

# University of Pretoria Yearbook 2022

## Geographic data analysis 220 (GIS 220)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	14.00
<b>NQF Level</b>	06
<b>Programmes</b>	<a href="#">BIT (Information Systems)</a>
	<a href="#">BSc (Information and Knowledge Systems)</a>
	<a href="#">BSc (Geoinformatics)</a>
	<a href="#">BSc (Meteorology)</a>
	<a href="#">BSc (Chemistry)</a>
	<a href="#">BSc (Engineering and Environmental Geology)</a>
	<a href="#">BSc (Geography and Environmental Science)</a>
	<a href="#">BSc (Physics)</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	GMC 110 and (STK 110 OR BME 120)
<b>Contact time</b>	1 practical per week, 2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Geography Geoinformatics and Meteorology
<b>Period of presentation</b>	Semester 2

### Module content

The nature of geographical data and measurement. Application of statistics in the geographical domain. Probability, probability distributions and densities, expected values and variances, Central Limit theorem. Sampling techniques. Exploratory data analysis, descriptive statistics, statistical estimation, hypothesis testing, correlation analysis and regression analysis. Examples used throughout the course are drawn from South African and African case studies and taught within the framework of the UN Sustainable Development Goals.

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

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registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.