

*Republic of Iraq
Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Directorate
Quality Assurance and Academic Accreditation*

ACADEMIC PROGRAM SPECIFICATION FORM FOR THE ACADEMIC year 2022-2023

University: Northern Technical University

College/ Institute: Technical Institute/ Hawija

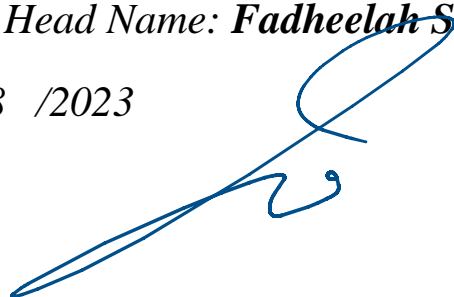
Department: Plant Production Techniques

Data Of Form Completion: 31/8/2023

Department Head Name: ~~Fadheelah~~ Salman Azeez

Date: 31 / 8 /2023

Signature



Dean's Assistant for scientific Affairs: Dr. Suhail N. Shahab

Date: 31 / 8 /2023



Signature

Dean's name: Omar K. Ahmed

Data : 31/8/2023

Signature



TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW :PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This programme specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided .it is supported by a specification for each course that contributes to the programme.

1. Teaching Institute	Technical Institute/ Hawija
2. University Department/Centre	Plant Production Techniques
3. Programme Title	agricultural
4. Title Of Final Award	Technical Diploma
5. Modes Of Attendance Offered	Courses
6. Accreditation	No
7. Other External Influences	
8. Date Of Preparation/ Revision Of This Specification	31/8/2023
9. Aims Of The Programme	

The program aims to graduate qualified technical cadres capable of improving agricultural production through the ability in the field of plant breeding and improvement, production of field and vegetable crops, resistance to plant diseases and jungles, the ability to manage and breed beehives, maintenance of agricultural machinery and equipment and their optimal use in agriculture, and the ability to design and engineer gardens and create Greenhouses and plastics are well managed.

1. Learning Outcomes, Teaching, Learning And Assessment Methods

- A. knowledge and understanding
A1. Study of plant breeding and improvement.
A2. Learn about plant varieties
A3. Learn about agricultural machinery and equipment
A4. Learn about beehives, greenhouses, and glass houses
A5. Learn about diseases, insects and bush plants.

B. Subject -Specific Skills

- B1. The ability in the field of plant breeding and improvement, the production of field crops and vegetable crops, and the control of diseases, insects and jungles
B2. Plan, design and conduct research using appropriate methodologies
B3. The ability to maintain agricultural machinery and equipment and use them optimally in agriculture
B4. The ability to design and engineer gardens, construct greenhouses and plastic houses, and manage them well.

Teaching And Learning Methods

Theoretical explanation of the material and the use of data show and presentation of educational videos for students as well as reports of practical field experiments assigned to students and scientific trips to the departments of agriculture, fields and silos.

Assessment Methods

- 1- daily tests AND quarterly and the annual
- 2- Practical tests in the field
- 3- Weekly reports

C. Thinking Skills

- C1. Awareness of the student during education
C2. Student participation in class activities and delivery of assignment on time
C3. Dealing chemicals and agricultural products effectively and safely, in compliance with legislation and laws
C4. The ability to continuously learn for life, to continuously improve professional skills and knowledge.

Teaching And Learning Methods

- 1- Listen carefully to the teacher's explanation.
- 2- Knowing the role of the teacher and scientists in life
- 3- That the student feels non-partisanship and discrimination among students by the teacher
- 4- The student's attention to the quiet and cleanliness of the hall

Assessment Methods

- 1- Note the student through his posts
- 2- Interviewing the student for practical tests
- 3- The student's cumulative record through supervisory educational committees located in the department

4- Giving the student assignments and exams and asking to bring reports on the topic.

D. General And Transferred Skills (Other Skills Relevant To Employability And Personal Development).

- D1. High skills in the field inspection process
- D2. Good skills in performing all crop servicing operations required to reach the highest production
- D3. High skills in the planting of roads, sand dune stabilization
- D4. Highly skilled in conducting seed certification operations
- D5. Knowledge of salinity resistance methods
- D6. Have good skills on how to conduct scientific research, take data and write research

Teaching And Learning Methods

- 1- Explanation and clarification
- 2- Practical lessons in the field
- 3- Reports
- 4- Graduation projects for students

Assessment Methods

- 1- Theoretical tests.
- 2- Practical tests.
- 3- Reports.

