' Module	COM556	Mod code/ 'New' Module	COM539	
me	Credit value	20	Credit value	20	Credit value	20	
Se	Core/Option	Core	Core/Option	Core	Core/Option	Core	
	Mod leader	Denise Oram	Mod leader	Julie Mayers	Mod leader	Vic Grout	
	Mod title	Group Project	Mod title	Databases and Web-based Information Systems	Mod title	Applied Programming	
Semester 2	Mod code/ 'New' Module	COM553	Mod code/ 'New' Module	COM540	Mod code/ 'New' Module	COM537	
me	Credit value	20	Credit value	20	Credit value	20	
Se	Core/Option	Core	Core/Option	Core	Core/Option	Core	
	Mod leader	Bindu Jose, Denise Oram	Mod leader	Bindu Jose	Mod leader	John Worden	
		•					

	Level 5 (with Industrial Placement award only; not studied at partner institutions)					
.	Mod title	Industrial Placement				
Semester	Mod code/ 'New' Module	COM549				
Ser	Credit value	120				
r 2	Core/Option	Core				
Semester	Mod leader	tbc				
Ň						

	Level 6								
	Mod title	Distributed Data and Data Analytics	Mod title	Computability and Optimisation	Mod title	IT Project Management			
Semester 1	Mod code/ 'New' Module	COM641	Mod code/ 'New' Module	COM648	Mod code/ 'New' Module	COM644			
me	Credit value	20	Credit value	20	Credit value	20			
Se	Core/Option	Core	Core/Option	Core	Core/Option	Core			
	Mod leader	Bindu Jose	Mod leader	Vic Grout	Mod leader	Denise Oram			
	Mod title	Future Technologies	Mod title	Project					
ter 2	Mod code/ 'New' Module	COM643	Mod code/ 'New' Module	COM646	COM646				
səu	Credit value	20	Credit value	40					
Semester	Core/Option	Core	Core/Option	Core					
	Mod leader	Vic Grout	Mod leader	Vic Grout					

BSc (Hons) Computer Science Top Up

	Level 6						
	Mod title	Distributed Data and Data Analytics	Mod title	Computability and Optimisation	Mod title	IT Project Management	
Semester 1	Mod code/ 'New' Module	COM641	Mod code/ 'New' Module	COM648	Mod code/ 'New' Module	COM644	
me	Credit value	20	Credit value	20	Credit value	20	
Se	Core/Option	Core	Core/Option	Core	Core/Option	Core	
	Mod leader	Bindu Jose	Mod leader	Vic Grout	Mod leader	Denise Oram	
es	Mod title	Future Technologies	Mod title	Project			
Semes ter 2	Mod code/ 'New' Module	COM643	Mod code/ 'New' Module	COM646			

Credit value	20	Credit value	40
Core/Option	Core	Core/Option	Core
Mod leader	Vic Grout	Mod leader	Vic Grout

PART-TIME STUDY (INDICATIVE) – FIVE YEAR ROUTE

Year 1

	Level 4						
-	Mod title	Computer Systems	Mod title	Information and Systems Engineering*			
ter	Mod code	COM465					
Semester	Credit value	20	Mod code	COM437			
Sen	Core/Option	Core	Widd Code	COM437			
0)	Mod leader	Teri Birch					
	Mod title	Web Design & Development	Credit value	20			
ar 2	Mod code	COM440	CaralOption	Core			
Semester	Credit value	20	Core/Option				
me	Core/Option	Core	Module leader	Denise Oram			
Š	Mod leader	Julie Mayers					
Year	2						
	Level 4						

	Level 4			
-	Mod title	Managing Data	Mod title	Problem Solving with Programming
ter	Mod code	COM438		r tostori colving war rogramming
Semester	Credit value	20	Mod code	COM439
Sen	Core/Option	Core	Wou coue	00101439
0,	Mod leader	Bindu Jose		20
	Mod title	Discrete Computational Methods	Credit value	
ar 2	Mod code	COM457	Cara/Option	Core
ste	Credit value	20	Core/Option	Cole
Semester	Core/Option	Core	Module leader	Rich Picking
Ň	Mod leader	Bindu Jose, Jessica Muirhead		

*Problem Solving with Programming and Information and Systems Engineering modules take place over Semester 1 and Semester 2.

Year	<u>ar 3</u>						
	Level 5						
	Mod title	Responsible Computing	Mod title	User Experience Design (UXD)			
3r 1	Mod code	COM545	Mod code	COM556			
Semester	Credit value	20	Credit value	20			
me	Core/Option	Core	Core/Option	Core			
Se	Mod leader	Denise Oram	Mod leader	Julie Mayers			
	Mod title	Group Project	Mod title	Databases and Web-based Information Systems			
ir 2	Mod code	COM553	Mod code	COM540			
ste	Credit value	20	Credit value	20			
Semester	Core/Option	Core	Core/Option	Core			
Š	Mod leader	Bindu Jose, Denise Oram	Mod leader	Bindu Jose			
		•	·	•			

Year 4

	Level 5		Level 6	
	Mod title	Data Structures and Algorithms	Mod title	Distributed Data and Data Analytics
ir 1	Mod code	COM539	Mod code	COM641
Semester	Credit value	20	Credit value	20
eme	Core/Option	Core	Core/Option	Core
Š	Mod leader	Vic Grout	Mod leader	Bindu Jose
	Mod title	Applied Programming	Mod title	Future Technologies
er 2	Mod code	COM537	Mod code	COM643
este	Credit value	20	Credit value	20
Semester	Core/Option	Core	Core/Option	Core
Š	Mod leader	John Worden	Mod leader	Vic Grout

