



Module Definition Form (MDF)

Module code: MOD002404	Version: 4 Date Amended: 12/Jun/2019
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1. Module Title
Production Management

2a. Module Leader
Katerina Prevelianaki

2b. School
School of Engineering and the Built Environment

2c. Faculty
Faculty of Science and Engineering

3a. Level
7

3b. Module Type
Standard (fine graded)

4a. Credits
15

4b. Study Hours
150

5. Restrictions			
Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	None		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

The construction industry is experiencing rapid and significant change in the way it operates and in the way in which it is managed. These changes require a greater and improved quality of management in the construction process that are comparable with the management of organisations and undertakings in other industries. Construction is an increasingly complex and difficult undertaking that requires a broad range of specialist management knowledge and skills; adapted and applied to the particularities of construction. The Module aims to develop the management knowledge, techniques and methods required for effective management, then seeks to apply these to the management of construction. The focus of the module is on the management of the productive resources used in construction and in the analysis and management of construction as a 'process' within a project environment. The Module uses construction management software to manage the construction process, acting as a project management information system (PMIS) to structure and interrogate the system to produce forecasts, develop what-if scenarios and alternatives; performance, resource, financial and other reports. The Module is intended to build upon the students' existing managerial knowledge and abilities, and to provide the basis for future career progression and continued management development.

6b. Outline Content

Knowledge Based

- Management of the construction process
- Lean production/construction and other production management systems
- Management of time; planning theories and techniques,
- PMIS systems and information management
- Production management, resource management, work study; productivity
- Uncertainty and risk management
- Financial management: forecasting and control
- Environmental management
- Management of human resources
- Quality management
- Health and safety management
- Culture of organisations and projects

Skills Based

- Apply programming techniques to plan and organise construction activities
- Use project management software to manage construction activities
- Use various production management techniques

6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

6d. Specialist Learning Resources

None

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Demonstrate a critical awareness and understanding of the context, factors and issues involved in the management of construction.
2	Knowledge and Understanding	Understand, select and apply appropriate production management approaches and techniques to construction management
3	Knowledge and Understanding	Analyse and solve complex problems relating to the management of construction
4	Intellectual, practical, affective and transferrable skills	Gather and critically analyse information, synthesise, evaluate and present alternative solutions

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	18	1,2,3	12 x 3 hour sessions (lectures, seminars and tutorials) delivered one per week or during a one week block (36 hours of lectures, structured workshops and tutorials)
Other teacher managed learning	18	1,2,3	12 x 3 hour sessions (lectures, seminars and tutorials) delivered one per week or during a one week block (36 hours of lectures, structured workshops and tutorials)
Student managed learning	114	1,2,3,4	9.5 hours per week over one semester or during the period designated for the block
TOTAL:	150		

9. Assessment for the above Module Occurrence

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-4	100 (%)	Fine Grade	40 (%)

Assignment: 4000 words

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:

(a) achieve the qualifying mark for each element of fine graded assessment as specified above

(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]