



Master of Engineering (MEng) by Coursework

MEng in Structural Engineering with Materials

The structural engineering and materials program strives to develop professional engineers with advanced abilities in applying fundamental structural engineering sciences, design and synthesis, to solve engineering problems in society. It academically equips the professionals in the fields of structural engineering and civil engineering materials and, in so doing, produce highly skilled engineers who are capable of undertaking leadership roles in the industry.

What the Coursework MEng Programme Offers

- Advanced abilities in applying fundamental engineering sciences, design and synthesis, to complex engineering problems.
- Advanced knowledge in structural design, structural analysis and structural materials by providing sound theoretical background, promoting critical and innovative thinking.
- Capability to independently conduct advanced fundamental and applied research in structures and civil engineering materials.
- Skills to integrate engineering tasks, management principles and economics.

Admission Requirements

Applicants should possess a 4-year professional Bachelor's degree (BSc /BEng) in Civil Engineering, a Bachelor Honours degree, or Postgraduate Diploma (PGDip) in Civil Engineering /an affiliated Engineering field. BTech and other qualifications are considered on individual basis relating to industry experience.

International Students

The University of Johannesburg (UJ) warmly welcomes international students.

Duration

2 years part-time or at least 18 months full time.

Department of Civil Engineering Science

FACULTY OF ENGINEERING
AND THE BUILT ENVIRONMENT

RETHINK EDUCATION.
REINVENT YOURSELF.



Coursework Master's in Structural Engineering UJ Department of Civil Engineering Science

Programme Schedule

MEng StrucEng, 50% coursework and 50% research: students to select four core modules, two electives and mini-dissertation

Program cycle		Module		Dates
Yearly	Offered continuously	Core	Minor dissertation (M6CSE19)	Continuous
1 st year 2016/17	2016 Semester II	Core	Advanced concrete technology (M6CCT19)	7-9, 19-20 September
		Core	Stability of steel structures (M6SOS_9)	4-6, 25-26 October
	2017 Semester I	Core	Advanced reinforced concrete analysis and design (M6ARC19)	1-3 March, 3-4 April
		Core	Finite element analysis (M6FEA29)	13-15 March, 24-25 April
2 nd year 2017/18	2017 Semester II	Elective	Dynamic analysis of structures (M6DYS_9)	4-6, 25-26 October
		Elective	Durability, assessment and repair of concrete structures (M6DAR29)	6-8, 18-19 September
	2018 Semester I	Elective	Advanced project management	TBA
Yearly	Offered continuously	Elective	Special topic in civil engineering materials and structures (M6SPE_9)	Continuous
		Elective outside civil engrg	TBA	TBA

ACADEMIC INSTRUCTORS: Dr Q. Cai, Prof SO. Ekolu, Prof M. Dundu, Dr A. Masarira, Dr R. Muigai, Engr. D. Kruger, Dr H. Quainoo, Invited academics and industry professionals. NOTE: Some scheduled dates may be subject to change.

FOR GENERAL ENQUIRIES, contact Program Administrator: Ms Nathalie Engelbrecht, nathalie@uj.ac.za, Tel. +27 11 559 3511

FOR PROGRAM QUERIES, contact Coordinator: Prof SO. Ekolu, Head of School, Civil and the Built Environment, sekolu@uj.ac.za, Tel. +27 11 559 3511/4405

TO APPLY ONLINE, please use the link: https://registration.uj.ac.za/pls/prodint/gen.gw1pkg.gw1startup?x_processcode=UJ_WAP