<u>Year</u>							
	Level 6						
	Mod title	Computability and Optimisation	Mod title	IT Project Management			
sr 1	Mod code	COM648	Mod code	COM644			
Semester	Credit value	20	Credit value	20			
ame B	Core/Option	Core	Core/Option	Core			
Š	Mod leader	Vic Grout	Mod leader	Denise Oram			
		-					
	Mod title	Project					
ir 2	Mod code	COM646	COM646				
Semester	Credit value	40					
me	Core/Option	Core	Core				
Š	Mod leader	Vic Grout					

Delivery at IST College/SEY, Athens

	Level 4							-
	Mod title	Computer Systems	Mod title	Managing Data	Mod title	Problem Solving	Mod title	Information and
	Mod code/	COM465	Mod code/	COM438	_	with		Systems
~	'New' Module	00111403	'New' Module	00101400		Programming*		Engineering*
Semester `	Language	GREEK		GREEK		GREEK		GREEK
	Credit value	20	Credit value	20	Mod code/	COM439	Mod code/	COM437
Se	Core/Option	Core	Core/Option	Core	'New' Module	00101439	'New' Module	COIVI437
	Mod leader	Dr Chondros	Mod leader	Mr Drivas	One diture has	20	Credit value	20
	Mod title	Web Design &	Mod title	Discrete	Credit value	20	Credit value	20
		Development		Computational				
		Development		Methods				
	Mod code/	COM440	Mod code/	COM457	Core/Option	Core	Core/Option	Core
r 2	'New' Module		'New' Module		_			
ste	Language	GREEK		GREEK				
Semester	Credit value	20	Credit value	20				
Se	Core/Option	Core	Core/Option	Core	Mod leader	Dr Iracleous	Module leader	Dr Violakis
	Mod leader	Mr Tsidarakis	Mod leader	Mr Econonou				
			.		l		1	

	Level 5						
	Mod title	Responsible Computing	Mod title	User Experience Design (UXD)	Mod title	Data Structures and Algorithms	
ster 1	Mod code/ 'New' Module	COM545	Mod code/ 'New' Module	COM556	Mod code/ 'New' Module	COM539	
ne	Language	ENGLISH		ENGLISH		ENGLISH	
Ser	Credit value	20	Credit value	20	Credit value	20	
	Core/Option	Core	Core/Option	Core	Core/Option	Core	
	Mod leader	ТВС	Mod leader	ТВС	Mod leader	ТВС	

	Mod title	Group Project	Mod title	Databases and Web-based Information Systems	Mod title	Applied Programming
ster 2	Mod code/ 'New' Module	COM553	Mod code/ 'New' Module	COM540	Mod code/ 'New' Module	COM537
mester	Language	ENGLISH		ENGLISH		ENGLISH
Sei	Credit value	20	Credit value	20	Credit value	20
	Core/Option	Core	Core/Option	Core	Core/Option	Core
	Mod leader	ТВС	Mod leader	TBC	Mod leader	ТВС

Level 6 Mod title	Distributed Data and Data Analytics	Mod title	Computability and Optimisation	Mod title	IT Project Management
Mod code/ 'New' Module	COM641	Mod code/ 'New' Module	COM648	Mod code/ 'New' Module	COM644
Language	ENGLISH		ENGLISH		ENGLISH
Credit value	20	Credit value	20	Credit value	20
Core/Option	Core	Core/Option	Core	Core/Option	Core
Mod leader	ТВС	Mod leader	TBC	Mod leader	ТВС
					-
Mod title	Future Technologies	Mod title	Project		
Mod code/ 'New' Module	COM643	Mod code/ 'New' Module	COM646		
Language	ENGLISH		ENGLISH		
Credit value	20	Credit value	40		
Core/Option	Core	Core/Option	Core		
Mod leader	TBC	Mod leader	TBC		

23 Intended learning outcomes of the programme

Und	lergraduate			
	Knowledge and understandin	g		
	Level 4	Level 5	Level 6	Level 6 Honours Degree
A1	Demonstrates a working understanding of essential facts, concepts, principles and theories relating to computing and computer applications. Shows competence in basic IT and communication skills, workshop practice and laboratory investigations	Demonstrates a widening appreciation of the significance of key concepts, principles, theories and practices that underpin computing as an academic discipline and explores its extent and boundaries through practical work, design exercises and case studies	Shows confident familiarity with the broad areas of the knowledge bases of the discipline, including the management and an appreciation of the principles, theories and practices that underpin computing as an academic discipline. Reveals a working understanding of current technology and of its limits	Demonstrates confidence and reveals a clear understanding of the boundaries of existing and emerging technology and the limits of its application, and of the range of conventional design methods and the types of judgement employed by computing professionals
A2	The appropriateness of a range of development tools for the creation of software applications	Recognise and understand a range of appropriate programming tools and techniques in new contexts in the design of software applications	Select and deploy accurately established techniques and tools to develop applications for selected business problems, and choose appropriate theory for analysis, with only general guidance	Confidence and flexibility in applying a range of programming tools for the creation of applications for selected business problems, and in the application of knowledge and skills appropriate to their solution
A3	Demonstrate a working knowledge of some of the tools, practices and methodologies used in the specification, design, implementation and testing of computer software systems; understand some of the risks of software implementation	Familiarity and ability to choose appropriate methods and tools for the design and implementation of software systems. Outline how software can be evaluated and show a working knowledge of the general rules and best practices adopted and knowledge of software testing techniques	Select accurately established techniques and methods used in defining and assessing criteria for measuring the extent to which a computer system is appropriate for its current deployment; understand the risks of software implementation and apply risk-based strategies and policies for software testing	Critical and reflective about the use of software testing, design and evaluation methodologies and tools, with full understanding of the associated risks, controls and potential impact
A4	Recognise a variety of professional and sustainability considerations that may be encountered in the exploitation	Identify and describe several professional concepts and challenges that will be encountered in the deployment of	Comprehensively appraise professional situations and scenarios where computer-based systems are deployed in terms of social, legal,	Reflect upon own practices and conduct in carrying out a substantive project and discuss the social, legal, ethical, moral, economic and

