

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Evaluation Authority  
Department of Quality Assurance and Academic Accreditation**

# **program description form Academic colleges for For the school year 2023-2024**

**Southern Technical University**

**Shatra / Technical Institute**

**Animal Production Techniques Department / Animal Health Branch**

**File filling date: 3/ 8/2024**

**Name of the associate dean**

**For scientific affairs**

**Lec. Turki Diwan**

**Date**

**signature**

**name of the head**

**of department**

**assist. prof. Khairi Al-Rikabi**

**date**

**signature**

**The file was checked by the Quality Assurance and University Performance Department**

**Name of the Director of the Department of Quality Assurance and University Performance:**

**Mortada Abdel Karim**

**Date**

**Signature**

**Dean's endorsement**

## Academic Program Description

**This academic program description provides a requisite summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, proving whether he has made accompanied by a maximum use of the available opportunities. It is description of each course within the program**

Ministry of Higher Education and Scientific Research	Educational institution .١
Technical Institute / Shatra	Department Scientific Center / .٢
Animal / Department of Animal Production Techniques Health Branch	or Academic professional program name .٣
Technical Diploma	Final certificate name .٤
semester system	school system .٥
Theoretical and practical study	Accreditation Program .٦
internet, agricultural and industrial institutions and animal production projects	Other external influences .٧
٢٠٢١	Description creation date .٨
Granting the student a diploma in the : The objectives of the academic program a graduate of a theoretical and practical aspects to serve the preparation of distinguished level and his commitment to the practical arena .٩	
Practicing activities related to the management of animal fields, dispensaries and veterinary clinics -١	
The link between animal production and food security for the country -٢	
<b>Practicing reproductive care and artificial insemination -٣</b>	

<b>activities and organizing their own records</b>
<b>Organizing records and documents of endemic epidemic -٤ diseases as well as common diseases</b>
poultry and Learn about the different diseases that affect animals and -٥ ways to prevent them

outcomes and methods of teaching, learning and assessment program .١٠
Cognitive goals -A infectious pathogens and their clinical -Identification of infectious and non -١A and laboratory diagnosis <b>.insemination and management of veterinary clinics Study of artificial - ٢</b> with veterinary medicines and vaccines and methods of their <b>Familiarity -٣A</b> . administration The student knows the basics of animal nutrition and how to deal with A -٤A . . agricultural animals
program of the Skills objectives - B Training in periodic examination, artificial insemination and reproductive care -١B . of animals . Knowing how to diagnose, treat and prevent diseases -٢B . experience in the field of laboratory and field analyses <b>Gaining -٣B</b> . possibility of performing some surgical operations for animals <b>The -B</b>
Teaching and learning methods
. Theoretical lectures - . Show slides, pictures and scientific films - Practical application of theoretical materials such as clinical and - laboratory diagnosis of diseases, treatments, vaccinations, methods of giving them, reproductive care, anatomy of poultry and animals, - . histological examination of organs and food analysis . Visiting fields, veterinary clinics, animal facilities and laboratories - Conducting some applied research under the supervision of professors -
Evaluation methods

<p>Daily and monthly exams -</p> <p>Semester and final exams -</p> <p>questions for academic subjects Participation scores for competition -</p> <p>Scores for homework and report writing -</p>
<p>Emotional and value goals -C</p> <p>Applying knowledge in animal production sciences in order to address -\C          problems related to it          as well as analysis †Design and implementation of scientific experiments - †C          .and interpretation of data</p> <p><b>Determine vocabulary available to the student to help him acquire the skill and - †C</b>          .ability to choose what achieves his purpose</p> <p><b>ogy with The student expresses his desire to learn about the relationship of zool -‡ C</b>          .other sciences</p> <p><b>Application of knowledge in veterinary sciences in order to address the problems °C</b>          . facing breeders and owners of animal production projects</p> <p><b>Using modern techniques, skills and tools in the field of animal health .‡C</b></p>

<p>and learning methods Teaching</p>
<p><b>.Data Show using The lecture is accompanied by the presentation -\A</b></p> <p><b>.Discussion -†C</b></p> <p><b>.Brainstorming - †C</b></p> <p><b>. Take the student to the fields -‡C</b></p>
<p>Evaluation methods</p>
<p>the exams -\)</p> <p>Observation -‡</p> <p>questionnaire -‡</p> <p>Report writing -‡</p>

<p>other skills related to ) skills rehabilitative and general Transferred -d  . (personal development employability and  <b>Acquisition of skills in the field of clinical and laboratory examinations of diseases of – ١ D</b>  . animals, poultry and fish  <b>Acquisition of skills in the field of obstetrics, reproductive care, artificial – ٢ D</b>  . insemination and surgery  . <b>Knowledge of medicines and vaccines and ways of giving them – ٣ D</b>  . <b>of fish farming Work in the field – ٤ D</b>  . <b>Acquisition of skill in the field of meat processing and preservation – ٥ D</b>  . <b>Work in the artificial insemination center and veterinary clinics – ٦ D</b></p>				
Teaching and learning methods				
<p>. and fields <b>Practical lectures attended by the student to laboratories -</b>  . <b>training summer -</b>  . <b>Writing a research project</b></p>				
Evaluation methods				
<p>. <b>Direct supervision in the field by the practical professor and field workers -</b>  . <b>Direct supervision during training by a scientific supervisor from the department -</b>  . <b>on it a score and give Discuss research -</b>  -</p>				
Certifications and .١٢ Credit Hours	Program structure .١١			
	Credit hours	Course or course name	Course or course code	level/year
degree Technical diploma Require (x) credit hours	٥	<b>animal management</b>	١	The first stage fall semester
	٥	<b>animal anatomy</b>	٢	
١١٨	٤	<b>animal physiology</b>	٣	
	٥	<b>microbiology</b>	٤	
	٤	<b>animal health</b>	٥	

	٤	Biochemistry	٦	
	٣	(١)Computers	٧	
	٢	Human rights and democracy	٨	
	٣٢		the total	
	٥	animal pathology	١	/ stage First spring semester
	٤	tissue	٢	
	٤	Parasites	٣	
	٥	animal feed	٤	
	٤	Medicines and poisons	٥	
	٤	veterinary surgery	٦	
	٢	English language	٧	
	٢٨		the total	
	٥	Infectious diseases	١	The second phase fall semester
	٥	poultry diseases	٢	
	٤	١ Clinical	٣	
	٥	Fish farming and production	٤	
	٥	Reproductive physiology and vaccination	٥	
	٣	Calculator Basics (٢)	٦	
	٢	English language	٧	
	٢٩		the total	
	٤	٢ Clinical	١	The second phase spring semester
	٤	Birth and venereal disease	٢	
	٤	fish diseases	٣	
	٥	Esoteric diseases	٤	
	٥	Satisfactory analyzes	٥	
	٥	Meat health and inspection	٥	
	٢	The project	٧	

	٢٩		the total	
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Planning for personal development .١٢
<p><b>.Improve their debating skills .١D</b></p> <p><b>Raising their research perceptions and transferring students from the .٢D</b></p> <p><b>.stage to the learning stage education</b></p> <p><b>.The student's use of modern and contemporary sources .٣D</b></p> <p><b>date information –to–Take advantage of internet sites that contain up .٤D.</b></p> <p><b>.related to animal health</b></p>
regulations related to admission to a college or setting) Admission criterion .١٤ (institute
<p><b>.Adoption of the central admission requirements .١</b></p> <p><b>.The acceptance rate for the sixth scientific and vocational / agricultural .٢</b></p> <p><b>.To be medically fit for the specialty .٣</b></p> <p><b>.capacity of the department The carrying .٤</b></p>
The most important sources of information about the program .١٥
<p>The Central Library in the Covenant .١</p> <p>Internet information network .٢</p> <p>The experiences of Arab and international universities .٣</p> <p>Current Curriculum .٤</p> <p><b>.needs Market .٤</b></p> <p><b>.Local directions .٦</b></p> <p><b>.Studies and questionnaires .٧</b></p> <p><b>.Specialized seminars and workshops with the beneficiaries .٨</b></p>

## Curriculum Skills Outline

individual learning outcomes from the program being evaluated Please check the boxes corresponding to the

Learning outcomes required from the program

General and Transferable Skills (or) Other skills ) related to employability and personal development				thinking skills				specific -Subject skills				knowledge and understanding				Basic mother optional	Course Name	Course Code	year/level		
																				εD	ϑd
		√				√			√					√				Specialty	animal management	ϑ	t The first stage of the fall semester
		√				√			√				√					Specialty	animal anatomy	ϑ	
		√				√			√				√					Specialty	animal physiology	ϑ	
	√					√			√				√					Specialty	microbiology	ε	
	√				√					√			√					Specialty	animal health	ο	
	√				√					√			√					help	Biochemistry	ϑ	
		√				√					√		√					help	(ϑ)Computers	ϑ	
		√				√					√			√				General	Human rights and democracy	ϑ	



## Curriculum Skills Outline

## Curriculum Skills Outline

corresponding to the individual learning outcomes from the program being evaluated Please check the boxes

### Learning outcomes required from the program

General and Transferable Skills (or) Other skills) related to employability and personal development				thinking skills				specific -Subject skills				knowledge and understanding				Basic mother optional	Course Name	Course Code	year/level
		√				√			√				√			Specialty	animal pathology	Ϛ	t The first stage of the spring semester
		√				√			√			√				Specialty	tissue	Ϛ	
		√				√			√				√			Specialty	Parasites	Ϛ	
	√					√			√				√			Specialty	animal feed	ε	
	√				√					√			√			Specialty	Medicines and poisons	ο	
	√				√					√		√				Specialty	veterinary surgery	Ϛ	
		√				√					√		√			General	English language	Ϛ	



## Curriculum Skills Outline

**Please check the boxes corresponding to the individual learning outcomes from the program being evaluated**

**Learning outcomes required from the program**

General and Transferable Skills (or) Other skills ) related to employability and developmentpersona				thinking skills				specific -Subject skills				knowledge and understanding				Basic mother optional	Course Name	Course Code	year/level
		√				√			√				√			Specialty	Infectious diseases	ϳ	The second stage of the vocational semester
		√				√			√				√			Specialty	poultry diseases	ϳ	
		√				√			√				√			Specialty	ϳ Clinical	ϳ	
	√					√			√				√			Specialty	Fish farming and production	ε	
	√				√					√			√			Specialty	Reproductive physiology and vaccination	ο	
	√				√					√			√			help	Calculator Basics (ϳ)	ϳ	
		√				√					√		√			General	English language	ϳ	



## Curriculum Skills Outline

individual learning outcomes from the program being evaluated Please check the boxes corresponding to the

Learning outcomes required from the program

General and Transferable Skills (or) Other skills ) related to employability and personal development				thinking skills				specific -Subject skills				knowledge and understanding				Basic mother optional	Course Name	Course Code	year/level
		√				√			√				√			Specialty	ζClinical	η	<b>The second stage of the spring semester</b>
		√				√			√			√				Specialty	Birth and venereal disease	ζ	
		√				√			√			√				Specialty	fish diseases	ζ	
	√					√			√			√				Specialty	Esoteric diseases	ε	
	√				√					√		√				Specialty	Satisfactory analyzes	ο	
	√				√					√		√				help	Meat health and inspection	ο	
		√				√					√	√				Specialty	The project	η	

## course description form n

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of must be linked to the description of It . learning opportunities the available .the program

<b>Technical Institute / Shatra</b>	<b>Educational institution . ١</b>
<b>Department of Animal Production Techniques/ Animal Health Branch</b>	<b>Center / Department Scientific . ٢</b>
<b>management animal</b>	<b>Course name / code . ٣</b>
<b>Present learning</b>	<b>forms of attendance Available . ٤</b>
<b>Autumn semester / first stage</b>	<b>season/year . ٥</b>
<b>hours of theoretical and practical class75</b>	<b>Number of hours of study . ٦ (total)</b>
<b>٢ . ٢ ٢</b>	<b>The date this description was . ٧ prepared</b>
<b>in the theoretical and practical Granting the student a diploma : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical arena</b>	

<b>outcomes and methods of teaching, learning and assessment Course . ٩</b>
<b>Cognitive goals -A and on her control and ways her recipes animals on me definition - ١ A field operations for a purpose different examination and ways animals on me control - ٢ A treatment</b>
<b>Skills objectives of the program - B methods with regard To provide the student with the skills of applying scientific - ١ B .to animal management Training the student on how to increase the production and improve the quality - ٢ B .of animals Providing the student with the necessary skills in poultry fields and feed - ٣ B .manufacturing plants</b>
<b>learning methods Teaching and</b>
<b>Giving scientific and theoretical lectures through display screens and PowerPoint and .visiting fields</b>
<b>Evaluation methods</b>

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	Buffalo ) different the animals Site sheep , cows Poultry, ,goats, camels, horses turkey, duck and geese , in the animal kingdom ( fish of problems and advantages The different the animals upbringing the animals between differences different	My knowledge and skills	2 theoretical practical	the first
questions ask	Lecture and practical lesson	large animals methods Classification The , goat Sheep, buffalo (cows) ( animals Iraqi , horses Camels	My knowledge and skills	2 theoretical practical	Second
Listen and ask questions	Lecture and practical lesson	the animals methods Classification ducks Rumi poultry) stomach lonely ( Iraqi animals ,fish and geese	My knowledge and skills	2 theoretical practical	Third
Practical exercise, meeting and work groups	Lecture and practical lesson	Specifications of different types of and meat cows , animals ( milk (goats ,sheep	My knowledge and skills	2 theoretical practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Specifications for different types of ducks and Rumi animals poultry (geese	My knowledge and skills	2 theoretical practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	Specifications of different types of fish	My knowledge and skills	2 theoretical practical	VI
Case study Practical exercise and work groups	Lecture and practical lesson	different animals Reproduction in The , goat Sheep, buffalo cows) farm ducks Rumi poultry , horses Camels ( fish goose	My knowledge and skills	2 theoretical practical	seventh
Listening and	Lecture	parts ) reproductive organs Hardware	My	2	VIII



asking practical exercise questions and work groups	and practical lesson	puberty and sexual ( and function types of) Eroticism Course maturity About detection (methods it, stages of her, her unification, the period this, methods pregnancy (stages of ( diagnosed	knowledge and skills	theoretic 2al practical	
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	systems used (types of Pollination of stages ( downsides Benefits cha Rumi poultry in egg the formation ( ducks and geese	My knowledge and skills	2 theoretic 2al practical	ninth
Ask group work questions	Lecture and practical lesson	different animals production in Milk farm The goat Sheep buffalo cows) mammary Types of _ ( horses Camels and the function parts their glands part each of	My knowledge and skills	2 theoretic 2al practical	The tenth
lesson -Mini work groups	Lecture and practical lesson	Stages of development of the affecting hormones cha mammary gland _ _ _ _ _ lactation process of the milk affecting Factors urination Measurement methods cha production production of milk	My knowledge and skills	2 theoretic 2al practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	methods in different Arbitration animals	My knowledge and skills	2 theoretic 2al practical	twelveth
ask questions	Lecture and practical lesson	the breeding Types of fields used in Sheep buffalo cows) large animals their cha specifications goats) their and disadvantages advantages	My knowledge and skills	2 theoretic 2al practical	Thirteenth
Asking practice questions	Lecture and practical lesson	Types of fields used in poultry Ducks and geese, their Rumi farming and features cha specifications disadvantages	My knowledge and skills	2 theoretic 2al practical	fourteenth
Asking practice questions	Lecture and practical lesson	farming , Types of fields used in fish and advantages cha their specifications disadvantages	My knowledge and skills	1 theoretic 2al practical	Fifteenth

