

Administratif Groupe

| Faculty or Department | Full Name | Grad | Administratif capacity | Biography |
|--------------------------------------|--|------|---|---|
| Faculty of Life and Natural Sciences | Dr. Abdelmalek Zaater abdelmalek-zaater@univ-eloued.dz | MCB | Dean of the Faculty of Life and Natural Sciences | Abdelmalek Zaater is a Lecturer professor at University of El Oued with tewalev years' in higher education and scientific research. Specializing in Agricultural sciences and agricultural machinery. His research field includes many studies related to fertility and characteristics of sandy soils, as well as the study of Characterization of goat's milk and manufacture of cheese from goat's milk using rennet of animal origin.. He has published many scientific articles and supervised many masters and doctoral students. Today, Abdelmalek Zaater is the Dean of the Faculty of Life and Natural Sciences. He also previously held the position of head of the biology department and the vice dean in charge of students. |
| | Dr. Mehdi Selmane selmane-mehdi@univ-eloued.dz | MCA | Vice-Dean for Post-Graduation, Scientific Research and External Relations | Mehdi Selmane is a Lecturer professor at University of El Oued with six years' in higher education and scientific research. Specializing in Animals Ecology and Zoology. His research field includes many studies related to insects and scorpions, as well as the study of biopesticides of plant origin. He has published many scientific articles and supervised many masters and doctoral students. Today, Mehdi Selmane is the Deputy Dean of the Faculty of Life and Natural Sciences in charge of post-graduation, scientific research and external relations. He also previously held the position of responsible for environmental sciences for the bachelor's level and deputy head of the post-graduation department for the agricultural sciences department. |
| | Dr.Ammar Touhami Laiche laiche-ammam-touhami@univ-eloued.dz | MCA | Vice-Dean for Education and students' Affairs | Ammar Touhami Lache is a Lecturer professor at University of El Oued with ten years' in higher education and scientific research. Specializing in Applied Microbiology. His research field includes many studies related to lactic bacteria et environment interactions. He has published many scientific articles and supervised many masters and doctoral students. Today, He is the Vice-Dean for Education and students' Affairs of the Faculty of Life and Natural Sciences. |
| Department of Biology | Dr. Hacene Laouedj laouedj-hacene@univ-eloued.dz | MCB | Head of the Department of Biology | Hacene Laouedj is a Lecturer professor at University of El Oued with Seven years' in higher education and scientific research. Specializing in Plant biology and physiology. His research field includes many studies related to The biological basis of plant production, as well as the study of Effect of abiotic stresses on the plant. He has published many scientific articles and supervised many masters and doctoral students. Today, Hacene Laouedj is the Head of the Department of Biology. He also previously held Head of the division team for biochemistry and toxicology for Cellular and Molecular Biology department. |
| | Aida Bousbia Brahim aida.bousbia-brahim@univ-eloued.dz | MAA | Deputy Head of the Department of Biology for Post-Graduation, scientific Reseach and External Relations | Aida Bousbia Brahim is a class (A) assistant professor at the University of El Oued, recruited nine years ago for higher education and scientific research. Specialized in plant physiology. His field of research includes many studies related to medicinal plants and ecology. She has published numerous scientific articles; and has supervised numerous masters' students. Today, Aida Bousbia Brahim is Deputy Head of the Department of Biology for Post-Graduation, scientific Reseach and External Relations |
| | Dr. El Amine Khechekhouche khechekhouche-elamine@univ-eloued.dz | MCA | Deputy Head of the Department of Biology for Education and Students' Affairs | El Amine Khechekhouche is a Lecturer professor at University of El Oued with ten years' in higher education and scientific research. My research interests are somewhat varied, but they mostly focus on the community ecology and biological interactions that occur in arid and North African desert habitats. The study of floral and faunal diversity, as well as how human |

