


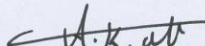
Republic of Iraq  
Ministry of Higher Education & Scientific Research  
Supervision and Scientific Evaluation  
Directorate Quality Assurance and Academic Accreditation

## Academic Program Specification Form For The Academic


University: **University of Kufa**  
College: **Faculty of Agriculture**  
Department: **Department of Animal Production**  
Date of Form Completion: **6/6/2021**

  
Prof. Dr. Alaa Edan Hassan  
Dean's Name

Date: / /  
Signature

  
Prof. Dr. Ayad Khadim Ali  
Dean's Assistant For  
Scientific Affairs

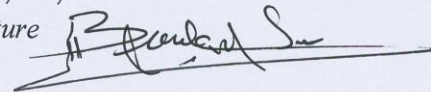
Date: / /  
Signature

  
Assist. Prof. Dr. Ammar H. Areaaer  
Head of Department

Date: / /  
Signature

Quality Assurance and University Performance Manager **Dr. Bashar Kadhim Hadi**

Date: / /  
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.

<b>1. Teaching Institution</b>	<b>University of Kufa</b>
<b>2. University Department/Centre</b>	<b>Faculty of Agriculture /Department of Animal production</b>
<b>3. Programme Title</b>	<b>Department of Animal production</b>
<b>4. Title of Final Award</b>	<b>BSc. In Agricultural sciences – Animal Production</b>
<b>5. Modes of Attendance offered</b>	<b>Semester</b>
<b>6. Accreditation</b>	<b>National Institutional Accreditation For Higher Education in Iraq Programmer Accreditation from a Council of Improvement Agricultural Education Quality</b>
<b>7. Other external influences</b>	<b>Field visits - summer training</b>
<b>8. Date of production/revision of this specification</b>	<b>6-6-2021</b>
<b>9. Aims of the Programme</b>	
A- Graduating national agricultural cadres in the fields of animal production (domestic birds, ruminants, and fish) with scientific knowledge and various mental, technical and professional skills to qualify them to work in the agricultural sectors to reach the optimum production of animal production and meet the local consumer's desires of eggs, poultry meat, red meat and milk In addition to fish meat.	
B - Preparing agricultural cadres with experience and know-how in how to use and adapt the latest developments in animal production technology to overcome problems and support investment in this field of animal production, in addition to raising awareness of the importance and safety of animal production products	
C- Publishing applied scientific research in the areas of animal production (domestic birds and ruminants) that contribute to scientific progress, solving problems faced by farm animal breeders and finding appropriate solutions to them that hinder improving production and quality, and supporting development plans.	

## 10. Learning Outcomes, Teaching, Learning and Assessment Methods

### **A. Knowledge and Understanding**

A1. Teaching students the theoretical foundations of the mechanics of the work of the various animal body systems to ensure that they are given the opportunity to deal with healthy biological animals

A2- Teaching students the management methods used in the various animal and poultry production projects and the alternatives in management methods in a way that ensures communication with the global development in technologies and the labor market needs

A3 - We teach students the correct standards and know the actual need of nutrients and other administrative requirements in a way that ensures the safety of the work of the various organs of the body in a way that meets obtaining the best production and at the lowest cost

A4- Teaching students the ethical aspects of dealing with animals and agricultural products in a way that ensures the safety of ethical dealing with animals and the safety of products in terms of health for the consumer

A 5 - Teaching students and guiding them to the educational and behavioral aspects in a way that directs the outputs of the educational institution in building a generation of graduates who carry the principles of noble values that reject the methods of societal corruption of all kinds.

### **B. Subject-specific skills**

B 1 - Providing the opportunity for practical performance to gain practical skills and experience in field dealing in animal production projects.

B 2 - Training students on the use of various laboratory equipment to ensure the availability of skill in the use of scientific techniques in the management of animal production projects

B 3 - Ensure that students are trained in methods of communicating with new information in the field of specialization to develop information and skills and the method of communicating information to the team participating in the productive project through training in drafting and giving lectures.

B 4- Training students to complete the stage of scientific research by applying the paragraphs of the scientific method in research and preparing the student to work in research and development centers or to complete his higher studies in the future.

### **Teaching and Learning Methods**

1- Using the method of communicating information through the lecture, using the blackboard, the data display device, the interactive lecture, and the presentation of the educational video, which provides an opportunity to view field or laboratory operations.

2- The participation of students in obtaining information by asking them to submit scientific reports on specific paragraphs of the curriculum, which ensures the expansion of the student's cognitive ability and training him on the means of accessing information to maintain the modernity of his information in the future.