	Infrastructure . ١١
ji The book Almenh	Required course books . ١
resources for each course Supporting	(Main references (sources . ٢
Scientific journals, as well as research, letters and theses of professors in the same specialty	a. Recommended books and references (scientific journals, (... reports,
_www.google.com	B. Electronic references, websites

	course development plan . ١٢
.Providing the possibility of academic support in organizing field visits - Providing the appropriate classroom environment that enables the teacher to - .diversify teaching strategies .campus library Providing information technology in the - Hosting experts from outside the institute, or from the work environment for - which they are preparing to benefit from their expertise in developing the .course according to the actual needs of the labor market	

### **course description form**

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of st be linked to the description of It mu . learning opportunities the available

## Course description

Technical Institute / Shatra	Educational Institution . <sup>١</sup>
Animal Production Techniques Department	Department / Center Scientific . <sup>٢</sup>
anatomy animal	Course name/code . <sup>٣</sup>
Present learning	attendance available Forms of . <sup>٤</sup>
Autumn semester / first stage	Semester/year . <sup>٥</sup>
hours of theoretical and practical class 75	Number of hours of study . <sup>٦</sup> (total)
٢٠٢٢	Date of preparation of this . <sup>٧</sup> description
student a diploma in the theoretical and practical aspects to serve the preparation of a graduate of a distinguished level and his commitment to	Granting the : Course Objectives . <sup>٨</sup> .the practical arena

outcomes and methods of teaching, learning and assessment Course . <sup>٩</sup>	
Cognitive goals -A	
Teaching students how to anatomy of different animals - <sup>١</sup> A	Introducing students to how to develop the student's skills in recognizing the parts - <sup>٢</sup> A
.materials and equipment Enable the student to know how to deal with laboratory - <sup>٣</sup> A	.and organs of the body of different animals
Skills objectives of the program - B	
To provide the student with the skills of applying scientific methods for animal - <sup>١</sup> B	.anatomy
.Training the student to conduct comparative anatomy - <sup>٢</sup> B	.essary skills to perform surgical operations To provide the student with the nec -
Teaching and learning methods	
Giving scientific and theoretical lectures through displays, powerpoints, slides, microscopes, experiments in examining plant samples, using various laboratory .equipment, and a wooden canopy equipment and	
Evaluation methods	
Quizzes Take daily quick exams	Conducting monthly exams
Conducting semester and final exams	
.emotional and value goals - C	
.Enable the student to apply theoretical information in a practical way - <sup>١</sup> C	Develop the patriotic spirit of the student in order to increase the information in - <sup>٢</sup> C
	.quantity and quality

<p align="center">.Knowing the best way to deal with animal carcasses - ٣C          Developing the ethics of the profession of a veterinarian among students by - ٤C          .wing the correct professional behaviorfollo</p>
<p align="center">skills (other skills related to employability rehabilitative Transferred general and -D          .(and personal development          -١D          -٢D          -٣D</p>

Course Structure .١٠					
Evaluation method	education method	or topic Unit name / course	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	the device , anatomical Terminology bone plants , digestive	My knowledge and skills	٢ theoretical practical	the first
ask questions	Lecture and practical lesson	, column , skull) axial the structure ( shear bone , ribs	My knowledge and skills	٢ theoretical practical	Second
Listen and ask questions	Lecture and practical lesson	, the board bone) anterior the parties ( hand wrist bones , ulna , radius	My knowledge and skills	٢ theoretical practical	Third
Practical exercise, meeting and work groups	Lecture and practical lesson	bone ) the background the parties and the kasbah thigh bone , pelvis ( and the comb foot bone , sliver	My knowledge and skills	٢ theoretical practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	joints and types hinge _jh az	My knowledge and skills	٢ theoretical practical	Fifth
Mini Lesson Discussion Practical	Lecture and practical	muscle Species – muscular the device (and sites traits)	My knowledge and	٢ theoretical	VI

Exercise and Workgroups	lesson		skills	practical	
Case study Practical exercise and work groups	Lecture and practical lesson	the (oral) gastrointestinal the device , salivary glands , the teeth , tongue intestines, , liver , stomach , pharynx (pancreas, bile	My knowledge and skills	theoretical practical	seventh
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	nose, nasal ) Respiratory system (cavity	My knowledge and skills	theoretical practical	VIII
Asking questions listening and practical exercise and work groups	Lecture and practical lesson	Lungs, pleura, diaphragm	My knowledge and skills	theoretical practical	ninth
Ask group work questions	Lecture and practical lesson	(Urinary system (kidney, bladder	My knowledge and skills	theoretical practical	The tenth
lesson -Mini work groups	Lecture and practical lesson	Reproductive system (ovary, testis, (posterior gland	My knowledge and skills	theoretical practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	.Blood system (heart, arteries ( system lymphatic	My knowledge and skills	theoretical practical	twelveth
ask questions	Lecture and practical lesson	nervous system, nerve cell	My knowledge and skills	theoretical practical	Thirteenth
Asking practice questions	Lecture and practical lesson	Endocrine	My knowledge and skills	theoretical practical	fourteenth
Asking practice questions	Lecture and practical lesson	ear eye and of the Anatomy	My knowledge and skills	theoretical practical	Fifteenth

## Curriculum Development Plan . ١١

.organizing field visits Providing the possibility of academic support in -  
 Providing the appropriate classroom environment that enables the teacher to -  
 .diversify teaching strategies  
 .Providing information technology in the campus library -  
 ment for Hosting experts from outside the institute, or from the work environ -  
 which they are preparing to benefit from their expertise in developing the  
 .course according to the actual needs of the labor market

**headquarters description form****Course description**

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of st be linked to the description of It mu . learning opportunities the available .the program

## Infrastructure . ١٢

<b>The systematic book winter vegetable crops</b>	Required course books . ١
<b>Supporting resources for each course</b>	(sources) Main references . ٢
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	a. Recommended books and references (scientific journals, ( . . . . reports,
<b>_www.google.com</b>	B. Electronic references, websites

<b>Technical Institute / Shatra</b>	<b>Educational Institution .<sup>١</sup></b>
<b>Department of Animal Production Techniques / Animal Health Branch</b>	<b>Department / Center Scientific .<sup>٢</sup></b>
<b>_physiology animal</b>	<b>Course name/code .<sup>٣</sup></b>
<b>Present learning</b>	<b>Forms of attendance available .<sup>٤</sup></b>
<b>Autumn semester / first stage</b>	<b>Semester/year .<sup>٥</sup></b>
<b>hours of theoretical and practical class60</b>	<b>Number of hours of study .<sup>٦</sup> (total)</b>
<b>٢٠٢٢</b>	<b>Date of preparation of this .<sup>٧</sup> description</b>
<b>Granting the student a diploma in the theoretical and practical : Course Objectives .<sup>٨</sup> aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

<b>outcomes and methods of teaching, learning and assessment Course .<sup>٩</sup></b>
<b>Cognitive goals -A</b> <b>.Teaching students about the functions of the different parts of the body -<sup>١</sup> A</b> <b>.Introducing students to how disorders that can occur in the functions of organs -<sup>٢</sup> A</b> <b>.Equip Enable the student to know how to deal with laboratory materials and eq -<sup>٣</sup> A</b>
<b>Skills objectives of the program - B</b> <b>To provide the student with the skills of applying scientific methods with regard -<sup>١</sup> B</b> <b>.to revealing the natural functions of the organs</b> <b>.Training the student to conduct physiological examinations -<sup>٢</sup> B</b> <b>Providing the student with the skills necessary to conduct laboratory tests and -</b> <b>.measure the level of hormones and enzymes and their relationship to body functions</b>
<b>Teaching and learning methods</b> <b>powerpoints, slides, Giving scientific and theoretical lectures through displays</b> <b>microscopes, experiments in examining plant samples, using various laboratory</b> <b>.equipment and equipment, and a wooden canopy</b>
<b>Evaluation methods</b> <b>Quizzes Take daily quick</b> <b>Conducting monthly exams</b> <b>Conducting semester and final exams</b>
<b>.emotional and value goals - C</b> <b>.Enable the student to apply theoretical information in a practical way -<sup>١</sup> C</b> <b>develop the patriotic spirit of the student in order to increase the student's To -<sup>٢</sup> C</b> <b>.scientific competence in terms of quantity and quality</b> <b>Develop the ethics of the profession of veterinarian among students by following .-<sup>٣</sup> C</b> <b>.the correct professional behavior</b>
<b>skills (other skills related to employability rehabilitative Transferred general and -D</b> <b>.(and personal development</b> <b>-<sup>١</sup> D</b>

-۲D  
-۳D  
-۴D

**Course Structure .۱۰**

<b>Evaluation method</b>	<b>education method</b>	<b>Unit name / course or topic</b>	<b>Required learning outcomes</b>	<b>hours</b>	<b>the week</b>
<b>Questions answers and mini practical lesson</b>	<b>Lecture and practical lesson</b>	<b>and its functions cell</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>the first</b>
<b>ask questions</b>	<b>Lecture and practical lesson</b>	<b>muscle cell ، nervous cell</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>Second</b>
<b>Listen and ask questions</b>	<b>Lecture and practical lesson</b>	<b>nervous the device his physiology</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>Third</b>
<b>Practical exercise, meeting and work groups</b>	<b>Lecture and practical lesson</b>	<b>Physiology of the nervous system</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>the fourth</b>
<b>Practical exercise, meeting and work groups</b>	<b>Lecture and practical lesson</b>	<b>its ، and its components blood functions</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>Fifth</b>
<b>Mini Lesson Discussion Practical Exercise and Workgroups</b>	<b>Lecture and practical lesson</b>	<b>lymph ، the blood his physiology spinal cerebral and the liquid</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>VI</b>
<b>Case study Practical exercise and work groups</b>	<b>Lecture and practical lesson</b>	<b>immune jazz</b>	<b>My knowledge and skills</b>	<b>۱ theoretical practical</b>	<b>seventh</b>



				I	
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	Sizes of respiratory the device respiratory	My knowledge and skills	theoretical practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	digestive the device	My knowledge and skills	theoretical practical	ninth
Ask group work questions	Lecture and practical lesson	bitch and functions poly the device	My knowledge and skills	theoretical practical	The tenth
lesson -Mini work groups	Lecture and practical lesson	bitch and functions poly the device	My knowledge and skills	theoretical practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	deaf glands	My knowledge and skills	theoretical practical	twelveth
	Lecture and	and proliferative the device proliferative the device of feminine	My	theoreti	
Infrastructure . 12 th					
method book Required course books . 1					
Asking practice questions	Lecture and practical lesson	the milk and diuresis composition	My knowledge and skills	theoretical practical	fourteenth
Asking practice questions	Lecture and practical lesson	the milk and diuresis composition the milk hormones	My knowledge and skills	theoretical practical	Fifteenth

Supporting resources for each course	(Main references (sources . ٢
Scientific journals, as well as research, letters and theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

Curriculum Development Plan . ١١
<p>.Providing the possibility of academic support in organizing field visits - that enables the teacher to Providing the appropriate classroom environment - .diversify teaching strategies</p> <p>.Providing information technology in the campus library -</p> <p>Hosting experts from outside the institute, or from the work environment for -</p> <p>loping the which they are preparing to benefit from their expertise in deve</p> <p>.course according to the actual needs of the labor market</p>

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of st be linked to the description of It mu . learning opportunities the available .the program

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific . ٢

<b>microbiology / Microbiology</b>	<b>Course name/code .٣</b>
<b>Present learning</b>	<b>Forms of attendance available .٤</b>
<b>Autumn semester / first stage</b>	<b>Semester/year .٥</b>
<b>hours of theoretical and practical class75</b>	<b>Number of hours of study .٦ (total)</b>
<b>٢٠٢٢</b>	<b>Date of preparation of this .٧ description</b>
<b>Granting the student a diploma in the theoretical and practical : Course Objectives .٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

<b>outcomes and methods of teaching, learning and assessment Course .٩</b>	
<b>Cognitive goals -A</b>	
<b>.Teaching students how to deal with different microorganisms - ١ A</b>	
<b>.Introducing students to the relationship of microorganisms to various diseases - ٢ A</b>	
<b>.Enable the student to know how to deal with laboratory materials and equipment - ٣ A</b>	
<b>Skills objectives of the program - B</b>	
<b>To provide the student with the skills of applying scientific methods in relation to - ١ B</b>	
<b>.the types of microorganisms</b>	
<b>.Training the student on the methods of diagnosing microorganisms - ٢ B</b>	
<b>the skills necessary to conduct laboratory tests related to To provide the student with -</b>	
<b>.various types of microorganisms</b>	
<b>Teaching and learning methods</b>	
<b>Giving scientific and theoretical lectures through displays, powerpoints, slides, the use of various laboratory microscopes, sample examination experiments, and .equipment and devices</b>	
<b>Evaluation methods</b>	
<b>Quizzes Take daily quick exams</b>	
<b>Conducting monthly exams</b>	
<b>Conducting semester and final exams</b>	
<b>.emotional and value goals - C</b>	
<b>.in a practical way Enable the student to apply theoretical information - ١ C</b>	
<b>Develop the patriotic spirit of the student to increase production in quantity and - ٢ C</b>	
<b>.quality</b>	
<b>the concept of community service and the best way to deal with Instilling - ٣ C</b>	
<b>.pathogenic and unsatisfactory microorganisms</b>	
<b>ing the ethics of the profession of a veterinarian among students by Develop - ٤ C</b>	
<b>.following the correct professional behavior</b>	
<b>skills (other skills related to employability rehabilitative Transferred general and -D</b>	
<b>.(and personal development</b>	
<b>- ١ D</b>	
<b>- ٢ D</b>	