Und	Undergraduate						
	Knowledge and understanding						
	Level 4	Level 5	Level 6	Level 6 Honours Degree			
	of computer-based systems (social, legal, ethical, moral, economic, etc.)	computer-based systems in response to common, well- defined scenarios	ethical, moral, economic and sustainability issues.	sustainability issues that are relevant to the project.			
A5	Identify key operations, processes and functions that support the construction of algorithms and computer programs	Discuss and identify algorithmic solutions for common computational problems and highlight their performance and functional differences	Analyse complex computational problems, contrast algorithmic and data structure solutions, and evaluate their performance	Consistently show confidence and independence in understanding and modelling efficient data structures and algorithms to address real world problems			

	Intellectual skills			
	Level 4	Level 5	Level 6	Level 6 Honours Degree
B1	Using the tutor as a facilitator, the student begins to analyse basic problems, identify requirements and propose alternative solutions for computer software systems	Starts to develop an understanding of the limits of their knowledge, and how this influences analysis and interpretations based on that knowledge; identify requirements and propose and compare alternative solutions for computer software systems	Develops self-reliance and confidence in the analysis of problems, identify requirements and propose and critically evaluate alternative solutions for computer software systems	Integrates learned theory and techniques with practical experience to analyse problems, identify requirements and propose and critically evaluate alternative solutions for computer software systems with informed understanding
B2	Demonstrates basic numeracy, literacy and algebraic competence; ability to manipulate data related to simple business problems and describe scenarios	Demonstrates more advanced standard numerical/ mathematical skills and literacy as appropriate to their chosen specialist subject	Applies a range of more specialist numerical/ mathematical and literacy skills as appropriate to their specialist subject	Confidently applies a range of specialist numerical/ mathematical and literacy skills as appropriate to the specialist subject area
B3	Carries out application of basic computing principles and procedures to standard, simple situations, with considerable guidance provided by tutors	Applies standard computing principles and procedures to somewhat more demanding situations, still with some guidance provided	Demonstrates ability to select and use principles and procedures appropriate to the situation or problem in hand, with minimal guidance provided	Carries out confident and accurate selection and application of principles and procedures to the solution of a range of computing situations and problems, working autonomously

	Intellectual skills				
	Level 4	Level 5	Level 6	Level 6 Honours Degree	
B4	Develops an ability to explore and recognise any risks or safety aspects that may be involved in their work and to the relevance of selected professional, legal, moral, social and ethical issues; communicate the results of their study/work accurately and reliably, and with structured and coherent arguments	Uses a range of established techniques within tutorials, for example, using experiential learning exercises, to explore and recognise the relevance of selected professional, legal, moral, social and ethical issues in their work and to communicate the results of their study/work accurately and reliably, and with structured and coherent arguments	Demonstrates technology industry acumen, with minimum supervision, recognising the relevance of legal, professional, moral, social and ethical issues in the work place and the wider environment. Able to inform and adapt their work to satisfy these issues	Effective self-management in terms of time; ability to conduct research independently or as a team, into legal, professional, moral, social and ethical issues. Able to inform and adapt their work to satisfy these issues. Demonstrates an ability to carry out research and critical thinking	

	Subject skills			
	Level 4	Level 5	Level 6	Level 6 Honours Degree
C1	Systematically relates a limited number of facts/ideas/elements in an imitative manner, with considerable guidance provided by tutors	Demonstrates appreciation of need for the relating and collecting of a range of facts/ideas/elements in an argued case; produces new ideas in closely-defined situations with some guidance provided as appropriate	The ability to apply research methods to relate and collect facts/ ideas/ elements in an argued case; produces new ideas in a wider range of situations, with minimal guidance	The ability to apply appropriate research methods to collate facts/ ideas/ elements in support of a well- structured argument; design solutions to problems and evolve new concepts, working autonomously
C2	Identify and understand the need to manage software and IT development projects	Apply appropriate project management and development tools to ensure viable and organised approaches are taken	Compare and contrast a range of IT project management methods and employ high-level tools and methods in real-world scenarios	Select and evaluate own use of IT project management methods and tools in a self-led and managed project
C3	Implement computer programs for specific and well defined situations	Design and write computer programs or software for common applications	Specify and write computer programs or software in response to loosely defined problem scenarios	Specify and write computer programs or software in response to loosely defined problem scenarios and evaluate the quality of the solution

	Subject skills						
	Level 4	Level 5	Level 6	Level 6 Honours Degree			
C4	Recognise and work with key datasets and perform basic queries and analysis	Apply and utilise data sources and processing into application and development scenarios of constrained forms	Confidently engage with big data sets and select and apply appropriate analytic techniques	Independently integrate big data sets and analytics into specific projects and/or consider their appropriateness in emerging technology scenarios			