11. Programme Structure

Level/Year	Course Or Course Code	Course Or Module Title	Credit Hours	
			theoretical	the operation
<i>The first stage</i>	NTU100	Human Rights and Democracy	2	-
<i>The first stage</i>	NTU101	English language	2	-
<i>The first stage</i>	NTU102	1Computer Application	1	2
<i>The first stage</i>	NTU103	2Computer Application	1	2
<i>The first stage</i>	NTU104	Arabic language	2	-
<i>The first stage</i>	NTU105	Sport	1	1
<i>The first stage</i>	NTU107	French language	2	-
<i>The first stage</i>	TIH101	Statistic &Experiment Design	2	1
<i>The first stage</i>	TIH102	Renewable Energy Systems	1	1
<i>The first stage</i>	TIH103	Soil Science	1	1
<i>The first stage</i>	PPT101	Horticulture Principles	1	2
<i>The first stage</i>	PPT102	Agronomy Principles	1	2
<i>The first stage</i>	PPT103	Plant Protection	1	1
<i>The first stage</i>	PPT104	Nursery & Forestry	1	1
<i>The first stage</i>	PPT105	Plant Environment	1	1
<i>The first stage</i>	PPT106	Fruit Production	1	2
<i>The first stage</i>	PPT107	Plant Physiology	1	1
<i>The first stage</i>	PPT108	Vegetation Production	2	2
<i>The first stage</i>	PPT109	General Insects	1	1
<i>The first stage</i>	PPT110	Agri.Machine&Equipment	1	2
<i>The first stage</i>	PPT111	Tissue culture	1	1

11. Programme Structure

Level/Year	Course Or Course Code	Course Or Module Title	Credit Hours	
			theoretical	the operation
<i>The second phase</i>	012NTU	English language	2	-
<i>The second phase</i>	022NTU	1Computer Application	1	2
<i>The second phase</i>	032NTU	2Computer Application	1	2
<i>The second phase</i>	NTU204	Professional Ethics	2	-
<i>The second phase</i>	TIH201	Medicinal Plants Production	1	2
<i>The second phase</i>	TIH202	Secondary Compounds Chemistry	1	1
<i>The second phase</i>	TIH203	Farm management	1	1
<i>The second phase</i>	PPT201	Drying &Reserving Plants	1	2
<i>The second phase</i>	PPT202	Medicinal Plants Diseases	1	2
<i>The second phase</i>	PPT203	Medicinal Plants Environment & Classification	1	2
<i>The second phase</i>	PPT204	Organic Chemistry	1	1
<i>The second phase</i>	PPT205	Aromatic & Floriculture Medicinal Plants	1	1
<i>The second phase</i>	PPT206	Drugs Processing	1	2
<i>The second phase</i>	PPT207	Nurseries & Propagation	1	2
<i>The second phase</i>	PPT208	Medicinal Plants Pesticides	1	2
<i>The second phase</i>	PPT209	Plants Nutrition	1	2
<i>The second phase</i>	PPT210	Project	-	3

12. Personal Development Planning

1. Thinking and planning small projects that are the beginning of future things
2. Forming groups of students to expel bees and multiply hives
3. Students ask for recent reports interested in knowing the technological development in their field of specialization
4. Forcing students to collect plants and identify their varieties and types

13 . Admission Criterion

The basic criterion is followed in accepting the department's students by having their names appear in the central admission lists for preparatory school graduates, as well as accepting a certain number of professional study graduates who chose the institute in the central application form, each according to their average.

14. Key Sources Of Information About The Programme

- 1- Al-Sahuki, Medhat and Hamid Glob Ali and Muhammad Ghaffar Ahmad (1982). Plant breeding and improvement.
- 2- Morsi, Mustafa Ali. Seeds
- 3- Ibrahim Kaddouri Qaddo. general entomology
- 4- Brig Kopal. Principles of horticulture.
- 5-Kord Boimer. Principles of Cultivation of Field Crops.
- 6- Abdel Hamid Ahmed Younes. Cereals and legumes
- 7- Translator (AH Bannock). Poultry food and nutrition
- 8- Adnan Nasser is wanted. Vegetable production theoretical and practical
- 9- Ali Hussein Majbas. The basics of planting protection
- 10- Abdullah Najm Al-Ani. Principles of soil science.
- 11- Dr. Abdul-Razzaq Abdul-Latif Jassim and Abdul-Hussein Jassim Sakhi. Machines, equipment and agricultural machinery
- 12- The Nurseries . Dr.K.M.Ibrahim and S.H.MAJeed . 2001

Curriculum Skills map

Please tick in relevant boxes where individual programme learning outcomes are being assessed

programme Learning outcomes

General and transferable skills or (other skills relevant to employability and personal development)				thinking skills				subject - specific skills				knowledge and understanding				Core (C) Title or Option	Course Title	Course Code	Level/ Year
D4	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Statistic &Experiment Design	TIH101	First Year
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Fruit Production	PPT106	
																obligatory	Plant Physiology	PPT107	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Vegetation Production	PPT108	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	Facultative	General Insects	PPT109	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Agri.Machine &Equipment	PPT110	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Computer Application2	NTU103	