<b>Structure Course .١٠</b>					
<b>Evaluation method</b>	<b>educati on</b>	<b>Unit name / course or topic</b>	<b>Require d</b>	<b>hours</b>	<b>the week</b>

	method		learning outcomes		
Questions and answers mini practical lesson	Lecture and practical lesson	<b>Science About General Brief and its microscopic Biology development</b>	My knowledge and skills	theoretical practical	the first
ask questions	Lecture and practical lesson	<b>for the living Main Categories Nucleus physical cell microscopic Nucleus real and the cell</b>	My knowledge and skills	theoretical practical	Second
Listen and ask questions	Lecture and practical lesson	<b>for bacteria the public adjectives bacteria feed and its contents different media on me cultivation in bacteria play it that and roles nature</b>	My knowledge and skills	theoretical practical	Third
Practical exercise, meeting and work groups	Lecture and practical lesson	<b>Growth for bacteria dates phases phases</b>	My knowledge and skills	theoretical practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	<b>and physical the ways : Education candidacy And the chemical</b>	My knowledge and skills	theoretical practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	<b>bacterial optimum And the families cluster med and cocci ( Pseudomonas ) Pseudomonas</b>	My knowledge and skills	theoretical practical	VI
Case study Practical exercise and work groups	Lecture and practical lesson	<b>bacteria the shekel salmonella E-coli coli</b>	My knowledge and skills	theoretical practical	seventh

Listening and asking practical exercise questions and work groups	Lecture and practical lesson	<b>basilas · clostridia</b>	My knowledge and skills	theoretical practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	<b>Pastilla · mycobacteria</b>	My knowledge and skills	theoretical practical	ninth
Ask group work questions	Lecture and practical lesson	<b>and Brucella Trichomonas · verio</b>	My knowledge and skills	theoretical practical	The tenth
lesson -Mini work groups	Lecture and practical lesson	<b>and the public and traits viruses classification</b>	My knowledge and skills	theoretical practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	<b>and viruses most important and camboro Newcastle smallpox and the bovine the plague And the aphthous and fever the birds flu</b>	My knowledge and skills	theoretical practical	twelveth
ask questions	Lecture and practical lesson	<b>: Features classification and fungi and damage the benefits farming to her vitality Antibiotics</b>	My knowledge and skills	theoretical practical	Thirteenth
Asking practice questions	Lecture and practical lesson	<b>and its its properties mycoplasma by caused that diseases · shapes</b>	My knowledge and skills	theoretical practical	fourteenth
Asking practice	Lecture and	<b>And the and antigens immunity Vaccines · and its wicker Antigens and its importance prepare it</b>	My knowledge	theoretical	Fifteenth

questions	practical lesson		edge and skills	practical	
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Curriculum Development Plan . ١١
.Providing the possibility of academic support in organizing field visits - Providing the appropriate classroom environment that enables the teacher to - .diversify teaching strategies .Providing information technology in the campus library - Hosting experts from outside the institute, or from the work environment for - reparing to benefit from their expertise in developing the which they are p .course according to the actual needs of the labor market

Infrastructure . ١٢	
textbook Plant protection	Required course books . ١
Supporting resources for each course	(Main references (sources . ٢
journals, as well as research, letters and Scientific theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of st be linked to the description of It mu . learning opportunities the available .the program

<b>Technical Institute / Shatra</b>	<b>Educational Institution . ١</b>
<b>Department of Animal Production Techniques/ Animal Health Branch</b>	<b>Department / Center Scientific . ٢</b>
<b>health animalAnimal hygiene</b>	<b>Course name/code . ٣</b>
<b>Present learning</b>	<b>Forms of attendance available . ٤</b>
<b>Autumn semester / first stage</b>	<b>Semester/year . ٥</b>
<b>hours of theoretical and practical class60</b>	<b>Number of hours of study . ٦ (total)</b>
<b>٢ . ٢٢</b>	<b>Date of preparation of this . ٧ description</b>
<b>Granting the student a diploma in the theoretical and practical : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

<b>and assessment outcomes and methods of teaching, learning Course . ٩</b>
<b>Cognitive goals -A</b>
<b>Teaching students the hygienic conditions that must be provided in animal - ١ A shelters</b>
<b>.Introducing students to the importance of the role of water in animal health - ٢ A</b>
<b>ntilation of the premiseshealth importance of air and methods of ve The - ٣ A</b>
<b>Skills objectives of the program - B</b>
<b>To provide the student with the skills to study the environmental conditions in - ١ B animal pens</b>
<b>Training the student to know the relationship between the environment and - ٢ B health animal</b>
<b>To provide the student with the necessary skills to conduct laboratory tests related to - animal health</b>
<b>Teaching and learning methods</b>
<b>Giving scientific and theoretical lectures through displays, powerpoints, slides, amining plant samples, using various laboratory microscopes, experiments in ex .equipment and equipment, and a wooden canopy</b>
<b>Evaluation methods</b>
<b>Quizzes Take daily quick</b>
<b>Conducting monthly exams</b>
<b>Conducting semester and final exams</b>
<b>.emotional and value goals - C</b>

Course Structure . 1 .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	and Animal health Importance Animal on me influential factors	My knowledge and skills	theoretical practical	the first
ask questions	Lecture and practical lesson	and humidity the heat Effect and the wind the sun	My knowledge and skills	theoretical practical	Second
Listen and ask questions	Lecture and practical lesson	the animals housing	My knowledge and skills	theoretical practical	Third
Practical exercise, meeting and work groups	Lecture and practical lesson	inside necessary air Estimation space as well civils	My knowledge and skills	theoretical practical	the fourth
Practical exercise, and meeting work groups	Lecture and practical lesson	Exchange and ways ventilation From get rid of and how health waste	My knowledge and skills	theoretical practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	cattle for yards different systems and sheep	My knowledge and skills	theoretical practical	VI
Case study Practical exercise and work groups	Lecture and practical lesson	and organize and horses poultry its premises	My knowledge and skills	theoretical practical	seventh
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	and civils inside water Sources its pollution ways	My knowledge and skills	theoretical practical	VIII
Asking	Lecture	water From the animals needs	My	theoretical practical	ninth



questions and listening practical exercise and groups work	and practical lesson		knowledge and skills	theoretical practical	
Ask group work questions	Lecture and practical lesson	source Epidemiology diseases avoid it and ways infection	My knowledge and skills	theoretical practical	The tenth
lesson -Mini work groups	Lecture and practical lesson	animal fields in used disinfectants paint promising	My knowledge and skills	theoretical practical	eleventh
Practical and exercise workgroups	Lecture and practical lesson	and secretion external Parasites resistance and ways	My knowledge and skills	theoretical practical	twelveth
ask questions	Lecture and practical lesson	with pesticides poisoning Methods Of which and prevention insect	My knowledge and skills	theoretical practical	Thirteenth
Asking practice questions	Lecture and practical lesson	Corpses From get rid of Methods the animals	My knowledge and skills	theoretical practical	fourteenth
Asking practice questions	Lecture and practical lesson	the on me veterinarian stone imported animals	My knowledge and skills	theoretical practical	Fifteenth

**Curriculum Development Plan . 11**

- .Providing the possibility of academic support in organizing field visits -
- Providing the appropriate classroom environment that enables the teacher to diversify -
- .teaching strategies
- .campus library Providing information technology in the -
- Hosting experts from outside the institute, or from the work environment for which they -
- are preparing to benefit from their expertise in developing the course according to the

.actual needs of the labor market

### course description form

Infrastructure .١٢	
textbook General soil	Required course books .١
Supporting resources for each course	(Main references (sources .٢
Scientific journals, as well as research, letters professors in the same specialty and theses of	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

the headquarters of

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities

Technical Institute / Shatra

Educational Institution .١

Department of Animal Production Techniques / Animal Health Branch	Department / Center Scientific .٢
biochemistry / Biochemistry	Course name/code .٣
Present learning	Forms of attendance available .٤
Autumn semester / first stage	Semester/year .٥
hours of theoretical and practical class60	Number of hours of study .٦ (total)
٢٠٢٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

Course Structure .١٠					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	The importance of biochemistry in medical studies	My knowledge and skills	١ theoretical ٢ practical	first the
ask questions	Lecture and practical lesson	sugars - Carbohydrates	My knowledge and skills	١ theoretical ٢ practical	Second
Listen and ask questions	Lecture and practical lesson	fatty acids properties and -Fats chemical reactions of fats	My knowledge and skills	١ theoretical ٢ practical	Third
Practical exercise, meeting and work groups	Lecture and practical lesson	The chemistry of amino acids and proteins	My knowledge and skills	١ theoretical ٢ practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	The formation of proteins and the regulation of vital actions genetic	My knowledge and skills	١ theoretical ٢ practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	Classification of enzymes and how they work	My knowledge and skills	١ theoretical ٢ practical	VI
Case study	Lecture	Vitamins and their types	My	١	seventh

Practical exercise and work groups	and practical lesson		knowledge and skills	theoretical practical	
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	Oxidative -Their Bio -Aids Enzyme Functions	My knowledge and skills	theoretical practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	The pituitary gland, the pancreas, the glands thyroid gland, and the sex	My knowledge and skills	theoretical practical	ninth
Ask group work questions	Lecture and practical lesson	Carbohydrate metabolism	My knowledge and skills	theoretical practical	The tenth
lesson -Mini work groups	Lecture and practical lesson	Building and oxidizing fatty acids	My knowledge and skills	theoretical practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	Protein metabolism	My knowledge and skills	theoretical practical	twelveth
ask questions	Lecture and practical lesson	its physical, chemical and -Urine pathological properties	My knowledge and skills	theoretical practical	Thirteenth
Asking practice questions	Lecture and practical lesson	Immunochemistry	My knowledge and skills	theoretical practical	fourteenth
Asking practice questions	Lecture and practical lesson	its chemical and physical -Blood properties	My knowledge and skills	theoretical practical	Fifteenth

**Development Plan Curriculum .١١**

- .Providing the possibility of academic support in organizing field visits -**
- Providing the appropriate classroom environment that enables the teacher to diversify -**  
  - .teaching strategies**
  - .Providing information technology in the campus library -**
- Hosting experts from outside the institute, or from the work environment for which they -**  
  - are preparing to benefit from their expertise in developing the course according to the**  
    - .actual needs of the labor market**

**Infrastructure .١٢**

<b>for pullers and agricultural Systematic book machines</b>	<b>books Required course .١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources .٢</b>
<b>Scientific journals, as well as research, letters theses of professors in the same specialty and</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

## Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities

Technical Institute / Shatra	Educational Institution .١
Department of Animal Production Techniques / Animal Health Branch	Department / Center Scientific .٢
Computer Application / ١ Computer Basics	Course name/code .٣
Present learning	Forms of attendance available .٤
Autumn semester / first stage	Semester/year .٥
hours of theoretical and practical class ٣ .	Number of hours of study .٦ (total)
٢ . ٢٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

and assessment outcomes and methods of teaching, learning Course .٩
Cognitive goals -A
<p>) Teaching students to understand the parts of a calculator and operating systems -١ A .and its commands for managing files and the various applications available (Ms -Dos programs that help in raising the Introducing students to important computer -٢ A .level of production Enable the student to know how to deal with devices in the computer lab, printers, -٣ A .monitors, and others</p>
Skills objectives of the program - B
<p>computer applications related to To provide the student with the skills of using - ١ B .the agricultural specialization and how to deal with them to support agricultural work Training the student to work with the computer to complete the work faster and - ٢ B .more accurately to reach high productivity o provide the student with the necessary skills to conduct general computer T - ٣ B .examinations and how to give appropriate scientific judgments</p>
Teaching and learning methods
Giving scientific and theoretical lectures through displays, powerpoints, slides, microscopes, experiments in examining plant samples, using various laboratory

.equipment and equipment, and a wooden canopy
Evaluation methods
Quizzes Take daily quick ucting monthly examsCond
Conducting semester and final exams
.emotional and value goals - C
.Enable the student to apply theoretical information in a practical way - \C
Develop the patriotic spirit of the student to increase production in quantity and - \C

Course Structure .\ .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	Definition of the calculator and its benefits, its generations, linking the parts of the calculator, the physical components of the calculator and the means of input software, the unit and output in it of measurement of memory, the definition of files and folders	My knowledge and skills	\ theoretical \ practical	sixth-first
ask questions	Lecture and practical lesson	System features, basic requirements for operation, WINDWS7 components of operating system, icon concept, style of dealing with DESKTOP START desktop home screen TASKBAR utilizing button mouse activities, importance and er components of the taskbar to ent programs and exit the system and turn off the calculator	My knowledge and skills	\ theoretical \ practical	X-VII
Listen and ask questions	Lecture and practical lesson	icon , window MY COMPUTER concept and recognition of its main components, dealing with icons, copying files and folders, cutting and pasting, getting to MY RECYCLE BIN know DOCUMENTS	My knowledge and skills	\ theoretical \ practical	-eleventh fourteenth
Practical exercise, meeting and groups work	Lecture and practical lesson	Properties of files, folders and disks, Change the desktop DESKTOP background Change the BACKGROUND COLOR colors of windows SCREEN SAVER	My knowledge and skills	\ theoretical \ practical	fifteenth to eighteenth
Practical exercise, meeting and	Lecture and practical	Mouse features Getting to know How to CONTROL PANAL the delete programs that have been	My knowledge and	\ theoretical \ cal	-Nineteen two-twenty

work groups	lesson	<b>PROGRAM AND installed through Getting to know someFEATURES such as ACCESSORIES accessories WORDPAD, CALCULATOR as PLAYER play video files WINDOSWS MEDIA</b>	skills	practica l	
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	<b>The concept of the calculator virus, the motives for the spread of viruses, how to get infected with the virus, the types of viruses according to the nature of the infection and damage, signs of infection of the virus to the computer, precautions to be taken he to avoid viruses entering t computer, dealing with one of the virus programs-anti</b>	My knowled ge and skills	theoreti cal practica l	-Twenty -third -twenty fourth
Case study Practical exercise and work groups	Lecture and practical lesson	<b>Networks and their types, network protocols forms, network</b>	My knowled ge and skills	theoreti cal practica l	fifth-twenty
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	<b>The Internet and its development, the Internet and the intranet, firewalls, some basic Internet concepts</b>	My knowled ge and skills	theoreti cal practica l	sixth-twenty
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	<b>Connect to the Internet, open the Internet browser, components of the Internet browser window toolbars, browser icons</b>	My knowled ge and skills	theoreti cal practica l	-Twenty seven
Ask group work questions	Lecture and practical lesson	<b>Web addresses, change the start close the HOME page page disconnect the browser and Internet, store favorite pages</b>	My knowled ge and skills	theoreti cal practica l	-twenty eighth
lesson -Mini work groups	Lecture and practical lesson	<b>Search engines, how to search for information on the network, copy websites for text and images from any application, download files from the Internet, prepare for printing, print</b>	My knowled ge and skills	theoreti cal practica l	nine-twenty
Practical exercise and workgroups	Lecture and practical lesson	<b>E- Mail and its Definition of email advantages, Create a GMAIL from Google search engine , write a new message, attach files with</b>	My knowled ge and skills	theoreti cal practica	thirty



		<p>read ATTACHMENT messages  reply to messages INBOX  pass incoming REPLAY  FORWARD , messages to others  delete messages, exit from mail  online</p>		1	
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<b>Curriculum Development Plan . 1 1</b>
<p>.Providing the possibility of academic support in organizing field visits -  diversify Providing the appropriate classroom environment that enables the teacher to -  .teaching strategies  .Providing information technology in the campus library -  Hosting experts from outside the institute, or from the work environment for which they -  to the are preparing to benefit from their expertise in developing the course according  .actual needs of the labor market</p>

