Ministry of Higher Education and Scientific Research

Scientific Supervision and Evaluation Authority

Quality Assurance and Academic Accreditation Department

Academic Program Description Form for Colleges For the academic year 2024-2025

University name :Southern Technical University

Name of the kidneyAnd:Technical Institute / Shatra

Scientific Department:Animal Production Technology Department/ Animal Health Branch

Date of filling the file:8/30/2024

Name Head of Department: Asst. Dr. Ahmed Yasir Rabh

Name of the Assistant Dean for Academic Affairs: M.M Turki Diwan

the date: **the date:**

the signature: **the signature:**

Check the file before

Quality Assurance and University Performance Department

Name of Quality Assurance ManagerUniversity Performance: Haider Nasser Hussein

the date

the signature

Dean's approval

Academic Program Description

This academic program description provides a concise summary of the main features of the program and the learning outcomes expected of the student, demonstrating whether he has made the most of the opportunities available. It is accompanied by a description of each course within the program.

Ministry of Higher Education and Scientific Research	.1 Educational institution
Technical Institute / Shatra	.2 Section AFor my knowledge/ Center
Department of Animal Production Technologies/ Animal Health Branch	.3 Academic Program NameOr professional
Technical Diploma	.4 Final Certificate Name
Semester system	.5 Academic system
Theoretical and practical study	.6 Accreditation ProgramCertified
Laboratories, field, library, internet, agricultural and industrial institutions, and animal production projects.	.7 Other external influences
2024	.8 Description preparation date
.9 Academic Program ObjectivesGranting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a distinguished level and introduce him to the practical arena.	

1- Practicing activities related to the management of animal fields, dispensaries and veterinary clinics
2- Linking livestock production to the country's food security
3- Practicing reproductive health and artificial insemination activities and organizing records thereof
4- Organizing records and documents related to endemic epidemic diseases as well as common diseases
5- Learn about the various diseases that affect animals and poultry and ways to prevent them

10.OutputsThe programRequired teaching, learning and assessment methods
A- Cognitive objectives **A1**– Identify infectious and non-infectious pathogens and their clinical and laboratory diagnosis **A2-Study of artificial insemination and management of veterinary clinics.** **A3**-Learn about veterinary medicines and vaccines and how to administer them.. **A4-A**The student should know the basics of animal nutrition and how to deal with farm animals...
B-Skill objectivesSpecial forprogram **B1**-Training on periodic examination, artificial insemination and reproductive care of animals. **B2**-Knowing how to diagnose, treat and prevent diseases. **B3**-Gain experience in laboratory and field analysis. **B4**-Possibility of performing some surgical operations on animals.
Teaching and learning methods
- Theoretical lectures. - Slideshows, photos and scientific films. - Practical application of theoretical subjects such as clinical and laboratory diagnosis of diseases, treatments, vaccinations and methods of

administration, reproductive care, dissection of poultry and animals, histological examination of organs, and food analysis..

- Visiting veterinary fields, clinics, animal facilities and laboratories.
- Conducting some applied research under the supervision of professors

Evaluation methods

- Daily and monthly exams
- Midterm and final exams
- Participation scores for competition questions for academic topics
- Grades for homework and report writing

C- Emotional and value-based goals

A1-Applying knowledge in animal production sciences to address problems related to it.

A2-Design and conduct scientific experiments, as well as analyze and interpret data.

A3- **Identifying vocabulary available to the student to help him acquire the skill and ability to choose what achieves his purpose**.

G4-**The student expresses his desire to learn about the relationship between zoology and other sciences**.

A5**Applying knowledge in veterinary sciences to address problems facing breeders and owners of animal production projects..**

A6.**Use of modern techniques, skills and tools in the field of animal health**

Teaching and learning methods

A1- The lecture is accompanied by a presentation.Using Data Show .

A2- Discussion.

A3- Brainstorming.

A4- Taking the student to the fields .

Evaluation methods

1- Tests
2- Note
3- Questionnaire

4- Writing the report

D-General skillsandQualificationMovable(SkillsOther related to employability and development(Personal).

