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# University of Pretoria Yearbook 2022

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## Structural analysis 311 (SIN 311)

**Qualification** Undergraduate

**Faculty** [Faculty of Engineering, Built Environment and Information Technology](#)

**Module credits** 8.00

**NQF Level** 07

**Programmes** [BEng \(Civil Engineering\)](#)

[BEng \(Civil Engineering\) ENGAGE](#)

**Prerequisites** SIN 223

**Contact time** 1 practical per week, 1 tutorial per week, 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Civil Engineering

**Period of presentation** Semester 1

### Module content

Analysis of symmetrical structures using slope-deflection equations or moment-distribution; three dimensional structures and grillages; matrix methods; influence lines. Euler buckling of columns with different boundary conditions.

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