

UNIVERSITY CENTRE SOUTH DEVON



PROGRAMME QUALITY HANDBOOK 2022-2023

FdSc Sustainable Construction in the Built Environment



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1. Welcome and Introduction to FdSc Sustainable Construction in the Built Environment

1.1 Welcome statement

Welcome to your Programme Quality Handbook (PQH), this PQH is designed to provide you with programme related information both for before and during your studies. In addition to this PQH our UCSD interactive website contains our online Handbook to support you which studying at UCSD. A link is available here <u>Student Handbook | University Centre South Devon</u> (ucsd.ac.uk). It can also be navigated by going to <u>www.ucsd.ac.uk</u> and searching for student handbook.

Students will study as part of the University Centre South Devon <u>https://www.ucsd.ac.uk/</u> which is located in beautiful South Devon. This location is surrounded by the famous English Riviera coastline, one of the UK's exclusive UNESCO Global Geopark landscapes and Dartmoor National Park with its unique Granite rock tors and wild open moorland.

We received a glowing report from the Quality Assurance Agency for Higher Education (QAA) based on results from a four-day Higher Education Review in 2015. The report rates us as one of the leading quality colleges for studying higher education.

The FdSc Sustainable Construction in the Built Environment delivered at University Centre South Devon exists as a entry route for students on our HE Engineering programme, or for those who may follow Plymouth University's regulations for Accredited Prior Learning . Study may be part-time or full-time at UCSD.

1.2 Programme team

Role	Person	Email address
Personal Tutor and/or HE Lead	Andrew Finch	andrewfinch@southdevon.ac.uk
Programme Coordinator	Ben Bryant	benbryant@southdevon.ac.uk
Higher Education Coordinator	Andrew Faulkner	andrewfaulkner@southdevon.ac.uk
Curriculum Head	Adrian Bevin	Abevin@southdevon.ac.uk
Assistant Principal	Steve Caunter	Stevecaunter@southdevon.ac.uk

1.3 Personal Tutor

Your personal tutor's role is to support your personal and professional development, develop your academic skills, manage student expectations, achieve positive student-staff communications, provide pastoral support and signposting, and monitor your wellbeing. They should be your first port of call for advice and/or direction for further support on academic or pastoral matters.

Andrew Finch: Andrew is a Chartered Engineer with significant industry experience from a thirtyfive-year career starting as an apprentice engineer. Andrew has developed the Commercial Management module in the construction and civil engineering HE programmes during his three years working at UCSD. He is lead lecturer for several programmes within the curriculum area. Prior to joining academia Andrew was Associate Director for a national utilities business. He has a MSc in Engineering and Management from the University of Portsmouth and worked in civil engineering and construction projects across the UK and overseas in Australasia.

1.4 Tutoring at UCSD

UCSD's aim is to facilitate and promote positive student engagement in learning, wellbeing, academic success, and progression. This is coordinated through an integrated tutorial model:

- 1. Personal and pastoral tutoring to monitor students' wellbeing and support their personal development
- 2. An academic tutoring curriculum to support in the development of academic and employability skills and monitor your academic and professional progress
- 3. Professional services including the Student Support Hub team, library services, employability, academic standards and quality, and the University of Plymouth Student's Union for students on UoP programmes.

The integrated tutorial model ensures all students have a personal tutor and scheduled weekly group and/or one-to-one Tutorials, and are able to access professional study skills, wellbeing, disability and employability guidance from the HE Student Support Hub.

The tutorial curriculum and Personal Development is tailored for your programme including consideration of the size of programme, the hours that you are studying and the level of your programme. Details will be provided by your personal tutor

Your personal tutor's role is to support your personal and professional development, develop your academic skills, manage student expectations, achieve positive student-staff communications, provide pastoral support and signposting, and monitor your wellbeing. They should be your first port of call for advice and/or direction for further support on academic or pastoral matters. However, your tutor may refer you to members of the Student Support Hub to provide specialist advice and information. See section <u>Student Support Hub</u> below for more information.

1.5 Course Contact List

Details of your modules leaders and how and when the can be contacted are below. You can also view the profile of the teaching team within the curriculum area that your programme is based via this link: <u>https://www.ucsd.ac.uk/research-and-expertise/technology/</u>

If you have questions about a module, please contact the appropriate module leader.

If you have any questions about the programme or your pastoral needs please contact your personal tutor.

If you have any questions about fees, funding or support from the university please contact <u>university@southdevon.ac.uk</u>

1.6 Programme Structure

Level 4					
Module Leader	Modules	Module Name	Contact	If part time days/hours that are worked	
Andrew Finch	SOUD1292	Health, Safety and Welfare for Construction and the Built Environment	andrewfinch@southdevon.ac.uk	Full Time	
Andrew Finch	SOUD1222	Sustainable Construction and its Environmental Impact	andrewfinch@southdevon.ac.uk	Full Time	
Andrew Finch	SOUD1526	Introduction to Commercial management	andrewfinch@southdevon.ac.uk	Full Time	
Rob Smith	SOUD1293	Applied Mathematics for Construction and the Built Environment	robsmith@southdevon.ac.uk	Full Time	
Andrew Finch	SOUD1225	Design Principles and Application	benbryant@southdevon.ac.uk	Full Time	
Andrew Finch	SOUD1226	Conversion and Adaption of Buildings	andrewfinch@southdevon.ac.uk	Full Time	
Ben Bryant	SOUD1243	Building Management Systems	benbryant@southdevon.ac.uk	Full Time	
Andrew Finch	SOUD1372	Setting out for Construction Engineers	andrewfinch@southdevon.ac.uk	Full Time	

Level 5				
Module Leader	Modules	Module Name	Contact	If part time days/hours that are worked
Andrew Finch	SOUD2171	Contract Law and Procedures	andrewfinch@southdevon.ac.uk	Full Time
Andrew Finch	SOUD2172	Construction Project Management	andrewfinch@southdevon.ac.uk	Full Time
Andrew Finch	SOUD2173	Construction Technology and Material Application	andrewfinch@southdevon.ac.uk	Full Time
Andrew Finch	SOUD2174	Financial Management and Economics	andrewfinch@southdevon.ac.uk	Full Time
Andrew Finch	SOUD2175	Renewable Energy Technologies	andrewfinch@southdevon.ac.uk	Full Time
Ben Bryant	SOUD2318	Work Based Research Project	benbryant@southdevon.ac.uk	Full Time
Andrew Finch	SOUD2189	Energy Utilisation and Efficiency within Sustainable Construction	andrewfinch@southdevon.ac.uk	Full Time
Matt Prowse	SOUD2319	Surveying for Construction Engineers	matthewprowse@southdevon.ac.uk	Full Time
	-	Le	evel 4/ 5	Year of Delivery
Andrew Finch	SOUD1292	Health, Safety and Welfare for Construction and the Built Environment	andrewfinch@southdevon.ac.uk	1
Ben Bryant	SOUD1222	Sustainable Construction and its Environmental Impact	benbryant@southdevon.ac.uk	1
Andrew Finch	SOUD1526	Introduction to Commercial management	andrewfinch@southdevon.ac.uk	1

Rob Smith	SOUD1293	Applied Mathematics for Construction and the Built Environment	robsmith@southdevon.ac.uk	1
Ben Bryant	SOUD1225	Design Principles and Application	benbryant@southdevon.ac.uk	2
Andrew Finch	SOUD1226	Conversion and Adaption of Buildings	andrewfinch@southdevon.ac.uk	2
Andrew Finch	SOUD1243	Building Management Systems	andrewfinch@southdevon.ac.uk	2
Matt Prowse	SOUD1372	Setting out for Construction Engineers	matthewprowse@southdevon.ac.uk	2
Andrew Finch	SOUD2171	Contract Law and Procedures	andrewfinch@southdevon.ac.uk	2
Andrew Finch	SOUD2172	Construction Project Management	andrewfinch@southdevon.ac.uk	2
Andrew Finch	SOUD2173	Construction Technology and Material Application	andrewfinch@southdevon.ac.uk	3
Andrew Finch	SOUD2174	Financial Management and Economics	andrewfinch@southdevon.ac.uk	3
Andrew Finch	SOUD2175	Renewable Energy Technologies	andrewfinch@southdevon.ac.uk	3
Ben Bryant	SOUD2318	Work Based Research Project	benbryant@southdevon.ac.uk	3
Andrew Finch	SOUD2189	Energy Utilisation and Efficiency within Sustainable Construction	andrewfinch@southdevon.ac.uk	3
Matt Prowse	SOUD2319	Surveying for Construction Engineers	matthewprowse@southdevon.ac.uk	3

Total Credits at Level 4 = 120 Total Credits at Level 5 = 120 FdSc Total Credits = 240 **Programme Structure for the** HNC in Sustainable Construction and The Built Environment

Total Credits at Level 4 = 120 = HNC

Year: 2022/23 Example Course Code: 5064 Indicative Part -Time Mode of Study 2 years HNC Programme Structure for the HNC in Sustainable Construction and The Built Environment

Level 4 (Year 1) 60 Credits							
Module Code	Module Title	No. of Credits	Semester	Core / Optional			
SOUD1292	Health Safety and Welfare for Construction and the Built Environment	20	All Year	Core			
SOUD1222	Sustainable Construction and its Environmental Impact	20	All Year	Core			
SOUD1526	Introduction to Commercial management	20	All Year	Core			
Level 4 (Year 2) 60 Credits							
SOUD1293	Applied Mathematics for Construction and the Built Environment	20	All Year	Core			
SOUD1225	Design Principles and Application	20	All Year	Core			
SOUD1226	Conversion and Adaption of Buildings	20	All Year	Optional			
SOUD1372	Setting Out for Construction Engineers	20	All Year	Optional			
SOUD1243	Building Management Systems	20	All Year	Optional			

*choice of one optional module Total Credits at Level 4 = 120 = HNC

1.7 Preparing for your programme

At UCSD, we understand that degree level study is a big step up from previous studies. To help prepare you for the degree we recommend engaging with preparatory activities. Each year UCSD organise Stepping up to HE workshops, with a focus on supporting you to develop your research and writing skills, alongside academic techniques.

For more information on the workshops and resources available, please visit our website: <u>https://www.ucsd.ac.uk/the-first-year-at-university/</u>.

The Student Support Hub is available throughout the duration of your programme and offers a range of services, acting as a first port of call for academic, study, wellbeing, disability, fees/funding, employability and progression support. When progressing to the next level of study of your higher education, there are also workshops and activities available to support you with progressing your graduate skills.

Preparatory reading is a great way to develop your knowledge and skills to be ready for the next level of study in higher education. Please see below some recommended reading to undertake prior to the start of your course:

Preparatory activities and reading

At UCSD, we understand that degree level study is a big step up from previous studies. To help prepare you for the degree we recommend engaging with preparatory activities. Each year UCSD organise step up to HE workshops, with a focus on supporting you to develop your research and writing skills, alongside academic techniques. For more information on the workshops and resources available, please visit our website: <u>https://www.ucsd.ac.uk/the-first-year-at-university/</u>.

The Student Support Hub is available throughout the duration of your programme and offers a range of services, acting as a first port of call for academic, study, wellbeing, disability, fees/funding, employability and progression support. When progressing to the next level of study of your higher education, there are also workshops and activities available to support you with progressing your graduate skills.

Preparatory reading is a great way to develop your knowledge and skills to be ready for the next level of study in higher education. Please see below some recommended reading to undertake prior to the start of your course:

Preparatory Reading

- Recommended books/ebooks:
- Applied Mathematics: Stroud, K.A. and Dexter J. Booth (2009) Foundation Mathematics. Oxford: Palgrave Macmillan.
- Sustainable Civil Engineering Technology and Site Operations: Chudley, R. and Greeno, R. (2012) Advanced Construction Technology. 5th ed. New York, USA: Prentice Hall.
- Sustainable Construction and Environmental Impact: Halliday,S. (2008) Sustainable construction. Oxford: Butterworth Heinemann.

1.8 Curriculum design principles

Programme Rationale (summary)

The design of this programme has been influenced by input from the Construction industry with considerable experience from our industry experienced lecturers.

Current Degree Apprenticeship standards released in this sector show that learners should be evidencing knowledge in Project Management, Materials, Commercial, Manufacturing, CAD, Practical, Analytical, Business, Lean and Problem-solving skills and demonstrate professional practice. These key elements are embedded within this programme.

Students who progress from the FdSc programme will develop skills in adopting a systems approach to multidiscipline issues and, through extensive practical and group work, will understand how to apply core knowledge to more advanced and complex industrial challenges how these can be solved. Students will explore and experience the entire lifecycle of a construction engineering product – from concept and design to material selection, project managing and development strategies.

This engineering programme is aimed at aspiring Engineering technicans (EngTech) to Incorporated Engineers (IEng) to support work-based opportunities.

This programme provided essential underpinning mathematical, scientific, and sustainable construction knowledge and understanding required by aspiring Engineers and industries wishing to up-skill their existing workforce.

Context

The degree programme has been designed alongside employers in order to ensure that on successful completion all graduates display knowledge and skills which allow them to enhance and further their practice. Input has been taken from current and past progressing full-time learners on engineering courses to ensure that the program has content that will allow learners to study a subject which is becoming a focus of the industrial sectors. The Section has strong links with a range of employers and continuing employer liaison will be possible throughout the programme.

Content

The programme has a strong academic focus, providing ample opportunity for knowledge gained to be strengthened with civil engineering research based activities.

At Level 5, students on the FdSc programmes will study core engineering modules that will establish higher education levels of engineering knowledge, understanding and skill and some that are specific to their chosen programme. All of the modules at Level 5, whether they are core or specific are designed to allow the student to develop knowledge, understanding and skill that is focused towards their programme.

Teaching and Learning Strategy

In 2017, UCSD was awarded 'Gold', the highest level possible, by the Teaching Excellence Framework, which recognises outstanding teaching within our university-level curriculum.

Lectures, seminars, tutorials, practical's, guest speakers and workplace visits will be designed to facilitate students understanding and application of the causality of engineering theory and practice. Students will be supported in their studies with a personal tutor programme and access to the Higher Education study support services provided by the University Centre South Devon.