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Supporting resources for each course	(Main references (sources . 2
Scientific journals, as well as research, letters and theses of professors in the same specialty	a. Recommended books and journals, references (scientific ( . . . . reports,
_www.google.com	B. Electronic references, websites

Technical Institute / Shatra	Educational Institution . 1
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Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific .٢
Human rights and human rights and democracy democracy	Course name/code .٣
Present learning	Forms of attendance available .٤
Autumn semester / first stage	Semester/year .٥
hours of theoretical and practical class ٣٠	Number of hours of study .٦ (total)
٢٠٢٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

Course Structure .١٠					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	-their definition -Human rights the roots and - their goals development of human rights in human rights in -human history ancient and middle ages	My knowledge and skills	٢ theoretical	the first
ask questions	Lecture and practical lesson	Human rights in the civilization of human rights in the - Mesopotamia a special study of -divine laws human rights in Islam	My knowledge and skills	٢ theoretical	Second
Listen and ask questions	Lecture and practical lesson	-Human rights in the Middle Ages Rights in sects, schools, theories, declarations and companies, their Human rights in -constitutions contemporary and modern history International recognition of - human rights in the League of Nations	My knowledge and skills	٢ theoretical	Third
And meet and work groups	Lecture and practical lesson	Regional recognition of human the European Convention -rights the - ١٩٥٠.on Human Rights in -non - ١٩٦٩American agreement governmental organizations and human rights	My knowledge and skills	٢ theoretical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	National Human Rights Human rights in -Organizations the Iraqi constitutions between theory and reality	My knowledge and skills	٢ theoretical	Fifth
lesson -Mini discussion and	Lecture and practical	The relationship between human rights and public freedoms in the Universal Declaration of Human	My knowledge and	٢ theoretical	VI

workgroups	lesson	Rights, regional charters and national constitutions	skills		
Case study and work groups	Lecture and practical lesson	Necessary human rights and -collective human rights economic, social and cultural human rights and civil and political human rights	My knowledge and skills	2 theoretical	seventh
Listen and ask questions and work groups	Lecture and practical lesson	realities in -rights Modern human the right to a clean -development the right to -environment -the right to religion -solidarity guarantees of respect and protection of human rights at the guarantees in the -national level guarantees -constitution and laws e principle of the rule of law in th	My knowledge and skills	2 theoretical	VIII
Ask questions, listen and work groups	Lecture and practical lesson	Guarantees in constitutional in freedom of the press -oversight guarantees of -and public opinion for human rights at the respect the role of the -international level United Nations in providing guarantees	My knowledge and skills	2 theoretical	ninth
Ask group work questions	Lecture and practical lesson	The role of the Arab League, the European Union, the African Union and ASEAN in respecting and the -protecting human rights the -general theory of freedoms origin of rights and freedoms	My knowledge and skills	2 theoretical	The tenth
lesson -Mini work groups	Lecture and practical lesson	The functional nature of the -concept of public freedoms philosophical considerations of structural and -the right to work economic considerations	My knowledge and skills	2 theoretical	eleventh
Listen to a mini lesson	Lecture and practical lesson	-legal basis for the rule of law The regulation of public liberties by public authorities	My knowledge and skills	2 theoretical	twelveth
ask questions	Lecture and practical lesson	judicial litigation or grievance -Non Determining the - Judicial appeal -state's responsibility for its legitimate actions	My knowledge and skills	2 theoretical	Thirteenth
ask questions	Lecture and practical lesson	The effect of the duality of public -eliminating public liberties freedoms in administrative its -equality -jurisprudence historical development	My knowledge and skills	2 theoretical	fourteenth
ask questions	Lecture and	The recent development of the idea -gender equality -of equality	My knowled	2 theoreti	Fifteenth

	practical lesson	equality between individuals their beliefs and their according to race	ge and skills	cal	
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<b>Curriculum Development Plan . ١١</b>	
<p><b>.Providing the possibility of academic support in organizing field visits - to diversify</b></p> <p><b>Providing the appropriate classroom environment that enables the teacher - .teaching strategies</b></p> <p><b>.Providing information technology in the campus library -</b></p> <p><b>Hosting experts from outside the institute, or from the work environment for which they -</b></p> <p><b>ng to the are preparing to benefit from their expertise in developing the course accordi</b></p> <p><b>.actual needs of the labor market</b></p>	

<b>Infrastructure . ١٢</b>	
<b>Human Rights as well as Principles of Textbook Democracy</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and scientific journals, ) references ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

## Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Technical Institute / Shatra	Educational Institution .١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific .٢
pathology animal	Course name/code .٣
Present learning	of attendance available Forms .٤
Spring semester / first stage	Semester/year .٥
hours of theoretical and practical class ٧٥	Number of hours of study .٦ (total)
٢٠٢٢	Date of preparation of this .٧ description
student a diploma in the theoretical and practical Granting the : Course Objectives .٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course .٩
- goals Cognitive - A To familiarize the student with the concept of animal diseases -١A The student should classify diseases on the basis of the type of causative agent and -٢A the type of animal affected diseases and the epidemic-That the student separates between epidemic and non -٣A difference in management programs dealing with them between them The student learns how to treat common diseases and the difference in treatment -٤A .requirements between them health programs in animal fields to The student learns how to establish integrated - ٥ .prevent the occurrence of diseases
.Skills objectives of the course - B - Introducing the student to the concept of animal diseases - ١B The student's ability to evaluate health programs and compare them with old - ٢B .programs in terms of therapeutic efficiency and necessary supplies Introducing students to how to treat various diseases and the effect of real - ٣B - conditions on them from lighting and ventilation

<b>Teaching and learning methods</b>
.scientific and theoretical lectures through display screens, PowerPoint and slides Giving
<b>Evaluation methods</b>
Quizzes Take daily quick Conducting monthly exams Conducting semester and final exams
- Emotional and value goals - C according to the student's ability, and that the goal of this skill skill of thinking The - 1C is for the student to believe in what is tangible and understand .When, what and how he should think and improve the ability to think reasonably Observation and Perception - 2C Analysis and interpretation 3C

Structure Course .1 .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	Definition of pathology, definition of lesion, brief about pathology	My knowledge and skills	2 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	terms and definition Pathological of pathology	My knowledge and skills	2 theoretical my 3 work	Second
Listen and ask questions	Lecture and practical lesson	cell, degeneration, growth Normal	My knowledge and skills	2 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	Inflammation, the function of the inflammatory response, these components of the response	My knowledge and skills	2 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Classification of exudation healing or repair, granulation tissue and healing	My knowledge and skills	2 theoretical my 3 work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Growth disorders Tissue Dystrophy -deficiency	My knowledge and skills	2 2 theoretical my 3 work	VI

Case study and work groups	Lecture and practical lesson	-hyperplasia -Hyperplasia metaplasia	My knowledge and skills	۲ theoretical my ۳ work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	The effect of radiation on normal cells and histological changes due to radiation	My knowledge and skills	۲ theoretical my ۳ work	VIII
Ask questions, listen and work groups	Lecture and practical lesson	Tumors, definition of a tumor, and classification of tumors Causes of a tumor	My knowledge and skills	۲ theoretical my ۳ work	ninth
Ask group work questions	Lecture and practical lesson	Blood disorders, hyperemia, venous congestion, hemorrhage	My knowledge and ge skills	۲۲ theoretical my ۳ work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Infarction, -Khtar -Khazb Al-Al accession	My knowledge and skills	۲ theoretical my ۳ work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Lung tumors, tuberculosis	My knowledge and skills	۲ theoretical my ۳ work	twelveth
ask questions	Lecture and practical lesson	Helping factors in acid diseases	My knowledge and skills	۲ theoretical my ۳ work	Thirteenth
ask questions	Lecture and practical lesson	The relationship between parasite and host	My knowledge and skills	۲ theoretical my ۳ work	fourteenth
ask questions	Lecture and practical lesson	preparation for histological Tissue examination	My knowledge and skills	۲ theoretical my ۳ work	Fifteenth

.Providing the possibility of academic support in organizing field visits -  
 the teacher to diversify Providing the appropriate classroom environment that enables -  
 .teaching strategies  
 .Providing information technology in the campus library -  
 Hosting experts from outside the institute, or from the work environment for which they -  
 urse according to the are preparing to benefit from their expertise in developing the co  
 .actual needs of the labor market

### course description form

<b>Infrastructure . ١٢</b>	
<b>Human Rights as well as Principles of Textbook Democracy</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities



<b>Technical Institute / Shatra</b>	<b>Educational Institution . ١</b>
<b>Department of Animal Production Techniques/ Animal Health Branch</b>	<b>Department / Center Scientific . ٢</b>
<b>_histology</b>	<b>Course name/code . ٣</b>
<b>Present learning</b>	<b>attendance available Forms of . ٤</b>
<b>Spring semester / first stage</b>	<b>Semester/year . ٥</b>
<b>hours of theoretical and practical class60</b>	<b>Number of hours of study . ٦ (total)</b>
<b>٢202</b>	<b>Date of preparation of this . ٧ description</b>
<b>student a diploma in the theoretical and practical Granting the : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

<b>outcomes and methods of teaching, learning and assessment Course . ٩</b>
<b>Cognitive goals -A</b> <b>animal's body Identify the different tissues and organs of the - ١ A</b> <b>the process of embryogenesis Knowing - ٢ A</b> <b>of cell divisions Knowledge - ٣ A</b> <b>different animals Knowing the red and white blood cell counts in - ٤ A</b>
<b>related objectives of the course-Skill -b</b> <b>of different animals Conducting laboratory analyzes of the blood - ١ B</b> <b>Cholesterol measurement - ٢ B</b> <b>Diagnosis of types of anemia - ٣ B</b>
<b>Teaching and learning methods</b>
<b>.Giving scientific and theoretical lectures through display screens, PowerPoint and slides</b>
<b>Evaluation methods</b>
<b>Quizzes Take daily quick exams</b> <b>Conducting monthly exams</b> <b>Conducting semester and final exams</b>
<b>.emotional and value goals - C</b> <b>.Enable the student to apply theoretical information in a practical way - ١ C</b> <b>spirit of the student to increase production in quantity and Develop the patriotic - ٢ C</b> <b>.quality</b> <b>the concept of community service and the best way to deal with the Instilling - ٣ C</b> <b>.simple strata of the society, the peasants and farmers</b> <b>eterinarian assistant among students by Develop the ethics of the profession of v - ٤ C</b> <b>.following the correct professional behavior</b>

skills (other skills related to employability rehabilitative Transferred general and -D  
 .(and personal development  
 -\D  
 -\D  
 -\D  
 -\D

Course Structure .\ .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions answers and lesson	Lecture and practical lesson	Definition of histology, cell, components, divisions	My knowledge and skills	\ theoretical my \ work	the first
ask questions	Lecture and practical lesson	Tissue types: connective, neuromuscular, epithelial tissue	My knowledge and skills	\ theoretical my \ work	Second
Listen and ask questions	Lecture and practical lesson	types of - Structure of the skin horns -hoofs -customary glands	My knowledge and skills	\ theoretical my \ work	Third
And meet and work groups	Lecture and practical lesson	Types of Connective Tissue Adult -Pleural Connective Tissue Skeletal Connective Tissue Vascular Connective Connective Tissue	My knowledge and skills	\ theoretical my \ work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Structural connective tissue: cartilage and its types, bones and their structure, growth and types	My knowledge and skills	\ theoretical my \ work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Vascular connective tissue: shape, size, and function of blood cells and platelets	My knowledge and skills	\ theoretical my \ work	VI
Case study	Lecture	Arteries and veins, their types and	My	\	seventh

and work groups	and practical lesson	structure, and the installation of the heart and valves	knowledge and skills	theoretical my work	
Listen and ask questions and work groups	Lecture and practical lesson	Structural -muscle tissue. Smooth Cardiac -	My knowledge and skills	theoretical my work	VIII
Ask questions, listen and work groups	Lecture and practical lesson	Nervous tissue: types of nerve cells, ganglia and nerve fibers	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	Gastrointestinal tract esophagus, stomach, intestines, respiratory system, nose and throat, trachea. lung	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Urinary system kidney ureter bladder urethra female and male reproductive system	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Embryology Introduction and its relationship to other sciences	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	The steps of sexual development to the formation from fertilization of the cassula	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	Layers Ectoderm , Mesoderm , Endoderm	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	The stage of formation of the primitive layers and the formation of the early embryo of the chick hours until the age of	My knowledge and skills	theoretical my work	Fifteenth

.academic support in organizing field visits Providing the possibility of -  
 Providing the appropriate classroom environment that enables the teacher to diversify -  
 .teaching strategies  
 .Providing information technology in the campus library -  
 rom the work environment for which they Hosting experts from outside the institute, or f -  
 are preparing to benefit from their expertise in developing the course according to the  
 .actual needs of the labor market

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Scientific journals, as well as research, letters and theses of professors in the same specialty	references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific . ٢
_ Parasitology	Course name/code . ٣
Present learning	of attendance available Forms . ٤

Spring semester / first stage	Semester/year . <sup>o</sup>
hours of theoretical and practical class60	Number of hours of study . <sup>٦</sup> (total)
٢٠٢٢	Date of preparation of this . <sup>٧</sup> description
the student a diploma in the theoretical and practical Granting : Course Objectives . <sup>٨</sup> aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

Course Structure . <sup>١٠</sup>					
Evaluation method	education method	or topic Unit name / course	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	Parasitology, parasites and types of parasites for their way of life, an overview of immunity against parasite infection, the effect of parasitism on the parasite and the host and the relationship between them	My knowledge and skills	1 theoretical my ٣ work	the first
ask questions	Lecture and practical lesson	How is infection transmitted, life cycle of parasites, how to name parasites general classification and	My knowledge and skills	١ theoretical my ٣ work	Second
and Listen ask questions	Lecture and practical lesson	Family Flatworms, Characteristics and General Classification, Family Fascioliasis Genus Fasciola	My knowledge and skills	١ theoretical my ٣ work	Third
And meet and work groups	Lecture and practical lesson	Heterophytic family, paramphostomatids, schistosomatids	My knowledge and skills	١ theoretical my ٣ work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	traits and classification Tapeworms	My knowledge and skills	١ theoretical my ٣ work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Tenedi family	My knowledge and skills	١ theoretical my ٣ work	VI
Case study and work groups	Lecture and practical lesson	Nematodes, traits and classification	My knowledge and skills	١ theoretical my ٣ work	seventh
Listen and ask	Lecture and	Hetracide, oxyurid	My knowledge	١ theore	VIII

questions and work groups	practical lesson		e and skills	tical my work	
Ask questions, listen and work groups	Lecture and practical lesson	Strongyloidi angulstomatedi	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	reindeer Stomach worms, intestines in cattle and sheep	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Primary, trypanosoma, leishmaniasis, flagella	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Babesiosis, Thaleria, Plasmodium	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	Insects and spiders	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	Myiasis in cattle, sheep, and horses	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	Prevention of internal and external parasites	My knowledge and skills	theoretical	Fifteenth

