

Civil Engineering



IIE BACHELOR OF ENGINEERING IN CIVIL ENGINEERING



4 years full-time



NQF Level 8



Min. 576 credits



SAQA ID: 118321

WHY STUDY ENGINEERING?

The IIE Bachelor of Engineering in Civil Engineering is an integrated curriculum designed by top engineers. It equips you with a solid scientific foundation in modern civil engineering design and the skills to create physical and social environments for the 21st Century.

Based on contemporary sustainability theory, the degree will introduce you to issues like the fundamental mathematical and physical sciences in theory and practice, the application of engineering sciences to civil engineering projects and key expertise in geotechnical, hydraulic, structural and transportation engineering. This is a degree for people who want to build a better world.

This professional degree is endorsed by the Engineering Council of South Africa (ECSA).

CAREER OPPORTUNITIES

The programme prepares graduates to assume engineering positions within the construction sector, structural design, environmental, hydraulic engineering, transportation and geotechnical engineering fields.



IIE MSA is an educational brand of The Independent Institute of Education (Pty) Ltd which is registered with the Department of Higher Education and Training as a private higher education institution under the Higher Education Act, 1997 (reg. no. 2007/HE07/002). Company Registration number: 1987/004754/07.



IIE BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

MODULES

YEAR 1

Code	Module Name	Credits	Code	Module Name	Credits
CIED5111	Civil Engineering Design 1A	12	CIED5112	Civil Engineering Design 1B	12
ECHE5111	Engineering Chemistry 1A	12	EMEC5112	Engineering Mechanics 1B	18
EMTH5111	Engineering Mathematics 1A	12	EMTH5112	Engineering Mathematics 1B: Introduction to Psychology	12
EPHY5111	Engineering Physics 1A	14	ESCIE5112	Earth Sciences 1B	14
SAPR5111	Society and Practice 1A	12	SAPR5112	Society and Practice 1B	12
XBCV5112	Work Integrated Learning 1	2			

YEAR 2

Code	Module Name	Credits	Code	Module Name	Credits
CIED6211	Civil Engineering Design 2A	12	RUIN6212	Rural and Urban Infrastructure 2B	12
EMAT6211	Engineering Materials 2A	14	SAPR6212	Society and Practice 2B	12
EMEC6211	Engineering Mechanics 2A	14	STRU6212	Structural Engineering 2B	12
EMTH6211	Engineering Mathematics 2A	14	WAEN6212	Water Engineering 2B	12
SAPR6211	Society and Practice 2A	12	XBCV6212	Work Integrated Learning 2	2
CIED6212	Civil Engineering Design 2B	12			
GEOT6212	Geotechnical Engineering 2B	12			

YEAR 3

Code	Module Name	Credits	Code	Module Name	Credits
CIED7311	Civil Engineering Design 3A	12	CIED7312	Civil Engineering Design 3B	12
GEOT7311	Geotechnical Engineering 3A	12	GEOT7312	Geotechnical Engineering 3B	12
RUIN7311	Rural and Urban Infrastructure 3A	12	RUIN7312	Rural and Urban Infrastructure 3B	12
SAPR7311	Society and Practice 3A	12	PSYC7324	Society and Practice 3B	12
STRU7311	Structural Engineering 3A	12	WAEN7312	Water Engineering 3B	12
WAEN7311	Water Engineering 3A	12	XBCV7312	Work Integrated Learning 3	12
STRU7312	Structural Engineering 3B	12			

YEAR 4

Code	Module Name	Credits	Code	Module Name	Credits
INFD8411	Infrastructure Design 4A	18	DPRO8412	Design Project 4B	36
SAPR8411	Society and Practice 4A	18	RPRO8412	Research Project 4B	36
STRU8411	Structural Engineering Design 4A	18			
WAED8411	Water Engineering Design 4A	18			



IIE BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

MINIMUM ADMISSION REQUIREMENTS

Minimum Admission Requirements: 4-year programme

National Senior Certificate (NSC)

Bachelor pass with English 50%, Mathematics 70% and Physical Science 60%

National Certificate (Vocational) (NC(V))

Bachelor pass with English 50% (3), Mathematics 70% and Physical Science 60%

International

An USAf Exemption Certificate with 70% or equivalent for Maths, 60% or equivalent for Physical Science AND 50% or equivalent for English or requisite English test e.g. TOEFL, IELTS.

Notes

A cognate Higher Certificate OR cognate 240 credit Diploma OR an Advanced Certificate OR 360 credit Diploma may satisfy the minimum admission requirements to degree studies.



Please note, the admission requirements into this qualification were correct at the time of publication. BECV0801v2 – 19/01/2023



CONTACT US

Email: enquiries@iiemsa.co.za

Website: www.iiemsa.co.za

Call: +27 11 950 4009

CAMPUS ADDRESS

IIE MSA - 144 Peter Road,
Ruimsig, South Africa

Social media    