Formative learning, draft and summative assessments and feedback will support students to achieve the programme and module outcomes. In accordance with the College Teaching and Learning framework, informal assessment and feedback will also be used within all scheduled teaching and learning activities. Students will be encouraged to provide regular feedback on their learning experience using both informal and College wide planned feedback mechanisms.

Students will be supported at all stages of their studies to connect and engage with local companies and thus remain focused on developing the knowledge, understanding and skill that will support employability.

There are two proposed modes of delivery for this programme, full and part-time delivery. Regardless of the mode of study, all students will have a personal tutor with scheduled and additional time available for tutorial support.

Scheduled Activities	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lectures	Lectures will be used to introduce the key concepts and issues using interactive teaching and learning methods. Dedicated lectures are also used to brief students on the two assignments.
Seminars	Seminars will be used to provide the opportunity for students to engage in deeper discussion and exploration of a particular topic following a lecture
Tutorials	Dedicated tutorials are used for workshops on the assignments, including the provision of formative feedback.
Laboratory Work	To develop practical skill, students will take part in laboratory sessions. The laboratory they use will depend on the programme that they are studying.
Guided independent study	Students are provided with a comprehensive reading list and other resources via the VLE to support independent learning

Modes of delivery will include:

Students can access their timetables on OnTrack and SDConnect. Notification of amendments will be issued via Moodle/email/MS Teams.

Resources

You will be provided with a reading list in your Module Guide.

You will have access to the following across our campuses:

- 1,200 computers
- 25,000 books
- Campus-wide wireless network
- A comprehensive catalogue of e-books, journals, newspapers and electronic resources
- A virtual learning portal
- A student email address

The new and innovative £17 million Hi Tech & Digital Centre provides a visionary facility for higher education, towards ever-expanding hi tech, manufacturing, digital and creative sectors across Torbay, South Devon and wider regions. Many of your teaching will take place in the Hi Tech and Digital Centre which has specialist facilities including:

- Manufacturing, 3D printing and precision machining workshops.
- Materials testing suite.
- Programming logical controls (PLC) and electrical suite.
- Computer-aided design (CAD) suite.

1.9 Knowledge, skills and behaviours developed on the programme

By the end of the programme the student will be able to demonstrate knowledge and understanding of:

• The nature and structure of organisations that work within the multi-faceted construction industry.

• Key concepts, theories and principles relevant to sustainable construction and the built environment.

- Global, national and regional Industry relevant issues and why they are important.
- Recognise and apply all relevant aspects of professional management methods.
- Within the context of regulatory requirements, the needs of society and ethical correctness.
- Regulatory bodies, legislation and best working practices.

• ICT applications appropriate to the planning, design and management of sustainable construction projects.

• Presenting original ideas and reflections via a range of methods to convey appropriate standards of literacy and the use of numeric data.

• Industry roles, responsibilities, working and contractual interactions and relationships in a professional context.

1.10 Assessment and feedback strategy

Assessment of your learning is an essential part of attaining your qualification. Your assessments will be design in accordance with the UCSD Assessment Policy <u>https://www.ucsd.ac.uk/student-life/essential-information/academic-regulations-and-procedures-and-policies/</u> and the assessment guidance on the UCSD website <u>https://www.ucsd.ac.uk/student-life/support/assessment-guidance/</u>

Your module leaders will support you to develop the skills to succeed in your assessments. But you can also use the self-directed guidance on https://www.ucsd.ac.uk/student-life/support/assessment-guidance/ and receive one-to-one support from the HE Study team by contacting Https://www.ucsd.ac.uk/student-life/support/assessment-guidance/ and receive one-to-one support from the HE Study team by contacting Https://www.ucsd.ac.uk/student-life/support/assessment-guidance/ and receive one-to-one support from the HE Study team by contacting HE Study team by contacting HE study@southdevon.ac.uk

Your assessment timetable will be available on Moodle at the start of your course.

Assessment of your learning is an essential part of attaining your qualification. Your assessments will be design in accordance with the UCSD Assessment Policy <u>https://www.ucsd.ac.uk/student-life/essential-information/academic-regulations-and-procedures-and-policies/</u> and the assessment guidance on the UCSD website <u>https://www.ucsd.ac.uk/student-life/support/assessment-guidance/</u>

Your module leaders will support you to develop the skills to succeed in your assessments. But you can also use the self-directed guidance on <u>https://www.ucsd.ac.uk/student-life/support/assessment-guidance/</u> and receive one-to-one support from the HE Study team by contacting <u>HEstudy@southdevon.ac.uk</u>

Your assessment timetable will be available on Moodle at the start of your course.

Assessments are design to enable students to meet the learning outcomes of modules. Assessment of learning outcomes is guided by the University of Plymouth and UCSD assessment policies and affords students the opportunity to undertake a range of different summative tasks including written reports, practical activity and facilitation of workshops, design of promotional material, critical reviews, presentations, tests, literature reviews and research reports throughout their programme of study. All modules require an overall pass mark of 40%. Assessment briefs are published as part of the module guides ahead of the commencement of module teaching. Each assessment brief outlines how students can meet the learning outcomes through the assessment task, including a breakdown of what is expected, the marking criteria for the assessment task and the generic grading criteria.

There is a diverse mix of assessment methods which ensure that specific students are not disadvantaged by specific forms of assessment, varying assessment activities has also helped develop a broader range of personal and employability skills. Student engagement is improved by using real life contexts in assessments which include case studies and/or linking to local industry to solve a problem. Staff will provide exemplar assessments, where appropriate, that allow students to visualise what the task is and independently or under direction to practise equivalent assessment tasks in advance of 'the real thing' and/or utilise these as formative tasks and discuss openly in taught sessions.

A range of formative learning activities are included throughout the learning materials to enable students to assess their progress, areas of strength and further development needs. Draft submissions and tutorials are planned into the scheme of learning to discuss assessments in a full and detailed approach. Students typically receive written feedback on their draft submission, verbal feedback during their draft tutorial, and generic feedback of common themes identified during the draft tutorial period.

Summative coursework submissions are via Turnitin. This allows students the opportunity to submit their assessment and receive similarity report feedback, thereby enabling them to develop the integrity of their academic writing for final summative submission. Students are offered a range of practical assessment modes, potentially including the development of promotional materials and workshop resources. Practical assessments are marked in the moment, but a Turnitin submission of a reference list or presentation slides enables all feedback to be given via Turnitin for a consistent assessment feedback experience.

A variety of assessment types will be utilised in both formative learning and summative assessments. Graduates are expected to have interpersonal, leadership, and analytical skills, alongside basic business acumen, problem-solving ability, and a depth of specific subject knowledge and practical experience.

The range of formative learning and summative assessment methods to be used will address the needs of students, employers, professional bodies, and progression programmes. Actual assessment methods will vary by module content and purpose but are designed to cover the stated needs above.

All assessment briefs are internally moderated and available to External Examiners before they are distributed to students, and all assessment marking is internally moderated in line with the UCSD policy before summative feedback is released to students. The annual programme monitoring alongside early/end of module reviews allow staff to monitor the success of assessment type against learning outcomes. Student involvement in programme and assessment reviews, helps monitor inclusive practice. Assessment audits enable the team to carry out and share good practice. All assessments will be subject to a rigorous moderation process both internally, and where required by University regulations, externally. Assessments will be reviewed annually through Cluster Programme Meetings with input from students via module reviews and programme level student data.

1.11 Student Support Hub

The University Centre South Devon (UCSD) is committed to an ethos of equality and inclusivity. How we will support you is set out in the Student Development Policy, available on the UCSD website <u>https://www.ucsd.ac.uk/student-life/essential-information/academic-regulations-and-policies/</u> By becoming a UCSD student you enter a partnership with us, committing yourself to positively engaging and actively taking part in scheduled learning activities, self-directed learning and alerting your teaching team and/or the Student Support Hub to any additional needs you have. In return we commit to support you to achieve your potential. This relationship is set out in our Student Charter <u>https://www.ucsd.ac.uk/student-life/essential-</u> information/academic-regulations-and-procedures-and-policies/

The UCSD Student Support Hub <u>https://www.ucsd.ac.uk/student-life/support/</u> is based on the ground floor of the University Centre. Many students think that the Support Hub is only for when they have exhausted all other avenues of support. But we encourage you to seek us out as soon as you think that you are struggling, because it is much easier to solve issues when they emerge. Also, students may feel that they are expected or should be able to manage any difficulty, but it is better to contact us to discuss what we can support, rather than make that decision yourself. Therefore, all students are encouraged to contact the Hub team early in their student journey, the service is available year-round except for closure days (normally around Christmas, so that you can be supported to thrive:

HE Study Team

The HE Study Team's role is to support you to develop your study and academic skills. You may have just progressed from a Level 3 course such as A' Levels, Access to HE, BTEC, or a Level 3 Diploma, or not have studied for many years, but everyone will find the step up to Higher Education learning a challenge and for some it will be more challenging we are here to support everyone. The team are here to support you to enjoy and make the most of your academic studies, that includes students who are doing well and want to do better and those for whom learning is more challenging. There is a wealth of resources on the UCSD website https://www.ucsd.ac.uk/student-life/support/study-skills/ and you can book one-to-one sessions by emailing HEstudy@southdevon.ac.uk

• HE Disability Team

If you have a disability or difficulty, whether that is physical, mental health or a learning difficulty, rest assured you will receive the support and assistance you need to study. You can contact us even if you are unsure that you might have a disability or difficulty as we are happy to have a chat about how you feel. Our team will guide and assist you from the initial enquiry, through the application and assessment process, and signpost you to additional resources and services where required. Find out more information on our website https://www.ucsd.ac.uk/student-life/support/disability-support/ or visit the Government's website about Disabled Students' Allowance https://www.gov.uk/disabled-students-allowance-dsa If you are an apprentice student, you are entitled to the same support, but the application process is slightly different. The earlier you contact the team, the quicker the support can be in place, please contact HEdisability@southdevon.ac.uk

• HE Wellbeing Team

The Wellbeing team can provide support to students experiencing wellbeing challenges that impact on their studies we understand that studies can face many difficulties so, don't be afraid to speak to us. The team offers urgent and regular support to help you adjust to and manage student life, stay positive and motivated, encourage you to continue with your studies, and manage the unexpected. Students who have mental health difficulties can apply for disability support to provide regular and specialist support. For more information see https://www.ucsd.ac.uk/student-life/support/wellbeing-support/ or contact https://www.ucsd.ac.uk/student-life/support/wellbeing-support/ or contact https://www.ucsd.ac.uk/student-life/support//wellbeing-support/ or contact

• HE Employability

The Employability team are available to support you as your career plans develop. They can offer placement opportunities and help you to find appropriate work while you are studying. You can discuss your ideas, gain support researching opportunities, have feedback on your CV, personal statement or job application, and practice your interview skills. For more information see https://www.ucsd.ac.uk/employability-and-next-steps/ or contact HEemploy@southdevon.ac.uk

Before you start your programme, you should engage with the Stepping up to Higher Education resources on our website <u>https://www.ucsd.ac.uk/stepping-up-to-higher-education/</u> and attend the workshops held by the HE Study team as these provide a detailed and useful introduction to your new academic life. There will also be a course induction by the programme team a week before teaching starts.

UCSD encourages all students to actively engage with their tutor and the HE Student Support Hub to access study skills, wellbeing, disability, and employability support throughout their studies. Make the most of the support available to you, so that you can gain the best degree.

1.12 Preparation for Employment, further academic study and personal development

Preparation for employment and personal development are central to the programme. It is delivered as part of the module teaching and assessment, weekly tutorial, employability and enrichment activities, and UCSD opportunities. As much as practicable, these activities will be organised to enable students to work with students from across the University Centre, widening their social and professional network, and fostering a sense of belonging to UCSD and the University of Plymouth.

Module teaching and assessments contextualise professional, personal and employability development throughout the schemes of learning. The Engineering project with integrated research skills module with work-related research will enable students to work with local employers on real-life research projects, enabling them to focus their experimental design on a particular area of interest and use to an organisation. Students studying this programme as a full-time or stand-alone qualification will benefit from the links made with apprenticeship students.

The employability of graduates is a significant driving force in the design of this programme cluster. Modules will develop skills in areas that employers have identified, as necessary. Strong partnerships with employers will also provide visits and guest lectures to advance the student experience.

Students utilising this programme as the technical qualification for a Higher Apprenticeship Standard or as the technical qualification in the Degree Apprenticeship Standard will benefit from a dedicated industry mentor to help develop the skills set out as essential by the employers in the working groups. It is also hoped that the programme has been designed robustly enough to ensure it can be used as a gateway or APL (Accreditation of Prior Learning) qualification for the Degree Apprenticeship standard once these are in place.

Work-based learning (WBL) and engagement with employers is central to the programme concept, and this is supported through sector focus groups, information leaflets and guidance. Engagement with employers will allow students to manage any work commitments alongside learning. This ongoing relationship with the industry supports the knowledge and consideration of student workloads regarding the assessment calendar. This will allow students who are already in a professional placement to consolidate and further develop essential skills whilst supporting others to achieve these practice-based skills on a Work-Based Learning basis in preparation for employment.

Students studying this programme as the technical qualification tied to the Higher Apprenticeship in Civil Engineering benefit from support from in-work mentors and dedicated workplace training officers who can help ensure consolidation and skills development.

Weekly tutorials take place following the UCSD Tutorial Curriculum for students, with a focus on academic skills, personal development and employability. All students have a personal tutor who leads weekly tutorials, supports the pastoral and academic development of students one-to-one, and facilitates employability and enrichment opportunities. The personal tutor and teaching team will deliver a package of employability and enrichment activities for students. This may include exchange visits to different students' workplace settings; guest speakers; local, national and/or international visits to explore module and/or employability relevant sites; research dissemination

opportunities; vocational training courses, e.g. workshop and laboratory skills, CAD technical certificates, electronics training; and acting as an advocate for the programme at open events, with employers or with students on other levels of study. As much as possible these activities will be co-ordinated to enable students to work with their peers from other UCSD or UoP courses.

