

# University of Pretoria Yearbook 2022

## Pavement design 793 (SGC 793)

**Qualification** Postgraduate

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

**Module credits** 24.00

**NQF Level** 08

**Programmes** [BEngHons Transportation Engineering](#)

[BScHons \(Applied Science\) \(Transportation Planning\)](#)

**Prerequisites** No prerequisites.

**Contact time** 40 Contact hours

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

**Department** Civil Engineering

**Period of presentation** Year

### Module content

A research term paper will be prepared.

Design philosophy in First and Third World environments; characterising and use of pavement materials; drainage; systems approach to layout, geometric and pavement design; stresses and strains in pavements; mechanistic design methods and elasto-plastic behaviour; economic analysis; designing pavements for streets, gravel and paved roads, runways, and industrial areas. Report writing.

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