D1- Gaining skills in the field of clinical and laboratory examinations of animal, poultry and fish diseases.

D2-Gaining skills in the field of obstetrics, reproductive care, artificial insemination and surgery.

D3-Knowledge of medicines, vaccines and methods of administration.

D4- Working in the field ofFish farming.

D5- Gaining skills in the field of meat processing and preservation.

D6-Working in artificial insemination center and veterinary clinics.

Teaching and learning methods

- **Practical lectures with student attendance in laboratoriesAnd the fields.**
- **Summer training.**

  Writing a research project.

Evaluation methods

- **Direct supervision in the field by the practical teacher and field workers .**
- **Direct supervision during training by a scientific supervisor from the department.**
- **Research discussionAnd giveDegree on it.**
-

12.Certificates and credit hours	11.Program structure			
	Credit hours	Course name	Course code	Level/Year
Degree ofTechnical Diploma (S) credit hours required	5	**Animal management**	1	The first stage Autumn semester
	5	**Animal anatomy**	2	
	4	**Animal physiology**	3	

120	5	Microscopic revival	4	
	4	Animal health	5	
	4	biochemistry	6	
	2	Human rights and democracy	7	
	29		the total	
	5	Animal pathology	1	The stageThe first/ ChapterSpring
	4	Histology	2	
	4	Parasitology	3	
	5	Animal nutrition	4	
	4	Pharmacology and toxicology	5	
	4	Veterinary surgery	6	
	2	Computer fundamentals /1	7	
	2	English language/1	8	
	30		the total	
	5	Infectious diseases	1	Phase 2 Autumn semester
	5	Poultry diseases	2	
	4	Clinical 1	3	
	5	Fish farming and production	4	
	5	Physiology of reproduction and fertilization	5	
	2	Computer fundamentals /2	6	
	2	English language/2	7	
	2	Graduation project	8	
	2	Crimes of the Baath regime in Iraq	9	
	32		the total	
	4	Clinics 2	1	Phase 2 Spring semester
	4	Obstetrics and gynecology	2	
	4	Fish diseases	3	

	5	Internal diseases	4	
	5	Pathological analysis	5	
	5	Meat inspection and health	5	
	4	Graduation project	7	
	31		the total	

13.Planning for personal development
D1. Improve their discussion skills. **D2. Raising their research awareness and moving the student from the education stage to the learning stage.** **D3. The student uses modern and contemporary sources.** **D4. Benefit from websites that contain up-to-date information related to animal health.**
14.Acceptance Criteria(situationRegulations relating to college admission orThe Institute
1. Approval of central admission requirements. **2. Acceptance rate in the sixth scientific and vocational/agricultural.** **3. To be medically fit for the specialty.** **4. Department capacity.**
15.The most important sources of information about the program
1. Central Library in the era 2. Internet information network 3. Experiences of Arab and international universities 4. Current curricula **4. Market needs.** **6. Local guidelines.** **7. Studies and questionnaires.** **8. Specialized seminars and workshops with beneficiaries.**

Curriculum Skills Chart																			
Please tick the boxes corresponding to the individual learning outcomes of the programme being assessed.																			
Required learning outcomes of the program																			
General and transferable skills (or) other skills related to employability and personal development				Thinking skills				Subject-specific skills				knowledge and understanding				essential Or optional	Course name	Course code	Year/Level
D4	D3	D2	D1	A4	A3	A2	A1	B4	B3	B2	B1	A4	A3	A2	A1				
		√				√			√				√			Specialized	Animal management	1	First stage fall semester
		√				√			√			√				Specialized	Animal anatomy	2	
		√				√			√				√			Specialized	Animal physiology	3	
	√					√			√				√			Specialized	Microscopic revival	4	
	√				√					√			√			Specialized	Animal health	5	
	√				√					√		√				help	biochemistry	6	
		√				√					√		√			help	Calculators (1)	7	
		√				√					√			√		General	Human rights and democracy	8	

