الملحق (2): دليل البرنامج الدراسي

دليل البرنامج الدراسي | 2025-2026 | Program Catalogue

Northern Technical University

First Cycle - Bachelor's degree (B.Sc.) – Plant production techniques

بكالوريوس تقنيات علوم زراعية/ تقنيات الإنتاج النباتي



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1. Mission & Vision Statement:

Vision Statement

The faculty members at the College of Agricultural Technology/Mosul - Department of Plant Production Technologies at the Northern Technical University believe that students come to understand the specialty of agricultural science technologies through a combination of coursework, laboratory experiences, research, and field work. The combination of educational methods leads students to a balanced understanding of the scientific methods that agricultural scientists use to make observations, develop ideas, and create theories about plants. Small class sizes in the biology program foster a close working relationship between faculty and students in an informal and caring atmosphere.

Mission statement

The academic staff in the Department of Plant Production Technologies pursue a multifaceted mission at Northern Technical University. The program seeks to provide all students with basic knowledge of agricultural science techniques and a deeper understanding of their chosen area of focus in agricultural science. The curriculum and advising are designed to prepare graduates for their future careers, whether they choose to work as agricultural technical engineers specializing in botany or plant production or pursue advanced scientific study in agricultural sciences. In addition, biology courses provide essential laboratory science experience for students seeking to complete general education requirements.

2. Program Specification:

Program code:	BSc. PLP	**ECTS**	240
Duration:	4 Years: 8 Semesters	**Method of Attendance:**	Full Time

Level 1 exposes students to the fundamentals of agricultural science and is suitable for progression to all programmes within the Agricultural Sciences portfolio. Core programme topics are covered at Level 2 to prepare for the research-led specialist subject units at Levels 3 and 4. Thus, the Plant Production Technology graduate is trained to appreciate how research influences teaching, in accordance with the mission statements of the University and the School.

At levels 2, 3 and 4, students are free to choose more than half of their modules provided they choose a combination of modules that enable them to understand modern plant production techniques to ensure the breadth of knowledge expected of a graduate with a Bachelor of Science in Agricultural Technology. This allows students to develop their broad interests in agricultural science. Decisions about what to study are made with input from personal tutors.

The research spirit is developed and reinforced from the outset through practical exercises, which are either included in lecture modules or taught in dedicated practical modules, research seminars, tutorials, and PowerPoint presentations which students must pass during the programme levels to progress to the next level. At level 4, all students undertake an independent capstone project, which may be a field research project or a laboratory research project involving data analysis worth one credit hour.

Academic tutorials are held at Levels I and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level I and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

3- Program Goals:

1-Providing comprehensive education in plant production technology that focuses on scientific thinking and problem solving.

2-Preparing students for a wide range of post-bachelor's paths, including graduate studies, vocational training programs, or entry-level jobs in any field of work in either the public or private sector.

3- prepare students for a wide variety of post-baccalaureate paths, including graduate school, professional training programs, or entry level jobs in any area of Agricultural Science.

4- provide extensive hands-on training in electronic technology, statistical analysis laboratory skills, and field techniques.

5- enrich students with opportunities for alternative education in the area of Plant production techniques through undergraduate research, internships, and study-abroad.

4. Student Learning Outcomes:

Agriculture is the lifeblood of life and the continuity of life on the planet depends on it to provide the necessary food for its population that is increasing day by day. The Agricultural Technical College has contributed to this through the Department of Plant Production Technologies by preparing graduates with the title of Agricultural Technical Engineer armed with the sciences that enable them to perform this role. Graduates obtain information about the technical, technical, field scientific and theoretical aspects of agricultural sciences and use basic knowledge to achieve broader concepts. The department offers a bachelor's degree in Plant Production Technologies with a focus on horticultural sciences and field crops; in addition, the department offers courses for a large number of students from other departments and supports pre-professional programs. The curriculum and experiences of Plant Production are designed to prepare students, in part, to enter graduate programs, technical professions and education.

Work on the basic axes in plant biotechnology as follows: -

1- Using genetic engineering programs and plant tissue culture techniques to improve plant production.

2- Implementing field and horticultural crop production projects and beekeeping projects.

3- Economic management of agricultural projects.

4- Working in agricultural laboratories of all kinds, grading grains.

5- Using protected agriculture techniques such as tunnels, greenhouses and plastic in the production of horticultural crops.

6- Working in nurseries and propagating ornamental plants.

