

Southern and Eastern African Mineral Centre (SEAMIC)



Geo-information Department

Training Course on “Principles and Applications of GIS”

Geographical information system (GIS) is now commonly applied in mineral exploration, environmental management, land use management and urban planning. The course on **Principles and Applications of GIS** introduces participants to the basic concepts and the operational skills necessary for data capture, manipulation, analysis, and the production of GIS output.

For whom is the course relevant?

The course introduces participants to the basic concepts and the operational skills necessary for data entry, data manipulation and analysis, and the production of interpretable output. The course is useful to new, as well as to those experienced in some aspects of GIS but lacking a complete overview of the conceptual foundation.

What will be achieved?

On completion of this course, participants will have covered the following GIS topics:

- Introduction to GIS
- GIS data types
- GIS database management system
- Spatial coordinate system
- GIS data capture and archiving
- Vector and raster data in GIS
- GIS Data analysis
- Data visualisation.

The course covers both theory and practice. It aims to develop conceptual understanding, and offers practical applications to develop hands-on skills in the use of relevant tools and techniques. On completion, participants will be able to design and carry out sequential data processing steps for solving typical problems involving information in the chosen application domain.

Admission requirements

Applicants should have a good understanding of English and good command of operating desktop computers.

Course duration and fee

The course is conducted for a duration of two weeks Monday to Friday. The fee for the course is \$500 per person payable before the start date of the course upon registration to the course.

Registration information can be found from:

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During 2008/09, the course is scheduled for the following dates:

25 August – 5 September 2008
18 – 29 May 2009