Transferring between programmes can only be explored if the student has completed the correct sequence of modules, otherwise transferring may require modules to be undertaken at a lower or equal level.

UCSD also organises a range of professional development and employability opportunities that students can engage in. These include CV writing or personal statement writing workshops or one-to-one support; advance academic skills support; contributing to UCSD as a Student Rep or Ambassador; support with wellbeing or disabilities needs; and exploration of local and national employment and study opportunities.

1.13 UCSD Enterprise and Employability Framework Mapping

The UCSD Enterprise and Employability Framework sets out employability criteria that every UCSD graduate should achieve. Evidence here activity within the programme, or signpost to further support, that matches each of the criteria:

FEHQ level: 5						
Employability Criteria	Definition	Programme Aims and Intended LOs	Module Aims and LOs	Assessment	Extra activity (i.e. trips)	Other UCSD areas of activity
				-		
Job-specific skills	Students demonstrate the specialist and technical knowledge and skills needed by employers (in the sector) locally and nationally.			SOUD1538 Report, Presentation	Student trip to local and national employers related to modules	UCSD HE Study Skills support
General skills (aka. Transferable skills, 'soft' skills)	Students demonstrate the general knowledge, behaviours, and skills needed by every employer and workplace.			SOUD1538 Report, Presentation	Employer based projects and briefs, liaising with employers and customers	Engagement in UCSD Student Voice activities
Digital skills	Students demonstrate the essential digital knowledge, behaviours, and skills needed by employers.			SOUD1538 Presentation SOUD1541 Report	Student trip to local and national employers related to modules	Accessing SDC VLE, LRC etc Email and Teams
Practice and Experience	Students apply their knowledge and skills to specific career-relevant situations, and within career- relevant contexts.			SOUD1538 Presentation SOUD1536: Report	Student trip to local and national employers related to modules	SDC & UCSD Career Events
Careers Guidance	Students explore their knowledge, skills, and behaviours, in terms of their future, employment, and chosen career areas.			SOUD1538 Presentation	Guest speakers from module related employer base	UCSD Employability Support Personal Tutor Support

Enterprise	Students create ideas, set within practical situations, which lead to cultural, social or economic value. This can, but does not have to, lead to venture creation.			SOUD1538 Report, Presentation	Employer based projects and briefs, liaising with employers and customers	
Personal Development	Students reflect on their identities, qualities, and values to better understand themselves, from which to make informed choices about future employment.			SOUD1538 Presentation	Personal tutorial programme	UCSD HE Study Skills Support Personal Tutor support
Professional Behaviours	Students display the professional behaviours required of best practice and suitable for general employment.			SOUD1538 Presentation	Encouraged throughout the programme and module delivery	Engagement with Personal Tutor and Programme Staff
Networking	Students have opportunities to grow and utilise personal networks of support for a wide range of career- and industry-related activities.			SOUD1538 Presentation	Student trip to local and national employers related to modules	Linkedin
Further information: Extra employability is a vital part of the learning journey of all UCSD students and is integrated throughout the programme at FHEQ Level 6. As detailed in the UCSD Enterprise and Employability Framework, UCSD students develop their employability across nine criteria. This section highlights any other areas of activity, signposting, or links to industry and employer standards. Extra employability related act be recordened to the programme at FHEQ Level 6. As detailed in the UCSD Enterprise and Employability Framework, UCSD students develop their employability across nine criteria. This section Activity Formation and employer standards.					Extra employability- related activity will be recorded on the Employability Activity Form.	

1.14 Student engagement in ongoing programme development

UCSD sees students as partners in their academic process, we actively seek and respond to your feedback at several points within the year. You and your course peers will elect a Student Representative to represent your views at Student Consultative Forum three times a year. The Lead Student Rep, elected by the whole student body also acts as a Student Governor in South Devon College's governance structures to represent your views. Students are also asked to give early and end of module review feedback to improve module delivery, and surveys about their student satisfaction once a year. In addition, students can always discuss any concerns or areas of good practice with their personal tutor.

Below, we outline the recent feedback that has been received from students and how we have developed the programme in response to that feedback.

You said:	We did:
Early Module Reviews 2021:	Early Module Review Feedback 2021:
More team building activities during tutorial. Assistance needed getting in to Sage and other journal sites. More 1-2-1's wanted.	Regular 1-2-1's will be scheduled in accordance with the module delivery and tutorial. Trip organised to Southampton to see employers and increase team building in the group. Programme support team will continue to support learners where required with accessing online journals Module specific delivery will look at more focused team collaboration and increase learner engagement as a team, this can include activities which can be used during a tutorial session.

1.15 Applicable Regulations, Policy and Procedures

This is not a definitive list, the UCSD Student Handbook can provide more information <u>Student</u> <u>Handbook | University Centre South Devon (ucsd.ac.uk)</u>

Policy/Procedure/R egulation	Provision	Comments
Regulations		
Terms and Conditions	<u>UCSD</u>	

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Fee Policy	UCSD	
Admission Policy	UCSD	
Academic Complaints Policy	UCSD	
Service Complaints Policy	<u>UCSD</u>	
Code of Conduct and Disciplinary Policy	<u>UCSD</u>	
Fitness to Study/Study and Wellbeing Review Policy	<u>UCSD</u>	
Academic Offences Policy		
Extenuating Circumstances Policy	UCSD	
Academic Appeals		
Assessment Policy	UCSD	

2 Programme Specification

On the following pages you will find the specification for your programme; this provides a detailed overview of the programme as a whole. It explains what you will learn and how you will be assessed throughout the two stages of your Foundation Degree. The Programme Learning Outcomes Map specifies the knowledge and skills you will develop at each stage of your Foundation Degree.

2.1 **Programme Specification**

Awarding Institution: Teaching Institution: Accrediting Body: Final Award: Intermediate Awards: Programme Title:	University of Plymouth South Devon College Chartered Institute of Building <i>FdSc</i> Certificate of Higher Education (CertHE) Sustainable Construction and the Built Environment
UCAS Code: JACS Code: Benchmarks:	S32 K290 QAA FDQB Foundation Degree Qualification Benchmark (2010), QAA Subject Benchmark Statement Construction and Property Surveying (2008)
Date of Approval:	April 2012

2.2 Admissions Criteria

Qualification(s) Required for Entry to the FdSc	Comments
Candidates must have at Level 2:	
At Level 2	
Key Skills requirement/Higher Level	English
Diploma	Maths
and/or	
GCSEs required at Level 4 or above	English
	Maths

Plus at least one of the following Level 3 qualifications:

A Levels required: (College to insert	AS/A levels in related subject field 48 points
AS/A2/UCAS Points Tariff)	minimum
Advanced Level Diploma	Pass
BTEC National Certificate/Diploma	BTEC National Certificate/Diploma in a
	related subject field equating 48 UCAS
	points minimum
HNC/D	Award should be in a related subject field
	Pass or above

VDA: AGNVQ, AVCE, AVS	Award should be in a related subject field Pass or above at Level 3
Access to HE or Year 0 provision	In related subject field
International Baccalaureate	24 Points
Irish/Scottish Highers/Advanced Highers	48 points minimum from Higher Certificates
Work Experience	Relevant work experience is an advantage but not essential
Other non-standard awards or experiences	Students with non-standard qualifications may be asked to complete a written piece of work on a relevant subject and/or learning needs assessment.
APEL/APCL possibilities	Candidates are encouraged to apply if they feel they can benefit from the programme. Candidates with non-standard entry applications will be considered on the basis of relevant work experience and attainment of skills, which demonstrate an ability to study at this level. Given the wide experience of potential applicants to this course, applications for Accreditation of Prior Learning (APL) and Accreditation of Prior Experiential Learning (APEL) are welcomed in accordance with South Devon College and University of Plymouth Admissions Policy. http://www.ucas.com/students/wheretostart/ maturestudents/courses/apl
Interview/portfolio requirements	Everyone will be interviewed, and character references are required. Normally a 1000 word essay will need to be completed.
Independent Safeguarding Agency (ISA) / Criminal Record Bureau (CRB) clearance required	No

2.3 Programme Aims

Aims of the Programme:

The Foundation Degree in Sustainable Construction and the Built Environment aims to meet the following objective

- 1. Providing students with language, practical skills, development and critical thinking demanded by their multi-disciplined mode of employment and seek to make interconnections between the academic and industrial worlds.
- 2. Developing student's ability to analyse, select and use appropriate safe sustainable procedures, systems and techniques within the built environment.
- 3. Providing students with an opportunity to understand how wider market forces, government policies and economic activity influence sustainable construction and the built environment sector.
- 4. Enabling students to appraise and solve technical, economic and organisational problems through evaluating concepts, theory and hypothesis in the context of sustainable development and the built environment; and to adopt and maintain contextual currency of knowledge and information.

- 5. Encouraging students to observe, evaluate and adopt new and innovative sustainable solutions in building design, procurement and project management while responding to the problem of global climate change.
- 6. Develop the transferable skills for entry into the professional environment by the inclusion of a work-based unit and to provide a suitable basis for progression.

2.4 **Programme Intended Learning Outcomes**

Programme Intended Learning Outcomes (LO):

The FdSc Sustainable Construction and the Built Environment provides opportunities for student development and graduates will be able to:

- 1. Demonstrate knowledge of the complexity and multifaceted areas of the construction sector and the built environment.
- 2. Understand management roles and responsibilities within the construction sector.
- 3. Demonstrate knowledge in policy, legislation and best working practice pertaining to sustainable development.
- 4. Identify and explain the environmental versus economic issues relating to the study of sustainable construction.
- 5. Produce and present a written cohesive argument based on supporting evidence and to critically evaluate and reflect on individual arguments and group discussions.
- 6. Demonstrate a range of transferable skills applicable to diverse environments.

2.5 Brief Description of the Programme

The Foundation Degree in Sustainable Construction is designed to provide the knowledge and skills that are necessary to enable learners to be versatile and adaptable in progressing to and working within the multi-faceted construction industry sector. Following the QAA Foundation Degree Qualification Benchmark, which privileges the integration of academic and work-based learning, the inclusion of a dedicated work-based learning module in this programme equips and assists you to enhance your employment opportunities.

2.6 **Programme Structure and Pathways**

Academic Year: 2022/23

Programme Code: 4434 / 4576

Programme Title: HNC/ FdSc Sustainable Construction & the Built Environment

Full time

Level 4					
Module Code	Module Title	Credits	Year of Delivery*	Semester/Term of Delivery	Core/Optional
SOUD1292	Health, Safety and Welfare for Construction and the Built Environment	20	1	All Year	Core
SOUD1222	Sustainable Construction and its Environmental Impact	20	1	All Year	Core
SOUD1526	Introduction to Commercial management	20	1	All Year	Core
SOUD1293	Applied Mathematics for Construction and the Built Environment	20	1	All Year	Core
SOUD1225	Design Principles and Application	20	1	All Year	Core
SOUD1226	Conversion and Adaption of Buildings	20	1	All Year	Optional
SOUD1243	Building Management Systems	20	1	All Year	Optional
SOUD1372	Setting out for Construction Engineers	20	1	All Year	Optional

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Academic Year: 2023/24 Programme Code: 4434 Programme Title: FdSc Sustainable Construction & the Built Environment Full time

Level 5						
Module Code	Module Title	Credits	Year of Delivery*	Semester/Term of Delivery	Core/Optional	
SOUD2171	Contract Law and Procedures	20	1	Autumn	Core	
SOUD2172	Construction Project Management	20	1 All Year (Core	
SOUD2173	Construction Technology and Material Application	20	1	Spring	Core	
SOUD2174	Financial Management and Economics	20	1	Autumn	Core	
SOUD2175	Renewable Energy Technologies	20	1	Spring	Core	
SOUD2318	Work Based Research Project	20	1	All Year	Optional	
SOUD2189	Energy Utilisation and Efficiency within Sustainable Construction	20	1	Spring	Optional	
SOUD2319	Surveying for Construction Engineers	20	1	Spring	Optional	

Academic Year: 2022/23 Programme Code: 5056 / 5057 Programme Title: FdSc/HNC Sustainable Construction & the Built Environment Part time

Level 4/5					
Module Code	Module Title	Credits	Year of Delivery*	Semester/Term of Delivery	Core/Optional
SOUD1292	Health, Safety and Welfare for Construction and the Built Environment	20	1	All Year	Core
SOUD1222	Sustainable Construction and its Environmental Impact	20	1	All Year	Core
SOUD1526	Introduction to Commercial management	20	1	All Year	Core
SOUD1293	Applied Mathematics for Construction and the Built Environment	20	1	All Year	Core
SOUD1225	Design Principles and Application	20	2	All Year	Core
SOUD1226	Conversion and Adaption of Buildings	20	2	All Year	Optional
SOUD1243	Building Management Systems	20	2	All Year	Optional
SOUD1372	Setting out for Construction Engineers	20	2	All Year	Optional
SOUD2171	Contract Law and Procedures	20	2	Autumn	Core
SOUD2172	Construction Project Management	20	2	All Year	Core
SOUD2173	Construction Technology and Material Application	20	3	Spring	Core
SOUD2174	Financial Management and Economics	20	3	Autumn	Core
SOUD2175	Renewable Energy Technologies	20	3	Spring	Core
SOUD2318	Work Based Research Project	20	3	All Year	Optional

SOUD2189	Energy Utilisation and Efficiency within Sustainable Construction	20	3	Spring	Optional
SOUD2319	Surveying for Construction Engineers	20	3	Spring	Optional

Total Credits at Level 4 = 120 Total Credits at Level 5 = 120 FdSc Total Credits = 240 **Programme Structure for the** HNC in Sustainable Construction and The Built Environment

Total Credits at Level 4 = 120 = HNC

Year: 2022/23 Course Code: 5064 Indicative Part -Time Mode of Study 2 years HNC Programme Structure for the HNC in Sustainable Construction and The Built Environment

Level 4 (Year 1) 60 Credits						
Module Code	Module Title	No. of Credits	Semester	Core / Optional		
SOUD1292	Health Safety and Welfare for Construction and the Built Environment	20	All Year	Core		
SOUD1222	Sustainable Construction and its Environmental Impact	20	All Year	Core		
SOUD1526	Introduction to Commercial management	20	All Year	Core		
Level 4 (Yea	Level 4 (Year 2) 60 Credits					
SOUD1293	Applied Mathematics for Construction and the Built Environment	20	All Year	Core		
SOUD1225	Design Principles and Application	20	All Year	Core		
SOUD1226	Conversion and Adaption of Buildings	20	All Year	Optional		
SOUD1372	Setting Out for Construction Engineers	20	All Year	Optional		
SOUD1243	Building Management Systems	20	All Year	Optional		

*choice of one optional module Total Credits at Level 4 = 120 = HNC

2.7 **Progression Route(s)**

Students who successfully complete the HNC Sustainable Construction and the Built Environment may proceed to FdSc Sustainable Construction and the Built Environment. Students who successfully complete the FdSc Sustainable Construction and the Built Environment may proceed to BSc (Hons) Construction Management, level 6, at Plymouth University; the level 5 marks of students who progress to this programme will be taken into account in the final Degree classification.

