

University of Pretoria Yearbook 2016

Spatial databases 787 (COS 787)

Qualification Postgraduate

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

Module credits 15.00

Programmes [BIT Information Technology](#)

[BScHons Computer Science](#)

[BScHons Geoinformatics](#)

Prerequisites No prerequisites.

Contact time 2 lectures per week

Language of tuition English

Academic organisation Computer Science

Period of presentation Semester 1 or Semester 2

Module content

This module covers the major themes of spatial databases with application to geographic information systems (GIS), i.e. systems concerning data with an implicit or explicit reference to a location relative to the earth. Topics covered include an introduction to spatial databases and spatial data management systems, representation of geographic data, spatial data modelling, computational geometry, spatial data indexing, query processing and spatial data standards. For Computer Science students the module is an introduction to the ever increasing application field of geographics information systems (GIS), and for Geoinformatics students the module provides insight into the Computer Science foundations of the field.

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