Prac	tical, professional and employa	ability skills		
	Level 4	Level 5	Level 6	Level 6 Honours Degree
D1	Be able to provide an account of own actions and activities in a succinct and clear manner in written and oral communication	Communicates in a clear, systematic and concise way, in writing and orally, in more formal academic and professional styles, and in longer pieces of work of a technical nature. Be able to draw upon and effectively integrate supporting media	Engages effectively in a variety of roles; debates; produces clear, well- structured technical reports and other extended pieces of work; gives clear, subject-specific presentations in a variety of contexts	Provide professional levels of information through a variety of verbal and non-verbal communication mediums and reflect upon own interaction and ability to support own opinions and arguments for a variety of audiences
D2	Interacts effectively with tutors and fellow students; participates in clearly defined group situations	Demonstrates more advanced interactive and group skills, including effective participation in more demanding group tasks, presentations, or discussions	Interacts effectively within a learning or subject-specific group, demonstrates basic negotiating, role, leadership and group-support skills	Interacts effectively within learning or professional groups; demonstrates appropriate negotiating, role, leadership and group-support skills to an advanced level
D3	Select under guidance and use relevant sources of information to identify potential computing resources for a specific purpose. Demonstrates basic skill in using the Internet and designing web pages.	Demonstrates more advanced IT skills; Demonstrates competent use and application of business databases, additional specialist subject packages and produce reports to business standard. Use of online databases effectively to gain information.	Demonstrates, uses and accesses a limited selection of more specialist IT skills related to subject specific software. Conducts effective searches for information to identify potential computing resources for a specific purpose and critically evaluate their merit	Uses and accesses a limited selection of more specialist IT skills related to subject specific software for analysing business data. Conducts effective searches for information to identify potential computing resources for a specific purpose and critically evaluate their merit
D4	Studies in a systematic, directed way with the aid of appropriate Tutor guidance	Learns in an increasingly effective and purposeful way, with	Adopts a broad-ranging and flexible approach to study; identifies learning needs; pursues activities designed to	With minimal guidance, manages own learning using a wide range of resources appropriate to the IT

		beginnings of development as an autonomous learner	meet these needs in increasingly autonomous ways	profession; seeks and makes effective use of feedback. Self- reflection and criticality including self -awareness, openness and sensitivity to diversity in terms of people, cultures, business, management and marketing issues
D5	Shows an understanding of the opinions of other people; flexibility in considering alternatives and opinions	Demonstrates the ability to take the perspective of others; identifying the similarities and differences between two approaches to the solution of a given problem	Demonstrates the ability to take the perspective of others; comparing the strengths and weaknesses of alternative interpretations determining the credibility of a source of information	Demonstrates the ability to take the perspective of others; articulate the strengths and weaknesses of the suggestions of arguments posed; recognize the underlying agendas and motivations of individuals and groups involved in a given situation

24 Curriculum matrix

	Module Title	Core or option?	A1	A2	A3	A4	A5	B1	B 2	B 3	B4	C1	C2	C3	C4	D1	D2	D3	D4	D5
	Computer Systems	Core																		
	Managing Data	Core																		
14	Information and Systems Engineering	Core																		
Level	Discrete Computational Methods	Core																		
	Web Design & Development	Core																		
	Problem Solving with Programming	Core																		
		0	-	_	_			_								_		_	_	
	User Experience Design (UXD)	Core																		
	Data Structures and Algorithms	Core					_													
9 <i> </i> 5	Group Project	Core																		
Level	Applied Programming	Core																		
L	Databases and Web-based Information Systems	Core																		
	Responsible Computing	Core																		
	Industrial Placement	Core																		
		0	_	_			_		_	_				_				_	_	
	Computability and Optimization	Core																		
9	Distributed Data and Data Analytics	Core																		
evel	Future Technologies	Core																		
Γ	IT Project Management	Core																		
	Project	Core		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	

25 Learning and teaching strategy

The programme is informed and guided by the Computing Learning, Teaching and Assessment strategy. It seeks to assist the student to become an independent learner, delivering subject skills alongside the embedding of skills for employment. The curriculum is designed to encourage an appreciation for learning. Learning is enriched by appropriate underpinnings, current research, industrial applications and the development of transferable skills.

The majority of scheduled learning and teaching activities is through attendance at lectures, guest talks, tutorials, and labs. Attendance at external events and field trips are made available and as when they are appropriate and practicable. These modes of contact provide students with the ability to develop and practice the range of learning outcomes associated with the programme, ranging from the theoretical to the practical.

In the early stages of each module, problems will be well defined and limited in scope and scale. At later stages, problems will become less structured (to encourage reflection on problem issues) and open-ended (to give scope to propose and evaluate alternative solution strategies). Case studies are used when appropriate to integrate study topics and to underline vocational relevance. Coursework assignments are important throughout.

As the programme progresses, students are expected to demonstrate increasing proficiency in use of IT tools and techniques to support production of technical documentation, to enhance oral and written presentations, and to aid organisation of personal study material.

Extensive use is made of the University's Virtual Learning Environment (VLE), Moodle, to provide students with access to a range of delivery, and supporting, materials related to each of the modules featured on the programme. In addition to the materials used during the taught sessions, the VLE is used to provide students with additional content such as quizzes, videos, audio recordings, external links, technical reports, research papers, and so forth. The VLE also provides students with the ability to communicate using discussion forums and is the platform primarily used in the issuing, submission, marking, and feedback of student assessment.

26 Work based/placement learning statement

Students will gain work-related experience at several points through their academic studies. For example, in the level 6 Project module there is the opportunity to work in collaboration with organisations external to the University on 'live' ventures. The level 5 Responsible Computing and level 6 IT Project Management modules emphasize the importance or professional and workplace skills, through the use of case studies and real-world problem scenarios.

