

Validation Document		
1	Title of Programme	Digital & Technology Solutions
2	Award (e.g. FdA, FdSc)	FdSc
3	Contained Award	Certificate of HE for successful completion of 120 credits at Level 4
4	UCAS code (if applicable)	G4L1
5	HECOS codes	100366 40% 100358 40% 100376 20%
6	Mode of Study (full and/or part-time)	Full Time - Online
7	Duration (total number of years)	2
8	Number of weeks per academic year	31 Each Trimester consists of 8 weeks of module delivery. Trimester 1 has an extra week in which students are prepared for study at the new level. There are 6 assessment weeks.
9	Accrediting Professional / Statutory Body (if applicable)	n/a
10	Location of delivery	Online Distance Learning
11	Faculty	Digital & Creative Industries
12	Entry requirements	

Standard offer

Standard entry requirement for the degree will be 80 UCAS points, with a minimum of grade '4' in GCSE English or equivalent (Functional Skills Literacy Level 2 or Adult Literacy Level 2), and grade '4' in GCSE Mathematics or equivalent (Functional Skills Numeracy Level 2 or Adult Numeracy Level 2).

Non-standard offer

The TEC Partnership also encourages applications from non-traditional learners who lack formal academic qualifications. All such non-traditional applicants will be interviewed, set an appropriate piece of work which will demonstrate both academic and technical aptitude within digital technologies. Applicants already working with this field will be asked to provide evidence of relevant digital product development and a judgement made taking into account their academic potential and relevant experience.

Applicants applying for the online learning programme will generally be those who are in full time employment, however applicants who are engaged in freelance work or are self employed may also apply for Online learning. Other applicants will be considered on a case by case basis to allow for applications from those who would otherwise find it difficult to attend in person due to extenuating personal circumstances; however, such applicants may be

required to provide evidence of their circumstances in order to support their application. Once offered a place on the programme that place and the mode of delivery will be assured in such cases where there is a change in employment status in order to allow successful applicants to complete their studies with a consistent mode of delivery.

Accreditation of prior learning

TEC Partnership encourages student transfers from other institutions. Applicants may be admitted with credit for prior certificated learning (APcL) or work/life experience or other uncertificated learning (APeL). Please refer to the [HE21 Student Transfers and the Accreditation of Prior Learning Admissions](#)

International admissions

TEC Partnership recognises a wide range of entry qualifications as being equivalent to A' level standard; if students hold a qualification not listed above please contact TEC Partnership's admissions team on +44 (0) 1472 311222 ext. 434.

International students must evidence they possess a satisfactory command of English language in terms of reading, writing, listening and are expected to have achieved Level B2 on the Common European Framework of Reference for Language (CEFR), as defined by UK Visas and Immigration.

13	Minimum number of students required for the programme to run	12
14	Degree classification weighting	

The degree classification is awarded based on the average percentage mark achieved at level 5 of the degree.

15	Aims of the programme and distinctive features/fit with existing provision	
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Overall programme description:

Digital & Technology Solutions aims to integrate theory and practice in each of the core subject areas and will actively encourage continued application within a commercial and business context. As you progress through the programme, you will develop of specialist skills aligned with your career interests and aspirations. As practitioners, you will not only develop academic work but will build a portfolio of developmental work which will help in preparation for both industry and further academic study at level 6 honours stage (Top-up).

Delivery will be through lectures and presentations to integrate underpinning theory and practice in seminar and workshop sessions to build practical design and development skills. Practical activities will be based around realistic commercial scenarios and contexts and will include the development of relevant standardised documentation in line with industrial practice. Assessment of modules will reflect this with many modules requiring a combination of developmental practice and the production of supporting technical and non-technical documentation. At the heart of this will be an understanding of the systems development lifecycle and the commonly recognised stages of this (research, planning, design, development, testing implementation and evaluation). Reflective practice will also be embedded in all modules with students encouraged to evaluate their own performance and make recommendations for their own further development. Opportunities will also be included to work in teams either in person or remotely and to formally present findings both individually and in teams.

Level 4 of the programme will focus on the acquisition of fundamental skills within the following modules: Professional & Research Skills, Systems Analysis & Design Methodologies, Computer Network Fundamentals, Business Information Systems Fundamentals, Web Development and Database System Fundamentals.

Level 5 will focus on the development and application of skills and knowledge within a commercial context. Modules at level 5 are: Agile Project Management, Database Applications Development, Computer Security –

Network & Systems, Network Management & Operations. These modules at level 5 lead to a Major Project bringing together the knowledge, skills and experience acquired on the programme within a self-initiated project which should form the basis for an area of employment or further study.

