



# IIE Bachelor of Engineering in Civil Engineering

School of 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).

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## Curriculum

Year 1							
Semester 1				Semester 2			
Code	Module Name	NQF	Credits	Code	Module Name	NQF	Credits
CIED5111	Civil Engineering Design 1A	5	12	CIED5112	Civil Engineering Design 1B	5	12
ECHE5111	Engineering Chemistry 1A	5	14	EMEC5112	Engineering Mechanics 1B	5	14
EMTH5111	Engineering Mathematics 1A	5	18	EMTH5112	Engineering Mathematics 1B	5	18
EPHY5111	Engineering Physics 1A	5	14	ESCIE5112	Earth Sciences 1B	5	14
SAPR5111	Society and Practice 1A	5	12	SAPR5112	Society and Practice 1B	5	12
				XBCV5112	Work Integrated Learning 1	5	2

Year 2							
Semester 3				Semester 4			
Code	Module Name	NQF	Credits	Code	Module Name	NQF	Credits
CIED6211	Civil Engineering Design 2A	6	12	CIED6212	Civil Engineering Design 2B	6	12
EMAT6211	Engineering Materials 2A	6	14	GEOT6212	Geotechnical Engineering 2B	6	12
EMEC6211	Engineering Mechanics 2A	6	14	RUIN6212	Rural and Urban Infrastructure 2B	6	12
EMTH6211	Engineering Mathematics 2A	6	14	SAPR6212	Society and Practice 2B	6	12
SAPR6211	Society and Practice 2A	6	12	STRU6212	Structural Engineering 2B	6	12
				WAEN6212	Water Engineering 2B	6	12
				XBCV6212	Work Integrated Learning 2	6	2

Year 3							
Semester 5				Semester 6			
Code	Module Name	NQF	Credits	Code	Module Name	NQF	Credits
CIED7311	Civil Engineering Design 3A	7	12	CIED7312	Civil Engineering Design 3B	7	12
GEOT7311	Geotechnical Engineering 3A	7	12	GEOT7312	Geotechnical Engineering 3B	7	12
RUIN7311	Rural and Urban Infrastructure 3A	7	12	RUIN7312	Rural and Urban Infrastructure 3B	7	12
SAPR7311	Society and Practice 3A	7	12	SAPR7312	Society and Practice 3B	7	12
STRU7311	Structural Engineering 3A	7	12	STRU7312	Structural Engineering 3B	7	12
WAEN7311	Water Engineering 3A	7	12	WAEN7312	Water Engineering 3B	7	12
				XBCV7312	Work Integrated Learning 3	7	2

Year 4							
Semester 7				Semester 8			
Code	Module Name	NQF	Credits	Code	Module Name	NQF	Credits
INFD8411	Infrastructure Design 4A	8	18	DPRO8412	Design Project 4B	8	36
SAPR8411	Society and Practice 4A	8	18	RPRO8412	Research Project 4B	8	36
STRU8411	Structural Engineering Design 4A	8	18				
WAED8411	Water Engineering Design 4A	8	18				



## Admission requirements

NSC: Bachelor pass with	English 50% and Math/HG 70% and Physical Science 60%
NC(V): Bachelor pass with	English 50% and Math/HG 70% and Physical Science 60%
SC: Endorsement with	English 50% and Math/HG 70% and Physical Science 60%
SC(a): HC pass with	English 50% and Math/HG 70% and Physical Science 60%
<b>International</b>	
USAf exemption certificate with 70% or equivalent for Maths and 50% or equivalent for English AND 60% or equivalent for Physical Science or both Physics and Chemistry.	
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.	

Should you have any other school leaving qualification not mentioned above, please contact a student advisor.

THE IIE IS ACCREDITED AS AN INDEPENDENT HIGHER EDUCATION INSTITUTION BY THE BRITISH ACCREDITATION COUNCIL.

Details are correct at the time of printing V2 25 August 2023