



Introduction to Drone Dynamics

Presented by the Department of Geography, Geoinformatics and Meteorology, University of Pretoria in cooperation with Delta Drone Africa

The **Introduction to Drones Dynamics** short course will provide you with insights into what a drone looks like and what it is made of. Get to know the different designs and the purposes of each drone and understand what the difference is between a toy drone and a commercialised drone. You will also be exposed to the different functions of drones: detecting water masses, disease detection, soil management, irrigation and drainage management, rhino protection, and land surveying to name a few. You will go further to also learn about the limitations of drones, the legislation that go with it, the capabilities of drones and the types of camera they can carry in order to choose the right drone and equipment for the right project.

Course content

- Introduction to drones
- What drones are made of
- Design of drones
- Principles of flight
- Navigation and weather
- Drone usages
- Limitations (incl. atmospheric conditions, types of project, payload, types of cameras, legislation, etc.)

Learning outcomes

After successfully completing this course, you will be able to

- demonstrate a sound knowledge of different types of drone
- identify the various functions of drones
- use the camera on a drone accurately, and
- download data from a drone to a computer.

Who should enrol?

This course is ideal for you if you are employed in the GIS, mining, civil, land surveying or security industry or if you are a megafarmer with a keen interest in the use of drone technology.

Course fees

R7 575.00 per delegate (VAT incl.)

Course fees include all course material 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.

Admission requirements

Prospective delegates should at least have relevant experience and/or prior knowledge or a relevant tertiary qualification in a related field.

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 to 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 enrolments

Course coordinator

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Shifting knowledge to insight