Students may also progress to the BSc (Hons) Building Surveying level 5, level 5 marks from their foundation Degree would not count towards their final Degree classification.

2.8 Any Exceptions to Plymouth University Regulations

n/a

2.9 **Teaching Methods and Assessments FdSc**

A: Development of Knowledge and	Learning and Teaching
Understanding	Strategy/Method
 By the end of the programme the student will be able to demonstrate knowledge and understanding of: The nature and structure of organisations that work within the multi-faceted construction industry. Key concepts, theories and principles relevant to sustainable construction and the built environment. Global, national and regional Industry relevant issues and why they are important. Recognise and apply all relevant aspects of professional management methods. Within the context of regulatory requirements, the needs of society and ethical correctness. Regulatory bodies, legislation and best working practices. ICT applications appropriate to the planning, design and management of sustainable construction projects. Presenting original ideas and reflections via a range of methods to convey appropriate standards of literacy and the use of numeric data. 	 Primary Lectures and tutorials Directed independent study Learning from work based experience Secondary Case studies Problem-solving exercises Evaluation of "real" projects completed and live Group and individual presentations and peer assessments Site visits Practical sessions

 Industry roles, responsibilities, working and contractual interactions and relationships in a professional context. 	
NB: Benchmark References QAA Benchmark Statement Construction Property and Surveying	Assessment Key knowledge and understanding is assessed via a combination of multiple choice tests, essays, presentations and seminar performances.

B: Cognitive and Intellectual Skills	Learning and Teaching Strategy/Method
 By the end of the programme the student will be able to: Organise relevant knowledge and ideas in order to interpret, explore and solve problems contextual to sustainable construction and the built environment. Demonstrate imagination and creativity in the resolution of problems. Compare and contrast a range of methods for obtaining relevant information to explore areas of study and research. Evaluate the relevance and significance of data collected in identifying and resolving problems. Apply theory to practice in multi-disciplinary industry sectors, taking into account a range of stakeholders. Use reflection in the learning process to enhance personal development and refine professional practice. Analyse how ethical issues can be addressed within the construction industry and supportive industry. Review and critically evaluate policy, trends, proteine and theory. 	 Primary Class exercises Presentations Tutorial/seminar discussions Feedback via coursework assessment process (essays etc.) Secondary Policy and practice analysis in surgeries Computer-based practical's on data and measurement problems Work based learning reflective learning journal
NB: Benchmark References	Assessment
QAA Benchmark Statement Construction Property and Surveying	 Assessed discussions Essays/projects/dissertations Tests Coursework/group work on practical application questions

•	C: Key Transferable Skills		Learning and Teaching
	On completion of this programme, students will be		Strategy/Method
	able to:		Primary
	• Interact effectively within a group, giving and		Library and other research
	receiving information, modifying responses		exercises
	where appropriate and respecting the views of others.		 Group work awareness and practice
	Evaluate their performance, developing		Presentations
	informed criteria, and devising suitable personal development plans.		Group and individual peer assessment
	Take responsibility for their own learning,		 Computer-based learning and
	planning and managing their time effectively to		assessment
	achieve objectives and to meet deadlines.		 Tutorials and seminars
	 Organise, present and defend ideas, theories 		
	and concepts confidently in academic and		Secondary
	work related situations.		 Class and seminar
	Communicate effectively in a variety of formats		interactions and feedback
	(oral and written) and in a manner appropriate		
	to the audience/situation.		
	 Identify key elements of problems, applying appropriate methods to address them 		
	 Transfer skills and knowledge across different 		
	 Industries and work related contexts 		
	 develop appropriate research strategies 		
•	NB: Benchmark References	•	Assessment
-			Accoconon
	QAA Benchmark Statement Construction Property	•	Coursework of all types
	and Surveying	•	Examination preparation and
			completion
		•	Assessed discussions
		•	Group work assessments

•	D: Employment Related Skills By the end of the programme the student will be	• The programme has a strong vocational focus, and the theoretical understanding developed through
	 able to: Perform professional tasks, exercising personal responsibility and demonstrating a capacity to make decisions appropriate to their professional role. Identify appropriate theoretical, professional and/or research based sources and use appropriately in their professional practice. Plan and execute a variety of small scale inquiries into physiological and psychological interventions in order to improve themselves and others in their professional roles. Show awareness of ethical, equality and diversity issues in the construction industry and supporting organisations. Identify important aspects of the work-based experience and compare, contrast and critique different aspects of the experience. Articulate a reflective and effective orientation 	 understanding developed through study will be rooted into practise. Students will carry out work based learning in an appropriate work setting, this may be as paid employment or, more usually, on a voluntary basis. Assessment is linked to practice and students will be expected to use their placements as a basis for research, for practical experience and skill development and to apply theory to a real context.
	to their professional practice.	
•	E: Practical Skills By the end of the programme the student will be able to:	Learning and Teaching Strategy/Method
	 Undertake effective measurement techniques. Carry out basic setting out procedures. Use effectively the range of learning resources, including ICT, across a range of contexts. 	 Laboratory work Projects Designated tasks Lectures and tutorials Learning from work
•	NB: Benchmark References QAA Benchmark Statement Construction Property and Surveying	 Assessment Project work Competence in a range of business-related communication techniques

2.10 Teaching methods and assessments HNC

A: Development of Knowledge and	Learning and Teaching
Understanding	Strategy/Method
 By the end of the programme the student will be able to demonstrate knowledge and understanding of: The nature and structure of organisations that work within the multi-faceted construction industry. 	 Primary Lectures and tutorials Directed independent study Secondary Case studies Problem-solving exercises

 Key concepts, theories and principles relevant to sustainable construction and the built environment. Global, national and regional Industry relevant issues and why they are important. Recognise and apply all relevant aspects of professional management methods. Within the context of regulatory requirements, the needs of society and ethical correctness. Regulatory bodies, legislation and best working practices. ICT applications appropriate to the planning, design and management of sustainable construction projects. Presenting original ideas and reflections via a range of methods to convey appropriate standards of literacy and the use of numeric data. Industry roles, responsibilities, working and contractual interactions and relationships in a professional context. 	 Evaluation of "real" projects completed and live Group and individual presentations and peer assessments Site visits Practical sessions
NB: Benchmark References QAA Benchmark Statement Construction Property and Surveying	Assessment Key knowledge and understanding is assessed via a combination of multiple choice tests, tests, essays, presentations and seminar performances.

B: Cognitive and Intellectual Skills	Learning and Teaching Strategy/Method
 By the end of the programme the student will be able to: Organise relevant knowledge and ideas in order to interpret, explore and solve problems contextual to sustainable construction and the built environment. Demonstrate imagination and creativity in the resolution of problems. Compare and contrast a range of methods for obtaining relevant information to explore areas of study and research. Evaluate the relevance and significance of data collected in identifying and resolving problems. Apply theory to practice in multi-disciplinary industry sectors, taking into account a range of stakeholders. 	 Primary Class exercises Presentations Tutorial/seminar discussions Feedback via coursework assessment process (essays etc.) Secondary Policy and practice analysis in surgeries Computer-based practical's on data and measurement problems

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2
 Use reflection in the learning process to enhance personal development and refine professional practice. Analyse how ethical issues can be addressed within the construction industry and supportive industry. Review and critically evaluate policy, trends, practice and theory. 	
NB: Benchmark References	Assessment
QAA Benchmark Statement Construction Property and Surveying	 Assessed discussions Essays/projects/dissertations Tests Coursework/group work on practical application questions
, <u> </u>	· · · · · · · · · · · · · · · · · · ·
 C: Key Transferable Skills On completion of this programme, students will be able to: Interact effectively within a group, giving and receiving information, modifying responses where appropriate and respecting the views of others. Evaluate their performance, developing informed criteria, and devising suitable personal development plans. Take responsibility for their own learning, planning and managing their time effectively to achieve objectives and to meet deadlines. Organise, present and defend ideas, theories and concepts confidently in academic and work related situations. Communicate effectively in a variety of formats (oral and written) and in a manner appropriate to the audience/situation. Identify key elements of problems, applying appropriate methods to address them. Transfer skills and knowledge across different settings and work related contexts. 	 Learning and Teaching Strategy/Method Primary Library and other research exercises Group work awareness and practice Presentations Group and individual peer assessment Computer-based learning and assessment Tutorials and seminars Secondary Class and seminar interactions and feedback
develop appropriate research strategies NB: Benchmark References	• Assessment
QAA Benchmark Statement Construction Property and Surveying	 Coursework of all types Examination preparation and completion Assessed discussions

• Group work assessments

 D: Employment Related Skills By the end of the programme the student will be able to: Perform professional tasks, exercising personal responsibility and demonstrating a capacity to make decisions appropriate to their professional role. Identify appropriate theoretical, professional and/or research based sources and use appropriately in their professional practice. Plan and execute a variety of small scale inquiries into physiological and psychological interventions in order to improve themselves and others in their professional roles. Show awareness of ethical, equality and diversity issues in the construction industry and supporting organisations. 	• The programme has a strong vocational focus, and the theoretical understanding developed through study will be rooted into practise.
• E: Practical Skills By the end of the programme the student will	Learning and Teaching Strategy/Method
be able to:	otrategy/method
Undertake effective measurement	Laboratory work
techniques.	 Projects Designated tasks
 Use effectively the range of learning 	 Designated tasks Lectures and tutorials
resources, including ICT, across a range of	Learning from work
NB: Benchmark References	 Assessment
	 Project work
QAA Benchmark Statement Construction	Competence in a range of
Property and Surveying	business-related communication techniques

2.11 Distinctive Features of the Foundation Degree

2.1.1. Distinctive Features of the Foundation Degree

The programme will have access to exceptional resources by way of the development and construction of the new energy centre. Phase 1 is already complete and is central to renewable energy technologies. Phase 2 is the complete new build of a centre of excellence in the delivery of sustainable construction for the built environment. Students will benefit from access to and interacting with purpose built sustainable buildings using traditional and innovative methods and renewable energy technology. Central to this is employer and industry professionals' involvement, practical application, review and analysis and research.

Students will benefit from:

Industry employers have contributed to the design of this Foundation Degree and will continue to contribute by way of monitoring, reviewing, feedback and

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

delivery. The Degree therefore, is designed with employability at its very core and the knowledge and skills that are gained will be underpinned through work based learning.

- Students will learn alongside other learners with different entry qualifications, from diverse backgrounds and varied industry-related experience. This diverse environment is an enrichment of the learning process for all learners.
- The Degree is flexible in both its mode of delivery and its progression routes. Flexibility provides greater access for learners and employers.
- Professional accreditation with the CIOB validates the quality and industry aligned programme content and delivery.
- > Flexible progression paths to additional higher education programmes.

Partnership with Plymouth University provides access to a broad range of additional learning resources and academic and professional integration and validation.

2.12 Learning Outcomes Maps for FdSc Sustainable Construction and the Built Environment at HE Levels 4 and 5

Learning Outcomes Map			Level 4
1 Graduate Attributes and Skills	Programme Aim	Programme Learning Outcome	Related Core Modules
 Core Programme Intended Learning Outcomes Students will be able to demonstrate a knowledge of the underlying concepts and principles associated with their area(s) of study, and an ability to evaluate and interpret these within the context of that (those) area(s) of study. In particular: An awareness of the basic principles of sustainable construction and the built environment. Awareness of health and safety legislation, hazard identification and risk management within construction. Awareness of the global, national and regional environmental principles. An ability to undertake primary and secondary research. An ability to apply basic design principles and analytical methods to construction problems. 	1,2,3,4,5,6	1,2,3,4,5	SOUD1292 - Health Safety and Welfare for Construction and the Built Environment SOUD1222 - Sustainable Construction and its Environmental Impact SOUD1526 - Introduction to Commercial Management SOUD1293 - Applied Mathematics for Construction and the Built Environment SOUD1225 - Design Principles and Application SOUD1226 - Conversion and Adaption of Buildings SOUD1243 – Building Management Systems SOUD1372 – Setting Out For Construction Engineers

•	 2. Cognitive / Intellectual Skills (generic) Students will be able to demonstrate an ability to present, evaluate, and interpret qualitative and quantitative data, to develop lines of argument and make sound judgements in accordance with basic theories and concepts of their subject(s) of study. They will also be able to demonstrate the ability to evaluate the appropriateness of different approaches to solving problems related to their area(s) of study and/or work. In particular to: Reflect on own practice, in relation to working with colleagues within a construction organisation. Utilise information from primary and secondary sources. Identify key areas of the law as they affect construction related issues. Communicate principles and theories in discussion and report writing. 	1,2,5,	1,3,5,6	SOUD1526 - Introduction to Commercial Management SOUD1292 - Health Safety and Welfare for Construction and the Built Environment
•	 Key / Transferable Skills (generic) Students will be able to demonstrate an ability to communicate accurately and reliably, and with structured and coherent arguments. Students will also be able to demonstrate an ability to take different approaches to solving problems. In particular to: Interact effectively within a group, giving and receiving information, modifying responses where appropriate and respecting the views of others. Organise, present and defend ideas, theories and concepts confidently in academic and work related situations. Communicate effectively in a variety of formats (oral and written) and in a manner appropriate to the audience/situation. 	1,2,3,4	3,5,6	SOUD1526 - Introduction to Commercial Management SOUD1292 - Health Safety and Welfare for Construction and the Built Environment SOUD1293 - Applied Mathematics for Construction and the Built Environment SOUD1372 – Setting Out For Construction Engineers