Curriculum Skills Chart																		
Curriculum Skills Chart																		
Please tick the boxes corresponding to the individual learning outcomes of the programme being assessed.																		
Required learning outcomes of the program																		
General and transferable skills (or) other skills related to employability and personal development				Thinking skills				Subject-specific skills				knowledge and understanding				essential Or optional	Course name	Course code	Year/Level
D4	D3	D2	D1	A4	A3	A2	A1	B4	B3	B2	B1	A4	A3	A2	A1				
		√				√			√				√			Specialized	zoology	1	First stage spring semester
		√				√			√			√				Specialized	Tissues	2	
		√				√			√				√			Specialized	Parasites	3	
	√					√			√				√			Specialized	animal feed	4	
	√				√					√			√			Specialized	Medicines and poisons	5	
	√				√					√		√				Specialized	Veterinary surgery	6	
		√				√					√		√			General	English language	7	

Curriculum Skills Chart																		
Please tick the boxes corresponding to the individual learning outcomes of the programme being assessed.																		
Required learning outcomes of the program																		
General and transferable skills (or) other skills related to employability and personal development				Thinking skills				Subject-specific skills				knowledge and understanding				essential Or optional	Course name	Course code	Year/Level
D4	D3	D2	D1	A4	A3	A2	A1	B4	B3	B2	B1	A4	A3	A2	A1				
		√				√			√				√			Specialized	Clinics 2	1	Second stage spring semester
		√				√			√			√				Specialized	Obstetrics and gynecology	2	
		√				√			√				√			Specialized	Fish diseases	3	
	√					√			√				√			Specialized	Internal diseases	4	
	√				√					√			√			Specialized	Pathological analysis	5	
	√				√					√		√				help	Meat inspection and health	5	
		√				√					√		√			Specialized	The project	7	

√						√					√		√			**My specialty**	**Graduation project**	8	
			√				√				√		√			**help**	**Crimes of the Baath regime in Iraq**	9	

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	**1. Educational institution**
Animal Production Technology Department/ Animal Health Branch	**2. Sectionscientific/ Center**
Animal managementanimal management	**3. Course Name/Code**
Blended/Online/In-person Learning	**4. Available attendance forms**
Fall Semester / First Stage	**5. Chapter/Year**
75An hour in the classroom, theoretical and practical	**6. Number of study hours(kidney)**
2024	**7. Date this description was prepared**
8. Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10. Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Questions and answers for a mini practical lesson	**Lecture and practical lesson**	**location Animals Different**(cows, buffaloes, sheep **Goats, camels, horses,**Poultry, turkey, duck and geese **Fish) in the animal kingdom** ,Maza**IAAnd problemsbreeding Animals Different furQatbetween Animals Different**	**My knowledge and skills**	**2 theoretical 3 practical**	**the first**
Asking questions	**Lecture and practical lesson**	**Waysclassification Large animals(cows buffalo Sheep goats camels ,Horses,Iraqi animals)**	**My knowledge**	**2 theoretical 3**	**the second**

			and skills	practical	
Listening and asking questions	Lecture and practical lesson	Waysclassification Animals Alone Stomach (poultry Roman ducks and geese FishIraqi animals)	My knowledge and skills	2 theoretical 3 practical	the third
Practical exercise, presentation and group work	Lecture and practical lesson	Specifications of different types ofAnimals(cowsMilkMeat, sheep, Goats	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Specifications for different types ofAnimalsPoultry Roman ducks and geese	My knowledge and skills	2 theoretical 3 practical	Fifth
Mini-lesson Discussion Practical exercise and working groups	Lecture and practical lesson	Specifications of different types of fish	My knowledge and skills	2 theoretical 3 practical	Sixth
Case study, practical exercise and work groups	Lecture and practical lesson	Reproduction inanimals The farmDifferent (cows buffalo Sheep goats Camels ,Horsespoultry Roman duck And the weight Fish)	My knowledge and skills	2 theoretical 3 practical	Seventh
Listening and giving questions, practical exercises and work groups	Lecture and practical lesson	Devices reproductive(Its parts, its function), puberty and sexual maturity, turn Lust(TypesHa, its stages, its methods Detection About it, its unification, periodPregnancy (stages)Ha, ways Diagnose it)	My knowledge and skills	2 theoretical 3 practical	The eighth
Questioning, listening, practical exercises and group work	Lecture and practical lesson	SystemsVaccinationused(types)Ha, Its benefits Its negatives) Stages of formationIN The eggin poultry, The Roman duckAnd the weight),	My knowledge and skills	2 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	productionMilkinanimals The farmDifferent (cows buffalo Sheep goats Camels ,Horses) Types of glandsMilk,partsHA And a joball part	My knowledge and skills	2 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Stages of gland developmentMilk,HormonesInfluential onpracticalUrine ,mlHe waslyourlAnd Urine FactorsInfluencing	My knowledge	2 theoretical 3	eleventh

