

University of Pretoria Yearbook 2022

Cartography 110 (GMC 110)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 10.00

NQF Level 05

Programmes BIT (Information Systems)

BSc (Computer Science)

BSc (Information and Knowledge Systems)

BSc (Geoinformatics)

BSc (Meteorology)

BSc (Chemistry)

BSc (Geography and Environmental Science)

BSc (Geology)

BSc (Physics)

BSc extended programme - Physical Sciences

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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