•	Employment-related skills Students will be able to demonstrate an ability to undertake further training and develop new skills within a structured and managed environment and the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility. IN particular to: Perform professional tasks, exercising personal responsibility and demonstrating a capacity to make decisions appropriate to their professional role Identify appropriate theoretical, professional and/or research based sources and use appropriately in their professional practice. Plan and execute a variety of small scale inquiries into	1,2,3,4	1,2,3,5,6	SOUD1526 - Introduction to Commercial Management SOUD1292 - Health Safety and Welfare for Construction and the Built Environment
	themselves and others in their professional roles.			
2.	Practical Skills (subject specific)		100	SOUD1526 - Introduction to Commercial Management
•	Undertake basic measurement procedures and establish vertical control, record date using industry recognised methods.	1,2,4	1,2,3	Welfare for Construction and the Built Environment
•	Effective ICT use in the presentation of professional reports, graphical representation, statistical data and technical drawing.			SOUD1294 - Applied Mathematics for Construction and the Built Environment
•	First Aid at Work Training.			SOUD1294 - Applied Mathematics for Construction and the Built Environment SOUD1372 – Setting Out For Construction Engineers

Foundation Degree Intended Learning Outcomes Map	Level 5		
1 Graduate Attributes and Skills	Programme Aim	Programme Learning Outcome	Related Core Modules
Core Programme Intended Learning Outcomes			
 Knowledge/ Understanding Knowledge and critical understanding of the well-established principles of their area(s) of study, and the way in which those principles have developed; knowledge of the main methods of enquiry in their subject(s) and ability to evaluate critically the appropriateness of different approaches to solving problems in the field of study. They will also be able to demonstrate an understanding of the limits of their knowledge, and how this influences analyses and interpretations based on that knowledge. In particular: Awareness of the legal regulations and frameworks which underpin construction law. Identify and evaluate the key players within construction project management and the variety of roles they perform. Appreciation of the application of material technology in the construction industry. Determine financial policy, legislation and control associated with construction organisations and projects. Explain and critically evaluate policy and trends in environmental issues and renewable energy technologies. An ability to undertake primary and secondary research and apply transferable skills. 	1,2,3,4,5,6	1,2,3,4,5,6	SOUD2171 - Contract Law and Procedures SOUD2172 - Construction Project Management SOUD2173 - Construction Technology and Material Application SOUD2174 - Financial Management and Economics SOUD2175 - Renewable Energy Technologies SOUD2318 - Work Based Research Project SOUD2189 – Energy Utilisation & Efficiency Within Sustainable Construction SOUD2319 – Surveying For Construction Engineers

•	Cognitive / Intellectual Skills (generic) Students will be able to demonstrate an ability to apply underlying concepts and principles outside the context in which they were first studied. In particular: Use reflection in the learning process to enhance personal development and refine professional practice. Analyse how ethical issues can be addressed within construction and its supporting industries.	1,2,3,4,5,6	1,2,,4,5,6	SOUD2318 - Work Based Research Project SOUD2172 - Construction Project Management SOUD2173 - Construction Technology and Material Application
•	Key / Transferable Skills (generic) Students will be able to demonstrate an ability to evaluate critically the appropriateness of different approaches to solving problems in the field of study; use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis and effectively communicate information, arguments, and analysis, in a variety of forms, to specialist and non-specialist audiences, and deploy key techniques of the discipline effectively. In particular: Identify key elements of problems, applying appropriate methods to address them. Transfer skills and knowledge across different settings and work related contexts.	1,2,4,5,6	1,2,3,4.5,6	SOUD2173 - Construction Technology and Material Application SOUD2175 - Renewable Energy Technologies SOUD2318 - Work Based Research Project SOUD2189 – Energy Utilisation & Efficiency Within Sustainable Construction SOUD2319 – Surveying For Construction Engineers

	Employment-related skills Students will be able to demonstrate an ability to apply subject principles in an employment context possibly different from that in which they were first studied; undertake further training, develop existing skills and acquire new competencies that will enable them to assume significant responsibilities within organisations and demonstrate the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and			SOUD2318 - Work Based Research Project SOUD2171 - Contract Law and Procedures SOUD2172 - Construction Project Management
•	 decision making. In particular: Show awareness of ethical, equality and diversity issues in the construction industry organisations. Identify important aspects of the work-based experience and compare, contrast and critique different aspects of the experience. 	1,5,6	1,2,3,6	
•	Practical Skills Effective ICT use in the presentation of professional reports, graphical representation, statistical data and technical drawing.	1,2,3,5,6	1,2,3,4,5,6	SOUD2318 - Work Based Research Project SOUD2173 - Construction Technology and Material Application SOUD2189 – Energy Utilisation & Efficiency Within Sustainable Construction SOUD2319 – Surveying For Construction Engineers

2.13	Learning Outcomes	Maps for HNC Su	stainable Constructior	n and the Built Environment
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Learning Outcomes Map		L	_evel 4
1 Graduate Attributes and Skills	Programme Aim	Programme Learning Outcome	Related Core Modules
 Core Programme Intended Learning Outcomes Students will be able to demonstrate a knowledge of the underlying concepts and principles associated with their area(s) of study, and an ability to evaluate and interpret these within the context of that (those) area(s) of study. In particular: An awareness of the basic principles of sustainable construction and the built environment. Awareness of health and safety legislation, hazard identification and risk management within construction. Awareness of the global, national and regional environmental principles. An ability to undertake primary and secondary research. An ability to apply basic design principles and analytical methods to construction problems. 	1,2,4,	1,2,3,4,	SOUD1292 - Health Safety and Welfare for Construction and the Built Environment SOUD1222 - Sustainable Construction and its Environmental Impact SOUD1526 - Introduction to Commercial Management SOUD1293 - Applied Mathematics for Construction and the Built Environment SOUD1225 - Design Principles and Application SOUD1226 - Conversion and Adaption of Buildings SOUD1243 – Building Management Systems SOUD1372 – Setting Out For Construction Engineers

•	 2. Cognitive / Intellectual Skills (generic) Students will be able to demonstrate an ability to present, evaluate, and interpret qualitative and quantitative data, to develop lines of argument and make sound judgements in accordance with basic theories and concepts of their subject(s) of study. They will also be able to demonstrate the ability to evaluate the appropriateness of different approaches to solving problems related to their area(s) of study and/or work. In particular to: Reflect on own practice, in relation to working with colleagues within a construction organisation. Utilise information from primary and secondary sources. Identify key areas of the law as they affect construction related issues. 	1,2,5,	1,3,6	SOUD1526 - Introduction to Commercial Management SOUD1292 - Health Safety and Welfare for Construction and the Built Environment
•	Communicate principles and theories in discussion and report writing.			
•	 Key / Transferable Skills (generic) Students will be able to demonstrate an ability to communicate accurately and reliably, and with structured and coherent arguments. Students will also be able to demonstrate an ability to take different approaches to solving problems. In particular to: Interact effectively within a group, giving and receiving information, modifying responses where appropriate and respecting the views of others. Organise, present and defend ideas, theories and concepts confidently in academic and work related situations. Communicate effectively in a variety of formats (oral and written) and in a manner appropriate to the audience/situation. 	1,2,4	3,6	SOUD1526 - Introduction to Commercial Management SOUD1292 - Health Safety and Welfare for Construction and the Built Environment SOUD1293 - Applied Mathematics for Construction and the Built Environment SOUD1372 – Setting Out For Construction Engineers

•	Employment-related skills Students will be able to demonstrate an ability to undertake further training and develop new skills within a structured and managed environment and the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility. IN particular to: Perform professional tasks, exercising personal responsibility and demonstrating a capacity to make decisions appropriate to their professional role	1,2,4	1,2,3,6	SOUD1526 - Introduction to Commercial Management SOUD1292 - Health Safety and Welfare for Construction and the Built Environment
•	Identify appropriate theoretical, professional and/or research based sources and use appropriately in their professional practice.			
•	Plan and execute a variety of small scale inquiries into physiological and psychological interventions in order to improve themselves and others in their professional roles.			
3.	Practical Skills (subject specific)			SOUD1526 - Introduction to Commercial Management
•	Undertake basic measurement procedures and establish vertical control, record date using industry recognised methods.	1,2,4	1,2,3	SOUD1292 - Health Safety and Welfare for Construction and the Built Environment
•	Effective ICT use in the presentation of professional reports, graphical representation, statistical data and technical drawing.			SOUD1293 - Applied Mathematics for Construction and the Built Environment
•	First Aid at Work Training.			SOUD1372 – Setting Out For Construction Engineers

3. Module Records

N/A

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1292	MODULE TITLE: Health Safety and Welfare for Construction and the Built Environment

CREDITS: 20	FHEQ LEVEL:	4 JACS CODE: K290
PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes

SHORT MODULE DESCRIPTOR:

This module was designed to provide students with knowledge of current health, safety and welfare legislation applicable to the construction and built environment sector. Students will be able to identify and record hazards, assess risks and select appropriate control measures to prevent or mitigate ill health and injuries on site enabling sustainable and safe construction.

ELEMENTS OF ASSESSMENT

WRITTEN EXAMINATION		COUR	SEWORK
T1 (in-class test)	50%	C1	50%

N/A

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

Students will develop the skills needed to identify hazards, undertake risk assessments and determine what constitutes an effective Health and Safety Policy. Students will be able to:

- Demonstrate how legislation impacts upon all stages of construction
- Effectively plan, manage, monitor and review projects and work activities within the built environment by application of current legislation

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Understand the health, safety and welfare legislation to enable sustainable and safe construction.
- 2. Evaluate hazard and risk identification in design and construction and justify the need to review, revise and monitor risk assessments.
- 3. Undertake risk assessments and associated legislative documentation.
- 4. Define duties and responsibilities under legislation for given roles associated with construction projects.

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 DATE OF IMPLEMENTATION: 09/2012
 SCHOOL/PARTNER: South Devon College

 DATE(S) OF APPROVED CHANGE: N/A
 TERM: 12/AY/AU/M

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

ACADEMIC YEAR: 2022/23	NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Legislation and approved codes of practice; implications of legislation; health and safety organisational arrangements; hazard identification and risk assessment; record keeping and data collection/interpretation; reviewing, revision and monitoring of health and safety documentation and data, sustainable and safe construction.

SUMMARY OF TEACHING AND LEARNING			
Activities	Hours	Comments/Additional Information	
Scheduled activities	30	1 hours per week for 30 weeks	
Scheduled activities	10		
Directed Study	20		
Guided Independent	140	Directed weekly reading, Moodle-based tasks,	
Study		and assessment development/revision	
Total	200		

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written Exam	T1	Testing (Timed)	100%	LO1, LO4
Coursework	C1	Assignment	100%	2000 words. LO2, LO3.

Updated by: Andrew Finch	Approved by: Andrew Faulkner
Date: 28/06/2022	Date: 18/07/2022

Recommended Texts and Sources:

Howarth, T. (2009) Construction safety management. Chichester: Wiley Blackwell.
HSE (2007) Health and safety in construction. Merseyside: HSE Books.
Hughes, P. and Ferrett, E. (2007) Introduction to Health and Safety in Construction. 2nd ed.
Oxford: Elsevier Butterworth-Heinemann.
ICE (2010) ICE manual of health and safety in construction. London: Thomas Telford.
http://www.hse.gov.uk/

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD1526	MODULE TITLE: Introduction to	o Commercial Management
CREDITS: 20	FHEQ LEVEL: 4	HECOS CODE: Construction
		management 100151
PRE-REQUISITES: None	CO-REQUISITES: None	COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module is designed to provide an introduction to some of the key concepts associated with commercial management in construction. Learning about concepts such as procurement techniques, types of contract, pre-contract financial planning and work programming will help the student to develop an understanding of what is required to ensure the successful commercial management of a construction project.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions] – see <u>Definitions of Elements and</u> <u>Components of Assessment</u>				
E1 (Examination)	C1 (Coursework)	100%	P1 (Practical)	
E2 (Clinical Examination)	A1 (Generic assessment)		T1 (Test)	

SUBJECT ASSESSMENT PANEL to which module should be linked: FdSc Sustainable Construction and the Built Environment

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This module aims to provide students with an understanding of:

- The types of contracts used in construction and why they are applied in different situations.
- The different methods of successful procurement.
- The importance of pre-contract financial management and cost planning.
- The techniques used for formulating a programme of works.

ASSESSED LEARNING OUTCOMES: (additional guidance below; please refer to the Programme Specification for relevant award/ programme Learning Outcomes.

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
 Identify the different forms of contracts used in construction and explain why they are applied in different situations. 	PLO3 Demonstrate knowledge in policy, legislation and best working practice pertaining to sustainable development.
Describe the different methods of procurement and outline negotiation requirements.	PLO6 Demonstrate a range of transferable skills applicable to diverse environments.