		productionMilkWays measurementproductionMilk	**and skills**	**practica l**	
Practical exerc work	**Lecture and**		**My knowl**	**2 theoreti**	**fth**
Askir ques					**eent**
Pract exerc ques		**And its disadvantages**	**skills**	**l**	**teent**
Practical exercise questions	**Lecture and practical lesson**	**Types of fields used inbreedingFish,Its specifications,Its features And its disadvantages**	**My knowl edge and skills**	**1 theoreti cal 3 practica l**	**fifteenth**

11. Infrastructure	
The book of the methodG	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

12. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	**1.Educational institution**
Department of Animal Production Technologies	**2.Sectionscientific/ Center**
Animal anatomy/animal anatomy	**3.Course Name/Code**
Blended/Online/In-person Learning	**4.Available attendance forms**
Fall Semester / First Stage	**5.Chapter/Year**
75An hour in the classroom, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Questions and answers for a mini practical lesson	Lecture and practical lesson	TerminologyAnatomy, digestive system, bone morphology	My knowledge and skills	2 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	The structureAxial (skull, spine, ribs, sternum)	My knowledge and skills	2 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	PartiesAnterior (scapula, radius, ulna, carpal bones)	My knowledge and skills	2 theoretical 3 practical	the third
Practical exercise, presentation and group work	Lecture and practical lesson	PartiesBackground (pelvis, femur, tibia and fibula, foot and metatarsal bones)	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	The deviceArticular and types of joints	My knowledge and skills	2 theoretical 3 practical	Fifth
Mi... Dis... Pra... exe... an... wo... gro...					
Cas... pra... exe... an... groups			skills	al	

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Listening and giving questions, practical exercises and work groups	**Lecture and practical lesson**	**Respiratory system (nose, nasal cavity)**	**My knowledge and skills**	**1 theoretical 3 practical**	**The eighth**
Questioning, listening, practical exercises and group work	**Lecture and practical lesson**	**lungs, pleura, diaphragm**	**My knowledge and skills**	**2 theoretical 3 practical**	**Ninth**
Group work questions	**Lecture and practical lesson**	**Urinary system (kidney, bladder)**	**My knowledge and skills**	**2 theoretical 3 practical**	**tenth**
Mini-lesson work groups	**Lecture and practical lesson**	**Reproductive system (ovary, testis, appendix)**	**My knowledge and skills**	**2 theoretical 3 practical**	**eleventh**
Practical exercise and work groups	**Lecture and practical lesson**	**The circulatory system (heart, arteries, lymphatic system)**	**My knowledge and skills**	**2 theoretical 3 practical**	**twelfth**
Asking questions	**Lecture and practical lesson**	**nervous system, nerve cell**	**My knowledge and skills**	**2 theoretical 3 practical**	**thirteenth**
Practical exercise questions	**Lecture and practical lesson**	**Endocrine glands**	**My knowledge and skills**	**2 theoretical 3 practical**	**fourteenth**
Practical exercise questions	**Lecture and practical lesson**	**anatomyTheINAnd the ear**	**My knowledge and skills**	**2 theoretical 3 practical**	**fifteenth**

Headquarter Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	**1.Educational institution**
Animal Production Technology Department / Animal Health Branch	**2.Sectionscientific/ Center**
Animal physiology/animal physiology	**3.Course Name/Code**
Blended/Online/In-person Learning	**4.Available attendance forms**
Fall Semester / First Stage	**5.Chapter/Year**
60An hour in the classroom, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A-Cognitive objectives
A1-Teaching students about the functions of different body parts.

