Do you enjoy collecting and analysing information? A career in Geomatics will allow you to specialise in the field of Surveying or Geographical Information Science (GISc). A surveyor collects and analyses spatial data and is responsible for setting out of new roads, tunnels and high-rise buildings.

With a qualification in GISc you also provide information for urban planning, natural resource management, health and emergency services.

YOUR SUBJECTS

**FIRST YEAR**
- Computer skills
- Surveying
- Drawing
- Communication skills
- Mathematics
- Surveying
- Geography
- Physics
- Computer aided drafting
- Mathematics

**SECOND YEAR**
- Mathematics
- Statistics
- Photogrammetry
- Geographic information systems
- Civil engineering
- Map projections
- Spatial data acquisition
- Database theory
- Survey software
- Control surveying (survey stream)
- Cartography (GISc stream)

**THIRD YEAR**
- Land Law
- Management
- Survey stream
  - Adjustment of errors
  - Cadastral surveying
  - Surveying
  - Surveying industrial project
- GIS c stream
  - Data quality management
  - Remote sensing
  - Spatial analysis
  - GISc industrial project

YOUR FUTURE SELF

**Future studies**
- BTech: Surveying
- BTech: Cartography

**Future industries**
- Local authorities
- State departments
- Engineering industry
- Private organisations

Your on-the-job training

You are required to complete six months (a semester) of training in industry.

WHAT YOU NEED

Minimum Admission Requirements

- **National Senior Certificate (Grade 12) with:**
  - English, First Additional Language (4)
  - Mathematics (4)
  - Physical Science (4)

- **National Certificate (Vocational) with:**
  - English, First Additional Language (5)
  - Mathematics (5)
  - Physical Science (5)

The department utilises an Admission Point Score (APS) as selection criteria once your minimum admission requirements are satisfied. You also have to score a minimum of 30 on the APS.

DISCLAIMER

Meeting the minimum requirements does not guarantee admission. This information is subject to change based on approval and accreditation of HEQSF aligned qualifications during 2019/2020. Admission requirements may therefore differ between the existing qualification and the HEQSF aligned qualification. Please consult the CPUT website or faculty for updated information. Every effort has been made to ensure the accuracy of the information in this pamphlet; however the University reserves the right at any time, if circumstances require to make changes to any of the published details.