

UNIVERSITY OF DSCHANG

FACULTY OF SCIENCE



DEPARTEMENT OF PLANT BIOLOGY

Discipline: Biology of Plants
Organisms



PRESENTATION

The Department of plant Biology of the Faculty of Science of the University of Dschang organises courses in the Discipline of Biology of the plants Organisms.

Courses are taught in 8 levels of study for three BMD cycles:

- The levels B1, B2 and B3 for the Bachelor Degree
- The M1 and M2 levels for the Academic Master Degree and the Professional Master Degree
- The D1, D2 and D3 levels for Doctorate/Ph.D

Degrees:

- Bachelor Degree in Plant Biology in 6 semesters;
- Master degree with thesis in Plant Biology and Physiology in 5 Years of study (4 semesters after Bachelor);
- Professional Master degree in Water, Sanitation and Hygiene (4 years after Bachelor);
- A Doctorate/Ph.D in Botanical Science

Associated Trainings

- International Master Biology and Environments of the Tropical Plant - BEVT (Dschang, Paris, Brussels)
- International Master *ERASMUS MUNDUS TROPIMUNDO* (Dschang, Paris, Brussels, Florence, Queensland, Hong Kong, Atananarivo...)
- Professional Master in Water, Sanitation and Hygiene (WASH)



COURSES OFFERED

70 courses are offered in the Department of Plant Biology. These include:

- 42 in the Bachelor levels
- 19 in the Master 1 level
- 9 on the Master 2 level

The level B1 (Semester I and II) regroupes all the students in life and soil sciences. The lecturers of the Department of Plant Biology teach 3 courses there:

- Structural and functional organization of the cell
- Molecular organization of the cell
- General botany

The courses taught in the B2 level make it possible for the student not only to initiate himself to the study of plants, but especially to understand the relationship between plant biology and the other disciplines of the life sciences which are zoology, biochemistry and microbiology. Level 2 is sanctioned by the Diploma of General Higher Education Studies (DEUG) in Botany.

The admission into semester V of level 3 is conditioned by obtaining the DEUG in Plant Biology. The courses taught here are courses of speciality, which make the student to master complex and systematic concepts, the plant metabolism and development, phytopathology, ecology and plant ecophysiology. These courses are supported by study trips (visits of laboratories, field trips).

The admission into the Master cycle is selective. The courses are taught here in two options: The option of Physiology and Biotechnology, and the Systematics and Ecology option. After 2 semesters of theoretical, practical and professional courses supported by two study trips in areas of the West, Littoral, Centre, South and in the South-west of Cameroun, the successful students are admitted into master 2. The 1st semester of M2 is devoted to theoretical courses. They defend in the second semester at the end of six months of research work in one of the options, a Master memoir of Plant Biology and Physiology. The BEVT/TROPIMUNDO option is done in alternate semesters North/South. The students are admitted here based on the study of the files; they spend their 2nd semester of Master 1 in Cameroun where they must obtain 30 credits with 15 dedicated to field studies which are undertaken in tropical forest ecosystems.

LECTURERS/RESEARCHERS

The Department of Plant Biology is animated by 2 Full Professors, 6 Associate Professors and 13 Senior Lecturers. It enjoys Belgian experiences, French, German, American, Nigerian and Cameroonian experiences through the various countries of specialization of its lecturers.

Pr Nguetsop Victor François, Full Professor
Algology/Climat change.
Head of Department

Pr Fonkou Théophile, Full Professor
Ecophysiology, Environment.
Head of Laboratory of Applied Botany

Pr Achiangia Patrick Njukeng, Associate Professor
Plant Virology.

Pr Mendi Grace Ndum, Associate Professor
Forest Ecology and Sylviculture.

Pr Tsopmbeng Numbo Gaston, Associate Professor
Phytopathology.

Pr Mbong Grace, Associate Professor
- Phytopathology

Pr Kanmegne Gabriel, Associate Professor
Biotechnology/Physiology.

Pr Momo Solefack Marie Caroline, Associate Professor
Forest Ecology

Dr Agyingi Lucy Ambang, Senior Lecturer
Microbiology

Dr Anoumaa Mariette, Senior Lecturer
Physiology/Biotechnology

Dr Fotso Emmanuel, Senior Lecturer
Physiology

Dr Tsobou Roger, Senior Lecturer,
Ethnobotany

Dr Lekeufack Martin, Senior Lecturer
Ecology, Environment

Dr Lucha Celestine, Senior Lecturer
Plant systematics and Ecology

Dr Douanla Nnomo Roland, Senior Lecturer
Ethnobotany

Dr Dong Etchiké Alex, Senior Lecturer
Agro-forestry/Tropical Biodiversity

Dr Tiokeng Bertine, Senior Lecturer
Plant Ecology

Dr Koné Nsangou Abdou Nourou, Senior Lecturer
Plant Biotechnology/Phytopathology

Dr Tsama Njitat Valérie, Senior Lecturer
Ecology and Environment

Dr Derogoh Nway Amang Néhémie, Senior Lecturer
Physiology and plants' associations

Dr Djumyom Wafo Guy Valérie, Senior Lecturer
Phytoremediation, water and Environment

RESEARCH-COOPERATION

The Department of Plant Biology has a Research Unit, the Research Unit of Applied Botany (URBOA). This research unit animates the activities in the following four axes:

- Medicinal plants and ethnopharmacology
- Melliferous plants and bee-keeping
- Physiology and biotechnology
- Biomarkers, bioindicators and phytoremediation.

The Research topics currently treated are:

- The physiology of ripening of tropical fruits
- The study of melliferous and medicinal plants of Cameroun
- Bioindicators of water pollution and the use of some plants for the purification of wastewater
- Problems of germination of certain cash-crops species with difficult natural regeneration.
- The valorisation of biodiversity according to the ABS principle

These works help the lecturers of this Department to publish articles in national and international scientific journals.

The Department collaborates with the homologous departments of other universities of the state of Cameroun, like with many other universities and institutes in the world with the examples: Université de Liège, Université Libre de Belgique, Université Pierre et Marie Curie, Muséum National d'histoire Naturelle de Paris, Chia Nan University of Pharmacy and Science (Taiwan), University of Ibadan, The African Forest Research Network, IRD, just to quote only a few.

For the development support, the Department works in partnership with private structures for instance the example of the Foundation of Mane Company (France) and the

Organisation of the Traditional Medicine Sector in the West region of Cameroon.

COURSES OUTCOMES

At the end of the studies in the discipline of Biology of the plants organisms, the graduates and those from Sanitation Engineering easily have access to the many jobs which are offered to the graduates in life sciences and to the engineers of sanitation. One can name in a non-exhaustive way:

- Teaching
- Research
- Pharmacy
- Medicines
- Environmental engineering
- Territorial collectivities
- Sanitation trainings
- Forestry
- Ethno-pharmacognosy
- Agriculture and agrostology
- Self-employment (Apiculture, horticulture, ...)