3- Training students on the logical discussion method to reach results, as well as the method of conclusion

4- Training the student on educational commitment in behavior inside the lecture hall, laboratory or animal field, in order to ensure the rule of sound behavior in the educational institution and after graduation.

5- Learning through applied field practices and providing an opportunity for students to apply knowledge in the field.

### **Assessment methods**

1-Monthly exams

2-Daily exams (cues)

3- For practical exams

4- The final exam, both theoretical and practical

5- Evaluation through summer training. Through the absence of the student from attending and participating in the lecture and discussions that take place in it

### **C. Thinking Skills**

C1- The academic program adopts educational values in dealing with students to instill a desire and interaction among students to seek knowledge and seek to spread scientific benefit to society through workmanship and sincerity in achieving it.

C2 - Raising the ambition of students for achievement and excellence, developing self-confidence and the latent potential of young people, and the society's need for these human energies in construction.

C3- Focusing on the importance of fair competition in the development and prosperity of projects, and that the arena of success is open to persevering and honest people at work and winning markets for their products by adopting quality

C4 - Spreading the importance of the individual's contribution within the community and not relying on the efforts of others to avoid the emergence of a class of the unemployed within the group that is hidden under the achievements of the persevering and creative people in the group.

C-5 Spreading the culture of purifying society through society's rejection of the corrupt, deviant behavior and cheating in dealing with them, and not being deceived by offering advice to reform them to avoid the repercussions of the shameful act of the few on the reputation and dignity of the righteous society.

### **Teaching and Learning Methods**

1- Conducting educational and counseling seminars

2 - Honoring outstanding students to focus light on good models of behavior.

3- Encouraging students to take initiative by presenting ideas and pointing out bad behavior in the academic environment

4- Activating the work of the educational committees in the academic stages of the academic program

### **Assessment methods**

1- Conducting questionnaires for students to find out the opinions in the student community

2- Reports of the educational committees during the academic program stages

3- Assessing the frequency of emergence of good behavioral cases in the student community and the frequency of occurrence of unacceptable situations

### **D. General and Transferable Skills (other skills relevant to employability and personal development)**

D1- Training students on the possibility of accessing sources of knowledge to maintain and develop their information

D 2- Training students on the method of communicating information to others through the formulation and presentation of the lecture

D3 - On loan in the exploitation of marcumels from practical experience in adding knowledge in production projects.

D4 - Flexibility in dealing with emergency situations at work by adapting information to find alternatives.

D 5- The skill in formulating scientific research hypotheses to guide scientific research in the service of productive projects.

## Teaching and Learning Methods

- 1-The student is required to submit a seminar in his field of specialization.
- 2- Field visits and the investment of the summer training period to engage in productive projects.
- 3- Students' participation in seminars about problems and obstacles in productive projects

## Assessment Methods

- 1- The student's discussion in the seminar on a specific topic before a specialized committee.
- 2- Adoption of expert evaluation of productive projects during the summer training for students
- 3- Discussing the students' graduation project by a specialized committee

11. Programme Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
First year / First semester	CHEM101	Analytical Chemistry	3.5	Bachelor Degree Requires ( x ) credits
	SOSC102	Principles of Soil Science	3.5	
	PLPT101	Principle of Plant Protection	3.5	
	ANRE101	Principle of Animal Production	3.5	
	SOSC101	Surveying plane	2.5	
	CTSC101	Computer Implementation(1)	1.5	
	ENGL101	Specialized English language(1)	1	
	HUMR101	Human Rights and Public Freedom	1	
First year / Second semester	CHEM201	Organic Chemistry	3.5	
	FDCR101	Principles of Field Crops	3.5	
	STAT101	Principles of Statistics	3.5	
	ANRE102	Principles of Poultry	3.5	
	MATM101	Mathematics	3	
	ZOO101	General Zoology	3.5	
	ENGL102	Specialized English language(2)	1	
	ARBL101	Arabic language	2	
Second	CHEM201	Biochemistry	3.5	

