

University of Pretoria Yearbook 2020

Cartography 110 (GMC 110)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 10.00

Programmes [BIT Information Systems](#)

[BSc Computer Science](#)

[BSc Information and Knowledge Systems](#)

[BSc Chemistry](#)

[BSc Environmental Sciences](#)

[BSc Extended programme - Physical Sciences](#)

[BSc Geography](#)

[BSc Geoinformatics](#)

[BSc Meteorology](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Prerequisites No prerequisites.

Contact time 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Geography Geoinformatics and Meteorology

Period of presentation Semester 2

Module content

History, present and future of cartography. Introductory geodesy: shape of the earth, graticule and grids, datum definition, elementary map projection theory, spherical calculations. Representation of geographical data on maps: Cartographic design, cartographic abstraction, levels of measurement and visual variables. Semiotics for cartography: signs, sign systems, map semantics and syntactics, explicit and implicit meaning of maps (map pragmatics). Critique maps of indicators to measure United Nations Sustainable Development Goals in South Africa.

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