Industrial Placement route

The Industrial Placement will normally take place during the normal academic year, as if over the two normal University semesters. As such its duration should normally be in the region of 24 weeks, no less than 20 weeks, and no more than 40 weeks. As such, students are encouraged to secure placements prior to the commencement of the academic year in which it is to take place and ideally before the end of the second semester of their level 5 studies. The student and placement provider will negotiate specific working hours, arrangements, and payment. It is the expectation of the University that, whilst the student is being hosted by the Placement Provider, they will hold a contractual position in that organisation. As such, the Placement Provider is responsible for the Health and Safety of the student and the student will be excepted to have conducted a full risk assessment, in collaboration with the Provider, in advance of placement commencement. The Risk Assessment is a mandatory part of the Placement Proposal, which students require the University to approve.

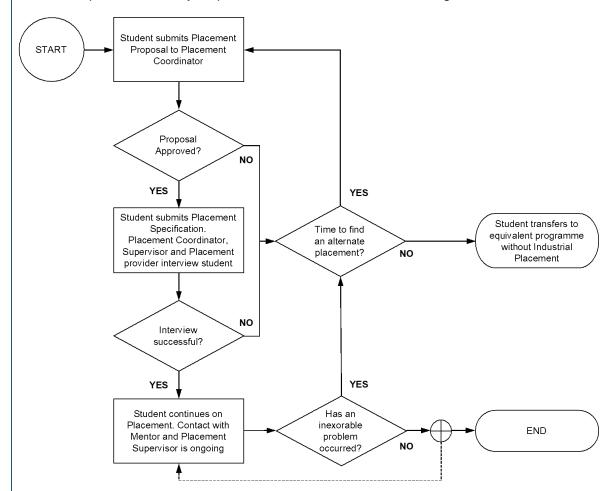
Students intending to take up a placement will be provided with a series of tutorial sessions, led by academic members of staff at the University, in the academic year the precedes the placement. This will be used to ensure that students understand the expectations and requirements of the placement, provide them with guidance and instruction upon obtaining a placement, and in completing the Placement Proposal and Placement Specification forms. It is the responsibility of students to identify and negotiate their own placement opportunity and to keep the University informed of their intentions. Placement Providers will be expected to nominate a Placement Mentor, who will bear responsibility for the student whilst with the Provider and will maintain contact with the Placement Supervisor whilst the student is on placement. Placement Supervisors and Mentors will be provided with a Handbook and the contact details of the Placement Supervisor, the Placement Coordinator, and the Head of Faculty, in case of any issues.

Briefly, the operation of the Industrial Placement will follow these steps:

- 1. The student will be expected to find and secure a suitable placement opportunity. This could be done independently or in collaboration with a member of staff at the University or via the University Careers Centre.
- 2. The student will inform the Industrial Placement module leader of the placement opportunity via a Placement Proposal form. The Placement Coordinator will then discuss the opportunity with the student and placement provider and make a decision regarding its suitability. The student will then be asked to complete a Placement Specification, in collaboration with their nominated Provider.
- 3. The Placement Specification will then be scrutinised. This will involve the Placement Coordinator conducting an interview, alongside the nominated Placement Supervisor and Mentor, of the student to determine the student's suitability to undertake the placement. The Placement Coordinator, Placement Supervisor, and Placement Mentor will determine if the proposed placement meets the academic requirements of the module.
 - a. If the placement is approved, practical arrangements will be completed by the student in collaboration with an allocated academic Supervisor and Mentor at the placement provider.
 - b. If the placement is not approved the student must find an alternate placement or change to the BSc (Hons) Computer Science programme.
- 4. A full set of information, expectations and guidelines will be provided as part of the Industrial Placement Handbook, which will be supplied to students, placement providers and University supervisors and asked to sign a statement of agreement. This will include the Placement Specification, which is, in essence, a learning agreement and details the learning objectives, plan of work, and intended deliverables for the placement provider.
- 5. The student will produce a progress report before the end of the second semester and this will include a site visit by their academic supervisor.
- 6. During the course of the placement, the student will complete a learning log, which will be a diarised record of their activities and experience during the placement. This will also include comments and feedback from their mentor at the

placement provider organisation. Students are expected to produce one entry every 3 to 4 weeks during placement.

The entire placement lifecycle process is illustrated in the following flowchart:



Students successfully completing the Industrial Placement module will be awarded the 120 credit value for the module, which is a requirement of obtaining their differentiated award title to include "with Industrial Placement".

If irreconcilable problems occur during the placement the student should attempt to find an alternate placement opportunity. In the event that this cannot be done or if students fail to meet the expectations of the placement year, the student will be transferred to the BSc (Hons) Computer Science programme and may have to suspend their studies for the remainder of the current academic year. Students failing the placement module will be automatically transferred to the BSc (Hons) Computer Science programme by the appropriate Progression Board.

Students who withdraw from the industrial placement more than one month after commencement, but prior to completion will revert to the 3 year programme and re-join their studies the following academic year. There will be no opportunity to retake the placement year.

27 Welsh medium provision

The programmes will be delivered through the medium of English. Students are entitled to submit assessments in the medium of Welsh.

28 Assessment strategy

A range and diversity of assessment is provided on the programme as a way to allow students with multiple types of opportunity to demonstrate the skills and knowledge that they are developing over the duration of the programme and to help support inclusivity. This mixture often makes use of assessment methods where students must document a process or solution to a challenge, but also in the submission of artefacts, such as computer programs, databases, media assets, and practical network implementations.