<b>year / First semester</b>	<b>BOT201</b>	<b>Animal Product Hygiene</b>	<b>3.5</b>	
	<b>ANRE202</b>	<b>Principles of Fish</b>	<b>3.5</b>	
	<b>HORT201</b>	<b>Principles of Horticulture Science</b>	<b>3.5</b>	
	<b>AGEX201</b>	<b>Principles of Agricultural Extension</b>	<b>2</b>	
	<b>BIOL201</b>	<b>Principles of Microbiology</b>	<b>3.5</b>	
	<b>ANRE20</b>	<b>Machinery of Animal Production</b>	<b>3.5</b>	
	<b>ENGL102</b>	<b>Specialized English language</b>	<b>1</b>	
	<b>CTSC101</b>	<b>Computer Implementation</b>	<b>1.5</b>	
<b>Second year / second semester</b>	<b>ZOO202</b>	<b>Animal Genetics</b>	<b>3.5</b>	
	<b>ANRE203</b>	<b>Fish Breeding and production</b>	<b>3.5</b>	
	<b>FDSC201</b>	<b>Principles of Dairy Science</b>	<b>3.5</b>	
	<b>AGEC101</b>	<b>Principles of Agriculture Economy</b>	<b>2</b>	
		<b>Forage and Pasture Crops</b>	<b>3.5</b>	
	<b>HUMR201</b>	<b>Freedom and Democracy</b>	<b>1</b>	
	<b>CTSC 201</b>	<b>Computer Implementations (2)</b>	<b>1.5</b>	
<b>Third year / First semester</b>	<b>ZOO203</b>	<b>Animal Physiology</b>	<b>3.5</b>	
	<b>ANRE309</b>	<b>Hatching and Hatchery Management</b>	<b>3.5</b>	
	<b>ANRE306</b>	<b>Animal Nutrition</b>	<b>3.5</b>	
	<b>ANRE310</b>	<b>Economics of Animal Production</b>	<b>3</b>	
	<b>ZOO302</b>	<b>Animal Behavior and Environment</b>	<b>2</b>	
	<b>STAT301</b>	<b>Experiment Design and Analysis</b>	<b>3.5</b>	
	<b>PLPT 204</b>	<b>Veterinary and Medical Insects</b>	<b>3.5</b>	
	<b>ENGL102</b>	<b>Specialized English language</b>	<b>1</b>	
<b>Third year</b>	<b>ANRE304</b>	<b>Poultry Physiology</b>	<b>3.5</b>	
	<b>ANRE305</b>	<b>Technology of Poultry Production</b>	<b>3.5</b>	
	<b>ANRE303</b>	<b>Feeds and Rations</b>	<b>3.5</b>	

/ Second				
<b>13. Personal Development Planning</b>				
	ANRE308	Animal Breeding	3.5	
	ANRE309	Reproductive Physiology	3.5	
	CTSC301	Computer Implementations (3)	1.5	
Four year / First semester	ANRE401	Poultry Nutrition	3.5	
	ANRE402	Poultry Breeding	3.5	
	ANRE403	Sheep and Goat Production	3.5	
	ANRE404	Meat Production	3.5	
	ANRE405	Poultry Management and Production	3.5	
	ANRE413	Pasture Management	3.5	
	ANRE406	Seminar	1	
Four year / Second semester	ANRE407	Poultry Diseases	3.5	
	BIOL401	Biotechnology	2.5	
	ANRE408	Dairy Cattle Production	3.5	
	ANRE409	Meat Science	3.5	
	ANRE410	Buffalo Production	2	
	ANRE412	Research Project	1.5	



- 1- Teamwork: working within the group effectively and actively, and academic planning to develop the performance of individuals at the level of the teaching and technical staff by joining courses and participating in conferences, scientific seminars and workshops.
- 2 - Developing the level of students' achievement through studying the annual performance of the academic program and overcoming the imbalance in the level of performance.
- 3- Leadership: The ability to direct and motivate others and follow-up performance after graduation through the graduate system and benefit from the graduates in assessing the level of the curriculum and the usefulness of the labor market from the curriculum components.
- 4- Independence at work.

#### **14. Admission criteria .**

First, the conditions for admission to the college: -

- 1- Adoption of admission requirements for students in accordance with the regulations of the Ministry of Higher Education and Scientific Research (Central Admission)
- 2- To successfully pass any special test or personal interview deemed by the college or university council.
- 3- He must be medically fit for the specialty he is applying for.

Second, the admission requirements for the scientific department:

- 1- Choosing the student's desire from more than one, arranged in order of preference.
- 2- The acceptance rate in high school.
- 3- The absorptive capacity of the scientific department.