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| | | | | impacts and environmental changes impact this biological diversity, is a subject that interests me. In other words, I'm trying to comprehend and assess how biodiversity varies through space and time in different ecosystems in Algeria and North Africa. I published many scientific articles and supervised many masters and doctoral students. Today, I'm the Deputy Head of the Department of Biology for Education and Students' Affairs (Faculty of Life and Natural Sciences). |
| Department of Agronomy | Dr. Smail Mehda mehda-smail@univ-eloued.dz | MCB | Head of the Department of Agronomy | Mehda Smail is a lecturer at the University of El Oued. He is a professor of soil ecology at the Faculty of Natural and Life Sciences. His field of research includes many studies related to soil biology, soil chemistry and fertility as well as the study of soil and water pollution. He has published many scientific articles and supervised many master's and doctoral students. Today, Smail Mehda is the head of the department of agricultural sciences. He also previously held the position of Head of Environmental Sciences for the undergraduate level and Deputy Head of Agronomy Department for the Post-Graduation. |
| | Yacine Kasmi kasmi-yacine@univ-eloued.dz | MAA | Deputy Head of the Department of Agronomy for Education and Students' Affairs | Yacine Kasmi is a Professor in the Department of Agricultural Sciences at El Oued University, where he has been since 2019. From 2022 to 2023 he served as Deputy Head of the Department of Agronomy for Education and Students' Affairs. He received an IBM in Agriculture Sciences from Batna 01 University in 2017. From 2018 to 2023 he worked at Agricultural Crops in El Oued Area, eventually as a Senior Agriculture Scientist. |
| | Dr. Zeid Alia zeid-alia@univ-eloued.dz | MCA | Deputy Head of the Department of Agronomy for Post-Graduation, Scientific Research and External Relations | Zeid Alia is ensegnant researcher at Natural and life sciences faculty, university of El Oued with eight years, helping at new students and researchers overcome the difficulties of scientific research. Specializing in agronomy area "exactly in crops protection, biodiversity and bio pesticide". Zeid uses that experience to acquisition of research and discovery skills in the field of natural sciences and life. By focusing on scientific research, Zeid has been able to publish the results from diversity of Rodent, bio plastic and bio pesticide. Today, Zeid is Deputy Head of the Department of Agronomy for Post-Graduation, Scientific Research and External Relations |
| Department of Molecular and Cellular Biology | Dr. Mohammed Laid Tlili tlili-laid@univ-eloued.dz | MCA | Head of the Department of Cellular and Molecular Biology | Mohammed Laid Tlili is a Lecturer professor at Faculty of Natural and Life Sciences in University of El Oued since six years in higher education and scientific research. Specializing in biochemistry. My research field includes many studies related to medicinal plants, as well as the study of biological activities. I have published many scientific articles and supervised many masters and doctoral students. Today, Mohammed Laid Tlili is currently the Head of Department of Molecular and Cellular Biology of the Faculty of Natural and Life Sciences. |
| | Biya Bouras bouras-biya@univ-eloued.dz | MAA | Deputy Head of the Department of Cellular and Molecular Biology for Post-Graduation, Scientific Research and External Relations | Biya Bouras is an assistant professor at the University of El Oued. She officially has five years of higher education and scientific research. Her field of research includes many studies related to camel milk, as well as the formulation of new food products based on camel milk. She has international scientific articles in this field. In addition, she has supervised several final cycle students. Today, Biya Bouras is Deputy Head of the Department of Molecular and Cellular Biology for Post-Graduation, Scientific Research and External Relations. |
| | Dr. Elhafnaoui Lanez lanez-elhafnaoui@univ-eloued.dz | MCB | Deputy Head of the Department of Molecular and Cellular Biology for Education and Students' Affairs | Dr. Elhafnaoui Lanez is a Lecturer Professor of chemistry at the University of El Oued, Algeria and member of Laboratory of Valorisation and Technology of Sahara Resources. He Studied Pharmaceutical Chemistry in the University of Biskra, Algeria, and received a Ph.D. in electrochemistry of bioactive substances of pharmaceutical interest from the University of Ouargla, Algeria. His research activities are concentrating on Organometallic Synthesis, Biological Activities, Molecular Docking and molecular dynamic simulation. |

Specialties and objectives

Bachelor

| Department | Specialties | Number of students |
|--|-------------------------------|--------------------|
| Common Trunk Life and Natural Sciences | First year bachelor's degree | 651 |
| Field of Biology | Second year Bachelor's degree | 603 |
| Field of Ecology and Environment | Second year Bachelor's degree | 93 |
| Field of Agricultural Sciences | Second year Bachelor's degree | 73 |

| Department | Specialties | Number of students |
|--|------------------------------|--------------------|
| Department of Biology | Ecology and Environment | 82 |
| | Plant Biology and Physiology | 144 |
| Department of Agronomy | Plant production | 72 |
| Department of Molecular and Cellular Biology | Biochemistry | 206 |
| | Toxicology | 209 |
| Total | | 713 |

