



# University of Pretoria Yearbook 2021

## Plant physiology and biotechnology 261 (BOT 261)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	12.00
<b>NQF Level</b>	06
<b>Programmes</b>	<a href="#">BEd Senior Phase and Further Education and Training Teaching</a> <a href="#">BSc Biochemistry</a> <a href="#">BSc Biotechnology</a> <a href="#">BSc Chemistry</a> <a href="#">BSc Ecology</a> <a href="#">BSc Entomology</a> <a href="#">BSc Genetics</a> <a href="#">BSc Geography and Environmental Science</a> <a href="#">BSc Human Physiology</a> <a href="#">BSc Microbiology</a> <a href="#">BSc Plant Science</a> <a href="#">BSc Zoology</a> <a href="#">BScAgric Applied Plant and Soil Sciences</a> <a href="#">BScAgric Plant Pathology</a>
<b>Service modules</b>	Faculty of Education
<b>Prerequisites</b>	BOT 161 and CMY 127.
<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>	Department of Plant and Soil Sciences
<b>Period of presentation</b>	Semester 2



## Module content

Nitrogen metabolism in plants; nitrogen fixation in Agriculture; plant secondary metabolism and natural products; photosynthesis and carbohydrate metabolism in plants; applications in solar energy; plant growth regulation and the Green Revolution; plant responses to the environment; developing abiotic stress tolerant and disease resistant plants. Practicals: Basic laboratory skills in plant physiology; techniques used to investigate nitrogen metabolism, carbohydrate metabolism, pigment analysis, water transport in plant tissue and response of plants to hormone treatments.

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