10.Course structure					
Evaluation method	**Teaching method**	**Name of unit/course or topic**	**Required learning outcomes**	**Watches**	**The week**
Questions and answers for a mini	**Lecture and practical lesson**	**The cell And its functions**	**My knowledge and skills**	**1 theoretical 3**	**the first**

practical lesson				practical	
Asking questions	Lecture and practical lesson	The cell Nervousness , The cell Muscular	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Physiology The device Nervous	My knowledge and skills	1 theoretical 3 practical	the third
Practical exercise, presentation and group work	Lecture and practical lesson	Physiology of the nervous system	My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Blood and its components, functions	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson Discussion Practical exercise and working groups	Lecture and practical lesson	Physiology Blood , Lymph The questioner Cerebral Spiny	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study, p e ar g	Lecture	Jazz The immune	My	1	h
Li an qu p ex ar g					nth
Qu , listening, practical exercises and group work	and practical lesson		My knowledge and skills	theoretical 3 practical	Ninth

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Gr… q…	Lecture	The device Poly And jobs bitch	…	1	
Mi…					…h
P… e… and work groups	practica l lesson		…dge and skills	ical 3 practic al	twelfth
Asking questions	Lecture and practica l lesson	The device Reproductive And feminine , The device Reproductive The memory	My knowle dge and skills	1 theoret ical 3 practic al	thirteenth
Practical exercise questions	Lecture and practica l lesson	birth Hormones birth	My knowle dge and skills	1 theoret ical 3 practic al	fourteenth
Practical exercise questions	Lecture and practica l lesson	Formation And urine Milk , Hormones Milk	My knowle dge and skills	1 theoret ical 3 practic al	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

Technical Institute / Shatra	1.Educational institution

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Animal Production Technology Department/ Animal Health Branch	**2.Sectionscientific/ Center**
Microscopic revival/microbiology	**3.Course Name/Code**
Blended/Online/In-person Learning	**4.Available attendance forms**
Fall Semester / First Stage	**5.Chapter/Year**
75An hour in the classroom, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A-Cognitive objectives **A1-Teaching students how to deal with different microorganisms.** **A2-Introducing students to the relationship between microorganisms and various diseases.** **A3-Enabling the student to know how to deal with laboratory materials and equipment.**
B -Program Skill Objectives **B1 -Providing the student with skills to apply scientific methods regarding types of microorganisms.** **B2 -Training the student on methods of diagnosing microorganisms.** **B3 -Providing the student with the necessary skills to conduct laboratory tests related to various types of microscopic organisms.**
Teaching and learning methods
Giving scientific and theoretical lectures using display screens, PowerPoint, slides, microscopes, sample examination experiments, and the use of various laboratory devices and equipment.
Evaluation methods
Conducting quick daily testsQuizzes **Conduct monthly exams** **Conducting midterm and final exams**
G- Emotional and value goals. **A1-Enabling the student to apply theoretical information in a practical way.** **A2-Developing the national spirit among students to increase production in terms of quantity and quality.** **A3-Instilling the concept of community service and the best way to deal with pathogenic and non-pathogenic microorganisms.**