Curriculum Skills map

Curriculum Skills map

Please tick in relevant boxes where individual programme learning outcomes are being assessed

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Computing

language

INFORMATICS

programme Learning outcomes																Core (C) Title or Option	Course Title	Course Code	Level/ Year
General and transferable skills or (other skills relevant to employability and personal development)				thinking skills				subject - specific skills				knowledge and understanding							
D4	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Computer Application2	NTU203	second Year
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Secondary Compounds Chemistry	TIH202	
																facultative	Farm management	TIH203	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Drugs Processing	PPT206	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Nurseries & Propagation	PPT207	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Medicinal Plants Pesticides	PPT208	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	facultative	Plants Nutrition	PPT209	
√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	obligatory	Project	PPT210	

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW :PROGRAMME REVIEW

COURSE SPECIFICATION

This course specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided .it is should be cross-referenced with the programme specification .

1. Teaching Institute	Technical Institute/ Hawija
2. University Department/Centre	Plant Production Techniques
3. Course Title/ Code	PPT100 /Winter Field Crops
4. Programme (S) To Which It Contributes	
5. Modes Of Attendance Offered	daily/weekly
6. Semester/Year	Semester
7. Number Of Hours Tuition (Total)	hours 166
8. Date Of Preparation/ Revision Of This Specification	8/8/2023
9. Aims Of The Programme	

Educating and training students, theoretically and practically, on how to prepare the appropriate shrine for growing crops, planting crops according to the method of growing each of them, and performing all crop service operations required to reach the highest production

1. Learning Outcomes, Teaching, Learning And Assessment Methods

A. Knowledge And Understanding

- A1. Learn how to prepare the appropriate shrine for the cultivation of crops
- A2. Learn how to cultivate the crop cultivation method according to each of them
- A3. Recognizes the crop service processes required to reach the highest production
- A4. Learn about the transformational processes of seeds and crop parts after harvest.

B. Subject -Specific Skills

- B1. He is working on preparing the appropriate shrine for the cultivation of crops.
- B2. He cultivates crops according to the method of growing each of them.
- B3. It performs the crop service operations required to reach the highest production.
- B4. Harvest operations.

Teaching And Learning Methods

Intensive theory lessons, data display with educational films, practical application in the field with every lecture

Assessment Methods

Commitment and attendance, surprise daily and monthly exams, and end-of-semester exams

C. Thinking Skills

- C1- Encouraging the student to learn modern science
- C2- Excite the student to learn and keep pace with development
- C 3- Teaching the student how to look at the future
- C 4- Developing the mind and a sense of responsibility is a duty for everyone

Teaching And Learning Methods

Scientific trips on modern silos and factories, carrying out practical experiments in the fields, writing reports

Assessment Methods

Discussing reports, discussing experiences, field tests

D - General And Transferred Skills (Other Skills Relevant To Employability And Personal Development).

- D1- To develop the student's mind to a higher level
- D 2- Staying away from routine and transferring the current culture from abroad
- D3- Applying the principle of intelligence in the agricultural field
- D 4- Promoting optimism and interaction with students

Course Structure

The week	hours	Required learning outcomes	Unit name and/or topic	Education method	Evaluation method
1-3	9	The importance and types of crops, seed diagnosis, problems affecting production, types of tillage and softening, learning modern and ancient farming methods	The importance of field crop production, economic importance, seed diagnosis, crop production problems, crop division, plowing and types of plows, farming methods.	An electronic/practical explanation	Exam
4-7	12	Identify crop types, learn about crop service processes, learn about plant morphology	Importance of wheat, barley, wheat, appropriate environmental conditions, planting date, amount of seed, fertilization, irrigation, growth stages, botanical description	An electronic/practical explanation	Exam
8-13	18	Identify crop types, learn about crop service processes, learn about plant morphology	The importance of sugar, leguminous and oil crops, appropriate environmental conditions, planting date, seed quantity, fertilization, irrigation, growth stages, botanical description	An electronic/practical explanation	Exam
14-15	6	Learn about agricultural rotations	Agricultural courses of all kinds, design, presentation of scientific films	An electronic/practical explanation	Exam

System Development Plan Scholastic

It requires continuous updating of study materials and the addition of everything new and innovative in the process of warehouse management, because the world is coming to the zero-based system for materials and relying on e-learning and attendance as an essential part because the benefit lies in the use of techniques and methods of searching for sources and applying what has been theoretically taken in practical tests.