 Explain the importance of pre-contract financial management and cost planning to the success of construction project. Evaluate the techniques used in pre-construction planning to formulate a programme of works. 		PLO4 Identify and explain the environmental versus economic issues relating to the study of sustainable construction PLO2 Understand management roles and responsibilities within the construction sector.	
DATE OF APPROVAL: 21/01/2020	FA	ACULTY/OFFICE: Academic Partnerships	
DATE OF IMPLEMENTATION: 09/2020 SC		CHOOL/PARTNER: South Devon College	
DATE(S) OF APPROVED CHANGE: xx/xx/xx	SE	EMESTER: Semester 1 & 2	
Notes:			

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. <u>Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students.</u> Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022/2023 MODULE LEADER: Andrew Finch NATIONAL COST CENTRE: 123 OTHER MODULE STAFF: Ben Bryant

Summary of Module Content

During this module students learn the requirements for a contract in meeting stakeholders' interests, determining the criteria for the selection of a contract. Students will define what constitutes a tender and the information required for this process as well as explaining the procedures and contractual arrangements for tendering. Students will learn to define standard measurement techniques used for taking-off quantities for estimating purposes. Students will also learn about the different strategies that can be used to formulate a programme of works and the importance of this aspect to the success of a construction project.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]			
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities,	
		including formative assessment opportunities)	
Scheduled activities	60	A variety of lecture based and applied learning seminar sessions to include embedded formative assessment throughout the scheme of work.	
Independent	140	Directed weekly reading , VLE activities, revision.	
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)	

SUMMATIVE ASSESSMENT

Component Name	Component Weighting
Assignment 1 – LOs 1&2 Write a technical report evaluating at least two contrasting procurement and contractual arrangements.	50%
Assignment 2 – LOs 3&4 Produce a presentation evaluating the importance of pre-contract financial management and programming of construction works	50% Total 100%
	tegoaAssignment 1 – LOs 1&2Write a technical report evaluating at least two contrasting procurement and contractual arrangements.Assignment 2 – LOs 3&4Produce a presentation evaluating the importance of pre-contract financial management and programming of construction works.

REFERRAL ASSESSMENT

Element	Component	Component
Category	Name	Weighting
Coursework	Technical Report – LO1/2/3/4 Write a technical report evaluating at least two contrasting case studies. Consider the procurement and contractual arrangements, pre-contract financial management and programming of construction works.	100%

To be completed when presented for Minor Change approval and/or annually updated				
Updated by:	Date:	Approved by:	Date:	
Andrew Finch	28/06/2022	Andrew Faulkner	18/07/2022	

MODULE CODE: SOUD1293MODULE TITLE: Applied Mathematics for
Construction and the Built Environment

CREDITS: 20	FHEQ LEVEL: 4	JACS CODE: K290

PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR:

This module was designed to provide students with an understanding of analytical techniques and the mathematical skills needed to solve construction and engineering problems. It has also been designed to enable learners to use mathematical processes to solve construction, civil engineering and building services engineering problems.

ELEMENTS OF ASSESSMENT			
WRITTEN EXAM	INATION	CC	URSEWORK
T1 (in-class test)	30%	C1	70%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This unit provides students with an opportunity to develop skills in using analytical methods and statistics to solve construction and engineering problems.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Apply analytical methods to construction problems.
- 2. Apply analytical methods to surveying and setting out procedures.
- 3. Apply statistics to construction problems.
- 4. Apply analytical methods to engineering problems.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 12/AY/AU/M

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Rob Smith OTHER MODULE STAFF:

Summary of Module Content

Indices and logarithms; transposition and evaluation formulae; fractions and percentages; formulation and manipulation of algebraic equations; graphical techniques; trigonometry; matrices; laws of motion; geometry; irregular areas and volumes; statistics; trigonometrical techniques; calculus; construction and engineering applications (setting out, surveying, costing).

SUMMARY OF TEACHING AND LEARNING				
Activities	Hours	Comments/Additional Information		
Scheduled activities	60	2 hours per week for 30 weeks		
Guided Independent	140	Directed weekly reading, Moodle-based tasks,		
Study		and assessment development/revision		
Total	200			

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Written Exam	T1	Timed Test	100%	LO1, LO2
Coursework	C1	Assignment	100%	LO3, LO4

Updated by: Andrew Finch Date: 28/06/2022

Approved by: Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

Taylor, G., Fuller, A. and Greer, A.(2004) *BTEC National Mathematics for Technicians*. 3rd ed. Cheltenham: Nelson Thornes.

Taylor, G. and Greer, A. (2005) *BTEC National Further Mathematics for Technicians*. 3rd ed. Cheltenham: Nelson Thornes.

Virdi, S.S. and Baker, R.T. (2007) *Construction Mathematics*. Oxford: Butterworth-Heinemann.

Stroud, K.A. and Dexter J. Booth (2009) *Foundation Mathematics*. Oxford: Palgrave Macmillan.

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

MODULE CODE: SOUD12	25 N	MODULE TITLE: Design Principles and Application		
CREDITS: 20	FHEQ LEVEL: 4	JACS CODE: K290		
PRE-REQUISITES: N/A	CO-REQUISITES: N/A	COMPENSATABLE: Yes		

SHORT MODULE DESCRIPTOR:

This module was designed to enable students to demonstrate an understanding of design considerations and the design process. Students will develop their ability to evaluate the planning and design phases and explore the roles and legal responsibilities of all parties involved in construction projects.

ELEMENTS OF ASSESSMENT

COURSEWORK

C1

100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This unit provides learners with the opportunity to develop an understanding of the design process and how the planning and design phases are coordinated and managed.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Understand and demonstrate the planning and design phases of the construction process.
- 2. Determine the factors that affect the specification of materials and building services.
- 3. Explain the roles and responsibilities of all parties involved in construction projects.
- 4. Identify how technology affects the design and production phases of construction projects

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 12/AY/AU/M

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF: None

Summary of Module Content

Planning phase; legislation; building regulations; design phase; client brief; intended use; project aesthetics; influence of shape, size and proportion; position; location; plant installation; effects of green, brown and reclaimed land on planning and design; financial implications of design; sources of funding; lifecycle cost planning; specification of materials and building services; sustainable construction design and environmental impact; roles and responsibilities; Positive solar design techniques; future technology design; zero carbon construction design; passivhaus; code for sustainable homes; use of computer software in design (incorporating short course on an introduction to CAD).

SUMMARY OF TEACHING AND LEARNING		
Activities	Hours	Comments/Additional Information
Scheduled activities	60	2 hours per week for 30 weeks
Guided Independent	140	Directed weekly reading, Moodle-based tasks,
Study		and assessment development/revision
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Assignment	40%	2000 words. LO1, LO4. Report on professional roles and responsibilities
Coursework		Assignment	60%	2000 words. LO2, LO3. Report and inclusion of CAD drawings.
			100%	

Updated by: Andrew Finch	Approved by: Adrian Bevin
Date: 28/06/2022	Date: 07/07/2022

Recommended Texts and Sources:

Appleby, Paul. (2011) Integrated sustainable design of buildings. London: Earthscan.

Lechner, N (2009) *Heating, Cooling, Lighting: sustainable design methods for architects.* New Jersey: John Wiley & sons.

McMullan, R. (2012) Environmental Science in Building. Basingstoke: Palgrave Macmillan.

Thomas, R. (2006) *Environmental design: an introduction for architects and engineers.* 3rd ed. London: Routledge.

Yeang, K. and Spector, A. (2011) Green design: from theory to practice. London: Black Dog.

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

MODULE CODE: SOUD1226		MODULE TITLE: Conversion and Adaption of Buildings	
CREDITS: 20	FHEQ LEVEL	:4	JACS CODE: K290
PRE-REQUISITES:	CO-REQUISITES	: C	OMPENSATABLE: Yes

SHORT MODULE DESCRIPTOR:

This module was designed to enable students to demonstrate an understanding of refurbishment and change of use of existing buildings. Learners will evaluate existing buildings in preparation for conversion and/or adaption and apply sustainable design criteria and management principles to project development.

ELEMENTS OF ASSESSMENT		
COURSE	WORK	
C1	100%	

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

N/A

MODULE AIMS:

N/A

This module enables students to appreciate the feasibility of modifying buildings for specific purposes and develop skills to undertake design and produce effective drawings, specifications and construction plans to modify buildings using design briefs.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Assess the feasibility of modifying existing buildings for specific requirements.
- 2. Evaluate design briefs to modify existing buildings.
- 3. Produce drawings and specifications to modify existing buildings for refurbishment and re-use.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 12/AY/AU/M

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Environmental requirements and considerations; sustainable retro-fits; use of internal space; economic implications; structural implications; building layout (access, structural implications, limitations of modification); code for sustainable homes; services (location, scope, limitations of modification); planning; listed building status; building regulations; disability discrimination in relation to access and fire regulations.

SUMMARY OF TEACHING AND LEARNING		
Activities	Hours	Comments/Additional Information
Scheduled activities	30	1.5 hours per week for 20 weeks
Scheduled Related Visits	5	Site Visit relating to Group Project
Directed group work	25	Supervised group work
Guided Independent Study	140	Directed weekly reading, Moodle-based tasks, and assessment development/revision
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Assignment	50%	2000 words. LO1
		Group	50%	
Coursework		Assignment & Presentation	50%	2000 words pp LO2, LO3.
			100%	

Updated by: Andrew Finch	Approved by: Andrew Faulkner
Date: 28/06/2022	Date: 18/07/2022

Recommended Texts and Sources:

Ching, F. D. K. (2009) Architectural Graphics. John Wiley & Sons Inc.
Chudley, R. (2013) Building Construction Handbook. 9th Edition. Butterworth-Heinemann.
Dickinson, P. and Thornton, N. (2004) Cracking and Building Movement. RICS Books.
Douglas, J. (2006) Building Adaptation. Butterworth-Heinemann.
Glover, P. (2013) Building Surveys 8th edition. Abingdon: Routledge.
Riley, M. and Howard, C. (2008) Construction Technology. 2nd Revised Edition. Palgrave.
Williams, A. R. (2008) Practical Guide to Alterations and Extensions. E & FN Spon.
Journals
Architects Journal – Emap
The Builder – Hanley Wood

BRE Digests and publications – BRE Construction News – Emap Websites www.architecture.com Royal Institute of British Architects www.ciat.org.uk Chartered Institute of Architectural Technologists www.greenspec.co.uk Directory of sustainable construction products www.thenbs.com National Building Services www.planningportal.gov.uk Planning and building regulations resource www.rics.org Royal Institution of Chartered Surveyors

MODULE CODE: SOUD1243	MODULE TITLE: Building Management
	Systems

CREDITS: 20 FHEQ	LEVEL: 4 JACS CODE: K290
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PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR: This module allows students to explore the characteristics of BMS installations and consider how these systems can be used to manage and control the mechanical and electrical services of buildings and promote internal environmental comfort and energy efficiency. Students will investigate the installation and operational issues, and develop the skills needed to analyse and produce designs for BMS installations, and investigate the use of BMS reports and data to inform planned preventative maintenance (PPM) strategies and optimise the performance of BMS installations. Students will determine how BMS installations contribute to the environmental and zero carbon agenda.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]

COURSEWORK

C1

100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Construction

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module enables students to develop knowledge and understanding of building management systems (BMS) in relation to the management and control requirements of buildings and to develop the capability to make effective choice and selection of BMS.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

1 Understand the management and control requirements of buildings

2 Understand the control functions of BMS hardware

3 To analyse and evaluate selection of BMS

4 Be able to use BMS reports and data to optimise the performance of BMS installations.

DATE OF APPROVAL: 14/12/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 23/09/2013	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE:	TERM:
	Autumn/Spring/Summer/other
	13/AY/AU/M

ACADEMIC YEAR: 2022/23

NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF: None

Summary of Module Content Power generation and load management; fire detection; maintenance; characteristics of BMS; environmental control requirements of buildings (heating, natural ventilation, mechanical ventilation, air conditioning); lighting control requirements; building access and building security systems; monitoring energy sources and energy consumption within buildings; financial implications of using BMS; benefits of BMS (compared to conventional control strategies); BMS installations: design; software; building and system performance reports (techniques for interrogating BMS installations); reduce energy resource demands (interpretation of BMS reports); selection of energy tariffs; monitor plant efficiency performance and life expectancy; optimisation of plant and building energy performance)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities	Hours	Comments/Additional Information		
Scheduled activities	60	2 hours/week for 30 weeks		
Scheduled Related Visits	5	Site Visit to Working System		
Guided Independent	135	Directed weekly reading, Moodle-based tasks,		
Study		and assessment development/revision		
Total	200			

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
Coursework	C1	Report Case study	50 % 50 % 100%	LO 1 & 3 scenario report LO 2, & 4 case study of BMS outcomes

Updated by : Andrew Finch Date: 28/06/2022	Approved by: Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

Chudley, R. (2013) *Building Construction Handbook.* 9th Edition. Butterworth-Heinemann. Hall, F. & Greeno, R. (2009) Building Services Handbook: Incorporating current building and construction regulations. 5th edn. Amsterdam: Elsevier/Butterworth-Heinmann

MODULE CODE:	SOUD137	2 MODULE TITLE:	Setti	ng Out for Constr	uction Engineers		
		EHEO Lovali 4			- K200		
CREDITS. 20		FILL Level. 4		JACS CODE			
PRE-REQUISI	ES: None	CO-REQUISITE	S: None	COMPENSA	TABLE: Yes		
SHORT MODU	I F DESCRIPT	OR · (max 425 ch	aracters)				
This module is	designed to	introduce studen	ts to the princ	inles procedure	s and techniques		
				ipies, procedure			
of setting out I	n relation to c	onstruction, build	ling and civil e	engineering proje	ects.		
ELEMENTS OF	ASSESSMEN	IT Use HESA KIS	definitions1				
COURS	EWORK	DRA(CTICAL		I		
C1		P1	Pass/Fall				
(Coursewor	100%	(Practic					
k)		al)					
SUBJECT ASSESSMENT BANEL Group to which module should be linked: EdSc Sustainable							
Construction or				ilouiu be illikeu.			
Construction ar	ia The Built En	vironment					
Professional body minimum pass mark requirement: NA							
MODULE AIMS:							
To enable students to identify and use setting out instrumentation, techniques and procedures and							
apply them to s	<u>et out building,</u>	construction and o	civil engineering	g projects.			
ASSESSEDIE		COMES: (addition	al quidance be	low)			
At the end of the module the learner will be expected to be able to:							
At the end of the module the learner will be expected to be able to:							
 Identity and operate effectively a range of technical instrumentation used in setting out 							
applications							
Use a range of technical instrumentation to establish horizontal and vertical control							
3. Determine the nature of errors in measurement and the need for Quality Control.							
4 To effectively use and manipulate manning software and download survey data to produce and							
	edit drawings for plotting or export to CAD packages						
	js ioi piotiing o		aunayes				
		06/0014			Academic		
DATE OF APP	NUVAL:	00/2014	FACULI		Partnerships		
					South Devon		
DATE OF IMPL	EMENTATION	: 09/2014	SCHOOL	PARTNER:	Collogo		
					College		
		Click					
DATE(S) OF A	PPROVED	here to		MESTER	All Year		
CHANGE:		enter a			All I Cal		

Additional notes (for office use only): For delivering institution's HE Operations or Academic Partnerships use if required

date.