The development and continued success of business is increasingly predicated on its ability to harness and employ digital and technology solutions to develop and market new products and services, increase productivity and workflow, minimise costs, and protect itself from threats from various forms of cybercrime. At the core of this is an increasing need to manage and maintain large sets of data and this in turn leads to additional security requirements and the application of advanced data analytics that rely heavily on the application of artificial intelligence.

Digital technologies are now a fundamental part of all sectors of commerce and industry with computer systems and digital communications technologies providing the backbone for all data gathering, data management, decision making and strategic management processes, systems development, auditing, security and communication in both the public and private sectors. Underpinning this is the continual need to design and develop technological solutions to a broad range of ever evolving problems. This encompasses a range of digital and communications-based solutions centred on the acquisition, storage, manipulation, retrieval and dissemination of data. In many cases the solutions will be based around database functionality on the server side and web-based user experience on the client side. In recent years these systems have become more complex and at the same time more necessary due to the massive volumes and range of data to be considered, a need for improved security and the introduction of more stringent regulation.

Aims of the programme

- To develop knowledge and critical understanding of the core principles of data modelling, network configuration, interface design, network security and legislation pertaining to data handling.
- To develop the ability to select from and work within recognised methodologies (systems development methodologies) appropriate to the nature and scale of any defined project.
- To develop strong skills in analysis, planning and design of data driven systems; to include analytical and problem-solving skills and the production of documentation to recognised communicable standards.
- To equip practitioners with relevant skills in the development and deployment of data driven applications to serve a broad range of industrial and commercial needs.
- To develop the capability to critically reflect on personal and professional aspirations in relation to further study, employment and international opportunities in data and communications.
- To develop and nurture an awareness of professional and ethical work practices as part of a team and independently which informs all roles and responsibilities within digital technologies and communications.

What makes this programme distinctive against other providers?

This programme will be distinctive as it will focus on teaching through employer engagement and project-based learning based on the needs of business as a core. It will include business and information systems, business analysis and professional project management which will centre on business-orientated solutions. During level 5 of the programme students will work towards their specialism within a specialist project module and could choose

from the following specialisms: Software Engineer, IT Consultant, Cyber Security Analyst, Data Analyst and Network Engineer.

The programme is offered through online learning allowing students to study and work toward assessment off campus. Learning will make extensive use of online delivery, assessment and resources and is ideally suited to students who are in full time employment and cannot adjust their working hours in order to attend in addition to those students for whom it would not be possible to relocate.

How does it match and compliment current provision?

The programme will compliment the face-to-face version of FdSc Digital & Technology Solutions. The programme will attract students progressing directly from internal level 3 programmes as well as some mature students who benefit from in-class traditional delivery. These students undertake some work-based elements to their programme but are not typically employed in the industry from the outset.

What can graduate progress to on successful completion of the programme?

The programme learning outcomes cover the full range of benchmarks allowing the programme to be effectively mapped to the current BSc (Hons) Computing Technologies (Top-up) entry requirements allowing graduates to progress directly on to this programme. Further to this it should be possible for students to apply to other institutions offering comparable BSc (Hons) top up programmes.

Many employers both within the computing/ICT sector and other industry/commercial sectors will fully recognise the FdSc award opening up the potential to apply for graduate employment in some cases. Students may also choose to follow up the programme by undertaking professional certification programmes (for example, those offered by CISCO, Microsoft, Adobe, etc.).