| Department | Specialties | Objectives |
|------------------------|------------------------------|--|
| Department of Biology | Ecology and Environment | The aim of the license is to provide training on the dynamics of ecological systems and the action of environmental factors, based on high-level research in the field. It is a question of giving a qualification and a thorough description to the students on the structure and functioning of communities and ecosystems, and on the place of the living in the problematic of the Saharan environment by offering them a solid theoretical training, methodology and practice in ecological sciences, allowing them to use all the concepts and methods that feed the ecology and environmental sciences today with relevance and critical thinking. The skills acquired will allow students to focus on scientific research. |
| | Plant Biology and Physiology | This license will aim to train students in the field of Plant Sciences, with multidisciplinary approaches of biology, physiology and genetics to understand the diversity and evolution of plants, their functioning their nutrition, development and responses to different biotic and abiotic constraints. <ul style="list-style-type: none"> • Ensure quality training by addressing social demand • Legitimate access to higher education. • Knowledge of concepts and techniques used in plant biology and biotechnology to better adapt to working life. • Upgrading of higher education in Algeria with the level achieved in developed countries. • Achieve true osmosis with the socio-economic environment by developing all possible interactions between universities and the world around them (labour market) |
| Department of Agronomy | Plant production | They are presented in two almost complementary points: a- General skills: the candidate for such training is capable of: |

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| | | <ul style="list-style-type: none"> - To analyse in its zone of action all the conditions of animal production in their specificities and interactions. - To identify problems relating to the basic conditions of animal production. - To propose areas for improvement in the short and longer term, to design and implement specific projects on these basic conditions. - Coordinate, monitor and evaluate the development operations defined with the relevant managers. <p>b- Special skills: the candidate is a specialist:</p> <ul style="list-style-type: none"> - Relations between soil and plant climate, that is, the environment and the plant; - Production systems; - Agricultural dynamics. <p>He also masters</p> <ul style="list-style-type: none"> - The production principles relating to the plant sectors (dates) and local products. <p>He has a good knowledge</p> <ul style="list-style-type: none"> - In the administrative and socio-economic field of the agricultural environment in general. <p>It dominates the problems of organization of each sector and sub-sector of production and marketing of the different Oasian productions.</p> <p>He is able - to propose subjects for experimentation, discuss them with those responsible for research, participate in the definition of protocols and the follow-up of work;</p> <ul style="list-style-type: none"> - To self-train and self-specialise throughout his professional activity and to have training schemes at all levels. <p>It has - an intellectual opening on the possibilities of using new forms of energy in the oasian environment and new techniques related to the production process and its management.</p> |
| <p style="text-align: center;">Department of Molecular and Cellular Biology</p> | <p>Biochemistry</p> | <p>This training brings to the student a solid training in a discipline among the disciplines of the life sciences both laboratory and field. It aims to open up prospects for occupations in which knowledge of biological and environmental problems is important.</p> <p>This discipline aims to train technicians with a broad spectrum of knowledge and skills in molecular biology and biochemistry allowing them to find employment in various sectors: agricultural, biomedical, dietetic, pharmaceutical, agronomics, agri-food, biotechnology, bioinformatics, environment..... etc, where they can carry out different activities: production, analysis and control, research and development, services, management, human food.</p> |
| | <p>Toxicology</p> | <ul style="list-style-type: none"> - Training of graduates in the new methods and techniques of toxicology and various biochemical analyses. - Training of qualified personnel fully in line with the labour market in the Eloued region. - Pollution is one of the contemporary problems, which requires treatment by new methods; this training gives graduates mastering these methods. - Creation of research axes treat and develop the national economy, by risk assessment of new products and medicines. - Research for human health (effects of pesticides and drugs). |

Master's

| Department | Specialties | Number of students (M1) | Number of students (M2) |
|--|-----------------------------------|-------------------------|-------------------------|
| Department of Biology | Biodiversity and environment | 60 | 105 |
| | Biodiversity and plant physiology | 80 | 113 |
| Department of Agronomy | Plant production | 79 | 96 |
| Department of Molecular and Cellular Biology | Applied Biochemistry | 145 | 178 |
| | Toxicology | 154 | 174 |
| Total | | 518 | 666 |