A4-Developing the ethics of the profession of veterinarian among students by					
10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Questions and answers for a mini practical lesson	Lecture and practical lesson	**About General on science Neighborhoods Microscopic And its development**	My knowledge and skills	1 theoretical 2 practical	the first
Asking questions	Lecture and practical lesson	**Categories Home For the living Microscopic cell Physical nucleus And the cell , Real nucleus**	My knowledge and skills	1 theoretical 2 practical	the second
Listening and asking questions	Lecture and practical lesson	**Attributes General For bacteria and its contents feeding Bacteria Cultivate it on Media Different And the roles that Play it Bacteria in nature**	My knowledge and skills	1 theoretical 2 practical	the third
Practical exercise, presentation and group work	Lecture and practical lesson	**Phases Dates For bacteria Growth phases**	My knowledge and skills	1 theoretical 2 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	**education:Roads Physics And chemistry and Nomination**	My knowledge and skills	1 theoretical 2 practical	Fifth
Mini-lesson Discussion Practical exercise	Lecture and practical lesson	**Families and optimum Bacterial And the cocci The field Cluster , Pseudomonas(Fake)**	My knowledge and skills	1 theoretical 2 practical	Sixth

and working groups					
Case study, practical exercise and work groups	Lecture and practical lesson	**salmonella, The chocolate , Bacteria Colon E-coli**	My knowledge and skills	1 theoretical 2 practical	Seventh
Listening and giving questions, practical exercises and work groups	Lecture and practical lesson	**Clostridia , Basil**	My knowledge and skills	1 theoretical 2 practical	The eighth
Questioning, listening, practical exercises and group work	Lecture and practical lesson	**Mycobacteria , Pasteurella**	My knowledge and skills	1 theoretical 2 practical	Ninth
Group work questions	Lecture and practical lesson	**The virio, Trichomonas And brucella**	My knowledge and skills	1 theoretical 2 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	**Viruses and the attributes General And classification**	My knowledge and skills	1 theoretical 2 practical	eleventh
Practical exercise and work groups	Lecture and practical lesson	**Most important Viruses Smallpox Newcastle And the comburu and Plague Cow And influenza Birds And fever Castle**	My knowledge and skills	1 theoretical 2 practical	twelfth
Asking questions	Lecture and practical lesson	**Fungi And classification Properties:Agriculture Benefits and damages Antibiotics Vitality she has**	My knowledge and skills	1 theoretical 2 practical	thirteenth

Practical exercise questions	Lecture and practical lesson	**Mycoplasma Its properties And its forms , Diseases that Caused by**	My knowledge and skills	1 theoretical 2 practical	fourteenth
Practical exercise questions	Lecture and practical lesson	**Immunity And antibiotics and Antigens And its palm fronds , Vaccines Prepare it And its importance**	My knowledge and skills	1 theoretical 2 practical	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbookPlant protection	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

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Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Animal hygiene Animal health	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / First Stage	5.Chapter/Year
60An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Questions and answers for a mini practical lesson	Lecture and practical lesson	importance health Animal and factors Influential on Animal	My knowledge and skills	1 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	impact the heat And humidity And the sun And the wind	My knowledge and skills	1 theoretical 3 practical	the second

Evaluation methods
Conducting quick daily testsQuizzes

Listening and asking questions	Lecture and practical lesson	housing Animals	My knowledge and skills	1 theoretical 3 practical	the third
Practical exercise, presentation and group work	Lecture and practical lesson	appreciation Air Necessary inside The pens And also Area	My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Ventilation And methods Exchange Health How to Get rid of from Waste	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson Discussion Practical exercise and working groups	Lecture and practical lesson	Systems Different For the pens Cattle And sheep	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study, practical exercise and work groups	Lecture and practical lesson	Poultry And horses And organize Its enclosures	My knowledge and skills	1 theoretical 3 practical	Seventh
Listening and giving questions, practical exercises and work groups	Lecture and practical lesson	sources Water inside The pens And methods Pollution	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening, practical exercises and group work	Lecture and practical lesson	Needs Animals from Water	My knowledge and skills	1 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Diseases Epidemiology source Infection And methods Avoid it	My knowledge and skills	1 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Disinfectants used in Fields Animal promising The paint	My knowledge and skills	1 theoretical 3	eleventh

				practical	
Practical exercise and work groups	Lecture and practical lesson	Parasites Foreign And its secretion And methods Its resistance	My knowledge and skills	1 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Ways Poisoning With pesticides Insectivorous And prevention From it	My knowledge and skills	1 theoretical 2 practical	thirteenth
Practical exercise questions	Lecture and practical lesson	Ways Get rid of from Corpses Animals	My knowledge and skills	1 theoretical 2 practical	fourteenth
Practical exercise questions	Lecture and practical lesson	Stone Veterinarian on Animals Imported	My knowledge and skills	1 theoretical 3 practical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Description of the headquartersR