16 Programme Learning Outcomes <i>Upon successful completion of this programme a student will be able to...</i>		
	Programme Learning Outcome	Subject Benchmark Reference
1	Knowledge and understanding: Critically analyse a business domain, identifying and evaluating the role of IT systems and propose digital technology solutions to issues and opportunities, with consideration of change management, organisational culture and cost/benefit analysis.	6.3 i, 6.3 ii, 6.3 v, 6.3 vi, 6.5 i, 6.5 ii, 6.5 iv, 6.5 v, 6.7i, 6.7 ii & 6.7 iii
2	Knowledge and understanding: Analyse business and technical requirements to select, specify, implement and test appropriate and secure technology solutions.	6.3 i, 6.3 ii, 6.3 iii, 6.5 i, 6.5 ii, 6.5 iv, 6.5 v, 6.5 vi, 6.7 i & 6.7ii
3	Knowledge and understanding: Identify user, system and data requirements in the context of organisational information systems, model data solutions and demonstrate understanding of the application of data analysis and administration skills, maintaining data integrity.	6.3 i, 6.3 ii, 6.3 iii, 6.3 vi, 6.5 i, 6.5 ii, 6.5 iv, 6.5 v, 6.7 i & 6.7 iii
4	Intellectual skills: Conduct and correctly document both secondary and primary research activities making appropriate use of referencing, citation and planning strategies in order to support the execution of primary research activities and to support study within the programme following academic conventions.	6.3 i, 6.3 ii, 6.3 v, 6.3vi, 6.5 i, 6.5 iii, 6.5 iv, 6.5v, 6.5 vi & 6.7iii
5	Intellectual skills: Plan, design and manage computer and network infrastructure, employing structured problem-solving techniques to enable services and capabilities for the organisations and systems in which they operate.	6.3 i, 6.3 ii, 6.3 iii, 6.3 v, 6.3 vi, 6.5 i, 6.5 ii, 6.5 iii, 6.5 iv, 6.5 v, 6.5 vi, 6.7 I, 6.7

		ii & 6.7 iv
6	Intellectual skills: Carry out research in order to integrate underpinning theory and contextual insight to support the planning and design of digital solutions for business and commercial contexts.	6.3 i, 6.3 ii, 6.3 vi,6.5 i, 6.5 ii, 6.5 v, 6.5 vi & 6.7iii
7	Practical/Professional skills: Demonstrate the application of systematic methodologies for initiating, planning, executing, managing and completing projects using research skills, industry standard processes, methods, techniques and tools.	6.3 I, 6.3 ii, 6.3 iii. 6.3 iv, 6.3 v,6.5 i, 6.5 ii, 6.5 iii, 6.5 iv, 6.5 v, 6.5 vi, 6.7i, 6.7ii & 6.7iii
8	Practical/Professional skills: Identify, analyse and critically evaluate security issues with planned and installed information systems or services, performing analysis of risk and proposing and configuring solutions. Then be able to apply the principles of cyber security issues to implement, maintain and support security within those solutions.	6.3 I, 6.3 ii, 6.3 iii. 6.3 iv, 6.3 vi,6.5 i, 6.5 ii, 6.5 iii, 6.5 iv, 6.5 v, 6.5 vi, 6.7 i& 6.7ii
9	Practical/Professional skills: Apply the principles of business analysis, solutions development, network infrastructure, data analysis and cyber security and regulation, providing strategic guidance and support to enhance the business through digital and technology solutions.	6.3 I, 6.3 ii, 6.3 iii. 6.3 iv, 6.3 v, 6.3 vi,6.5 i, 6.5 ii, 6.5 iii, 6.5 iv, 6.5 v, 6.5 vi, 6.7 I & 6.7 ii
10	Practical/Professional skills: Apply network engineering principles to design, install, configure and support communication networks within and between organisations.	6.3 I, 6.3 ii, 6.3 iii. 6.3 iv, 6.3 v, 6.3 vi,6.5 i, 6.5 ii, 6.5 iii, 6.5 iv, 6.5 v, 6.7i & 6.7ii
11	Transferrable skills: Demonstrate professional, business and interpersonal skills appropriate to the organisation and in wider contexts.	6.3 I, 6.3 v, 6.3 vi,6.5 I, 6.5 ii, 6.5 v, 6.5vii, 6.7i, 6.7 iii & 6.7 iv
12	Transferrable skills: Apply project management in the context of systems analysis and design projects and incorporating relevant stages identified within recognised systems development methodologies in order to ensure that projects are carried out to completion.	6.3 I,6.3 v, 6.3 vi,6.5 I, 6.5 ii,6.5 iv, 6.5 v, 6.7 I, 6.7 ii & 6.7 iv

17 Teaching and Learning Strategy

The teaching and learning strategy for this programme will be predicated on an online approach to delivery and assessment.

The programme is largely designed for students who have or are about to commence employment as there will be a requirement throughout the programme, and essentially by level 5, for the student to be able to apply learning in real world contexts to work-related projects.

Using the Canvas platform, modules will be accessible through the online portal. The programme will be structured to ensure that learning is built in stages with access to modules given as students complete an appropriate stage or level. Thus, students will be able to learn, to some extent, at their own pace. The resources provided through the Canvas platform will include all resources that would be available to full time learners and will include additional resources to support learners in their self-directed study in order to mitigate the reduced class contact time. This will include access to module tutorials via video calls, VOIP and/or other messaging systems. Where practical skills are to be developed practical demonstrations should be made available through video presentations. Where group discussion would normally take place within the classroom an online forum and potentially video conferencing should be available for online students to be able to carry out such discussions within their cohort.