Module code & title	Assessment type and	Assessment	Indicative
module code à title	weighting	loading	submission date
Computer Systems	Portfolio (100%)	3000	Ongoing, Sem 1
Managing Data	Coursework (70%)	N/A	Wk 8, Sem 1
Managing Data	In-class test (30%)	1.5 hours	Wk 0, Sem 1 Wk 12, Sem 1
Information and Systems	Portfolio (100%)	3000	Wk 12, Sem 1 Wk 12, Sem 1
Engineering		3000	VVK 12, Selli I
Discrete Computational	Coursework (60%)	tbc	Wk 10, Sem 2
Methods	In-class test (40%)	1.5 hours	Wk 13, Sem 2
Web Design &	Coursework (100%)		Wk 6, Sem 1
Development			Wk 12, Sem 1
Problem Solving with	Coursework (50%)	N/A	Wk 12, Sem 1
Programming	Coursework (50%)	N/A	Wk 12, Sem 2
User Experience Design	Case Study (70%)	2000	Ongoing, Sem 2
(UXD)	Group Project (30%)	3000	Wk 13, Sem 2
Data Structures and	Portfolio (75%)	3000	Ongoing, Sem 1
Algorithms	In-class Test (25%)	5 hours	Wk 13, Sem 1
Cyber Security and	In-class test (30%)	1 hour	Wk 10, Sem 2
Forensics	Coursework (70%)	3 hours	Wk 12, Sem 2
Group Project	Group Project (100%)	4000	Wk 12, Sem 2
Databases and Web-	Coursework (50%)		Wk 6, Sem 2
based Information Systems	Coursework (50%)		Wk 12, Sem 2
Responsible Computing	Coursework (100%)		Wk 12, Sem 1
Industrial Placement	Placement Specification		Wk 3, Sem1
	Progress Report		Wk 12, Sem 1
	Learning Log		Wk 12, Sem 2
Computability and	Group Project (60%)	20 mins / 3000	Wk 11, Sem 1
Optimisation	Exam (40%)	2 hours	Wk 13, Sem 1
Distributed Data and	Coursework (50%)	2500	Wk 6, Sem 1
Data Analytics	Coursework (50%)	2500	Wk 12, Sem 1
Future Technologies	Presentation (40%)	40%	Wk 6, Sem 2
	Report (60%)	60%	Wk 12, Sem2
IT Project Management	Coursework (100%)	4000	Wk 12, Sem 1
Project	Project (100%)	12000	Wk 13, Sem 2

29 Assessment regulations

The University regulations for Bachelor Degrees apply.

Derogations

TBC

Non-credit bearing assessment

N/A.

Borderline classifications (for undergraduate programmes only)

The 40 credit Project module at level 6 will be used to determine if a student's classification is to be uplifted to the higher grade.

Restrictions for trailing modules (for taught masters programmes only)

N/A

30 Programme Management

Programme leader

Mrs. Denise Oram

Module Leaders

Dr. Paul Comerford Prof. Vic Grout Mrs. Bindu Jose Mr. Jason Matthews Mrs. Julie Mayers Prof. Richard Picking Mr. John Worden

Link to Staff Profiles

Programme leader at IST College/SEY, Athens: Dr Irakleous Dimitris

31 Quality Management

Programme Management

The programme will be managed under the auspices of the Faculty of Arts, Science and Technology and the programme will develop and operate within the terms of the overall management of curriculum within the Faculty. However, there will be a designated Programme Leader who will be responsible for the day-to-day running of the programme, including the following:

- The management and development of curriculum and the course portfolio
- Student tracking and student records
- Collation of assessment data and presentation of data at assessment boards
- Management/co-ordination of overall assessment activities across the programme
- Liaison with external bodies and agencies
- Quality assurance and annual monitoring, including compilation of the Annual
- Monitoring Report
- Co-ordination of admissions activities and other recruitment activities, including relevant publicity activities

At module level there is devolved responsibility to Module Leaders for the following:

- The maintenance and development of teaching and learning materials for all students enrolled on the module
- The publishing and updating of module timetables, which shall include a weekly schedule of module sessions and required reading, to be distributed to students at the start of all modules
- The setting, marking and collation of marks for all module assessments and examination papers, including resit assessments, and submission of student results to the Programme Leader
- Tutorial support for students taking the module which they are responsible
- Quality monitoring, including processing of annual student feedback questionnaires and, where appropriate, feedback for individual modules
- Liaison with part-time members of staff involved in module teaching

Student Feedback

The University has procedures for the regular review of its educational provision, including the annual review of modules and programmes, which draw on feedback from such sources as external examiner reports, student evaluation, student achievement, and progression data. In addition, programmes are subject to a programme periodic review (PPR) and re-validation in year 5 that includes external input.

Feedback from students plays a critical part in informing the Faculty's strategic thinking. It also allows the Faculty to evaluate how its most important group of stakeholders, its students, views its service provision. Students can provide feedback in a number of ways, for instance:

Student Voice Forum (SVF): Chaired by a member of academic staff from outside the programme, will be held at least once per semester. The Chair will minute student feedback for action/response by the Programme Leader. Minutes of the

SVFs and the response from the Programme Leader will be posted on the programme pages of Moodle. All programmes have representation at SVFs.

Student Evaluation of Modules (SEM): Module Leaders will distribute SEMs at the end of each module. A summary of the analysis of the SEMs, along with any other feedback (e.g. from the student suggestion box), will be passed to the Programme Leader for action/response.

Feedback on assessed work: Students submit work in a number of different ways depending on the module being studied. Wherever possible Moodle is used for electronic submission and Turnitin to check the similarity score and tutors give feedback via this interface within 3 working weeks. Practical work is developed and assessed by having students demonstrate their work, again immediate feedback is given. At the end of a module, overall feedback is provided along with a clear indication of what area the student needs, if necessary, to resubmit or what areas were good and which areas can be improved on.