ACADEMIC YEAR: 2022/23	NATIONAL COST CENTRE: 123
MODULE LEADER: Andrew Finch	OTHER MODULE STAFF: None

SUMMARY of MODULE CONTENT

Set up and use optical levels, laser levels, read the level staff, book and reduce levels, understand sources of error in levelling, establish temporary benchmarks, observe, record and calculate the level of existing features, set out given level values, including soffits, calculation of drainage run, set out profiles and calculate traveller lengths, Set up and use modern electronic theodolites, extract setting out data from drawings, calculate bearings and distances from coordinates for setting out, use theodolite for horizontal and vertical alignment, set up and use Total Station/EDM, calculate polar coordinates for setting out, observe, code and record an as-built survey of set out points, basic concepts of setting out of roads/railways, drainage and structures, setting out of curves, calculation of areas and volumes, the basic principles of GPS/GNSS coordinate systems, be aware of and use the different types of GPS receivers, and their applications in the construction Industry, extract coordinate data from digital drawings, transfer to total stations for setting out, then download an as-built survey to compare with the digital design data, and interface with CAD and other software.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Hours	Comments/Additional Information			
30	1 hours/week for 30 weeks			
30	1 hour/week for 30 weeks using instrumentation in			
	practical application			
140	Directed weekly reading, Moodle-based tasks, and			
	assessment development/revision			
200				
	ND LEARN Hours 30 30 140 200			

Category	Element	<i>Component</i> <i>Name</i>	Component Weighting	Comments include links to learning objectives
Coursework	C1	Portfolio	100%	LO3 LO4
Practical	P1	Competency Document	Pass/Fail	LO1 LO2

Updated by: Andrew Finch	Approved by: Andrew Faulkner
Date: 28/06/2022	Date: 18/07/2022

Recommended Texts and Sources: Uren, J. and Price, W.F. (2010) *Surveying for Engineers*. 5th edn. Palgrave Macmillan

MODULE CODE: SOUD2171	MODULE TITLE: Contract Law and
	Procedures

CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: K290
PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR:

This module was designed to enable students to develop an understanding of the national legal system, the Law of Contract and the liabilities and responsibilities of each party to a contract. Students will develop knowledge of contract administration and procurement procedures used in the construction and built environment sector.

ELEMENTS OF ASSESSMENT

COURSEWORK **C1**

100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This module aims to provide students with an opportunity to gain a knowledge and understanding of the principles and procedures of law as applied to the construction and built environment sector. This module also aims to offer students the opportunity to gain knowledge of the roles, responsibilities and activities of the parties and organisations involved in contractual procedures and the procurement of building projects.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Determine the principles and procedures of law and legislation as applied to the construction and built environment sector.
- 2. Critically assess the role, obligations and responsibilities of the employer and the contractor under construction contracts.
- 3. Develop an understanding of the factors that affect the choice of construction procurement methods and contractual arrangements.
- 4. Identify, evaluate and critically assess, key matters arising during the course of a construction contract.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 13/AY/AU/M

ACADEMIC YEAR: 2022/23	NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew FinchOTHER MODULE STAFF:

Summary of Module Content

Formation of contracts; content of contracts; express and implied terms; duress and undue influence; remedies; dispute resolution; context of construction contracts (general principles of contract law including formation and contractual capacity); types of construction contracts; standard forms of contract; obligations; time, variation, certification and payment provisions and ending a construction contract (including delay, expense, damages and practical completion).

SUMMARY OF TEACHING AND LEARNING		
Activities	Hours	Comments/Additional Information
Scheduled activities	45	1.5 hours per week for 30 weeks
Guided Independent	155	Directed weekly reading, Moodle-based tasks,
Study		and assessment development/revision
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Report	50%	LO1, LO2 Scenario Report
Coursework		Assignment		LO3, LO4 Case Study
Coursework			50%	
			100%	

Updated by: Andrew Finch	Approved by: Andrew Faulkner
Date: 28/06/2022	Date: 18/07/2022

Recommended Texts and Sources:

Furnston, MP. (2006) Cheshire, Fifoot and Furmston's Law of Contract. Butterworths.

Poole. J. (2010) *Textbook on Contract Law*. Oxford.

Poole, J. (2008) A Casebook on Contract. Blackstone.

Adriaanse (2010) *Construction contract law: the essentials.* Basingstoke: Palgrave Macmillan.

Ashworth, A. (2011) *Contractual procedures in the construction industry.* Harlow: Prentice Hall.

Ashworth, A. (2008) *Pre-contract studies: development economics, tendering and estimating.* Oxford: Blackwell.

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

Journals (available on the Plymouth portal)

Buildings, Construction, Construction & building materials, Construction bulletin, Construction Europe, Construction Innovation, Construction law and business, Construction management and economics, Construction news, Construction review, Environmental Design & Construction, International construction, Journal of construction research, The open construction & building technology journal, Building and environment, Building Design, Building Science, Energy and buildings, What's new in building, Energy for sustainable development.

SECTION A: DEFINITIVE MODULE RECORD.

MODULE CODE: SOUD217	2	MODULE TITLE: Construction Project Management
CREDITS: 20	FHEQ LEVEL: 5	5 JACS CODE: K290

PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR:

This module has been designed to prepare students for management careers in the construction industry by providing the technical knowledge, initiative, personal and management skills the industry demands.

ELEMENTS OF ASSESSMENT

COURSEWORK

C1

100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

To provide the student with an understanding of the concepts of construction project management and develop an understanding of the tools and techniques used in practice to provide value added services to clients. The module provides students with an introduction to the issues related to the management of construction clients and other project stakeholders and how their needs can be organised and delivered from design through production to occupation by other supply chain organisations within the context of client satisfaction and the overarching construction project constraints of time, cost, quality sustainability, health and safety management.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Apply management principles to a range of type and size construction projects.
- 2. Define requirements and procedures for effective project management.
- 3. Identify Project control measures and effective means of implementation.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP	
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon	
	College	
DATE(S) OF APPROVED CHANGE: N/A	TERM: 13/AY/AU/M	
ECTION B. DETAILS OF TEACHING LEARNING AND ASSESSMENT		

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Management principles; environmental and sustainable management; construction industry reports; contract management; procurement methods; tendering procedures; supply chain management; risk management; planning process; programme techniques; safety planning and implementation; controlling resources; site management.

SUMMARY OF TEACHING AND LEARNING		
Activities	Hours	Comments/Additional Information
Scheduled activities	45	1.5 hours per week for 30 weeks
Guided Independent	155	Directed weekly reading, Moodle-based tasks,
Study		and assessment development/revision
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Assignment	50%	
	C2	Assignment	5078	2000 words. LO1
Coursework			50%	2000 words. LO2, LO3.
			100%	

Updated by : Andrew Finch Date: 28/06/2022	Approved by : Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

Chartered Institute of Building (2011) Code of practice for project management for construction and development. Wiley-Blackwell.

Gould, F. (2005) *Managing the construction process: estimating, scheduling, and project control.* Upper Saddle River, N.J.: Pearson/Prentice Hall.

Levy, S. (2011) Project Management in construction. New York: McGraw Hill.

Winch, G. (2010) *Managing construction projects: an information processing approach*. 2nd edn. Ames, Iowa: Blackwell Pub.

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

Cooke, B and Williams, P. (2009) Construction planning, programming and control. Wiley-Blackwell.

Journals (available on the Plymouth portal)

Buildings, Construction, Construction & building materials, Construction bulletin, Construction Europe, Construction Innovation, Construction law and business, Construction management and economics, Construction news, Construction review, Environmental Design & Construction, International construction, Journal of construction research, The open construction & building technology journal, Building and environment, Building Design, Building Science, Energy and buildings, What's new in building, Energy for sustainable development.

and Material Application	MODULE CODE: SOUD2173	MODULE TITLE: Construction Technology
and Matchai Application		and Material Application

CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: K290

PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR:

This module has been designed to develop students understanding of the properties, structural behaviour and use of construction materials. It appraises material characteristics and examines performance criteria in association with specification, standards and legislation. It looks at the use of buildings, factors affecting human comfort and thermal performance.

ELEMENTS OF ASSESSMENT

COURSEWORK **C1**

100%

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This module aims to provide students with an understanding of the properties, structural behaviour and use of construction materials. Students will develop the skills needed to apply scientific principles and evaluate material characteristics for environmental interaction in building design. To introduce students to a range of construction materials, their manufacture, selection, environmental impact and performance and suitability. The module aims to provide students with knowledge of use of buildings, building services and factors affecting human comfort and thermal performance.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Demonstrate for a range of materials, knowledge of their source, manufacture, environmental impact and practical application in sustainable construction.
- 2. Critically evaluate the use of materials in building design both traditional and innovative and justify selection and application.
- 3. Determine the factors that affect human comfort within the built environment and apply scientific principles to the design and use of buildings.
- 4. Demonstrate knowledge of material specification with respect to standards and legislation.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 13/AY/AU/M

ACADEMIC YEAR: 2022/23

NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Climate; stages in the life of a building; life cycle analysis of sustainable impact of materials; green guide to specification; code for sustainable homes; thermal effects in buildings; energy use in buildings; air control in buildings; natural and artificial lighting; noise and sound insulation; building services; carbon and energy management; factors affecting human comfort; power heating and water; standards and legislation; construction materials; material properties and performance criteria.

SUMMARY OF TEACHING AND LEARNING				
Activities	Hours	Comments/Additional Information		
Scheduled activities	45	1.5 hours per week for 30 weeks		
Lab Based Work	5	2 Lab based exercises		
Guided Independent	150	Directed weekly reading, Moodle-based tasks,		
Study		and assessment development/revision		
Total	200			

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Assignment	60%	2000 words. LO1, LO2, LO3
	C2			
Coursework		Lab Report	40%	2000 words LO4.
			Total:	
			100%	

Updated by: Andrew Finch	Approved by: Andrew Faulkner
Date: 28/06/2022	Date: 18/07/2022

Recommended Texts and Sources:

Taylor, G.D. (2000) *Materials in Construction*. 3rd ed. Harlow: Longman.

McMullan, R (2012) Environmental Science in Building. 6th ed. New York: Palgrave.

Hall, F. and Greno, R. (2013) *Building Services Handbook*. 5th ed. Oxford: Butterworth Heinemann.

Doran, D. (2010) Construction materials reference book. Oxford: Butterworth Heinemann.
Greeno, R., Chudley, R., Topliss, S. and Hurst, M. (2012) *Construction Technology*. Oxford: Heinemann.

Illston, J.M. and Domone, P.L.J. (eds.) (2010) *Construction Materials: Their Nature and Behaviour.* 4th ed. London: Spon.

Marotta, T., Coffey, C., LaFleur-Brown, C. and LaPlante, C. (2011) *Basic construction materials*. New Jersey: Pearson.

Mehta, M. (2011) Building construction: principles, materials & systems. Boston: Pearson.

Spence, W. (2011) *Construction materials, methods and techniques: building for a sustainable future*. New York: Delmar Cengage Learning.

http://www.energysavingtrust.org.uk/ http://www.bre.co.uk/ http://www.breeam.org/

MODULE CODE: SOUD2174	MODULE TITLE: Financial Management
	and Economics

CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: K290

PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR:

This module was designed to provide students with an understanding of how the economic environment affects sustainable construction and the built environment sector. This unit has been designed to enable learners to examine, analyse and discuss the implications of economic theories on the construction and built environment sector.

ELEMENTS OF ASSESSMENT

C1

COURSEWORK

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This module provides students with an opportunity to understand how wider market forces, government policies and economic activity influence the construction and built environment sector. The module will develop student's knowledge in the preparation, analysis and implementation of business plans for small construction businesses. Students will develop an understanding of the requirements and procedures for the financial management of a construction project from feasibility studies to handover and the post-completion phase.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Demonstrate knowledge of government legislation and policies applicable to the financial management of sustainable development.
- 2. Determine the way in which cost is controlled during construction and how this relates to the valuation of work in progress.
- 3. Prepare forecasts and reconciliations of cost and value for contractors, to monitor actual physical and financial progress against planned.
- 4. Understand the effect of delay in the payment process and the impact of this on the on projects and the financing.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 13/AY/AU/M

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Government policies and legislation; urban regeneration schemes; critique of conventional economics in sustainable development; introduction to environmental economics; sustainable development; factors affecting the economics of an organisation; sources of finance, factors affecting resource allocation and price: markets; supply and demand; cost benefit analysis; planning cash flow; project control procedure; controlling time and money; controlling resources.

SUMMARY OF TEACHING AND LEARNING		
Activities	Hours	Comments/Additional Information
Scheduled activities	45	1.5 hours per week for 30 weeks
Guided Independent	155	Directed weekly reading, Moodle-based tasks,
Study		and assessment development/revision
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Assignment	-00/	LO1 LO2
Coursowork	C2	Assignment	50%	LO3 LO4
Coursework			50%	
			100%	

Updated by: Andrew Finch	Approved by: Andrew Faulkner
Date: 28/06/2022	Date: 18/07/2022

Recommended Texts and Sources:

Burtonshaw-Gunn, S.A. (2009) Risk and Financial Management in Construction. Farnham:Gower. Cooke, B and Williams, P. (2009) Construction planning, programming and control. Wiley-Blackwell. Palmer, J. Coombs, E. and Smith, A (2009) Construction Accounting and Financial Management 5th ed. Mcgraw Hill.

Atrill, P. (2003) *Financial management for non-specialists*. 3rd ed. London: Financial Times Prentice Hall. Halpin, D. (2009) *Financial management and accounting fundamentals for construction*. Wiley. Peterson, S. (2012) *Construction accounting and financial management*. 3rd ed. New Jersey: Prentice Hall. Sloman, J. (2010) *Essentials of Economics*. Harlow: Financial Times/Prentice Hall.

