

University of Pretoria Yearbook 2017

Earth studies 210 (AAL 210)

Qualification Undergraduate

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

Module credits 8.00

Programmes [BSc Architecture](#)

[BSc Interior Architecture](#)

[BSc Landscape Architecture](#)

Prerequisites No prerequisites.

Contact time 3 lectures per week

Language of tuition Module is presented in English

Academic organisation Architecture

Period of presentation Semester 1

Module content

Meso-environment:

Climate: atmospheric constituents and processes, weather systems, heat radiation and transfer, solar charts, sun movement and heat gain control.

Air: airflow patterns around structures, natural ventilation.

Water vapour: diffusivity, transfer and condensation.

Heat: thermal comfort and comfort indices, thermal performance of materials and structures, time lag, decrement and periodic heat transfer.

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