Module Descriptor

Title	Project Management		
Session	2025/26	**Status**	Published
Code	ENGG09004	**SCQF Level**	9
Credit Points	20	**ECTS (European Credit Transfer Scheme)**	10
School	**Computing, Engineering and Physical Sciences**		
Module Co-ordinator	S Tennant		

Summary of Module

This module introduces the generic concepts of project management for undergraduate students.

The Project Management module identifies the characteristics of a project and project management skill sets. Key themes include; scope of the project, identification of stakeholder needs, management of project risks and procurement routes, project planning and control, cost analysis and financial appraisal for the project feasibility, communication networks, organizational structure, the management of time, earned value analysis, benchmarking, partnering, leadership and motivational theory, quality management and continuous improvement - all required for a successful project.

The module provides students with transferable skills. This module will work to develop a number of key 'I am UWS Graduate Attributes'. Students who successfully complete this module will be knowledgeable, inquiring, problem solver, ethically minded, motivated, creative and ambitious.

Module Delivery Method	**On-Campus**[1] ☒	**Hybrid**[2] ☒	**Online**[3] ☐	**Work -Based Learning**[4] ☐
Campuses for Module Delivery	☐ Ayr ☐ Dumfries	☒ Lanarkshire ☐ London ☒ Paisley	☐ Online / Distance Learning ☐ Other (specify)	

[1] Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

[2] The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

[3] Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

[4] Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Terms for Module Delivery	Term 1	☒	Term 2	☒	Term 3	☐
Long-thin Delivery over more than one Term	Term 1 – Term 2	☐	Term 2 – Term 3	☐	Term 3 – Term 1	☐

Learning Outcomes	
L1	Define a project and its scope and determine stakeholders and task/risk ownerships
L2	Plan, control and evaluate a project using manual feasibility techniques (e.g., critical path analysis, net present value, pay back method, cost-benefit analysis) and professional project management tools (MS Project or other similar)
L3	Demonstrate an understanding of the human, motivational and organisational issues and improvement strategies of project management
L4	Demonstrate an understanding of theoretical and practical aspects of quality management and strategies for continuous improvement
L5	Identify project risks and procurement routes to manage them and assess the project performance using earned value analysis

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	**During completion of this module, there will be an opportunity to achieve core skills in:**
Knowledge and Understanding (K and U)	**SCQF 9** K&U of project scope and objectives (cost, time, quality, sustainability and safety), stakeholder needs, Work Breakdown Structure, quantitative and non- quantitative feasibility techniques, such as project return on capital, payback period and DCF techniques such as NPV, IRR and AEC. K&U of network diagrams, precedence diagrams, bar charts and cumulative resource requirements including resource scheduling and cost optimization. K&U of Project Planning Software application for planning, monitoring and control of a project. K&U of earned value analysis K&U of project risk categories. Procurement routes and their approaches to risk apportionment. K&U of project organization types, motivation theories, team working and communication. K&U of Performance Management concepts such as KPIs, re-engineering, value engineering and performance measurement.
Practice: Applied Knowledge and Understanding	**SCQF 9** As 40% of the assessment is an individual coursework of their own choice, students have an ideal platform to demonstrate the application of the K&U of the above.
Generic Cognitive skills	**SCQF 9** Ability to examine dynamic problems in the abstract and thus analyse them and obtain a planned and controlled solution.

Communication, ICT and Numeracy Skills	**SCQF 9** Communication skills honed via written reports and presentations. Computer and numeracy skills developed by means of various project management techniques.
Autonomy, Accountability and Working with Others	**SCQF 9** Develop individual and group autonomy, time management, initiative and self-learning.

Prerequisites	**Module Code**	**Module Title**
	Other	
Co-requisites	**Module Code**	**Module Title**

Learning and Teaching	
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours. Learning and teaching activities include: (1) 30 hour-lecture; (2) 6 hour-tutorial; (3) 12 hour-planning software laboratory; and (4) 152-hour independent study. Independent study components include problem-based learning, self-study and consolidation.	
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	30
Tutorial / Synchronous Support Activity	6
Laboratory / Practical Demonstration / Workshop	12
Independent Study	152
Please select	
Please select	
TOTAL	200

Indicative Resources
The following materials form essential underpinning for the module content and ultimately for the learning outcomes: VLE: Lecture and support material is contained in course notes available on the UWS virtual learning environment (VLE) platform. Software: MS-Project or similar professional Project Management tools for Assessment / Assignment Component 1 (i.e., coursework) Consultation of the under-noted resources is recommended and material from these resources may be of benefit to the student in the assessment process: Burke, R. (2013) Project Management Planning and Control Techniques, 5th Ed. John Wiley & Sons.

Lock, D. (2014) The Essentials of Project Management, 4th. Ed. Gower publishing.

Meredith, J.R., Shafer, S.M. and Mantel, S.J., (2021) Project Management: a strategic managerial approach, 10th. Ed. Wiley.

(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

The School of Computing, Engineering and Physical Sciences considers attendance and engagement to mean a commitment to attending, and engaging in timetabled sessions. Students will scan their attendance via the attendance scanners each time they are on-campus. Students will have attendance recorded in class and they will be expected to login to the VLE several times per week. Students who are unable to attend a timetabled learning session, due to illness or other circumstance, should notify their Programme Leader. Across the School an 80% attendance threshold is set. Students who fall below this, will be referred to the Student Success Team to see how they can be best supported in their studies.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code.

Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on inclusive learning and teaching practice. This module has lab-based teaching and as such students are advised to speak to the Module Co-ordinator to ensure that specialist assistive equipment, support provision and adjustment to assessment practice can be put in place, in accordance with the University's policies and regulations.

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	**Engineering Physical Sciences**
Overall Assessment Results	☐ **Pass / Fail** ☒ **Graded**
Module Eligible for Compensation	☐ **Yes** ☒ **No** **If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.**
School Assessment Board	Civil Engineering and Quality Management
Moderator	Ashwini Konanahalli
External Examiner	Yuting Chen

Accreditation Details	This module is accredited by the Joint Board of Moderators as part of BEng (Hons) Civil Engineering.
Module Appears in CPD catalogue	☒ **Yes** ☐ **No**
Changes / Version Number	2.18 AY2526 No changes in module delivery

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Assessment 1 is an extensive coursework that contributes 40% to the final mark.
Assessment 2
Assessment 2 is a 2-hour unseen closed book class test that contributes 60% to the final mark (four questions – attempt all four questions).
Assessment 3
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Dissertation/ Project report/ Thesis	☒	☒	☐	☒	☒	40	0

Component 2							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Unseen Closed Book Class Test	☒	☒	☒	☒	☒	60	2

Component 3							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
	☐	☐	☐	☐	☐		
Combined total for all components						100%	2 hours

Change Control

What	When	Who
AY2324 - AY2425 Changes – change examination assessment component from online (unseen closed book) to the following on-campus (Unseen Closed Book Class Test) / update learning activity from 36hrs. to 48hrs. to accommodate laboratory work / update module coordinator / update external examiner.	AY2425	MC