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

12.Infrastructure	
The textbookFor general soil	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department / Animal Health Branch	2.Sectionscientific/ Center
Biochemistry /biochemistry	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / First Stage	5.Chapter/Year
60An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared

8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Questions and answers for a mini practical lesson	Lecture and practical lesson	The importance of biochemistry in medical studies	My knowledge and skills	1 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Carbohydrates - Sugars	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Fats - Fatty Acids Properties and Chemical Reactions of Fats	My knowledge and skills	1 theoretical 3 practical	the third
Practical exercise, presentation and group work	Lecture and practical lesson	Amino Acid and Protein Chemistry	My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Protein formation and genetic regulation of biological actions	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson Discussion Practical exercise and working groups	Lecture and practical lesson	Enzymes classification and modes of action	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study, practical exercise and work groups	Lecture and practical lesson	Vitamins and their types	My knowledge and skills	1 theoretical 3 practical	Seventh

Listening and giving questions, practical exercises and work groups	Lecture and practical lesson	Coenzymes - Their Bio-Oxidative Functions	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening, practical exercises and group work	Lecture and practical lesson	Hormones of the pituitary gland, pancreas, thyroid and sex glands	My knowledge and skills	1 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	carbohydrate metabolism	My knowledge and skills	1 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Fatty acid synthesis and oxidation	My knowledge and skills	1 theoretical 3 practical	eleventh
Practical exercise and work groups	Lecture and practical lesson	Protein metabolism	My knowledge and skills	1 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Urine - its physical, chemical and pathological properties	My knowledge and skills	1 theoretical 3 practical	thirteenth
Practical exercise questions	Lecture and practical lesson	immunochemistry	My knowledge and skills	1 theoretical 3 practical	fourteenth
Practical exercise questions	Lecture and practical lesson	Blood - its chemical and physical properties	My knowledge and skills	1 theoretical 3 practical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbookFor tractors and agricultural machinery	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether

he/she has made the most of the opportunities LearningAvailable. It must be linked	
Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department / Animal Health Branch	2.Sectionscientific/ Center
Computer Basics 1 /Computer Application	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / First Stage	5.Chapter/Year
30 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.Outputs:The decisionTeaching, learning and assessment methods
11. Curriculum development plan - Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

10.					
Evaluation method	g method	Name of unit/course or topic	g outcomes	Watche s	The week
Questions and answers for a m pra less	Lecture and	Definition of the calculator and its benefits, its generations, linking the parts of the calculator, the physical components of the	My knowle	1 theoret ical 2 practic	First-Sixth
Ask questions		main screen, START button, TASKBAR usage, mouse activities, importance and components of the taskbar for entering programs,	dge and skills	al	Tenth

12.Infrastructure	
The textbookComputer Basics Part 1 and 2	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

