

Programme Catalogue

College Name	College Abbreviation
Agricultural Engineering Sciences	AES
Department Name (in English)	Department Abbreviation
Forestry	FORS
Department Name (in Kurdish)	
دارستان	
Department Name (in Arabic)	
غابات	
1. Qualification awarded	
Bachelor of Science in Forestry	
2. Length of programme	
4 Years	
3. Number of credits	
240 ECTS credits	
4. Level of qualification according to the National Qualification Framework and the European Qualifications Framework	
First cycle, Bachelor's degree	
5. Field(s) of study (e.g. ISCED-F)	
ISCED-F 1995	
6. Specific admission requirements (if applicable)	
7. Specific arrangements for recognition of prior learning (formal, non-formal and informal) (if applicable)	
The programme may recognize formal credits earned in formal context if these credits are relevant to the programme and confirmed by the Transcript of Records.	
8. Qualification requirements and regulations, including graduation requirements	
Students should successfully complete all the core courses and collect 240 ECTS credits	
9. Profile of the programme	
[Include a brief description of the main focus of the programme]	
10. Programme Educational Objectives	
1- The department of forestry provides well qualified professionals in the field of forestry. It furnishes students with the necessary education to face forestry problems in Kurdistan region and to make sound decisions concerning conservation of forest resources and assurance of the sustainable yield of market and non-market goods and services. 2- The department strongly focuses on how to establish sustainable forest plantations, protection, care of woodland and natural forests. 3- In this department we are trying to provide high quality education and research programs to enable students to analyze issues of Silviculture and Forest Ecology. To understand the essentials of Agroforestry, Urban forestry and Conservation of Forest Resources. We also prepare students to be able to deal with the issues of Forest Management and Economics, and to know how to utilize the forest and manufacture wood products. 4- The department of forestry implements its goals and objectives through a well-balanced integration between education, research, and outreach activities. Generally, the curriculum has been developed to revolve around several areas of interest.	

11. Programme learning outcomes

1. Demonstrate a comprehensive understanding of forest and rangeland ecosystems, including their establishment, growth, composition, conservation, and management across various forest types. Apply effective management and restoration strategies to sustain forests, rangelands, and wildlife health, particularly under environmental stress conditions.
2. Produce high-quality seedlings — using nursery techniques, propagation methods, and breeding techniques for afforestation and reforestation.
3. Manage urban including tree species selection, planting, infrastructure, risk assessment, and community engagement.
4. Analyze wood using physical, chemical, anatomical, and mechanical methods (microscopy and macroscopy), and develop the best forest harvesting plans to maximize timber benefits through wood industry principles.
5. Identify and manage insect pests and diseases — through diversity monitoring, diagnosis, and preventive measures.
6. Apply conservation and soil properties principles — protecting forest resources, controlling soil erosion, and maintaining soil and ecosystem health.
7. Design and analyze experiments — using research methodology, statistical tools, and regression models to interpret forestry data.
8. Use GIS and remote sensing tools—including ERDAS IMAGINE and ArcGIS—to perform spatial analysis and support effective land use planning.
9. The ability of plant identification and classification to understand the diversity, species relationships and their role in forest managing and conservation.
10. Apply agroforestry and sustainable land use practices — integrating trees and crops, and managing grazing systems.
11. Understand genetics and breeding — including selecting parent trees, managing genetic variation, and applying controlled breeding methods.
12. Develop professional and critical thinking skills — solving forestry problems, conducting cost-benefit analysis, and leading research projects.