<b>Curriculum Development Plan .\ \</b>
<ul style="list-style-type: none"> <li><b>.Providing the possibility of academic support in organizing field visits -</b></li> <li><b>Providing the appropriate classroom environment that enables the teacher to diversify -</b></li> <li style="text-align: right;"><b>.teaching strategies</b></li> <li style="text-align: right;"><b>.information technology in the campus library Providing -</b></li> <li><b>Hosting experts from outside the institute, or from the work environment for which they -</b></li> </ul>

are preparing to benefit from their expertise in developing the course according to the  
 .actual needs of the labor market

<b>Infrastructure .١٢</b>	
<b>Human Rights as well as Principles of Textbook Democracy</b>	<b>Required course books .١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources .٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

**Course description**

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific . ٢
nutrition animal	Course name/code . ٣
Present learning	of attendance available Forms . ٤
Spring semester / first stage	Semester/year . ٥
hours of theoretical and practical class ٧٥	Number of hours of study . ٦ (total)
٢ . ٢٢	Date of preparation of this . ٧ description
student a diploma in the theoretical and practical aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	Granting the : Course Objectives . ٨

outcomes and methods of teaching, learning and assessment Course . ٩
<p>goals cognitive - A</p> <p>To familiarize the student with the concept of ruminant feeding - ١A</p> <p>The student should classify ruminants on the basis of production, age, and - ٢A conditions suitable for breeding</p> <p>ern era and That the student separate between feeding ruminants in the mod - ٣A managing it in the past, and the difference in programs</p> <p>Nutrition past and present</p> <p>The student learns how to feed cows and sheep, except for milk or meat animals, - ٤A necessities and the difference in</p> <p>Education between the two</p> <p>That the student learn how to establish poultry breeding halls and the appropriate - ٥A equipment for breeding from heat</p> <p>Humidity, lighting and ventilation</p>
<p>.Skills objectives of the course - B</p> <p>feeding Introducing the student to the concept of ruminant - ١B</p> <p>The student's ability to evaluate the projects of modern ruminants and compare - ٢B - them with the old projects in terms of production and supplies</p> <p>Introducing students to how to set up lighting and ventilation systems and how to - ٣B - alculate the area allocated for educationc</p> <p>For both milk cows, meat and sheep</p>



<b>Teaching and learning methods</b>
.Giving scientific and theoretical lectures through display screens, PowerPoint and slides
<b>Evaluation methods</b>
Quizzes Take daily quick exams Conducting monthly exams Conducting semester and final exams
<p style="text-align: center;">goals Emotional and value -C skill of thinking according to the student's ability, and that the goal of this skill The - 1C understand is for the student to believe in what is tangible and .When, what and how he should think and improve the ability to think reasonably</p> <p style="text-align: center;">Observation and Perception - 2C Analysis and interpretation - 3C Preparation and calendar - 4C</p>

<b>Course Structure . 1 .</b>					
<b>Evaluation method</b>	<b>education method</b>	<b>Unit name / course or topic</b>	<b>Required learning outcomes</b>	<b>hours</b>	<b>the week</b>
Questions and answers lesson	Lecture and practical lesson	The nutritional compounds of the ' carbohydrates fodder (water proteins, fats, mineral salts, vitamins), their types, and their functions	My knowledge and skills	2 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	The nutritional compounds of the ' carbohydrates fodder (water proteins, fats, minerals, vitamins), their types, and their functions	My knowledge and skills	2 theoretical my 3 work	Second
Listen and ask questions	Lecture and practical lesson	The digestive system of ruminants parts, functions, evolution of the ) organ, differences in the structures of some different parts among animals, glands attached to the organ and their functions	My knowledge and skills	2 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	Digestive system of monogastric animals (parts, functions, glands attached to the organ and their functions	My knowledge and skills	2 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	digestion and The processes of absorption of the food compounds of the supernatant ( simple and proteins, ' carbohydrates complex digestive system of lipids) in the ruminants and the materials	My knowledge and skills	2 theoretical my 3 work	Fifth

		resulting from various metabolic processes			
lesson -Mini discussion and workgroups	Lecture and practical lesson	The processes of digestion and absorption of the food compounds (simple and complex carbohydrates, proteins, lipids) in the digestive system of ruminants and the substances resulting from various metabolic processes	My knowledge and skills	theoretical my work	VI
Case study and work groups	Lecture and practical lesson	The processes of digestion and absorption of the nutritional compounds of the feed material (simple and complex carbohydrates, proteins, lipids) in the digestive system of monogastric animals (poultry and materials resulting from various metabolic processes)	My knowledge and skills	theoretical my work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	Microorganisms in the digestive systems of different animals (their locations, types, and functions) and their relationship to the metabolic processes of food compounds	My knowledge and skills	theoretical my work	VIII
Ask questions, listen and work groups	Lecture and practical lesson	The use of protein nitrogen in ruminants feeding materials (types) and poisoning	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	Feeding milk and meat cows (the nutritional needs of cows for different purposes) and newborn feeding stages, male feeding stages	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Sheep and goats feeding (nutritional needs for different purposes) and newborn feeding stages, stages of male feeding	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Nutritional requirements of poultry and turkeys (energy, protein, minerals, vitamins)	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	Methods of feed to poultry and turkeys, food rationing and supplementary feeds used in poultry diets, nutrition	My knowledge and skills	theoretical my work	Thirteenth

		production relationship with egg and quality, nutrition relationship production meat with		work	
ask questions	Lecture and practical lesson	Feed materials used in feeding different animals (cows, sheep, types, (buffaloes, poultry, turkeys caused by benefits, and problems (their impact on animal production	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	Some metabolic and nutritional diseases affecting ruminant and monogastric animals (cattle, (sheep, poultry, turkey	My knowledge and skills	theoretical my work	Fifteenth

Curriculum Development Plan . 11

.support in organizing field visits Providing the possibility of academic -  
Providing the appropriate classroom environment that enables the teacher to -  
.diversify teaching strategies  
.Providing information technology in the campus library -  
ork environment for Hosting experts from outside the institute, or from the w -  
which they are preparing to benefit from their expertise in developing the  
.course according to the actual needs of the labor market

### course description form

### Course description

<p>This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programlt mu . learning opportunities</p>	
method book	Required course books . 1
resources for each course Supporting	(Main references (sources . 2
Scientific journals, as well as research, letters and theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques / Animal Health Branch	Department / Center Scientific . ٢
pharmacology	Course name/code . ٣
Present learning	attendance available Forms of . ٤
Spring semester / first stage	Semester/year . ٥
hours of theoretical and practical class ٦٠	Number of hours of study . ٦ (total)
٢٠٢٢	Date of preparation of this . ٧ description
student a diploma in the theoretical and practical Granting the : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course . ٩
Cognitive goals -A †How to dispense the medicine - ١A he uses to treat his animals of the disadvantages of the medicines the breeder Warn - ٢A

Course Structure . ١٠					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	and Definition of pharmacology related sciences Sources of drugs and methods of administration of drugs Factors that affect the body's response to drugs, types of drug action	My knowledge and skills	١ theoretical my ٣ work	the first
ask questions	Lecture and practical lesson	Gastrointestinal drugs and depressants of all kinds, antacids, emetics, antiemetics	My knowledge and skills	١ theoretical my ٣ work	Second
Listen and ask questions	Lecture and practical lesson	Gas repellents, gas absorbers, rumen fermentation, laxatives †antispasmodics	My knowledge and skills	١ theoretical my ٣ work	Third
And meet and work groups	Lecture and practical lesson	Laxatives Astringents Diaphragm protectors Common medicines used in the digestive system Local and general anesthesia	My knowledge and skills	١ theoretical my ٣ work	the fourth
Practical	Lecture	Drugs that affect the nervous	My	١	Fifth

exercise, meeting and work groups	and practical lesson	system, stimulants, drugs that affect the central nervous system, stimulants, depressants, sedatives, pain relievers, . contraceptives	knowledge and skills	theoretical my work	
lesson -Mini discussion and workgroups	Lecture and practical lesson	Respiratory medication, respiratory stimulants, filters , bronchial suppressants cough antispasmodics, lung .anthelminths	My knowledge and skills	theoretical my work	VI
Case study and work groups	Lecture and practical lesson	Pharmacokinetics of the system, uterine reproductive stimulants and astringents, drugs affecting udder and milk secretion, drugs affecting sexual desire and drugs used in mastitis	My knowledge and skills	theoretical my work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	Urinary tract medicines, trainers, Drugs that antidiuretics types and affect urinary tract contraction	My knowledge and skills	theoretical my work	VIII
Ask questions, listen and work groups	Lecture and practical lesson	inflammatory-Blood thinners, anti aggressive drugs, drugs that - skin increase skin secretions, condoms, astringents, dermal .epidermals	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	applications their Antibiotics and according to their effect on the various parts of the microbe Examples of antibiotics classes	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Sulfanamides of their types have an effect on the microbe chymotrypia protozoa, including Babezia liberia chornosoma) ) antifungals	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	repellents all kinds of Repellents of of tissue parasites	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	Kimother Api External parasites, insects and rodents Pharmaceutical additives Feed such as vitamins and salts	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical	Toxins, pesticides, toxic effects of and factors affecting it drugs	My knowledge and	theoretical	fourteenth

	lesson		skills	my work	
ask questions	Lecture and practical lesson	Inorganic Toxins Organic Toxins Insecticides, Toxic Plants and Animal Source Organic Toxins of	My knowledge and skills	theoretical my work	Fifteenth

<b>Curriculum Development Plan ١١</b>
<p>.academic support in organizing field visits Providing the possibility of -</p> <p>Providing the appropriate classroom environment that enables the teacher to diversify -</p> <p>.teaching strategies</p> <p>.Providing information technology in the campus library -</p> <p>rom the work environment for which they Hosting experts from outside the institute, or f -</p> <p>are preparing to benefit from their expertise in developing the course according to the</p> <p>.actual needs of the labor market</p>

## course description form

### Course description

<b>Infrastructure ١٢</b>
<p>This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities</p>

<b>Technical Institute / Shatra</b>	<b>Educational Institution ١٣</b>
<b>Department of Animal Production Techniques / Animal Health Branch</b>	<b>Department / Center Scientific ١٤</b>
<b>_ surgery</b>	<b>Course name/code ١٥</b>
<b>Present learning</b>	<b>attendance available Forms of ١٦</b>
<b>Spring semester / first stage</b>	<b>Semester/year ١٧</b>
<b>hours of theoretical and practical class ١٨</b>	<b>Number of hours of study ١٩</b>

	(total)
۲۰۲۲	Date of preparation of this description
student a diploma in the theoretical and practical aspects to serve the preparation of a graduate of a distinguished level and his commitment to the practical arena	

Course Structure					
Evaluation method	education method	name / course or topic Unit	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	Define surgery, surgical terminology	My knowledge and skills	1 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	Surgical operations, their bottoms, the purpose of the operating room	My knowledge and skills	1 theoretical my 3 work	Second
Listen and ask questions	Lecture and practical lesson	Surgical drugs, factors affecting operations the conduct of surgical	My knowledge and skills	1 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	and sutures needles Surgical Types of surgical sutures	My knowledge and skills	1 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Types of surgical sutures	My knowledge and skills	1 theoretical my 3 work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Surgical anesthesia Types of drugs Types of surgical anesthesia	My knowledge and skills	1 theoretical my 3 work	VI
Case study and work groups	Lecture and practical lesson	stages of anesthesia	My knowledge and skills	1 theoretical my 3 work	seventh
Listen and ask	Lecture and	and their types, treatment Wounds of infected wounds and wounds	My knowledge	1 theoretical	VIII



questions and work groups	practical lesson		ge and skills	cal my ʻ work	
Ask questions, listen and work groups	Lecture and practical lesson	Fractures, their types, treatment and factors affecting them	My knowledge and skills	theoretical my ʻ work	ninth
Ask group work questions	Lecture and practical lesson	Burns and their types of treatment, the factors affecting them	My knowledge and skills	theoretical my ʻ work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Tumors, cysts, bruises, fistulas	My knowledge and skills	theoretical my ʻ work	eleventh
Listen to a lesson mini	Lecture and practical lesson	Hernia bruises, kinkrin, hernia	My knowledge and skills	theoretical my ʻ work	twelveth
ask questions	Lecture and practical lesson	rays, their characteristics and -X methods of prevention	My knowledge and skills	theoretical my ʻ work	Thirteenth
ask questions	Lecture and practical lesson	benefit rays is the-The danger of x e of	My knowledge and skills	theoretical my ʻ work	fourteenth
ask questions	Lecture and practical lesson	Radiographs, and the process of diagnosing fractures	My knowledge and skills	theoretical my ʻ work	Fifteenth

Curriculum Development Plan . ʻ ʻ

.the possibility of academic support in organizing field visits Providing -  
Providing the appropriate classroom environment that enables the teacher to -  
.diversify teaching strategies  
.Providing information technology in the campus library -



the institute, or from the work environment for Hosting experts from outside - which they are preparing to benefit from their expertise in developing the .course according to the actual needs of the labor market

<b>Infrastructure .١٢</b>	
<b>method book</b>	<b>Required course books .١</b>
<b>Supporting resources for each course</b>	<b>(references (sources Main .٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>·B. Electronic references websites</b>

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities

<b>Technical Institute / Shatra</b>	<b>Educational Institution . ١</b>
<b>Department of Animal Production Techniques/ Animal Health Branch</b>	<b>Department / Center Scientific . ٢</b>
<b>disease infectious</b>	<b>Course name/code . ٣</b>
<b>Present learning</b>	<b>of attendance available Forms . ٤</b>
<b>Autumn semester / second stage</b>	<b>Semester/year . ٥</b>
<b>hours of theoretical and practical class75</b>	<b>Number of hours of study . ٦ (total)</b>
<b>٢ . ٢٢</b>	<b>Date of preparation of this . ٧ description</b>
<b>the student a diploma in the theoretical and practical Granting : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

<b>outcomes and methods of teaching, learning and assessment Course . ٩</b>
<b>goals Cognitive -A</b>
<b>Teaching students about the most important causes of infectious diseases in - ١ A animals, such as viruses, bacteria, and others</b>
<b>Introducing students to the most important procedures to be followed while - ٢ A diagnosing an infectious disease</b>
<b>the common diseases between humans and animals Know - ٣ A</b>
<b>Skills objectives of the program - B</b>
<b>To provide the student with skills in dealing with infectious and epidemic - ١ B .diseases</b>
<b>infectious Training the student on preventive measures to avoid the spread of - ٢ B .diseases</b>
<b>To provide the student with the necessary skills to give appropriate scientific - ٣ B .judgments for pathological injuries</b>
<b>Teaching and learning methods</b>
<b>.and slides Giving scientific and theoretical lectures through display screens, PowerPoint</b>
<b>Evaluation methods</b>
<b>Quizzes Take daily quick</b>
<b>Conducting monthly exams</b>
<b>Conducting semester and final exams</b>

