



## GIS Professional Practice

Presented by the Centre for Geoinformation Science, Geoinformatics and Meteorology,  
University of Pretoria

5 SACNASP CPD Points

The short course in **GIS Professional Practice** covers themes in professionalism and legislation as prescribed by the South African Geomatics Council (SAGC) for geographic information science (GISc) professionals. During the course, you will gain a better understanding of all facets pertinent to professionals in the geomatics industry. Topics include professionalism, professional ethics, the role of international associations and societies in geomatics, and relevant legislation, such as the Geomatics Act of 2013, the Copyright Act of 1978 (the Promotion of Access to Information Act of 2000, and the Spatial Data Infrastructure Act of 2003).

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## Course content

- Professionalism
- Professional ethics and social responsibility
- Professional practices, partnerships and client relationships
- International associations and societies in geomatics
- PLATO legislation and rules
- Spatial Data Infrastructure Act
- Promotion of Access to Information Act
- Copyright and Intellectual Property Acts

## Course schedule

- Workshop 1: 25-26 July 2022 (08:30 – 16:00)
- Workshop 2: 10-11 October 2022 (08:30 – 16:00)
- Workshop 3: 14-15 November 2022 (08:30 – 16:00)
- Exam: 28 November 2022 (10:00 – 13:30)

## Learning outcomes

- After successfully completing the course, you will be able to
- discuss the meaning of GISc, a profession and the GISc as a profession
  - critically discuss the pros and cons of GISc as a profession, with particular reference to South Africa
  - critically discuss the professional and ethical issues relevant to GISc within and between organisations
  - discuss the role of international societies and associations in geomatics and their relevance to GISc business in South Africa, and
  - interpret the legislation specified by the South African Geomatics Council for GISc practitioners in the law exam syllabus.

## Who should enrol?

This course is suitable for anyone who wants to register with the South African Geomatics Council and whose qualifications do not include any topics on ethics and professionalism.

## Course fees

### **R13 500.00 per delegate (VAT incl.)**

Course fees include all course notes, text books and refreshments during contact days.

**Course fees must be paid in full 14 days prior to course start dates. Proof of payment can be submitted to [enrolments@enterprises.up.ac.za](mailto:enrolments@enterprises.up.ac.za).**

## Admission requirements

Prospective delegates should have a relevant post-matric qualification in Geomatics or a related field (e.g. geography, GISc, surveying) that is aligned with GISc professional registration.

## Assessment

This programme is presented during the second semester with two compulsory workshops of at least 25 contact hours in total. Delegates who pass the six assignments and the three-hour written exam will receive a certificate of successful completion from the University of Pretoria.

## Accreditation and certification

Enterprises University of Pretoria (Pty) Ltd is wholly owned by the University of Pretoria. As a public higher education institution, the University of Pretoria functions in accordance with the Higher Education Act 101 of 1997. Enterprises University of Pretoria offers short courses on behalf of the University and these short courses are not credit-bearing, and do not lead to formal qualifications on the National Qualifications Framework (NQF) – unless stated otherwise. Delegates who successfully complete a short course and comply with the related assessment criteria (where applicable) are awarded certificates of successful completion and/or attendance by the University of Pretoria.

## Registration and enquiries

### Course coordinator

Modjadji Masola  
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### Course leader

Prof Serena Coetzee  
Director: Centre for Geoinformation Science  
Geoinformatics, Geographic Information Systems

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## Course schedule

The schedule is subject to change. Consult the ClickUP site regularly.

ITEM	SCOPE	DATE	VENUE
Workshop 1	See detailed schedule	25-26 Jul	UP campus
Assignment 1	Key concepts and value systems	Monday 1 Aug, 8:00	ClickUP
Assignment 2	Philosophical foundations of ethics	Monday, 8 Aug, 8:00	ClickUP
Assignment 3	Ethical decision making and resolving ethical dilemmas	Monday, 15 Aug, 8:00	ClickUP
Assignment 4	GISc professionalism	Monday, 22 Aug, 8:00	ClickUP
Assignment 5	Constitution, purpose and relevance of Acts	Monday, 29 Aug, 8:00	ClickUP
Assignment 6	Copyright Act	Monday, 5 Sept, 8:00	ClickUP
Assignment 7	Promotion of Access to Information Act	Monday, 12 Sept, 8:00	ClickUP
Assignment 8	Electronic Communications and Transactions Act	Monday, 19 Sept, 8:00	ClickUP
Assignment 9	tConsumer Protection Act	Monday, 26 Sept, 8:00	ClickUP
Assignment 10	SDI Act	Monday, 3 Oct 8:00	ClickUP
Workshop 2	See detailed schedule	10-11 Oct	UP campus
Take Home Test 1	Ethics and professionalism	Monday, 24 Oct, 8:00	ClickUP
Take Home Test 2	Legislation	Monday, 31 Oct, 8:00	ClickUP
Assignment 11	International associations	Monday, 7 Nov, 8:00	ClickUP
Workshop 3	See detailed schedule	14-15 Nov	UP campus
Exam 1 (open book)	Ethics and professionalism	Monday, 28 Nov, 10:00 – 11:30	UP campus
Exam 2 (closed book)	Legislation	Monday, 28 Nov, 12:00 – 13:30	UP campus

## Course for the first workshop

### Monday, 25 July

TIME	DESCRIPTION	REFERENCE
7:30	Registration	
9:00	Course overview	
9:30	Introductory case study Key concepts in business and professional ethics Ethical value systems for professionals in South Africa <i>Assignment 1: Key concepts and values systems</i>	Chapter 1 Chapter 2 Chapter 3
10:30	Break – test ClickUP logins	

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11:00	Classical ethical theories Case studies: Amazing GIS, BRT, FiveGIS, Government, ISI, LBS, SoftwareEmergency, Underground water levels <i>Assignment 2: Philosophical foundations of ethics</i>	Chapter 4
12:30	Break	
13:30	Ethical decision-making and applying the five tenets Case studies: BrightGIS, GISeven, Tidal and Wetland Mapping, WCE, FriendlyGIS <i>Assignment 3: Ethical decision making and resolving ethical dilemmas</i>	Chapter 5 Chapter 6
14:30	Break	
15:00	What is a profession? Codes of professional ethics The GISc Profession in South Africa <i>Assignment 4: GISc professionalism</i>	Chapters 12-13 Geomatics Act

## Wednesday, 26 July

TIME	DESCRIPTION	REFERENCE
8:30	Statutory interpretation of legislation Constitution of South Africa Justices of the Peace and Commissioners of Oaths Act 16 of 1963 <i>Assignment 5: Constitution, purpose and relevance of Acts</i>	Botha (2012) Legislation
10:30	Break	
11:00	Principles of copyright Principles of freedom to information <i>Assignment 6: Copyright Act</i> <i>Assignment 7: Promotion of Access to Information Act</i>	Legislation
12:30	Lunch	
13:30	Principles of Electronic communications and transactions <i>Assignment 8: Electronic Communications and Transactions Act</i>	Legislation
14:30	Lunch	
15:00	Principles of consumer protection Principles of spatial data infrastructures <i>Assignment 9: Consumer Protection Act</i> <i>Assignment 10: SDI Act</i>	Monday, 12 Sept, 8:00

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