7- Solving problems by conducting researches, collecting data and analyzing it statistically.

5. Academic Staff:

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6. Credits, Grading and GPA:

***Credits**:*

The Department of Plant Production Technologies at the Technical College of Agriculture/Mosul, Northern Technical University follows the Bologna Process through the European Credit System (ECTS). The total number of degree programs taught according to the European Credit System is 240, i.e. 30 European Credits per semester. The European Credit System is equivalent to 25 student hours of work, including structured and unstructured workload.

Grading:

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME مخطط الدرجات				
Group	**Grede**	**التقدير**	**Marks (%)**	**Definition**
Success Group (50-100)	A - Excellent	امتياز	90-100	Outstanding Performance
	B - Very Good	جيد جدا	80-90	Above average with some errors
	C - Good	جيد	70-80	Sound work with notable errors
	D - Satisfactory	متوسط	60-70	Fair but with major shortcomings
	E - Sufficient	مقبول	50-60	Work meets minimum criteria
Fail Group (0 - 49)	FX - Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F - Fail	راسب	(0-45)	Considerable amount of work required

Note:
Marks with decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjournment to marks awarded by the original marker(s) will be the. automatic rounding outlined above.

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of 4-year B.Sc. degrees:

CGPA= [(1^{st} module score x ECTS) + (2^{sd} module score x ECTS) + ...]/ 240

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request

7- Curriculum/Modules

Semester 1 │ 30 ECTS │ 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request
NTU 100	Democracy and human rights	33	17	2	B	
NTU 101	English Language	33	17	2	B	
TAMO 100	General Chemistry	78	72	6	B	
PLP 100	General Insects	78	72	6	C	
PLP 101	General Botany	93	82	7	C	
PAP 102	Principle of Horticulture	93	82	7	C	

NTU 102	Computer	48	27	3	B	
NTU 103	Arabic Language	33	17	2	B	
TAMO 101	Occupational safety	33	17	2	B	
PLP 103	Fundamental of soil science	78	97	7	C	
PLP 104	Plant anatomy	78	122	8	C	
PLP 105	Principle of genetics	78	122	8	C	

Semester 2 │ 30 ECTS │ 1 ECTS = 25 hrs.

Semester 3 │ 30 ECTS │ 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request
NTU 200	AL Baath regime Crimes in Iraq	33	17	2	B	
NTU 201	English language	33	17	2	B	
TOMA 200	Biochemistry	63	87	6	S	
PLP 200	Plant Physiology	93	82	7	C	
PLP 201	Field Crop	78	72	6	C	
PLP 202	Vegetable production	78	97	7	C	

Semester 4 │ 30 ECTS │ 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request
NTU 202	Computer	48	27	3	B	
NTU 203	Arabic Language	33	17	2	B	
PLP 203	Fruit Production	93	132	9	C	
PLP 204	Agricultural Pullers & Machinery	78	122	8	C	
PLP 205	Forestry	78	122	8	C	

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request

TAMO 300	Plane surveying & Engineering Drawing	78	72	6	S	
PLP 300	Fertilizers & Fertility	78	72	6	C	
PLP 301	Nursery & Plant Propagation	93	57	6	C	
PLP 302	Plant Growth Regulates	93	57	6	C	
PLP 303	Forage Crop	78	72	6	C	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs.

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request
TAMO 301	Statistics, design and analysis of experiments	78	72	6	S	
PLP304	Floriculture & Landscape	93	32	5	C	
PLP 305	Organic Agriculture	78	47	5	C	
PLP 306	Industrial Crops	93	32	5	C	
PLP 307	Natural Resources Economics	63	37	4	B	
PLP 308	Plant Nutrition	93	32	5	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs.

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request
TAMO 400	Scientific research methodology	33	17	2	B	
PLP 400	Plant Breeding	78	97	7	C	
PLP 401	Plant Disease	93	82	7	C	
PLP 402	Post-harvest physiology & Storage	93	82	7	C	
PLP 403	Seed inspection and certification	93	82	7	C	

Semester 8 │ 30 ECTS │ 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre - request
TAMO 401	Employability skills	33	17	2	B	
PLP 404	Weeds and weed control	78	97	7	C	
PLP 405	Plant Tissue Culture	93	82	7	C	
PLP 406	Economic insects	93	57	6	C	
PLP 407	Harvesting Equipment	93	57	6	C	
PLP 408	Graduation project	30	20	2	C	

8. Contact:

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