#### **15. Key sources of information about the programme**

- 1- The website of the college and university
- 2- University Guide
- 3- College guide
- 4- The most important books and resources for the department
- 5- Internet

## Curriculum Skills Map

please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed

				Programme Learning Outcomes															
Year / Leve 1	Course Code	Course Title	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
First year / first semester	<b>CHEM101</b>	<b>Analytical Chemistry</b>	Core (C)																
	<b>SOSC102</b>	<b>Principles of Soil Science</b>	Core (C)																
	<b>PLPT101</b>	<b>Principle of Plant Protection</b>	Core (C)																
	<b>ANRE101</b>	<b>Principle of Animal Production</b>	Core (C)																
	<b>SOSC101</b>	<b>Surveying plane</b>	Core (C)																
	<b>CTSC101</b>	<b>Computer Implementation(1)</b>	Core (C)																
	<b>ENGL101</b>	<b>Specialized English language(1)</b>	Core (C)																
	<b>HUMR101</b>	<b>Human Rights and Public Freedom</b>	Core (C)																

First year /Second semester	<b>CHEM201</b>	<b>Organic Chemistry</b>	Core (C)																	
	<b>FDCR101</b>	<b>Principles of Field Crops</b>	Core (C)																	
	<b>STAT101</b>	<b>Principles of Statistics</b>	Core (C)																	
	<b>ANRE102</b>	<b>Principles of Poultry</b>	Core (C)																	
	<b>MATM101</b>	<b>Mathematics</b>	Core (C)																	
	<b>ZOO101</b>	<b>General Zoology</b>	Core (C)																	
	<b>ENGL102</b>	<b>Specialized English language(2)</b>	Core (C)																	
	<b>ARBL101</b>	<b>Arabic language</b>	Core (C)																	
Second year / First semester	<b>CHEM201</b>	<b>Biochemistry</b>	Core (C)																	
	<b>BOT201</b>	<b>Animal Product Hygiene</b>	Core (C)																	
	<b>ANRE202</b>	<b>Principles of Fish</b>	Core (C)																	
	<b>HORT201</b>	<b>Principles of Horticulture Science</b>	Core (C)																	
	<b>AGEX201</b>	<b>Principles of Agricultural Extension</b>	Core (C)																	
	<b>BIOL201</b>	<b>Principles of Microbiology</b>	Core (C)																	
	<b>ANRE20</b>	<b>Machinery of Animal Production</b>	Core (C)																	
	<b>ENGL102</b>	<b>Specialized English language</b>	Core (C)																	

Second year / second semester	<b>CTSC101</b>	<b>Computer Implementation</b>	Core (C)																	
	<b>ZOO202</b>	<b>Animal Genetics</b>	Core (C)																	
	<b>ANRE203</b>	<b>Fish Breeding and production</b>	Core (C)																	
	<b>FDSC201</b>	<b>Principles of Dairy Science</b>	Core (C)																	
	<b>AGEC101</b>	<b>Principles of Agriculture Economy</b>	Core (C)																	
		<b>Forage and Pasture Crops</b>	Core (C)																	
	<b>HUMR201</b>	<b>Freedom and Democracy</b>	Core (C)																	
	<b>CTSC 201</b>	<b>Computer Implementations (2)</b>	Core (C)																	
third year / First semester	<b>ZOO203</b>	<b>Animal Physiology</b>	Core (C)																	
	<b>ANRE309</b>	<b>Hatching and Hatchery Management</b>	Core (C)																	
	<b>ANRE306</b>	<b>Animal Nutrition</b>	Core (C)																	
	<b>ANRE310</b>	<b>Economics of Animal Production</b>	Core (C)																	
	<b>ZOO302</b>	<b>Animal Behavior and Environment</b>	Core (C)																	
	<b>STAT301</b>	<b>Experiment Design and Analysis</b>	Core (C)																	
	<b>PLPT 204</b>	<b>Veterinary and Medical Insects</b>	Core (C)																	

	<b>ENGL102</b>	<b>Specialized English language</b>	Core (C)																
Third year / second semester	<b>ANRE304</b>	<b>Poultry Physiology</b>	Core (C)																
	<b>ANRE305</b>	<b>Technology of Poultry Production</b>	Core (C)																
	<b>ANRE303</b>	<b>Feeds and Rations</b>	Core (C)																
	<b>ANRE307</b>	<b>Animal Diseases</b>	Core (C)																
	<b>ANRE308</b>	<b>Animal Breeding</b>	Core (C)																
	<b>ANRE309</b>	<b>Reproductive Physiology</b>	Core (C)																
	<b>CTSC301</b>	<b>Computer Implementations (3)</b>	Core (C)																
Forth year / First semester	<b>ANRE401</b>	<b>Poultry Nutrition</b>	Core (C)																
	<b>ANRE402</b>	<b>Poultry Breeding</b>	Core (C)																
	<b>ANRE403</b>	<b>Sheep and Goat Production</b>	Core (C)																
	<b>ANRE404</b>	<b>Meat Production</b>	Core (C)																
	<b>ANRE405</b>	<b>Poultry Management and Production</b>	Core (C)																
	<b>ANRE413</b>	<b>Pasture Management</b>	Core (C)																
Forth year /second semester	<b>ANRE406</b>	<b>Seminar</b>	Core (C)																
	<b>ANRE407</b>	<b>Poultry Diseases</b>	Core (C)																
	<b>BIOL401</b>	<b>Biotechnology</b>	Core (C)																