.emotional and value goals - C

.Enable the student to apply theoretical information in a practical way - 1C

patriotic spirit of the student to increase production in quantity and Develop the - 2C

.quality

the concept of community service and the best way to deal with the Instilling - 3C

.simple strata of the society, the peasants and farmers

**Course Structure .10**

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	White diarrhea in calves and salmonella in calves	My knowledge and skills	2 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	Intestinal poisoning, dsentry lambs	My knowledge and skills	2 theoretical my 3 work	Second
and Listen ask questions	Lecture and practical lesson	soft kidney disease	My knowledge and skills	2 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	mastitis	My knowledge and skills	2 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	anthrax, hemorrhagic sepsis	My knowledge and skills	2 theoretical my 3 work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Symptomatic anthrax, foot and mouth disease	My knowledge and skills	2 theoretical my 3 work	VI
Case study and work groups	Lecture and practical lesson	Black hoof rot disease	My knowledge and skills	2 theoretical my 3 work	seventh
Listen and ask	Lecture and	Tuberculosis, Jones' disease	My knowledge	2 theoretical	VIII

questions and work groups	practical lesson		ge and skills	cal my work	
Ask questions, listen and work groups	Lecture and practical lesson	<b>Tongue sclerosis, actinomycetes</b>	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	<b>Pseudomonas tuberculosis in sheep, contagious pleuropneumonia</b>	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	<b>Infectious abortion disease (Brucella) Trichomoniasis, Febria)</b>	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	<b>salmonellosis disease</b>	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	<b>rinderpest</b>	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	<b>Smallpox in sheep and cows</b>	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	<b>tetanus disease in sheep</b>	My knowledge and skills	theoretical my work	Fifteenth

**Curriculum Development Plan . 11**

- .Providing the possibility of academic support in organizing field visits -
- Providing the appropriate classroom environment that enables the teacher to diversify -
- .teaching strategies
- .library Providing information technology in the campus -

Hosting experts from outside the institute, or from the work environment for which they - are preparing to benefit from their expertise in developing the course according to the .actual needs of the labor market

	<b>Infrastructure .١٢</b>
<b>method book</b>	<b>course books Required .١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources .٢</b>
<b>Scientific journals, as well as research, letters specialty and theses of professors in the same</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available

<b>Technical Institute / Shatra</b>	<b>Educational Institution .١</b>
<b>Department of Animal Production Techniques/Animal Health Branch</b>	<b>Department / Center Scientific .٢</b>

diseases poultry	Course name/code .٣
Present learning	of attendance available Forms .٤
Autumn semester / second stage	Semester/year .٥
hours of theoretical and practical class75	Number of hours of study .٦ (total)
٢٠٢٢	Date of preparation of this .٧ description
the student a diploma in the theoretical and practical Granting : Course Objectives .٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

Course Structure .١٠					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	<b>The process of -Poultry Anatomy Devices and -opening the corpse tools used An overview of the .different body systems</b>	My knowledge and skills	٢ theoretical my ٣ work	the first
ask questions	Lecture and practical lesson	<b>Digestive system, respiratory system</b>	My knowledge and skills	٢ theoretical my ٣ work	Second
Listen and ask questions	Lecture and practical lesson	<b>Urogenital system, circulatory system</b>	My knowledge and skills	٢ theoretical my ٣ work	Third
And meet and work groups	Lecture and practical lesson	<b>Immune system, nervous system</b>	My knowledge and skills	٢ theoretical my ٣ work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	<b>disease, causes, Definition of classification of poultry diseases according to their pathogens, how to diagnose poultry diseases</b>	My knowledge and skills	٢ theoretical my ٣ work	Fifth
lesson -Mini discussion	Lecture and	<b>Newcastle, ) Viral diseases infectious bronchitis, bird pox, cambura</b>	My knowledge	٢ theoretical	VI

and workgroups	practical lesson		dge and skills	my work	
Case study and work groups	Lecture and practical lesson	<b>Encephalitis and spinal cord infection, infectious hepatitis, bird flu</b>	My knowledge and skills	theoretical my work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	<b>Bacterial diseases: (Blorum, (typhoid, paratyphoid, E. coli</b>	My knowledge and skills	theoretical my work	VIII
Ask questions, listen and work groups	Lecture and practical lesson	<b>Tuberculosis, avian syphilis, fermentative enteritis</b>	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	<b>Air sacs infection, contagious cholera cold, poultry</b>	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	<b>Cancerous diseases: (Marc's (disease, PCOS, carcinoid tumors</b>	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	<b>Parasitic diseases: (Coccidiosis, (Histomonas, Trichomonas</b>	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	<b>:Nutritional deficiency diseases protein, carbohydrates, fats, ) (vitamins, salts</b>	knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	<b>Fungal diseases (aspergillosis, (fungi of the gut, skin diseases</b>	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	<b>Breeding errors diseases poisoning, foot abscess, myositis ) (of the chest</b>	My knowledge and skills	theoretical my work	Fifteenth

**Curriculum Development Plan . ١١**

**.academic support in organizing field visits Providing the possibility of -  
 Providing the appropriate classroom environment that enables the teacher to diversify -  
 .teaching strategies  
 .Providing information technology in the campus library -  
 rom the work environment for which they Hosting experts from outside the institute, or f -  
 are preparing to benefit from their expertise in developing the course according to the  
 .actual needs of the labor market**

<b>Infrastructure . ١٢</b>	
<b>method book</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

**Course description**



This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific . ٢
physiologyreproductive	Course name/code . ٣
Present learning	Forms of attendance available . ٤
Autumn semester / second stage	Semester/year . ٥
hours of theoretical and practical class75	Number of hours of study . ٦ (total)
٢ . ٢٢	Date of preparation of this . ٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course . ٩
Cognitive goals -A organs and functions Knowledge of male and female reproductive - ١ A and its widespread use Teaching students about IVF - ٢ A genetics To improve For the laboratory tests the methods of semen preservation and Learn - ٣ A feminine and oocytes the memory life safe of the effectiveness
Skills objectives of the program - B Contribute to community service through consultancy in all aspects of animal - ١ B b production . in the field the process of artificial insemination carry out Training the student to - ٢ Providing the student with the necessary skills to conduct laboratory tests for sperm - .Training students to conduct the process of detecting pregnancy in a different way -B
hodsTeaching and learning met
.Giving scientific and theoretical lectures through display screens, PowerPoint and slides
Evaluation methods
Quizzes Take daily quick Conducting monthly exams Conducting semester and final exams
.emotional and value goals - C .student to apply theoretical information in a practical way Enable the - ١ C Develop the patriotic spirit of the student to increase production in quantity and - ٢ C .quality the concept of community service and the best way to deal with the Instilling - ٣ C

Course Structure . 1 .					
Evaluation method	education method	course or topic / Unit name	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	The importance of reproductive physiology and artificial insemination and its relationship to genetic improvement	My knowledge and skills	2 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	Endocrine glands and their relationship to reproduction	My knowledge and skills	2 theoretical my 3 work	Second
Listen and ask questions	Lecture and practical lesson	and sexual Sexual puberty maturity and the factors affecting it	My knowledge and skills	2 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	Physiology of the female and male reproductive system	My knowledge and skills	2 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	The interesting cycle, its stages .and the factors affecting it	My knowledge and skills	2 theoretical my 3 work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Ovarian physiology and the hormones secreted from it	My knowledge and skills	2 theoretical my 3 work	VI
Case study and work groups	Lecture and practical lesson	- Pregnancy diagnosis	My knowledge and skills	2 theoretical my 3 work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	Ovarian work and oocyte transfer	My knowledge and skills	2 theoretical my 3 work	VIII
Ask questions, listen and	Lecture and practical	The work of the testicles and auxiliary gonads	My knowledge and	2 theoretical	ninth

work groups	lesson		skills	my work	
Ask group work questions	Lecture and practical lesson	<b>Sperm Physiology and Synthesis</b>	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	<b>Semen preservation and semen freezing methods</b>	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	<b>Fertility, pregnancy, hormonal control, and changes in the female reproductive system</b>	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	<b>Artificial insemination in sheep and poultry</b>	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	<b>-Reproductive efficiency of cows Reproductive efficiency of bulls</b>	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	<b>multiple -Embryo transfer ovulation. twins. eroticism unite</b>	My knowledge and skills	theoretical my work	Fifteenth

#### Curriculum Development Plan . 11

- .Providing the possibility of academic support in organizing field visits -
- Providing the appropriate classroom environment that enables the teacher to -
  - .strategies diversify teaching
- .Providing information technology in the campus library -
- Hosting experts from outside the institute, or from the work environment for -
  - which they are preparing to benefit from their expertise in developing the
  - .of the labor market course according to the actual needs

<b>Infrastructure . ١٢</b>	
<b>method book</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>well as research, letters Scientific journals, as and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities

Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific .٢
clinic 1 / \ Clinics	Course name/code .٣
Present learning	Forms of attendance available .٤
Autumn semester / second stage	Semester/year .٥
hours of theoretical and practical class60	Number of hours of study .٦ (total)
٢ . ٢٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .^ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course .٩	
Teaching students to deal with sick cases inside the veterinary hospital or dispensary -١ A	Cognitive goals -A
To diagnose and treat diseases in general -٢ A	
Teaching the student about minor surgical procedures -٣ A	
Teaching the student to sew wounds -٤ A	
.To provide the student with skills in the field of veterinary medicine -١ B	Skills objectives of the program - B
.Training the student on the skills of dealing with and diagnosing disease cases -٢ B	
appropriate scientific To provide the student with the necessary skills to give - judgments	
Teaching and learning methods	
.Giving scientific and theoretical lectures through display screens, PowerPoint and slides	
Evaluation methods	
Quizzes Take daily quick	
Conducting monthly exams	
final exams Conducting semester and	
.emotional and value goals - C	
.Enable the student to apply theoretical information in a practical way -١ C	
Develop the patriotic spirit of the student to increase production in quantity and .quality -٢ C	
nity service and the best way to deal with the the concept of commu Instilling -٣ C	
.simple strata of the society, the peasants and farmers	
skills (other skills related to employability rehabilitative Transferred general and -D	
	.(and personal development
	-١ D
	-٢ D
	-٣ D
	-٤ D

Structure Course .١٠					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions answers and lesson	Lecture and practical lesson	The student is trained in veterinary hospitals and clinics on the theoretical and practical lessons , that have been studied immunizing animals against infectious diseases and performing minor surgical operations	My knowledge and skills	my ٤ work	the first

### Curriculum Development Plan .١١

- .Providing the possibility of academic support in organizing field visits -
- Providing the appropriate classroom environment that enables the teacher -
  - .to diversify teaching strategies
  - .technology in the campus library Providing information -
- Hosting experts from outside the institute, or from the work environment -
- for which they are preparing to benefit from their expertise in developing
  - .the course according to the actual needs of the labor market

### Infrastructure .١٢

There is no textbook	Required course books . ١
Supporting resources for each course	(Main references (sources . ٢
Scientific journals, as well as research, letters and theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific . ٢
breeding and production Fish	Course name/code . ٣
Present learning	Forms of attendance available . ٤
Autumn semester / second stage	Semester/year . ٥
hours of theoretical and practical class ٧٥	Number of hours of study . ٦ (total)
٢ . ٢٢	Date of preparation of this . ٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

and assessment outcomes and methods of teaching, learning Course . ٩
cognitive goals - A The student will be familiar with the concept of fish principles - ١ A Learn to classify fish - ٢ A

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	<b>farming in Iraq, an Fish introduction to the science of fish, its economic importance</b>	My knowledge and skills	2 theoretical my work	the first
ask questions	Lecture and practical lesson	<b>The most important types of fish Iraqi water spread in the resources</b>	My knowledge and skills	2 theoretical my work	Second
Listen and ask questions	Lecture and practical lesson	<b>Fish external and internal structures</b>	My knowledge and skills	2 theoretical my work	Third
And meet and work groups	Lecture and practical lesson	<b>Fish nutritional requirements (proteins, fats, vitamins, minerals)</b>	My knowledge and skills	2 theoretical my work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	<b>Digestion and how to get rid of the residues of digestion and in fish, factors affecting absorption digestion</b>	My knowledge and skills	2 theoretical my work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	<b>Planning to set up a fish farm</b>	My knowledge and skills	2 theoretical my work	VI
Case study and work groups	Lecture and practical lesson	<b>Types of fish farms and different systems for rearing in ponds and cages</b>	My knowledge and skills	2 theoretical my work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	<b>to introduce a meal of fish Steps for breeding</b>	My knowledge and skills	2 theoretical my work	VIII



Ask questions, listen and work groups	Lecture and practical lesson	<b>Factors affecting fish growth and production (environmental factors, (biological factors</b>	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	<b>Nutrition and factors affecting it, feeding method, food storage, food conversion factor, how to calculate it</b>	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	<b>Production, propagation and development of natural plants</b>	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	<b>Food additives and supplements for fish</b>	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	<b>Reproduction, reproductive systems, types of reproduction, of eggs, formation and production factors affecting it</b>	knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	<b>fish hatchery parts</b>	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	<b>Types and sources of pollution in water and its impact on aquatic organisms</b>	My knowledge and skills	theoretical my work	Fifteenth

Curriculum Development Plan . 11

.Providing the possibility of academic support in organizing field visits -  
classroom environment that enables the teacher to Providing the appropriate -  
.diversify teaching strategies  
.Providing information technology in the campus library -  
Hosting experts from outside the institute, or from the work environment for -

their expertise in developing the which they are preparing to benefit from t  
 .course according to the actual needs of the labor market

## course description form

description course description **course**

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

<b>Supporting resources for each course</b>	<b>(Main references (sources .</b>
Scientific journals, as well as research, letters and theses of professors in the same specialty	a. Recommended books and scientific journals, ) references ( . . . . reports,
<a href="http://www.google.com">_www.google.com</a>	B. Electronic references, websites

<b>Technical Institute / Shatra</b>	<b>Educational institution - ١</b>
<b>Department of Animal Production Techniques/ Animal Health Branch</b>	<b>Department / Scientific - ٢ Center</b>
<b>English language</b>	<b>Course name / code - ٣</b>
<b>Present learning</b>	<b>forms of attendance Available - ٤</b>
<b>Autumn semester / second stage</b>	<b>season/year - ٥</b>
<b>hours of theoretical and practical class30</b>	<b>Number of hours of study - ٦ (total)</b>

٢٠٢٢	The date this description was prepared -٧
in the theoretical and practical Granting the student a diploma : Course Objectives aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical arena -^	

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson		My knowledge and skills	theoretical practical	the first
ask questions	Lecture and practical lesson		My knowledge and skills	theoretical practical	Second
Listen and ask questions	Lecture and practical lesson		My knowledge and skills	theoretical practical	Third
Practical exercise, meeting and work groups	Lecture and practical lesson		My knowledge and skills	theoretical practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson		My knowledge and skills	theoretical practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson		My knowledge and skills	theoretical practical	VI
case study Practical exercise and workgroup	Lecture and practical lesson		My knowledge and skills	theoretical practical	seventh