Practical and professional skills will be developed through projects, briefs and assignments which develop and encourage practical application of learning. Both core modules and the later specialist modules will employ this approach to ensure that learning outcomes are planned to enhance the business or organisation in which they are employed.

Whilst the nature of the programme is that this is delivered through online and mobile technologies, there will be opportunities for students to work collaboratively through online forums, project groups and other platforms to ensure there is opportunity for shared learning experiences. Academic supervision will also be provided through video calling, VOIP or other messaging systems and each student will be entitled to 5 hours of academic supervision for modules which contain self-directed research and/or development projects per relevant module.

The entire teaching and learning strategy are focussed on producing independent and competent practitioners who have a rounded knowledge and appreciation of digital and technology solutions whilst being able to specialise in an area to contribute to their organisation. The ability to maintain cognisance of the constant changes within digital and technology opportunities, threats and developments and their application to business organisations is a core aim within the strategies for teaching and learning on this programme.

Level 4

Modules at level 4 are designed with an understanding that students joining the programme may have widely varying skills and experience and therefore the subject matter of any given module may be unfamiliar to the student. With that in mind each level 4 module covers the fundamental theories of its subject as if the subject is being delivered 'from scratch' within the earliest stages of the module; however, the coverage of the fundamentals will be limited and it is expected that students who are unfamiliar with a module's subject will also carry out independent study in that area and will make use of tutorial support to address any shortfall or gaps in their knowledge and skills. From this foundation students will then go on to develop knowledge and skills to meet the level 4 outcomes.

The approach at level 4 is still very much one of teaching and learning with tutors guiding students through the modules but actively encouraging independent study and work that goes beyond threshold learning outcomes with deeper exploration of each modules indicative content.

All modules will encourage thorough secondary research and the application of that research, critical thinking, analysis and evaluation, and reflective practice. This will be reflected in the assessment requirements and guidance for each module.

The balance between lecture/seminar and labs/workshops will reflect the emphasis on teaching.

Essential study skills, research skills and core professional skills are included at level 4 in order to ensure students are able to make the transition to level 5 successfully.

Level 5

Modules at level 5 will build upon modules covered at level 4 both directly and in combination and with this in mind level 4 modules will be identified as pre-requisites for level 5 modules where relevant.

At level 5 the approach will shift from one of teaching and learning to one of learning and teaching, implying that students will be expected to be more independent and capable of self-directed study with teaching intended as support for those areas where students identify additional support needs. Each module will still include delivery of relevant and new underpinning theory and new skills, but the balance between lectures/seminars and labs/workshops will shift with an increase in workshop time to allow students to carry out their own self-directed development activities.

This will culminate in students undertaking and completing a substantial (40 credit) research and development project in which delivery will be minimal (specifically to support research skills and project management) and support will be offered primarily through academic supervision.

Academic support online

The Module Tutor and Programme Leader will be your first point of contact for anything to do with your studies. Your module tutors will lead the seminars, facilitate group work and discussions that will stretch and

challenge you, and prepare you for assessments. There will be a weekly 1-hour tutorial during term time, in addition to the module webinars.

In addition, students will be able to access an individual tutorial with their Module Tutor or Programme Leader and these will take place on the Canvas platform or Microsoft Teams.

You will also have a personal tutor who will provide one-to-one support and guidance about academic issues to the equivalent of 8 hours per student in each academic year.

As a Digital and Technology Solutions Degree student, you will join a community of students and will benefit from all of the same university services as any other student enrolled at University Centre Grimsby. This includes our Learning Resource Centre and IT services and access to student support and careers services, which can be accessed online or via telephone during working hours.

Students will also be able to access a Success Coach who will be able to assist with any difficulties, extension requests and mitigating circumstances applications which may be necessary. Access will be online using Canvas or Teams where appointments and support meeting can be arranged. These would be within the working week and hours – Monday to Friday, 9:00am – 4:30pm.

