



# University of Pretoria Yearbook 2022

## BScHons *Construction Management* (12242018)

**Department** Construction Economics

**Minimum duration of study** 1 year

**Total credits** 125

**NQF level** 08

### Programme information

Refer also to G16-G29.

The successful completion of the compulsory work-based component is a requirement by the professional bodies, the South African Council for the Project and Construction Management Professions (SACPCMP) the Royal Institution of Chartered Surveyors (RICS) and The South African Council for the Quantity Surveying Profession (SACQSP). The module CWE 700 comprises a minimum of 240 hours of temporary employment with a suitable employer in the construction industry/built environment (registered quantity surveyor, contractor, developer, property owner, etc), As proof of the practical experience the student must submit an approved logbook signed by the employer.

### Admission requirements

1. BSc (Construction Management) degree **or** equivalent three-year BSc degree at NQF level 7 (or NQF level 6 for qualifications obtained before 2009) from an accredited institution.

Note: An equivalent qualification is regarded as one that the South African Council for the Construction and Project Management Professions regards as acceptable for registration as a candidate construction manager or candidate project manager and for eventual registration as a professional construction manager or professional project manager

### Additional requirements

Selection is based on an applicant's academic record and experience. Applicants may be required to attend an interview and/or write an entrance examination.

### Examinations and pass requirements

A minimum semester/year mark of 40% is required in order to be admitted to the examination in a specific module. In addition, all other examination admission requirements, applicable to the relevant module, must have been met. To pass a module a final mark of 50% is required.

#### Supplementary examinations

No supplementary examinations are granted at postgraduate level.



### **Special examinations**

No special examinations are granted at postgraduate level.

The degree is awarded when all prescribed modules have been passed.

### **Pass with distinction**

The degree is conferred with distinction if students registered for the degree for the first time, complete the degree within the minimum prescribed time and pass all modules with a weighted average of 75% (not rounded).



## Curriculum: Final year

Minimum credits: 125

### Core modules

#### Practical work experience 700 (CWE 700)

<b>Module credits</b>	1.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Year

#### Module content

This is a compulsory 240-hour work experience module that requires the submission of a signed logbook to record and confirm the hours worked in the construction industry.

#### Feasibility studies 710 (EUS 710)

<b>Module credits</b>	8.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 1

#### Module content

Overview of factors affecting the feasibility of proposed property developments, including a brief introduction to town planning, valuation, financing, marketing and investment principles.

#### Feasibility studies 720 (EUS 720)

<b>Module credits</b>	8.00
<b>NQF Level</b>	08
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 2

#### Module content

Financial viability studies of different types of property developments; value management and life-cycle costing.



## Construction finance 713 (FMT 713)

<b>Module credits</b>	10.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 1

### Module content

Construction project budgeting, estimating, analysing and interpreting cash flow schedules, financial statements and construction financial management planning.

## Construction management 710 (KBS 710)

<b>Module credits</b>	10.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 1

### Module content

Operational management techniques, productivity, work study and effect on price determination. Construction programming techniques, including CCS.

## Construction management 720 (KBS 720)

<b>Module credits</b>	10.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 2

### Module content

Human resource management as tool to achieve objectives. An approved certificate in first aid has to be submitted before this module will be awarded.



## Research report 785 (KBS 785)

<b>Module credits</b>	30.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Quarter 2, 3 and 4

### Module content

An essay on a subject approved by the Head of Department has to be completed during the final year of study.

## Construction entrepreneurship 720 (KEN 720)

<b>Module credits</b>	8.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 2

### Module content

Entrepreneurship, strategic management, business ethics, effective business management. Attention is paid to the built environment practitioner in this context.

## Construction contract law 740 (KKR 740)

<b>Module credits</b>	8.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 1

### Module content

Application and terms of CIDB endorsed standard construction contracts such as GCC, NEC and FIDIC; case studies. Alternative dispute resolution: mediation, adjudication and arbitration; litigation - an overview; law of delict; negligence and damage to property.



### Construction project management 730 (KPB 730)

<b>Module credits</b>	8.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Semester 1

#### Module content

Fundamentals to project management in the building and property industry. Key processes, knowledge areas and techniques are covered.

### Construction quantities 700 (KSH 700)

<b>Module credits</b>	20.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 practical per week, 3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Year

#### Module content

Preliminaries and pricing thereof, different types of bills of quantities, tender documentation, economical designs, building cost estimates, analysis of building costs, calculation of professional fees. Project and Construction Management Professions Act; Council for the Built Environment Act (CBE Act); Construction Industry Development Board Act (CIDB Act). Geotechnical and civil engineering works.

### Research methodology 710 (NNM 710)

<b>Module credits</b>	4.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Construction Economics
<b>Period of presentation</b>	Quarter 1



## Module content

Introduction to scientific research. Planning and preparation of a research proposal with implementation of research methodologies.

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