| Department | Specialties | Objectives |
|------------------------|--|---|
| Department of Biology | biodiversity and environment (Master) | <p>The objective of this Master is to have students and teachers work together in the same training in order to facilitate their involvement in national bodies related to environmental issues. The aim is to provide students with a good theoretical and practical knowledge of the environment so that they can contribute to the understanding and qualitative and quantitative resolution of environmental problems.</p> <p>By associating basic teaching units, discovery units, methodological and transversal development units, as well as workshops and units to the student's free choice, the architecture of the training must make it possible to achieve the objective set.</p> <p>The main purpose of the diploma is the preparation for a research activity in the public or private sector. The specialists in this field will have the task of intervening in a wide range of environmental professions such as the protection and management of natural spaces, the prevention and treatment of pollution, the planning of the territory and the living environment, health protection and social and legal management of the environment. Thus, their field of intervention ranges from natural sciences to social issues. Moreover, thanks to the breadth and quality of their training, they will be called upon to be active in the most varied professional fields such as research, teaching, in design offices for the environment or public administration, or in the industry.</p> |
| | Biodiversity and plant physiology (master) | <p>The Master in Biodiversity and Plant Physiology offers training covering all aspects of plant biology, that is to say, from the functioning of plants at the level of their cells and molecules to the exploitation of their products through the plant as an organism interacting with its biotic and abiotic environment.</p> <p>Among the objectives of this master's degree is to provide the student with a complete theoretical and practical training after which he will have mastered the principles of plant biology, cellular and molecular and ethnobotanical concepts and ethnopharmacology techniques for extracting and identifying secondary metabolites; the criteria for taxonomic identification as well as all the industrial aspects involved in the process of upgrading and industrial and commercial exploitation of natural substances .</p> <p>Train students with the knowledge and skills required to integrate research and particularly to pursue studies at the doctoral level, in the field of plant valorisation or in any other field of cell and molecular biology</p> <p>Like all living beings, plants are assemblages of molecules and specialized cells. Based on general and more specific teachings of cellular and molecular biology, the plant biology part presents the development, metabolism and defence reactions of plants. However, the use of plant resources 'offers specific multidisciplinary courses, on an in-depth theoretical basis in biology and physiology. It is therefore a course that primarily, but not exclusively, has a research orientation, that is to say allowing access to doctoral studies.</p> |
| Department of Agronomy | Plant production (Master) | <p>Students able to diagnose problems of agronomic type, production systems and streams protection and valorisation of resources. Scientists understanding complex processes at various scales. the design of plant health management, the application of which involves all methods satisfying both economic, toxicological and ecological requirements, and giving priority to the deliberate</p> |

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| | | <p>implementation of the natural elements and respecting the tolerance thresholds.</p> <p>Innovators called upon to design new models of production and management of plant health, new processes in response to various major challenges, reconciling, combining food and health, agriculture and the environment.</p> |
| <p>Department of Molecular and Cellular Biology</p> | <p>Applied Biochemistry (Master)</p> | <p>The Master's degree in Applied Biochemistry is intended for students who wish to continue their initial undergraduate training in a high-level teaching and research course in the field of biochemistry. They will benefit from training combining pharmacology, immunology, toxicology, biochemical analysis, proteomics and structural identification techniques that prepare them for the fields of basic and applied research in pharmaco-toxicology and medical biochemistry. Parallel training in biostatistics and bioinformatics will enable them to acquire and master theoretical concepts and methods for molecular modelling of biological macromolecules (proteins and DNA) or rational design of drugs and/or bioactive molecules.</p> |
| | <p>Toxicology (Master)</p> | <p>The Applied Toxicology Master course is intended for students who wish to continue their initial undergraduate training in a high-level teaching and research course in the field of toxicology. They will benefit from training combining pharmacology, immunology, toxicology, biochemical analysis, proteomics and structural identification techniques that prepare them for the fields of basic and applied research in pharmaco-toxicology and medical biochemistry. Parallel training in biostatistics and bioinformatics will enable them to acquire and master theoretical concepts and methods for molecular modelling of biological macromolecules or rational design of drugs and/or bioactive molecules.</p> |

Doctorate

| Department | Specialties | Number of students |
|--|--|--------------------|
| Department of Biology | Ecology and Environment | 10 |
| | Biodiversity and Plant Ecology | 02 |
| | Animal ecology | 02 |
| | Biodiversity and environment | 01 |
| Department of Agronomy | Plant production | 06 |
| | Agro-pastoralism | 03 |
| | Animal production | 06 |
| | Soil and water | 06 |
| | Improvement of plants Production and sustainable agriculture | 03 |
| Department of Molecular and Cellular Biology | Applied Biochemistry | 12 |
| | Toxicology | 12 |
| | Plant biology and physiology | 03 |
| Total | | 66 |