<b>s</b>					
<b>Listening and asking practical exercise questions and work groups</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>VIII</b>
<b>Asking questions and listening practical exercise and work groups</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>ninth</b>
<b>Ask group work questions</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>The tenth</b>
<b>-Mini lesson work groups</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>eleventh</b>
<b>Practical exercise and workgroups</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>twelveth</b>
<b>ask questions</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>Thirteenth</b>
<b>Asking practice questions</b>	<b>Lecture and practical lesson</b>		<b>My knowledge and skills</b>	<b>theoretical practical</b>	<b>fourteenth</b>
<b>Asking</b>	<b>Lecture</b>		<b>My</b>	<b>theoretical</b>	<b>_p Fifth</b>

practice questions	e and practical lesson		knowledge and skills	theoretical practical	
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<b>outcomes and methods of teaching, learning and assessment Course-1</b>	
<b>A cognitive goals</b>	
with the concept of the English language To familiarize the student - 1A	
The student will describe the types of English language - 2A	
The student knows the ways of expressing the English language - 3A	
the student knows the rules of the English language That - 4	
y English grammar To know how to classif - 5A	
He knows how to use the English language - 6A	
<b>b Programmatic skills objectives</b>	
That the student can distinguish between English grammar and general language - 1B	
To know the basics of the English language - 2B	
of the English language To know the importance - 3B	
<b>Teaching and learning methods</b>	
Explanation and clarification - 1	
Lecture method - 2	
Laboratory practical lessons - 3	
Lessons and field visits - 4	
<b>Evaluation methods</b>	
theory tests	
Practical tests	
Reports and Studies	
<b>Infrastructure-11</b>	
<b>method book</b>	<b>Required course books .1</b>
	(Main references (sources .2
<b>Scientific journals as well as research, letters Professors' courses in the same specialty and</b>	<b>a. Recommended books and scientific journals, ) references ( . . . . reports,</b>
<b><a href="http://www.google.com">www.google.com</a> Animal Science Journal</b>	<b>B. Electronic references, websites</b>
	(personal development
	<b>Infrastructure .12</b>
<b>Human Rights as well as Principles of Textbook Democracy</b>	<b>Required course books .1</b>

Supporting resources for each course	(Main references (sources .١
journals, as well as research, letters Scientific and theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
<a href="http://www.google.com">_www.google.com</a>	B. Electronic references, websites

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programIt mu . learning opportunities

Technical Institute / Shatra	Educational Institution .١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific .٢
computer app. 2 / ٢ Calculator	Course name/code .٣
Present learning	Forms of attendance available .٤
Autumn semester / second stage	Semester/year .٥
hours of theoretical and practical class ٤ ٥	Number of hours of study .٦ (total)
٢ . ٢ ٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .^ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course .٩
- Cognitive goals - A
-- To familiarize the student with the concept of computer applications - ١ A
The student categorizes the types of programs - ٢ A
.The student should separate between the types of programs - ٣ A
.by studying a statistical program The student analyzes his research data - ٤ A
The student assesses his knowledge of the applications through practical tests - ٥ A
.Skills objectives of the course - B
Introduce the student to the concept of computer applications - C ١ B
to install, delete and use application programs skillfully The student's ability - ٢ B
Enabling students to analyze their research data statistically - ٣ B
Teaching and learning methods

Course Structure . 1 .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	their The concept of networks and 'Internet types, the concept of the and its operation	My knowledge and skills	theoretical my work	the first
Questions and answers lesson	Lecture and practical lesson	Description of the main screen and its components and how to ) connect with the World Wide Web (Web	My knowledge and skills	theoretical my work	Second
lesson -Mini discussion and workgroups	Lecture and practical lesson	Take advantage of popular search like engines 'Google , Yahoo Learn how to search for and access information	My knowledge and skills	theoretical my work	Third
And meet and work groups	Lecture and practical lesson	program To identify the Excel its concept of the program with benefits, specifications, features .and methods of operation	My knowledge and skills	theoretical my work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Familiarize yourself with the main screen and its components and effective menus contain various and tools	My knowledge and skills	theoretical my work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	The concept of the cell, the basic types of bits and how to enter them	My knowledge and skills	theoretical my work	VI
Case study and work groups	Lecture and practical lesson	andWorks licet How to save a Close the Work book page program and close the file Open the saved file, enter data and perform simple calculations	My knowledge and skills	theoretical my work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	Learn how to adjust or format data and structure it within a single cell or group of cells	My knowledge and skills	theoretical my work	VIII
Ask questions, listen and	Lecture and practical	Learn different ways of collecting data or a group of cells	My knowledge and	theoretical	ninth



<b>work groups</b>	<b>lesson</b>		<b>skills</b>	<b>my 2 work</b>	
<b>Ask group work questions</b>	<b>Lecture and practical lesson</b>	<b>Using sort the data and How to some of the functions provided by Count SQRT, the program, such as And other Ave, Sumi, Min, Max useful related statistical functions</b>	<b>My knowledge and skills</b>	<b>theoretical my 2 work</b>	<b>The tenth</b>
<b>lesson -Mini work groups</b>	<b>Lecture and practical lesson</b>	<b>Editin To learn about the provided by pollination process the program, how to copy data or transfer data</b>	<b>My knowledge and skills</b>	<b>theoretical my 2 work</b>	<b>eleventh</b>
<b>Listen to a ini lessonm</b>	<b>Lecture and practical lesson</b>	<b>And learn about the concept of copying arithmetic operations, as cells well as the concept of relative cells Control the cell Absolute   process by changing its style and layout through the use of formatting tools</b>	<b>My knowledge and skills</b>	<b>theoretical my 2 work</b>	<b>twelveth</b>
<b>ask questions</b>	<b>Lecture and practical lesson</b>	<b>Dealing with charts and how to convert digital and text bytes into charts of various kinds through and learn how to Chart Wizard make modifications and revisions provided by the program</b>	<b>My knowledge and skills</b>	<b>theoretical my 2 work</b>	<b>Thirteenth</b>
<b>ask questions</b>	<b>Lecture and practical lesson</b>	<b>Learn how to add or delete rows or columns on the work page</b>	<b>My knowledge and skills</b>	<b>theoretical my 2 work</b>	<b>fourteenth</b>
<b>ask questions</b>	<b>Lecture and practical lesson</b>	<b>print data digital or diagrams</b>	<b>My knowledge and ge skills</b>	<b>theoretical my 2 work</b>	<b>Fifteenth</b>

**Curriculum Development Plan . ١١**

**.Providing the possibility of academic support in organizing field visits -  
classroom environment that enables the teacher to diversify Providing the appropriate -  
.teaching strategies**

**.Providing information technology in the campus library -  
Hosting experts from outside the institute, or from the work environment for which they -  
heir expertise in developing the course according to the are preparing to benefit from t  
.actual needs of the labor market**

<b>Infrastructure . ١٢</b>	
<b>method book</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and scientific journals, ) references ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

**Course description**

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques / Animal Health Branch	Department / Center Scientific . ٢
clinic 2 / ٢ Clinics	Course name/code . ٣
Present learning	Forms of attendance available . ٤
Spring Semester/Second Stage	Semester/year . ٥
hours of theoretical and practical class ٦ .	Number of hours of study . ٦ (total)
٢ . ٢٢	Date of preparation of this . ٧ description
the student a diploma in the theoretical and practical Granting : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course . ٩
goals Cognitive -A Educating students about the most important rights of citizens in the past, present - ١ A .and future, and the most important laws that govern this Introducing students to the most important regional charters, constitutions, - ٢ A .and protection of human rights and the legal rules of law guarantees of respect
Skills objectives of the program - B .To provide the student with human rights skills and how to conduct them - ١ B ‘Training the student in the skills of dealing with a democratic principle - ٢ B .guarantee and human rights To provide the student with the necessary skills for human rights and how to give - .appropriate scientific judgments between the disputants
Teaching and learning methods .play screens, PowerPoint and slides Giving scientific and theoretical lectures through dis
Evaluation methods Quizzes Take daily quick exams Conducting monthly exams Conducting semester and final exams
.emotional and value goals - C .way Enable the student to apply theoretical information in a practical - ١ C Develop the patriotic spirit of the student to increase production in quantity and - ٢ C .quality the concept of community service and the best way to deal with the Instilling - ٣ C .simple strata of the society, the peasants and farmers

develop the ethics of the human rights profession among students by following To - ٤C  
 .the correct professional behavior  
 skills (other skills related to employability and rehabilitative Transferred general and -d  
 .(personal development  
 -١D  
 -٢D  
 -٣D

Structure Course .١٠					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	The student is trained in veterinary hospitals and dispensaries on the theoretical and practical lessons , that have been studied immunizing animals against infectious diseases and performing minor surgical operations	My knowledge and skills	my ٤ work	the first

**Curriculum Development Plan .١١**

**.Providing the possibility of academic support in organizing field visits -  
 Providing the appropriate classroom environment that enables the teacher -**

**Infrastructure .١٢**

**.information technology in the campus library Providing -  
 Hosting experts from outside the institute, or from the work environment -  
 for which they are preparing to benefit from their expertise in developing  
 .the course according to the actual needs of the labor market**

book systematic There is no	Required course books .١
Supporting resources for each course	(Main references (sources .٢
research, letters Scientific journals, as well as and theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .st be linked to the description of the programlt mu . learning opportunities

Technical Institute / Shatra	Educational Institution .١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific .٢
obstetrics / Childbirth and venereal diseases	Course name/code .٣
Present learning	Forms of attendance available .٤
Spring Semester/Second Stage	Semester/year .٥
hours of theoretical and practical class ٦٠	Number of hours of study .٦ (total)
٢٠٢٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .^ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

teaching, learning and assessment outcomes and methods of Course .٩
Cognitive goals -A

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	<b>Fertility, definition and stages of hormonal control of reproduction for furniture</b>	My knowledge and skills	1 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	<b>-Low fertility infertility causes symptoms</b>	My knowledge and skills	1 theoretical my 3 work	Second
Listen and ask questions	Lecture and practical lesson	<b>Lack of estrus The presence and detection of the corpus luteum Silent estrus</b>	My knowledge and skills	1 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	<b>Inactivity of the ovaries false pregnancy</b>	My knowledge and skills	1 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	<b>the lack Genetic reasons for of estrus Atrophy of the the absence of -ovaries ovaries</b>	My knowledge and skills	1 theoretical my 3 work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	<b>Pathological reasons for the absence of estrus, the lining of inflammation of the uterus and endometrium</b>	My knowledge and skills	1 theoretical my 3 work	VI
Case study work and groups	Lecture and practical lesson	<b>Uterine fibrosis, cervical and vaginal tumors</b>	My knowledge and skills	1 theoretical my 3 work	seventh
Listen and	Lecture	<b>Nutritional causes of infertility</b>	My	1	VIII

ask questions and work groups	and practical lesson	<b>and early vaccinated cows</b>	knowledge and skills	theoretical my work	
Ask questions, listen and work groups	Lecture and practical lesson	<b>Infectious abortion, Vibrio chlamydia, Trichomoniasis, chlamydia</b>	My knowledge and skills	theoretical my work	ninth
Ask group work questions	Lecture and practical lesson	<b>Stages of fetal development fetal membranes and placenta</b>	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	<b>Estimation of the age of the fetus Fetal diseases</b>	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	<b>Symptoms near birth, stages of childbirth, care of the newborn and the mother after birth</b>	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	<b>Placental retention and vaginal prolapse</b>	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	<b>dystocia inversion of the uterus</b>	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	<b>inserts the Cesarean section fetus into the womb</b>	My knowledge and skills	theoretical my work	Fifteenth

**Curriculum Development Plan . ١١**

**.Providing the possibility of academic support in organizing field visits -  
 teacher to diversify Providing the appropriate classroom environment that enables the -  
 .teaching strategies  
 .Providing information technology in the campus library -  
 Hosting experts from outside the institute, or from the work environment for which they -  
 according to the are preparing to benefit from their expertise in developing the course  
 .actual needs of the labor market**

<b>Infrastructure . ١٢</b>	
<b>method book</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

**Course description**

**This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available**



**.must be linked to the description of the program It . learning opportunities**

<b>Technical Institute / Shatra</b>	<b>Educational Institution .<sup>١</sup></b>
<b>Department of Animal Production Techniques/Animal Health Branch</b>	<b>Department / Center Scientific .<sup>٢</sup></b>
<b>diseases fish</b>	<b>Course name/code .<sup>٣</sup></b>
<b>Present learning</b>	<b>attendance available Forms of .<sup>٤</sup></b>
<b>Spring Semester/Second Stage</b>	<b>Semester/year .<sup>٥</sup></b>
<b>hours of theoretical and practical class60</b>	<b>Number of hours of study .<sup>٦</sup> (total)</b>
<b>٢ . ٢٢</b>	<b>Date of preparation of this .<sup>٧</sup> description</b>
<b>student a diploma in the theoretical and practical Granting the : Course Objectives .<sup>٨</sup> aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

<b>outcomes and methods of teaching, learning and assessment Course .<sup>٩</sup></b>
<b>Cognitive goals -A</b>
<b>Introducing students to the most important fish diseases and their diagnosis -<sup>١</sup>A</b>
<b>Learn how to prevent fish diseases and prevent their spread -<sup>٢</sup>A</b>
<b>Knowing the environmental factors and conditions that contribute to the -<sup>٣</sup>A eir treatmentoccurrence of fish diseases and th</b>
<b>Skills objectives of the program - B</b>
<b>.To provide the student with the skills of diagnosing fish diseases - <sup>١</sup>B</b>
<b>.Training the student on the skills of dealing with fish diseases in breeding ponds - <sup>٢</sup>B</b>
<b>necessary skills for examining the external and Providing the student with the -<sup>٣</sup>B .internal fish and taking samples from the gills and skin for examination</b>
<b>Teaching and learning methods</b>
<b>.Giving scientific and theoretical lectures through display screens, PowerPoint and slides methods Evaluation</b>
<b>Quizzes Take daily quick exams</b>
<b>Conducting monthly exams</b>
<b>Conducting semester and final exams</b>
<b>.emotional and value goals - C</b>
<b>.Enable the student to apply theoretical information in a practical way - <sup>١</sup>C</b>
<b>student to increase production in quantity and Develop the patriotic spirit of the - <sup>٢</sup>C .quality</b>
<b>the concept of community service and the best way to deal with the Instilling - <sup>٣</sup>C .simple strata of the society, the peasants and farmers</b>
<b>other skills related to employability ) skills rehabilitative Transferred general and -D (and personal development -<sup>١</sup>D</b>