	<b>ANRE408 Dairy Cattle Production</b>	Core (C)																	
	<b>ANRE409 Meat Science</b>	Core (C)																	
	<b>ANRE410 Buffalo Production</b>	Core (C)																	
	<b>ANRE412 Research Project</b>	Core (C)																	

# 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 should be cross-referenced with the programme specification.

<b>1. Teaching Institution</b>	<b>University of kufa</b>
<b>2. University Department/Centre</b>	<b>Faculty of Agriculture, Department of Animal production</b>
<b>3. Course title/code</b>	<b>Animal Nutrition /ANRE306</b>
<b>4. Programme(s) to which it contributes</b>	<b>Weekly</b>
<b>5. Modes of Attendance offered</b>	
<b>6. Semester/Year</b>	<b>Third year / first semester</b>
<b>7. Number of hours tuition (total)</b>	<b>30</b>
<b>8. Date of production/revision of this specification</b>	<b>6/6/2021</b>
<b>9. Aims of the Course</b>	
<b>1. Knowing and understanding the work of the digestive system in animals</b>	
<b>2. It includes knowledge of food ingredients</b>	
<b>3. Knowing how to digest, absorb and metabolize nutrients</b>	

10- Learning Outcomes, Teaching ,Learning and Assessment Methode
<p>A- Knowledge and Understanding</p> <p>A1- To familiarize the student with the concept of animal nutrition</p> <p>A 2- That the student be exposed to the components of animal food</p> <p>A3- Introduce the student to digestion, absorption and food metabolism</p>
<p>B. Subject-specific skills B1 - Introducing the student to the concept of animal nutrition</p> <p>B2 - The student's ability to know the components of animal food</p> <p>B3 - Enable students to learn about digestion, absorption and food metabolism</p>
Teaching and Learning Methods
<p>1- Explanation and clarification</p> <p>2- The method of the lecture</p> <p>3- Save the forms</p> <p>4- Practical lessons in agricultural fields</p> <p>5- Scientific trips to follow up on animal husbandry projects in the governorate</p>
Assessment methods
<p>1- Theoretical tests</p> <p>2- Practical tests</p> <p>3- Reports and studies</p> <p>4 - Daily exams</p>
<p>C. Thinking Skills</p> <p>C1- The skill of thinking according to the student's ability and its goal is for the student to believe in what is tangible and understand when, what and how he should think and work to improve the ability to think</p> <p>C2- Observation and Perception</p> <p>C3 - Analysis and interpretation</p> <p>C4 - Preparation and calendar</p>
Teaching and Learning Methods



- 1- Explanation and clarification
- 2- The method of the lecture
- 3- Save the forms
- 4- Practical lessons in agricultural fields
- 5- Scientific trips to follow up on animal husbandry projects in the governorate

#### Assessment methods

- 1- Theoretical tests
- 2- Practical tests
- 3- Reports and studies
- 4 - Daily exams

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
Week 1	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 2	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 3	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 4	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week5	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 6	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 7	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 8	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 9	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 10	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 11	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 12	2 h	To get to	Animal Nutrition	Explanation, model	Test

		know the student		presentation and lecture	
Week 13	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 14	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test
Week 15	2 h	To get to know the student	Animal Nutrition	Explanation, model presentation and lecture	Test

12. Infrastructure	
Required reading: <ul style="list-style-type: none"> <li>· CORE TEXTS</li> <li>· COURSE MATERIALS</li> <li>· OTHER</li> </ul>	animal Nutrition. Translated by Saad Abdel Hussein Naji and Talal Youssef Boutros. Technical Institutes Foundation.1985 animal Nutrition . Translated by Ahmad Al-Hajj Taha, Atallah Muhammad Saeed, Muhammad Ramzi Taqa. Mosul University. 1984.
Special requirements (include for example workshops, periodicals, IT software, websites)	Nutrition science authored by Dr. Shaker Abdel Amir Hassan Al-Attar and d. Jamal Abdul Rahman Tawfiq 2014. College of Agriculture, University of Baghdad
Community-based facilities (include for example, guest Lectures , internship , field studies)	Iraqi academic scientific journals