18 Programme Structure				
Module Title	Core/ Option	Credits	Level	Delivery T1/T2/T3
Professional and Research Skills	C	20	4	T1
Systems Analysis and Design Methodologies	C	20	4	T1
Computer Networking Fundamentals	C	20	4	T2
Business Information Systems Fundamentals	C	20	4	T2
Web Development	C	20	4	T3
Database System Fundamentals	C	20	4	T3
Agile Project Management	C	20	5	T1
Database Applications Development	C	20	5	T1
Computer Security - Network and Systems	C	20	5	T2
Network Management and Operations	C	20	5	T2
Major Development Project	C	40	5	T3

19 References used in designing the programme	
QAA Subject Benchmarking Statement – Computing 2019	

20	Indicators of quality and standards
<p>The programme will follow the QA standards of TEC Partnership. The programme has been written with reference to appropriate external reference points.</p> <p>QAA reviews, will be published and any weaknesses addressed as appropriate. TEC Partnership also undertakes a number of scheduled internal periodic and thematic reviews throughout each academic year to assure itself of the quality and standards of its provision.</p> <p>External Examiners reports are received by the HE Quality department and a copy forwarded to the relevant School. TEC Partnership requires action plans to be created for any actions recommended as a result of student, tutor, moderator or External Examiner comments. These are reported to the HE Committees. TEC Partnership also monitors External Examiner reports and these are reported on through faculty self-evaluation and enhancement documents, the quality enhancement report and TEC Partnership's External Examiner's institutional analysis report.</p> <p>Annual course reviews (AMRs) will take place in line with the requirements of TEC Partnership and actions planned to rectify any weaknesses and further develop the quality of the provision. These AMRs are moderated internally by the Curriculum Manager and then submitted to the HE Quality department to ensure key sources such as External Examiner reports are fully reflected upon before being published and also to reduce variability in the quality of information presented.</p> <p>In addition to the AMR a quality improvement proforma (QIP) is used to outline and monitor any and all recommended actions indicated within the AMR. Both the AMR and QIP for the programme are treated as living documents to be reviewed, actioned and updated throughout each academic period.</p>	
21	Particular support for learning
<p>The needs of disabled learners are taken into account in the design of all learning programmes.</p> <p>Students will be screened at induction to identify those with individual learning support needs. TEC Partnership has well-established procedures in place to support all identified students through the application and assessments for the Disabled Students' Allowance to secure any specialist equipment or tuition which is required. This will be accessible online.</p> <p>Students will also be invited to attend a meeting using either Canvas or Teams for advice and support through the DSA procedure.</p> <p>In addition to study skills embedded in the programme, TEC Partnership employs an Academic Achievement Coach. The Academic Achievement Coach is responsible for working with students to support them in the development of their study skill abilities and includes interventions such as support towards use of ICT, giving presentations, using formal writing and appropriate academic conventions, avoiding plagiarism, analytical and critical writing skills.</p> <p>Students will have access to one to one support online and also scheduled study skills workshops through negotiation within the working week and hours – Monday to Friday, 9:00am – 4:30pm.</p>	
22	Methods for evaluating and improving the quality of learning
<p>All students will have the opportunity to comment on the quality of the learning experience on each module. Staff will also be expected to complete module evaluations for each module that they deliver. This feedback must be analysed by the module leader and the results fed into the annual monitoring report, faculty self-evaluation document and subsequent year's module handbook. Programme and module leaders must consider modification to improve the delivery of any module and this should be recorded in the annual monitoring report and carried forward for minor or major modifications as appropriate.</p>	

TEC Partnership's policy requires that all teaching staff should be observed delivering learning at least annually. Teaching and learning that does not reach the minimum expected standard will result in an action plan agreed between the line manager and the member of staff.

Student satisfaction is measured by student surveys on larger courses, on the smaller course's student opinion may be gathered by other survey means. Student representatives are invited to course team meetings and additionally have the opportunity to raise items with the course leader at individual meetings outside the course team.

All modules make use of standardised module evaluation questionnaires on their completion allowing students to feedback on all aspects of a module's delivery, resources and assessment. Students are actively encouraged to complete these and the information gathered is used within the programme's AMR & QIP and also reviewed within each module's handbook. This information can then be used to make changes to the module (if necessary up to the level of minor modifications) during the annual review period and prior to release for the next cohort.

Further, TEC Partnership facilitates the Student Senate, which consists of student representatives from each HE department. The Senate meets on a monthly basis and their remit is to:

- Consider matters relating to the student experience within Higher Education.
- Enhance the Student Voice within TEC Partnership's Higher Education strategic and operational agenda.
- Provide feedback on areas of good practice.
- Put forward suggestions of the development of Institutional policy and strategy.
- Enhance the student learning experience by promoting academic and research events and cultural events in UCG.
- Increase student engagement in all aspects of Higher Education quality processes.