| Department | Specialties | |
|------------------------|--|---|
| Department of Biology | Ecology and Environment | The objectives assigned to this doctoral training are aimed at satisfying requests from the economic social sector, addressing climate change and sustainable development concerns and also responding to an increasingly pressing demand from graduate students and the need for leadership in the ecology and environment specialties taught in the establishment of higher education and even other sectors. The number of students in this field, Ecology and Environment, continues to increase from one year to another. Currently the Faculty of Natural and Life Sciences of El Oued University have more than 3,000 students, more than 400 of whom are in the Ecology and Environment stream. The specificity of this sector and the importance of practical lessons, and more particularly field work, require competent and consistent guidance. Our goal is to train teachers in the different specialties of ecology in order to ensure quality supervision for graduation students. In order to do this, PhD students must be taught non-acquired techniques and their training must be reinforced by speeches complementary to their graduation training, and they must be involved in teaching, seminars and internships. Doctoral students must be well trained for easy integration into professional life. Finally, when carrying out their thesis projects, it is necessary to develop and enhance the skills of doctoral students, to integrate them in a flexible way in the research and/or training units. |
| | Biodiversity and Plant Ecology | |
| | Animal ecology | |
| | Biodiversity and environment | |
| Department of Agronomy | Plant production | The valorisation of the use of hydrogel as an effective means for the increase of water retention capacity by the soil and therefore the improvement of agricultural production. Determination of the optimum amount of hydrogel added for each soil type. Improved sustainability of agricultural soils to achieve high agricultural yields and qualities. Study of the feasibility of using bio-pesticides and spontaneous plants in the biological control of some pests. Determining the ideal amount of water required for optimal plant growth to avoid or minimize the problem of water waste. The determination of strategic crops and agricultural waste recoverable for incorporation in the rationing of livestock (sheep, goats, camels, cattle, etc.). Determination of the nutrient values of these crops and agricultural wastes. Study and determination of appropriate methods of preparation, presentation and preservation of food made from agricultural waste and local strategic cultivation. The incorporation of food produced into the rationing of livestock. The |
| | Agro-pastoralism | |
| | Animal production | |
| | Soil and water | |
| | Improvement of plants Production and sustainable agriculture | |

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| | | determination of the effect of food produced in the production and reproduction performance of supplemented animals. Determining the effect of produced foods on the productivity and quality of milk and meat produced. Study of the effect of the incorporation of some dietary supplements such as vitamin C, E and selenium on milk yield and quality as well as udder health. Study of the effect of feeding behaviour (composition, duration, frequency of distribution, etc.) on milk and beef production of farm animals.) Study of the effect of incorporating some supplements such as vitamin C, E and others... in the feed ration on animal performance and welfare and consequently |
| Department of Molecular and Cellular Biology | Applied Biochemistry | This training aims to train scientifically qualified students, able to have a thorough knowledge of the chosen specialty and conduct research in the SNV field, in the interest of innovation on the one hand and in the service of the objectives of local and national development. In addition, the training allows the consolidation of the previous achievements of the sector in the chosen specialty, the initiation to research methodology and scientific writing. It is also expected that the coexistence of three different profiles of PhD students in this course will lead to cost-effective scientific interactions and exchanges. The highly studied choice of the contents of the courses will allow training competent and informed teachers/researchers on the current research in the option they choose. |
| | Toxicology | |
| | Plant biology and physiology | |

General Statistic

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|--|--|------------------------|
| Number of Students | Department of Biology | 599 |
| | Department of Agronomy | 271 |
| | Department of Molecular and Cellular Biology | 1066 |
| | First year + Second year | 1447 |
| | Total | 3383 |
| Number of hours for each subject | First year + Second year | 750h / year |
| | Bachelor (all subjects) | 750h/ year |
| | Master's (all subjects) | 750h/ year |
| | Doctorates (all subjects) | 200h/year |
| Students per Class | From course | 200 (amphitheatre) |
| | From TD | 40 |
| Percentage of international students | | 0 % |
| Percentage of female students | | 94 % |
| Annual school budget for all scholarships | | 2 070 000,00 dz |

Photography



Dr. Abdelmalek Zaater
Dean of the Faculty of
Life and Natural Sciences



Dr. Mehdi Selmane
Vice-Dean for Post-Graduation,
Scientific Research and External
Relations



Dr. Ammar Touhami Laiche
Vice-Dean for Education and
students' Affairs



Dr. Smail Mehda
Head of the Department
of Agronomy



Mr. Yacine Kasmi
Deputy Head of the Department
of Agronomy for Education and
Students' Affairs



Dr. Zeid Alia
Deputy Head of the Department
of Agronomy for Post-
Graduation, Scientific Research
and External Relations



Dr. El Amine Khechekhouche
Deputy Head of the Department of
Biology for Education and
Students' Affairs



Dr. Hacene Laouedj
Head of the Department
of Biology



Ms. Aida Bousbia Brahim
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of Biology for Post-Graduation,
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Dr. Mohammed Laid Tlili
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Molecular and Cellular
Biology



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