32 Research and scholarship activity

Research within the programme team is co-ordinated at a Faculty level via the Arts, Science and Technology Research Centre. However, at a local level this manifests

itself through the Applied Research in Computing Laboratories (ARClab) group. ARClab's research encompasses the broader computing subject and is concentrated in the following areas:

- IoT, Networking and Cybersecurity
- Audio and Affective Computing
- Health and Assisted Living Technologies
- HCI, Augmented and Virtual Reality
- CAD/Engineering software
- MIS/Business
- Ethics/professionalism
- Robotics/AI

ARClab has taken over from the previous Computing research groups of Creative and Applied Research for the Digital Society (CARDS) and the Centre for Applied Internet Research (CAIR), which built up their activities very impressively over the past ten years. The commitment and enthusiasm of the staff is very evident and significant outputs have been achieved over a whole range of activities, covering publications, grant winning, conference organisation, industrial engagement etc.

In the 2014 Research Excellence Framework (REF 2014), the Faculty's submission to the Computer Science and Informatics category received a grade point average of 2.04, with over two-thirds of all research scoring 2* or higher.

Significant achievements during the recent past include the very professional organisation of a conference to the highest international standards; the development of a large-scale EU-funded research project, the steady production of conference publications, in addition to a sound proportion of academic journal publications; the setting up of a usability laboratory - a relatively unique facility in Wales; the importing of a substantial new base of specialism in wireless technologies and a success in a radio frequency identification tagging (RFID) project, which is intended to be rapidly grown into an additional research theme.

33 Learning support

Institutional level support for students

The University has a range of departments that offer the support for students as:

- Library & IT Resources
- The Assessment Centre
- DisAbility Support Team
- Irlen Centre
- Careers Centre and Job Shop
- Zone Enterprise hub
- Chaplaincy
- Counselling & Wellbeing
- Student Funding and Welfare
- International Welfare
- Student Programmes Centre
- Glyndŵr Students' Union

Faculty support for students

All students at Wrexham Glyndŵr University are allocated a Personal Tutor whose main responsibility is to act as the first point of contact for their personal students and to provide pastoral and academic support throughout their studies at the University. It is a vital role to support student engagement and retention, and to help every student to success to the best of his or her ability.

Programme specific support for students

Induction

New students on the programme will undergo an induction programme that will provide them with a full introduction to the programme, and will include elements of work on study skills and professional development.

Student Handbook

All students on the programme will receive a Student Handbook, provided electronically via the VLE, which will contain details and guidance on all aspects of the programme and forms of student support and guidance, programme-based, and Faculty-based.

Computing Labs

The majority of Computing provision is located on the Wrexham campus, including teaching rooms, lecture theatres, staff offices, and specialist labs. There are a number of specialist computer labs on the Wrexham campus, including general purpose computing laboratories that support the teaching. These specialist labs offer access to a range of software that is utilised within the modules defined in the programme.

Open Door Policy

Computing operates an Open Door policy, meaning that academic staff are readily and easily accessible and approachable for students outside of scheduled learning and teaching hours. Staff can be approached without the need for a formal appointment to be made.

Progress Review and Attendance Monitoring

Student attendance will be subject to regular monitoring through registers, and this will be a means of addressing issues of student support. There will also be regular reviews for each student with personal tutors.

34 Equality and Diversity

Glyndŵr University is committed to providing access to all students and promotes equal opportunities in compliance with the Equality Act 2010 legislation. This programme complies fully with the University's Equal Opportunities Policy (<u>http://www.glyndwr.ac.uk/en/AboutGlyndwrUniversity/Governance/TheFile,64499,en.</u> pdf), ensuring that everyone who has the potential to achieve in higher education is given the chance to do so.

DATE OF APPROVAL	
Date of programme delivery approval event:	21 January 2021
Date of approval by Academic Board:	12 April 2021



APPENDIX 1 – PARTNER PROVIDER SUPPLEMENT TO PROGRAMME SPECIFICATION

When printed this becomes an uncontrolled document. Please check the Programme Directory for the most up to date version by clicking <u>here</u>.

Programme Title(s):

BSc (Hons) Computer Science

This is the intended award title from the definitive Programme Specification and what will be printed on the award certificate.

1	Awarding body
	Glyndŵr University
2	Partner Provider
	Global Pathways Academy
3	Location of delivery
	Global Pathways Academy, #806, Souravya, 10th A Main Road, Indiranagar 1st Stage, Bangalore – 560 038
	Western International College (WINC) #22/1, Siddedahalli ,off Hesarghatta Main Rd, behind Siddineya Temple, Nagasandra Post, Bengaluru, 560073
	Western International College (WINC) FZE, PO Box 16038, Ras Al Khaimah Free Trade Zone, Ras Al Khaimah, UAE and/or other sites as approved by Glyndwr in writing.
4	Faculty/Department
	Faculty of Arts, Science and Technology
5	Mode of study
	Full time
6	Frequency / timing of intake/s
	3 intake points per academic year (July, September and January)
7	Language of study
	English
8	Name of academic link (correct at the point of programme approval)
	Computing – John Worden

35 9 GU Approved Partner Programme Delivery Schedule(s)

BSc (Hons) Computer Science (Level 6 top up)

buly intake int	CALCHACA ACHIVELY	
Semester 3	COM641	COM648
	Distributed Data and	Computability and
Jul to Aug	Data Analytics	Optimisation
	(20 credits)	(20 credits)
	CORE	CORE
Semester 1	COM644	COM643
	IT Project	Future Technologies
Sep to Jan	Management	(20 Credits)
-	(20 credits)	CORE
	CORE	
Semester 2	COM646	·
	Project	
Feb to May	(40 credits)	
•	CORE	