Course Structure . 1 .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	Overview of fish diseases Classification of fish diseases	My knowledge and skills	1 theoretical my 3 work	the first
ask questions	Lecture and practical lesson	Bacterial diseases: bacterial glaucoma disease, stalk disease	My knowledge and skills	1 theoretical my 3 work	Second
Listen and ask questions	Lecture and practical lesson	Fish tuberculosis, bacterial kidney disease	My knowledge and skills	1 theoretical my 3 work	Third
And meet and work groups	Lecture and practical lesson	Nocardia, hemorrhagic congestion	My knowledge and skills	1 theoretical my 3 work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Drooling disease, dropsy disease, fin and tail rot	My knowledge and skills	1 theoretical my 3 work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Viral diseases: prevention and control	My knowledge and skills	1 theoretical my 3 work	VI
Case study and work groups	Lecture and practical lesson	sac Spring sickness in carps, air inflammatory disease	My knowledge and skills	1 theoretical my 3 work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	Viral hemorrhagic disease, pancreatic necrosis	My knowledge and skills	1 theoretical my 3 work	VIII
Ask questions, listen and	Lecture and practical	Fungal diseases: their importance and prevention	My knowledge and	1 theoretical	ninth

work groups	lesson		skills	my work	
Ask group work questions	Lecture and practical lesson	Kenya Sir Disease	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Parasitic diseases, nematode disease, white bug disease	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Hang the fish, the dog worm	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	Nutrition and its relationship to nutritional diseases	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	disease-Poisoning in fish and inter	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	Methods of giving treatment	My knowledge and skills	theoretical my work	Fifteenth

**Curriculum Development Plan . 11**

- .Providing the possibility of academic support in organizing field visits -
- Providing the appropriate classroom environment that enables the teacher to diversify -
- .teaching strategies
- .Providing information technology in the campus library -
- Hosting experts from outside the institute, or from the work environment for which they -
- are preparing to benefit from their expertise in developing the course according to the
- .r marketactual needs of the labo

<b>Infrastructure .١٢</b>	
method book	<b>Required course books .١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources .٢</b>
<b>letters Scientific journals, as well as research and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

## course description form

### Course description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

<b>Technical Institute / Shatra</b>	<b>Educational Institution .١</b>
<b>Department of Animal Production Techniques/ Animal Health Branch</b>	<b>Department / Center Scientific .٢</b>
<b>medicineinternal</b>	<b>Course name/code .٣</b>
<b>Present learning</b>	<b>Forms of attendance available .٤</b>
<b>Spring Semester/Second Stage</b>	<b>Semester/year .٥</b>
<b>hours of theoretical and practical class ٧٥</b>	<b>Number of hours of study .٦ (total)</b>
<b>٢٠٢٢</b>	<b>Date of preparation of this .٧ description</b>
<b>the student a diploma in the theoretical and practical Granting : Course Objectives .^ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena</b>	

Structure Course . ۱ .					
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	general -Gastrointestinal diseases - satiety - dyspepsia - introduction bloating esophageal	My knowledge and skills	۲ theoretical my ۳ work	the first
ask questions	Lecture and practical lesson	Diarrhea -Constipation -Inflammation of the intestine Intestinal obstruction Intestinal twisting	My knowledge and skills	۲ theoretical my ۳ work	Second
Listen and ask questions	Lecture and practical lesson	hepatitis -jaundice -Liver disease liver abscess cholecystitis -	My knowledge and skills	۲ theoretical my ۳ work	Third
And meet and work groups	Lecture and practical lesson	nosebleeds -Respiratory diseases colds, pneumonia, bronchitis, - lung abscess	My knowledge and skills	۲ theoretical my ۳ work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Metabolic diseases (malnutrition, (malnutrition, ketosis	My knowledge and skills	۲ theoretical my ۳ work	Fifth
lesson-Mini discussion and workgroups	Lecture and practical lesson	deficiency, magnesium ) deficiency copper deficiency, iodine (deficiency, cobalt iron deficiency	My knowledge and skills	۲ theoretical my ۳ work	VI
Case study and work groups	Lecture and practical lesson	Skin diseases (diseases of wool (and hair, gourd, eczema, scabies	My knowledge and skills	۲ theoretical my ۳ work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	(Vitamin deficiencies (A, E, D, L, M	My knowledge and skills	۲ theoretical my ۳ work	VIII
Ask questions, listen and	Lecture and practical	Diseases of the blood system introduction, heart failure, ) (retinitis endocarditis, chlamydial	My knowledge and	۲ theoretical	ninth

work groups	lesson		skills	my ۳	
<b>Infrastructure .۱۲</b>					
Ask group work questions	and practical lesson	(anemia	My knowledge and skills	theoretical my ۳ work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Urinary system diseases (nephritis and bladder diseases, ureter (diseases	My knowledge and skills	۲ theoretical my ۳ work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Nervous system diseases encephalitis, spina bifida, cerebral ) (hemorrhage	My knowledge and skills	۲ theoretical my ۳ work	twelveth
ask questions	Lecture and practical lesson	Equine diseases (drops, colic, (peritonitis, abnormal teeth	My knowledge and skills	۲ theoretical my ۳ work	Thirteenth
ask questions	Lecture and practical lesson	Ear and eye diseases	My knowledge and skills	۲ theoretical my ۳ work	fourteenth
ask questions	Lecture and practical lesson	Canine diseases (gastritis, oral diseases and esophageal (diseases, anal adenitis	My knowledge and skills	۲ theoretical my ۳ work	Fifteenth

**Curriculum Development Plan .۱۱**

- .Providing the possibility of academic support in organizing field visits - diversify
- Providing the appropriate classroom environment that enables the teacher to - .teaching strategies
- .Providing information technology in the campus library -
- Hosting experts from outside the institute, or from the work environment for which they -
- to the are preparing to benefit from their expertise in developing the course according
- .actual needs of the labor market

method book	Required course books .١
Supporting resources for each course	(Main references (sources .٢
journals, as well as research, letters Scientific and theses of professors in the same specialty	a. Recommended books and references (scientific journals, ( . . . . reports,
_www.google.com	B. Electronic references, websites

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### Course description

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Technical Institute / Shatra	Educational Institution .١
Department of Animal Production Techniques / Animal Health Branch	Department / Center Scientific .٢
analysis pathological	Course name/code .٣
Present learning	Forms of attendance available .٤
Spring Semester/Second Stage	Semester/year .٥
hours of theoretical and practical class ٧٥	Number of hours of study .٦ (total)
٢٠٢٢	Date of preparation of this .٧ description
Granting the student a diploma in the theoretical and practical : Course Objectives .^ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course .٩
Cognitive goals -A

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers lesson	Lecture and practical lesson	The importance of pathological analyzes and their relationship to other biological sciences, sample collection, and sample preservation	My knowledge and skills	۲ theoretical my ۳ work	the first
ask questions	Lecture and practical lesson	Blood tests by collecting samples, anticoagulants (types (and uses	My knowledge and skills	۲ theoretical my ۳ work	Second
and Listen ask questions	Lecture and practical lesson	Supplementation of blood tests, red blood cells, white blood cells, blood disks and hemoglobin, their normal levels and their changes according to the pathological condition	My knowledge and skills	۲ theoretical my ۳ work	Third
And meet and work groups	Lecture and practical lesson	Urinary examinations: physical examination, chemical examination, microbiological examination of urine	My knowledge and skills	۲ theoretical my ۳ work	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Stool examinations: physical examination, microbiological examination of feces, examination of worms and egg count in feces	My knowledge and skills	۲ theoretical my ۳ work	Fifth
lesson -Mini discussion and workgroups	Lecture and practical lesson	Diagnosis of blood parasites: leishmaniasis, trypanosoma, babesiosis, theileria	My knowledge and skills	۲ theoretical my ۳ work	VI
Case study and work groups	Lecture and practical lesson	diseases Diagnosis of bacterial by diagnosing diseases of the stomach and intestines, colon bacilli, salmonella, intestinal poisoning	My knowledge and skills	۲ theoretical my ۳ work	seventh
Listen and ask questions and work groups	Lecture and practical lesson	For laboratory diagnosis of tuberculosis and Jones' disease	My knowledge and skills	۲ theoretical my ۳ work	VIII
Ask	Lecture	Laboratory diagnosis of anthrax	My	۲	ninth



questions, listen and work groups	and practical lesson	and symptomatic anthrax, sepsis upgrade	knowledge and skills	theoretical my work	
Ask group work questions	Lecture and practical lesson	Laboratory diagnosis of microbes that cause abortion: Brucella, Vibrio, Salmonella, Clostridia	My knowledge and skills	theoretical my work	The tenth
lesson -Mini work groups	Lecture and practical lesson	Laboratory diagnosis of microbes that cause abortion (supplemented). Pyospira ) trichomonas, Toxoplasma	My knowledge and skills	theoretical my work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Diagnosis of glanders disease	My knowledge and skills	theoretical my work	twelveth
ask questions	Lecture and practical lesson	Diagnosis of bird flu	My knowledge and skills	theoretical my work	Thirteenth
ask questions	Lecture and practical lesson	Detection of bacterial sensitivity to antibiotics	My knowledge and skills	theoretical my work	fourteenth
ask questions	Lecture and practical lesson	Collection of biological samples for laboratory diagnosis	My knowledge and skills	theoretical my work	Fifteenth

### Curriculum Development Plan . 11

- .Providing the possibility of academic support in organizing field visits -
- Providing the appropriate classroom environment that enables the teacher -
- .to diversify teaching strategies
- .Providing information technology in the campus library -
- Hosting experts from outside the institute, or from the work environment -
- for which they are preparing to benefit from their expertise in developing

**.r marketthe course according to the actual needs of the labo**

<b>Infrastructure . ١٢</b>	
<b>method book</b>	<b>Required course books . ١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources . ٢</b>
<b>letters Scientific journals, as well as research and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>

**course description form**

**Course description**

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available .must be linked to the description of the program It . learning opportunities

Technical Institute / Shatra	Educational Institution . ١
Department of Animal Production Techniques/ Animal Health Branch	Department / Center Scientific . ٢
inspection meat	Course name/code . ٣
Present learning	of attendance available Forms . ٤
Spring Semester/Second Stage	Semester/year . ٥
hours of theoretical and practical class75	Number of hours of study . ٦ (total)
٢ . ٢٢	Date of preparation of this . ٧ description
student a diploma in the theoretical and practical Granting the : Course Objectives . ٨ aspects to serve the preparation of a graduate of a distinguished level and his commitment to .the practical arena	

outcomes and methods of teaching, learning and assessment Course . ٩
Cognitive goals -A Teaching students how to examine meat in terms of improving its suitability for - ١ A human consumption Knowing the diseases that affect animals by examining meat . - ٢ A Learn the methods of examining meat - ٣ A
Skills objectives of the program - B .provide the student with the skills to detect contamination or spoilage of meat To - ١ B Training the student on the methods of preserving meat and not contaminating - ٢ B .it . ٣ B
Teaching and learning methods
.display screens, PowerPoint and slides Giving scientific and theoretical lectures through
Evaluation methods
Quizzes Take daily quick exams Conducting monthly exams Conducting semester and final exams
.emotional and value goals - C .practical way Enable the student to apply theoretical information in a - ١ C Develop the patriotic spirit of the student to increase production in quantity and - ٢ C .quality the concept of community service and the best way to deal with the Instilling - ٣ C .simple strata of the society, the peasants and farmers

**Course Structure . ۱۰**

<b>Evaluation method</b>	<b>education method</b>	<b>Unit name / course or topic</b>	<b>Required learning outcomes</b>	<b>hours</b>	<b>the week</b>
<b>Questions and answers lesson</b>	<b>Lecture and practical lesson</b>	<b>The importance of meat health and control</b>	<b>My knowledge and skills</b>	<b>۲ theoretical my ۳ work</b>	<b>the first</b>
<b>ask questions</b>	<b>Lecture and practical lesson</b>	<b>Meat Examination Methods, Meat Tester Recipes and Duties</b>	<b>My knowledge and skills</b>	<b>۲ theoretical my ۳ work</b>	<b>Second</b>
<b>Listen and ask questions</b>	<b>Lecture and practical lesson</b>	<b>Transporting animals for slaughter and transportation methods</b>	<b>My knowledge and skills</b>	<b>۲ theoretical my ۳ work</b>	<b>Third</b>
<b>And meet and work groups</b>	<b>Lecture and practical lesson</b>	<b>Processing animals before slaughter and transporting meat</b>	<b>My knowledge and skills</b>	<b>۲ theoretical my ۳ work</b>	<b>the fourth</b>
<b>Practical exercise, meeting and work groups</b>	<b>Lecture and practical lesson</b>	<b>The massacres and the basic conditions the construction of massacres for</b>	<b>My knowledge and skills</b>	<b>۲ theoretical my ۳ work</b>	<b>Fifth</b>
<b>-Mini lesson discussion and workgroups</b>	<b>Lecture and practical lesson</b>	<b>Examination before and after slaughter</b>	<b>My knowledge and skills</b>	<b>۲ theoretical my ۳ work</b>	<b>VI</b>
<b>Case study and work groups</b>	<b>Lecture and practical</b>	<b>Conditions to be followed when conducting the examination and the factors affecting the discharge of blood from the animal's body</b>	<b>My knowledge and</b>	<b>۲ theoretical my ۳</b>	<b>seventh</b>

	lesson		skills	work	
Listen and ask questions and work groups	Lecture and practical lesson	Reasons for forced slaughter and identification of the meat of different animals	My knowledge and skills	2 theoretical my 3 work	VIII
Ask questions, listen and work groups	Lecture and practical lesson	General pathological conditions of importance to the health of meat	My knowledge and skills	2 theoretical my 3 work	ninth
Ask group work questions	Lecture and practical lesson	Sources of meat contamination and in meat microscopic infection	My knowledge and skills	2 theoretical my 3 work	The tenth
-Mini lesson work groups	Lecture and practical lesson	Meat preservation, purpose of preservation and methods of preservation	My knowledge and skills	2 theoretical my 3 work	eleventh
Listen to a mini lesson	Lecture and practical lesson	Examination of live fish meat and after spoilage and contamination of -fishing fish	My knowledge and skills	2 theoretical my 3 work	twelveth
ask questions	Lecture and practical lesson	examination methods of Poultry meat slaughter and spoilage of poultry meat	knowledge and skills	2 theoretical my 3 work	Thirteenth
ask questions	Lecture and practical lesson	Control of meat in markets and meat selling areas	My knowledge and skills	2 theoretical my 3 work	fourteenth
ask questions	Lecture and practical lesson	slaughterhouse A visit to the	My knowledge and skills	2 theoretical my 3 work	Fifteenth

**Curriculum Development Plan .١١**

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  - reparing to benefit from their expertise in developing for which they are p**
  - .the course according to the actual needs of the labor market**

<b>Infrastructure .١٢</b>	
<b>Human Rights as well as Principles of Textbook Democracy</b>	<b>Required course books .١</b>
<b>Supporting resources for each course</b>	<b>(Main references (sources .٢</b>
<b>Scientific journals, as well as research, letters and theses of professors in the same specialty</b>	<b>a. Recommended books and references (scientific journals, ( . . . . reports,</b>
<b>_www.google.com</b>	<b>B. Electronic references, websites</b>