In order to ensure that students undertaking online learning are fully supported additional tutorial support will be offered through remote messaging. And online calls. The tutorial support will cover both academic and pastoral support (where appropriate) and be offered at both programme (with the programme leader or tutor) and module (with the respective module leader or tutor) levels.

23	Identify any ethical issues that relate to this programme's teaching and assessment
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While the majority modules should present no ethical issues student will undertake a major project at level 5 which will require the students to engage with an external employer/agency in order to provide foundation for and approval of the project. With this in mind it is possible that issues may arise regarding GDPR (use of live data within projects) and that students may also need to conduct primary research within the problem domain of the project.

To address this the major project will require students to complete and have approved an ethics proposal prior to any development activity or primary research taking place.

Ethics proposals will then be reviewed by the programme leader and the departmental ethics co-ordinator prior to being presented to the Institute's ethics committee for review (if this is deemed to be necessary by the programme leader and departmental ethics co-ordinator).

24	Is the Programme Work Based or Work Related?	Work Related
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25	How are WBL/WRL opportunities managed, monitored and reviewed, and what particular arrangements are there for student support
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There are no traditional work placements within the programme, however the major project will be undertaken with a local employer (students will be required to engage with and liaise with a local employer throughout the duration of the project and the development focus of the project must represent a real-world business case/problem agreed with that employer).

Students undertaken online learning will in most cases be in employment within sector and it is expected that in those cases the major project will be arranged with that employer. Where this is not possible those students may engage with a separate local employer as outlined above.

In all cases students will be required to complete a project proposal to be agreed by the major project module tutor, the student, the employer and any other major stakeholders of the project, prior to the project start. This document will be signed off by all parties. In addition to which, all students will be required to complete and ethics proposal to be approved by the local ethics co-ordinator in cases where no ethical issues are identified or sent for review and approval by the ethics committee at Grimsby Institute.

All modules, where relevant, will include scenarios or case studies that reflect current, real world, business practices.

26	Resources Supplied to the Student
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Office 365
 OneDrive cloud-based storage
 Microsoft Teams
 Canvas
 Licenses for software below will be made available with support of the institution.

Packet Tracer for design and simulation of networks.
 MySQL, Microsoft SQL Management Studio, PHP MyAdmin or an equivalent set of tools for database design and development.

MS Visual Studio.NET or equivalent IDE with support for languages used within module delivery (e.g. HTML, CSS, JavaScript, Java, Python, C#).

27	Resources needed to pass the programme
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Students will need access to a suitable desktop or laptop computer running Microsoft Windows 10 or similar operating system.

Access remotely to isolated network servers (*3) and additional networking equipment (routers, switches, hubs and firewall firmware).

All Students will need to ensure they have suitable stationary (pens, notebooks, pencils, ruler, eraser) and at least two USB storage devices to allow for storage and back-up of their work.

28	Revision History	
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Version	Details of major modification	Date of approval
1		
2		
3		

Curriculum Map																	
Key	Work – State WB or WR or blank Comp = Compensatable Y or N											P = Partially achieved Learning Outcome F = Fully achieved Learning Outcome					
Module name	Level	Work	Module Leader	Assessment and Weighting	Comp	1	2	3	4	5	6	7	8	9	10	11	12
Professional and Study Skills	4	-		Social Media Report 40% Group Presentation 60%	Y				P		P					P	P
Systems Analysis and Design Methodologies	4	-		Report 30% Case Study 70%	Y	P	P	P		P	P	P		P			
Computer Network Fundamentals	4	WR		Report 40% Case Study 60%	N		P			P			P		P		
Business Information Systems Fundamentals	4	-		Report 40% Proposal 60%	Y	P	P	P			P			P			
Web Development	4	WR		Web Design Report & Documentation 30% Web Development Product & Supporting Documentation 70%	N	P	P		P			P				P	P
Database System Fundamentals	4	-		Report 40% Product Development 60%	N		P	P				P		P			P
Agile Project Management	5	-		Report 30% Case Study 70%	Y	F			F		F	P				P	F
Database Applications Development	5	WR		Report 30% Product Development 70%	N	F	P					F		P			
Computer Security – Network & Systems	5	WR		Planning & Design 50% Product Development & Testing 50%	N		P			P		F	F		P		
Network Management and Operations	5	WR		Online, Open Book Exam 40% Case Study 60%	N		F	F		F			F		F		
Major Development Project	5	WR		Planning Portfolio 40% Product Demonstration & Documentation 40% Reflective Evaluation 20%	N	F			F		F	F		F		F	F