July intake – f/t extended delivery

September intake – f/t extended delivery

ocptember intake			
Semester 1	COM641	COM648	
	Distributed Data and	Computability and	
Sep to Jan	Data Analytics	Optimisation	
	(20 credits)	(20 credits)	
	CORE	CORE	
Semester 2	COM644	COM643	
	IT Project	Future Technologies	
Feb to May	Management	(20 Credits)	
	(20 credits)	CORE	
	CORE		
Semester 3	COM646		
	Project		
Jun to Aug	(40 credits)		
	CORE		

February intake – f/t extended delivery

Semester 2	COM644	COM643			
Ech to May	IT Project	Future Technologies			
Feb to May	Management	(20 Credits)			
	(20 credits)	CORE			
	CORE				
Semester 3	COM641	COM648			
	Distributed Data and	Computability and			
Jun to Aug	Data Analytics	Optimisation			
	(20 credits)	(20 credits)			
	CORE	CORE			
Semester 1	COM646				
	Project				
Sep to Aug	(40 credits)				
	CORE				

DATE OF APPROVAL	
Date of APC recommendation to Academic	14 June 2023
Board:	
Date of approval by Academic Board:	21 June 2023



APPENDIX 1 – PARTNER PROVIDER SUPPLEMENT TO PROGRAMME SPECIFICATION

When printed this becomes an uncontrolled document. Please check the Programme Directory for the most up to date version by clicking <u>here</u>.

Programme Title(s): BSc (Hons) Computer Science

This is the intended award title from the definitive Programme Specification and what will be printed on the award certificate.

1	Awarding body
	Wrexham University
2	Partner Provider
	IST College
3	Location of delivery
	68, Syngrou Avenue, 11742 Athens
4	Faculty/Department
	Faculty of Arts Science and Technology
5	Mode of study
	Full time
6	Frequency / timing of intake/s
	1 intake point per academic year (Sept/Oct)
7	Language of study
	English and Greek (Dual Language) English
8	Name of academic link (correct at the point of programme approval)
	Julie Mayers

9 **GU Approved Partner Programme Delivery Schedule(s)**

		Level 4		
Semester 1	COM465	COM438	COM439	COM437
Sep-Jan	Computer	Managing Data	Problem Solving with	Information and
	Systems		Programming	Systems
		20 Credit		Engineering
	20 Credit	CORE	20 Credit	
	CORE		CORE	20 Credits
		Language:		CORE
	Language:	Greek	Language: Greek	
	Greek			Language: Greek
Semester 2	COM440	COM457		
Feb-May	Web Design &	Discrete		
	Development	Computational		
		Methods		
	20 Credits			
	CORE	20 Credits		
		CORE		
	Language:			
	Greek	Language:		
		Greek		

September intake – f/t Dual Language English and Greek

Level 5						
	L	evel 5				
Semester 1	COM545	COM556	COM539			
Sep-Jan	Responsible	User Experience	Data Structures			
	Computing	Design (UXD)	and Algorithms			
	20 Credits	20 Credits	20 Credits			
	CORE	CORE	CORE			
	Language:	Language:	Language:			
	English	English	English			
Semester 2	COM553	COM540	COM537			
Feb-May	Group Project	Databases and	Applied			
		Web-based	Programming			
	20 Credits	Information				
	CORE	Systems	20 Credits			
			CORE			
	Language:	20 Credits				
	English	CORE	Language:			
			English			
		Language:				
		English				

Level 6			
Semester 1	COM641	COM648	COM644
Sep-Jan	Distributed Data and Data	Computability and Optimisation	IT Project Management
	Analytics		

		20 Credits	20 Credits
	20 Credits	CORE	CORE
	CORE		
		Language:	Language:
	Language:	English	English
	English		
Semester 2	COM643	COM646	
Feb-May	Future	Project	
	Technologies		
		40 Credits	
	20 Credits	CORE	
	CORE		
		Language: English	
	Language:		
	English		

September intake – f/t English

Level 4				
Semester 1	COM465	COM438	COM439	COM437
Sep-Jan	Computer	Managing Data	Problem Solving with	Information and
	Systems		Programming	Systems
		20 Credit		Engineering
	20 Credit	CORE	20 Credit	
	CORE		CORE	20 Credits
		Language:		CORE
	Language:	English	Language: English	
	English	_		Language:
Semester 2	COM440	COM457		English
Feb-May	Web Design &	Discrete		
	Development	Computational		
		Methods		
	20 Credits			
	CORE	20 Credits		
		CORE		
	Language:			
	English	Language:		
		English		

Level 5			
Semester 1	COM545	COM556	COM539
Sep-Jan	Responsible	User Experience	Data Structures
	Computing	Design (UXD)	and Algorithms
	20 Credits	20 Credits	20 Credits
	CORE	CORE	CORE
	Language:	Language:	Language:
	English	English	English

Semester 2	COM553	COM540	COM537
Feb-May	Group Project	Databases and Web-based	Applied Programming
	20 Credits	Information	g
	CORE	Systems	20 Credits CORE
	Language:	20 Credits	
	English	CORE	Language: English
		Language: English	

Level 6			
Semester 1	COM641	COM648	COM644
Sep-Jan	Distributed Data	Computability and	IT Project
	and Data	Optimisation	Management
	Analytics		
		20 Credits	20 Credits
	20 Credits	CORE	CORE
	CORE		
		Language:	Language:
	Language:	English	English
	English		
Semester 2	COM643	COM646	
Feb-May	Future	Project	
	Technologies		
		40 Credits	
	20 Credits	CORE	
	CORE		
		Language: English	
	Language:		
	English		