12. Programme structure diagram with credits

College of Agricultural Engineering Sciences				AES	Version No.: 1		
Department of Forestry				FORS	Version Date: 06/06/2025		
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
Non-Timber Forest Products 4 ECTS FORS B110C	Statistics 6 ECTS BASC B124H	Regression Analysis 5 ECTS FORS B230H	Plant Taxonomy 6 ECTS FORS B240H	Urban Forestry 5 ECTS FORS B350H	Vegetative Propagation Techniques 5 ECTS FORS B360H	Forest Utilization 5 ECTS FORS B470H	Project 12 ECTS FORS B480P
General Geology 6 ECTS BASC B120H	Organic Chemistry 6 ECTS BASC B123H	Principle of Silviculture 4 ECTS FORS B231C	Forest Nursery 5 ECTS FORS B241H	Forest Mensuration 5 ECTS FORS B351H	Forest Plantation 5 ECTS FORS B361H	Tree Breeding 5 ECTS FORS B471H	Internship 6 ECTS FORS B481F
Principle of Surveying and levelling 6 ECTS BASC B127H	Engineering Drawing 6 ECTS BASC B115L	Forest Ecology 6 ECTS FORS B232H	Remote Sensing and GIS 5 ECTS FORS B242H	Tree Physiology 5 ECTS FORS B352H	Forest Road Engineering 5 ECTS FORS B362H	Forest Economics 5 ECTS FORS B472H	Wood Industries 6 ECTS FORS B482H
General Botany 6 ECTS BASC B119H	Kurdology 4 ECTS BASC B114C	Forest Soil 5 ECTS SWSC B234H	Forest Policy 4 ECTS FORS B243C	Dendrology 5 ECTS FORS B353H	Forest Management 5 ECTS FORS B363H	Agroforestry 5 ECTS FORS B473H	Elective 6 ECTS
Academic Debate 4 ECTS BASC B112C	English Language II 4 ECTS BASC B113C	Recreation and Ecotourism 4 ECTS ENEC B232C	Forest Pathology 5 ECTS PLPR B246H	Wildlife Management 5 ECTS FORS B354H	Experimental Design and Analysis 5 ECTS FLDC B351H	Wood Sciences and Technology 5 ECTS FORS B474H	0 ECTS
English Language I 4 ECTS BASC B111C	Computer Skills 4 ECTS BASC B110H	Genetics 6 ECTS BASC B129H	Forest Entomology 5 ECTS PLPR B245H	Elective 5 ECTS	Elective 5 ECTS	Elective 5 ECTS	0 ECTS
Fall Electives	Watershed Management 5 ECTS FORS B355H	Soil Conservation 5 ECTS SWSC B358H	Forest Modelling 5 ECTS FORS B475H	Forest Inventory 5 ECTS FORS B476H	0 ECTS	0 ECTS	0 ECTS
Spring Electives	Rangeland Ecology 5 ECTS FORS B364H	Rangeland Management 5 ECTS FORS B365H	Forest Conservation 6 ECTS FORS B483H	Ecological Restoration 6 ECTS FORS B484H	0 ECTS	0 ECTS	0 ECTS

13. Mode of Study

Full time

14. Examination regulations and grading scale

The following grading scale is used:

% Points	Grade
90 – 100	Excellent
80 - < 90	Very Good
70 - < 80	Good
60 - < 70	Medium
50 - < 60	Pass
0 - < 50	Fail

15. Mobility window (if applicable)

16. Work placement(s)/internships (if applicable)

The programme includes a 6 ECTS internship opportunity in semester 8

17. Work-based learning (if applicable)

18. Programme director or equivalent

Dr. Jotyar Jassim Muhammed Jotyar.muhammed@uod.ac
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19. Occupational profiles of graduates

We offer diverse areas of studies to enable student to have careers in public and private sectors, which include:

- Ministry of Agriculture / forestry
- Forse of environment conservation
- Directorate of environment
- High department education

- Research institutes
- Workshop in forest sciences

20. Access to further studies

Graduates can apply for admission to higher diploma and 2nd cycle (Master) studies in related disciplines. A reasonable number of the graduated students (about 20 %) can reach the second level of the study (MSc).

21. Academic Staff

Full Name	Qualification	Academic title	Email
Hishyar Hazim Sulaiman Sulaiman	PhD	Assistant Professor	hishyar.sulaiman@uod.ac
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22. Facilities and Resources (Lecture halls, Labs, etc.)

The department uses these facilities:

Type	Quantity	Capacity (students)	Type of use	Equipment included
Lecture Hall 1	1	26	Dedicated	Projector, whiteboard
Lecture Hall 2	1	39	Dedicated	Projector, whiteboard
Lecture Hall 3	1	23	Dedicated	Projector, whiteboard
Lecture Hall 4	1	57	Dedicated	Projector, whiteboard
Lecture Hall 5	1	10	Dedicated	Projector, whiteboard
Computer Lab 1	1	28	Dedicated	23 Desktop computers, projector, whiteboard, internet
Computer Lab 2	2	41	Dedicated	20 Desktop computers, projector, whiteboard, internet
Dendrology lab	1	46	Dedicated	46 benches
Wood science Lab	1	38	Dedicated	38 benches
Forest Mensuration Lab	1	34	Dedicated	34 benches
Silviculture Lab	1	38	Dedicated	38 benches
Wildlife management	1	20	Dedicated	20 benches
Herbarium Lab	1	5	Dedicated	5 benches

23. Accreditation and recognition

The programme is officially recognized by the Ministry of Higher Education and Scientific Research of the Kurdistan Region – Iraq, as well as by the Ministry of Higher Education and Scientific Research of Iraq.