*e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

MODULE CODE: SOUD2175		MODULE TITLE: Renewable Energy Technologies	
CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: K290	
PRE-REQUISITES : N/A	CO-REQUISITES: N/A	COMPENSATABLE: Yes	

SHORT MODULE DESCRIPTOR:

This module was designed to develop students' knowledge of renewable energy technology systems, assessing their effectiveness and their whole life cost. Students will gain the skills to prepare system designs and assess their suitability for various sites and users.

ELEMENTS OF ASSESSMENT

100%

COURSEWORK

C1

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Building Services

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This module aims to provide students with knowledge in the areas of science, technology, policy and green political theory relevant to environmental sustainability. It aims to develop a conceptual understanding to evaluate critically current research in environmental sustainability. To provide students with the knowledge of green building techniques. Problem-solving and team-working skills relevant to the implementation renewable energy technologies and policies.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Demonstrate knowledge of sustainable and renewable energy technologies.
- 2. Critically evaluate government policy and legislation in relation to sustainable development.
- 3. Solve technical, economic, legal and organisational problems in the context of environmentally sustainable construction projects.
- 4. Critically review and evaluate renewable energy technologies and their role in current and future sustainable development.

DATE OF APPROVAL: 25/04/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 09/2012	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: 13/AY/AU/M

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Energy sources, economics and environmental impact, energy storage technologies, the role of renewables, solar thermal, solar electricity, wind-power generation, hydro, tidal and wave power, biofuels, building integrated renewables. Energy efficiency, energy savings and emission reductions, clean energy production, energy as business issue, energy efficiency in ventilation, selection criteria, industrial processes and energy use.

SUMMARY OF TEACHING AND LEARNING		
Activities	Hours	Comments/Additional Information
Scheduled activities	45	1.5 hours per week for 30 weeks
Guided Independent	155	Directed weekly reading, Moodle-based tasks,
Study		and assessment development/revision
Total	200	

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Assignment	50%	2000 words. LO1, LO2.
Coursework	C2			
		Assignment	50%	2000 words. LO3, LO4.
			100%	

Updated by: Andrew Finch Date: 07/07/2021	Approved by: Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

Hall, K. (2007) *The green building bible, Vol. 1: all you need to know about ecobuilding.* 3rd ed. Llandysul: Green Building.

Halliday, S. (2008) Sustainable construction. Oxford: Butterworth Heinemann.

HM Government (2008) *Strategy for Sustainable Construction* [online]. Available from: <u>http://webarchive.nationalarchives.gov.uk/+/http://www.bis.gov.uk/files/file46535.pdf</u> Langston, C. (2001) *Sustainable practices in the built environment.* Oxford: Butterworth Heinemann.

Mawhinney, M. (2002) *Sustainable development: understanding the green debates*. Oxford: Blackwell Science.

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

Nicholls, R. (2008) *The green building bible, Vol. 2: the low energy design technical reference*. Llandysul: Green Building.

Roaf, S. (2012) *Ecohouse: a design guide.* New York: Architectural Press.

Strong, A. (2006) Sustainable development policy directory. Oxford: Blackwell.

McMullan, R. (2012) Environmental Science in Building. Basingstoke: Palgrave Macmillan.

Thomas, R. (2006) *Environmental design: an introduction for architects and engineers.* 3rd ed. London: Routledge.

Wood, D., Chynoweth, P., Adshead, J. and Mason, J. (2011) *Law and the built environment*. 2nd ed. Chichester: Wiley Blackwell.

Zobaa, A. (2011) Handbook of renewable energy technology. Singapore: World Scientific.

MODULE CODE:	SOUD2318		MODULE TITLE:	Work Based Research Project		
CREDITS: 20		F	HEQ Level: 5		JACS CODE: K290	
PRE-REQUISITES: None C		O-REQUISITES: None		COMPENSATABLE: Yes		

SHORT MODULE DESCRIPTOR: (max 425 characters)

This module is designed to develop student's skills of independent enquiry and critical analysis by undertaking a sustained research investigation. Research projects will relate to a work based experience of direct relevance to the programme and the students' academic and professional development.

ELEMENTS OF ASSESSMENT Use HESA KIS definitions]					
COURSEWORK		PRACTICAL			
C1	100%	P1	Pass/		
(Coursewor		(Practical)	Fail		
k)		. ,			

SUBJECT ASSESSMENT PANEL Group to which module should be linked: FdSc Sustainable Construction and The Built Environment

Professional body minimum pass mark requirement: NA

MODULE AIMS:

This module aims to enable students to experience the scope and depth of learning which may take place in a work-based context by planning, monitoring and evaluating the work experience. It also aims to develop students' skills of independent enquiry and to learn about the theories, tools, resources, and ethical issues that scholars and professionals encounter on a daily basis. It aims to prepare students for professional employment by honing independent thinking and creativity, time-management and budget skills, and confidence in academic and career goals.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Demonstrate how to formulate and Implement a research project within agreed procedures and to specification and evaluate the research outcomes.
- 2. Professionally present the research outcomes.
- 3. Undertake specified work activities, record, review and evaluate outcomes.
- 4. Monitor and evaluate own performance and learning.

DATE OF APPROVAL:	04/2012	FACULTY/OFFICE:	Academic Partnerships
DATE OF IMPLEMENTATION:	09/2012	SCHOOL/PARTNER:	South Devon College
DATE(S) OF APPROVED CHANGE:	Click here to enter a date.	TERM/SEMESTER:	All Year

Additional notes (for office use only):

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

ACADEMIC YEAR: 2022/23	NATIONAL COST CENTRE: 123
MODULE LEADER: Ben Bryant	OTHER MODULE STAFF: None

SUMMARY of MODULE CONTENT

Describe self, work role and setting; carry out initial personal skills audit in relation to work role; identify priority area for improving skills; explore organisation type and context (including the wider competitive environment) and cognitive skills involved; negotiate work-based learning agreement to benefit self and work; establish learning log system; research formulation; action plan; data collection, interpretation and analysis; evaluation of outcomes; future considerations; presentation format and delivery.

SUMMARY OF TEACHING A	SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]				
Scheduled Activities Hours		Comments/Additional Information			
Scheduled activities	10	1 hour per week for 10 weeks			
Work Based Learning	160	Site based activity			
Guided Independent Study	30	Directed weekly reading, Moodle-based tasks, and			
		assessment development/revision			
Total	200				

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Coursework	C1	Research Project –	100%	2000 words. LO1, LO2.
Practical	P1	Competency Document – Reflective Learning Journal and work log	Pass/Fail	LO3, LO4.

Updated by : Andrew Finch Date: 28/06/2022	Approved by : Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

Cunningham, I. Dawes, G. and Bennett, B (2004) The Handbook of Work Based Learning. Aldershot: Gower.

Raelin, J. A. (2008) Work Based Learning-Bridging Knowledge and Action in the Workplace. San Francisco: Wiley & Sons.

Bell, J. (2010) *Doing your research project.* 5th edn. Milton Keynes: Open University Press.

Blackie, N. (2003) *Analyzing quantitative data*: *From description to explanation*. London: SAGE Publications Ltd.

^{*}e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

Davis, C. (2009) Introduction to research methods. 4th edn. U.K: How to Books Ltd

Davis, M. B. (2007) *Doing a successful research project – using qualitative or quantitative methods*. London: Palgrave Macmillan

Gray, D.E. (2004) Doing research in the real world. London: SAGE Publications Ltd.

*e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

 MODULE CODE: SOUD2189
 MODULE TITLE: Energy utilisation and efficiency within sustainable construction

CREDITS: 20	FHEQ LEVEL: 5	JACS CODE: K290	

PRE-REQUISITES:	CO-REQUISITES:	COMPENSATABLE: Yes
N/A	N/A	

SHORT MODULE DESCRIPTOR:

This module will provide students with an understanding of the environmental impact of energy utilisation in buildings and the implications of energy efficiency and sustainability. Students will evaluate how environmental and economic gains can be achieved by reducing waste and maximising energy efficiency. This module will provide students with the knowledge to determine efficient, allowable and successful holistic solutions for zero carbon developments.

ELEMENTS OF ASSESSMENT

COURSEWORK

C1

SEWORK

SUBJECT ASSESSMENT PANEL Group to which module should be linked: Construction

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module will provide students with an understanding of the environmental impact of energy utilisation in buildings and the implications of energy efficiency and sustainability. Students will evaluate how environmental and economic gains can be achieved by reducing waste and maximising energy efficiency. This module will provide students with the knowledge to determine efficient, allowable and successful holistic solutions for zero carbon developments.

ASSESSED LEARNING OUTCOMES: (additional guidance below)

At the end of the module the learner will be expected to be able to:

- 1. Evaluate the environmental impact of energy utilisation in buildings
- 2. Assess the sustainability of alternative energy sources and water supplies for buildings
- 3. Appraise the energy efficiency of the building and the building services installations
- 4. Evaluate energy audits for buildings and building services installations

DATE OF APPROVAL: 14/12/2012	FACULTY/OFFICE: AP
DATE OF IMPLEMENTATION: 23/09/2013	SCHOOL/PARTNER: South Devon
	College
DATE(S) OF APPROVED CHANGE: N/A	TERM: Autumn/Spring/Summer/other
	13/AY/AU/M

ACADEMIC YEAR: 2022/23 NATIONAL COST CENTRE: 123

MODULE LEADER: Andrew Finch OTHER MODULE STAFF:

Summary of Module Content

Global consequences of excessive energy utilisation; energy generation and distribution (principles, fundamentals, technology); role of building services engineers in meeting agreed environmental objectives; renewable energy sources; use of heating and cooling; combined heat and power (CHP) systems; alternative water supplies; appraisal and improvement of energy efficiency: orientation, design, insulation; energy audits: purpose and benefits; providing advice to building managers; use of heat recovery; energy conservation principles and techniques; appraisal and selection of high efficiency plant and equipment.

SUMMARY OF TEACHING AND LEARNING				
Activities Hours		Comments/Additional Information		
Scheduled activities	45	2 hours/week for 30 weeks		
Scheduled Related Visits	5	Passivhaus Visit		
Guided Independent	135	Directed weekly reading, Moodle-based tasks,		
Study		and assessment development/revision		
Total	200			

Category	Element	Component Name	Component weighting	Comments Include links to learning objectives
	C1	Case study	50%	LO 1 & 2
Coursework	C2	Report	50%	LO 3 & 4
			100%	

Updated by : Andrew Finch Date: 28/06/2022	Approved by : Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

http://www.energysavingtrust.org.uk/

http://www.schneider-electric.co.uk/medias/solutions/downloads/152-ee-solution-book.pdf

*e.g a foundation degree delivered full-time over two years would have all level 4 modules delivered in year 1. A foundation degree delivered part-time over 3 years would normally have 80 credits of level 4 delivered in year 1 and 40 credits delivered in year 2

(MODULE CODE:	SOUD2319	MODULE TITLE:	S	urveying For Constru	uction Engineers
	CREDITS: 20		FHEQ Level: 5		JACS CODE	: K290
	PRE-REQUISITE	ES: None	CO-REQUISITE	S: None	COMPENSA	TABLE: Yes
t	SHORT MODULE DESCRIPTOR: (max 425 characters) This module is designed to provide students with the basic knowledge and skills, principles and techniques used in the surveying of buildings, structures and land					
		ACCECCMENT		definitione	7	
		ASSESSIVIEN	USE RESA KIS		1	
	COURSE	WORK	PRACTI			
		%	P1 (Dro offic	Pass/		
	Coursewor	100	(Practic	Tall		
ł	()		al)			
	SUBJECT ASSESSMENT PANEL Group to which module should be linked: FdSc Sustainable Construction and The Built Environment					
	Drofocolonal ha					
	Professional body minimum pass mark requirement: NA					
-	MODULE AIMS: This module enables students to understand the basic theoretical principles in building and land surveying. It will also provide them with knowledge of standard techniques in surveying and practical skills in the use of surveying equipment.					
	 ASSESSED LEARNING OUTCOMES: (additional guidance below) At the end of the module the learner will be expected to be able to: 1. Define surveying and the role of the surveyor in building and civil engineering 2. Demonstrate basic building and field survey techniques 3. Proficiently operate technical instrumentation to successfully survey and record data. 4. Produce CAD drawings from mapped survey data 					
	DATE OF APPR	OVAL:	06/2014	FACUL	.TY/OFFICE:	Academic Partnerships
	DATE OF IMPLE	EMENTATION:	09/2014	SCHO	DL/PARTNER:	South Devon College
			Click			

enter a date.

here to

Additional notes (for office use only):

DATE(S) OF APPROVED

CHANGE:

TERM/SEMESTER:

All Year

ACADEMIC YEAR: 2022/23	NATIONAL COST CENTRE: 123
MODULE LEADER: Matt Prowse	OTHER MODULE STAFF: Andrew Finch

SUMMARY of MODULE CONTENT

Measured building survey techniques, CAD as a data capture, drawing and presentation of the built environment, field survey techniques and instrumentation including the use of field survey equipment, survey design, planning and observing, total stations, levels and GNSS, data collection and processing techniques, two and three dimensional data collection, data collection, processing, analysis and presentation techniques, error checking and control procedures, mapping survey data and CAD interface, calculation of cut & fill volumes, boundary marking, least squares adjustments.

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information
Scheduled activities	30	1 hours/week for 30 weeks
Scheduled Related Site Applications	30	1 hour/week for 30 weeks using instrumentation in practical application
Guided Independent Study	140	Directed weekly reading, Moodle-based tasks, and assessment development/revision
Total	200	

Category	Element	Component Name	Component Weighting	Comments include links to learning objectives
Coursework	C1	Portfolio	100%	LO1 LO4
Practical	P1	Competency Document	Pass/Fail	LO2 LO3

Updated by : Andrew Finch Date: 28/06/2022	Approved by: Andrew Faulkner Date: 18/07/2022

Recommended Texts and Sources:

Uren, J. and Price, W.F. (2010) Surveying for Engineers. 5th edn. Palgrave Macmillan