		exiting the system and turning off the computer			
Listening and asking questions	Lecture and practical lesson	iconMY COMPUTER, the concept of the window and identifying its main components, dealing with icons, copying files and folders, cutting and pasting, identifying RECYCLE BIN, MY DOCUMENTS	My knowledge and skills	1 theoretical 2 practical	eleventh-fourteenth
Practical exercise, presentation and group work	Lecture and practical lesson	Properties of files, folders and disks, change desktop backgroundDESKTOP BACKGROUND, COLOR WINDOWS COLOR, SCREEN SAVER	My knowledge and skills	1 theoretical 2 practical	15th-18th
Practical exercise, presentation and group work	Lecture and practical lesson	Mouse properties, getting to know the control panelCONTROL PANAL, How to delete programs installed through PROGRAM AND FEATURES, Identify some ACCESSORIES, such as CALCULATOR, WORDPAD, Play video files PLAYER WINDOSWS MEDIA	My knowledge and skills	1 theoretical 2 practical	Nineteenth-Twenty-Two
Mini-lesson Discussion Practical exercise and working groups	Lecture and practical lesson	The concept of computer virus, the motives for the spread of viruses, how to get infected with a virus, types of viruses according to the nature of infection and damage, signs of a virus infection of the computer, precautions that must be taken to avoid viruses entering the computer, dealing with one of the anti-virus programs	My knowledge and skills	1 theoretical 2 practical	twenty-third-twenty-fourth
Case study, practical exercise and work groups	Lecture and practical lesson	Networks and their types, network types, network protocols	My knowledge and skills	1 theoretical 2 practical	Twenty-fifth
Listening and giving questions, practical exercises and work groups	Lecture and practical lesson	The Internet and its development, the Internet and the Intranet, firewalls, some basic Internet concepts	My knowledge and skills	1 theoretical 2 practical	Twenty-sixth
Questioning, listening, practical exercises	Lecture and practical lesson	Connect to the Internet, open the Internet browser, components of the Internet browser window, toolbars, browser icons	My knowledge and skills	1 theoretical 2	twenty-seventh

and group work				practical	
Group work questions	Lecture and practical lesson	Web addresses, change home pageHOME PAGE, Close browser and disconnect internet, Store favorite pages	My knowledge and skills	1 theoretical 2 practical	Twenty-eighth
Mini-lesson work groups	Lecture and practical lesson	Search engines, how to search for information on the net, copying texts and images from websites to any application, downloading files from the internet, preparing for printing, printing	My knowledge and skills	1 theoretical 2 practical	twenty-ninth
Practical exercise and work groups	Lecture and practical lesson	Definition of emailE-MAIL and its advantages, creating a GMAIL email from the Google search engine, writing a new message, attaching files to messages ATTACHMENT, reading the INBOX, replying to messages REPLAY, forwarding incoming messages to others FORWARD, deleting messages, exiting the email	My knowledge and skills	1 theoretical 2 practical	thirty

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center

Human rights and democracy Human rights and democracy	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / First Stage	5.Chapter/Year
30 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Human rights - definition - objectives - roots of human rights and their development in human history - human rights in ancient and medieval times	My knowledge and skills	2 theoretical	the first
Asking questions	Lecture and practical lesson	Human Rights in the Civilization of Mesopotamia - Human Rights in Heavenly Laws - A Special Study of Human Rights in Islam	My knowledge and skills	2 theoretical	the second
Listening and asking questions	Lecture and practical lesson	Human Rights in the Middle Ages - Rights in doctrines, schools, theories, corporations, their declarations and constitutions - Human Rights in contemporary and modern history - International recognition of human rights in the League of Nations	My knowledge and skills	2 theoretical	the third
And casting and working groups	Lecture and practical lesson	Regional recognition of human rights - European Convention on Human Rights 1950 - American Convention 1969 - NGOs and human rights	My knowledge and skills	2 theoretical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	National Human Rights Organizations - Human Rights in Iraqi Constitutions: Between Theory and Reality	My knowledge and skills	2 theoretical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	The relationship between human rights and public freedoms in the Universal Declaration of Human	My knowledge and skills	2 theoretical	Sixth

		Rights, regional charters and national constitutions			
Case study and work groups	Lecture and practical lesson	Essential 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
Listening, asking questions and working groups	Lecture and practical lesson	Modern human rights - Facts in development - The right to a clean environment - The right to solidarity - The right to religion - Guarantees of respect for and protection of human rights at the national level - Guarantees in the constitution and laws - Guarantees in the principle of the rule of law	My knowledge and skills	2 theoretical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Guarantees in constitutional oversight - in freedom of the press and public opinion - guarantees of respect for human rights at the international level - the role of the United Nations in providing guarantees	My knowledge and skills	2 theoretical	Ninth
Group work questions	Lecture and practical lesson	The role of the Arab League, the European Union, the African Union and the ASEAN in respecting and protecting human rights - the general theory of freedoms - the origin of rights and freedoms	My knowledge and skills	2 theoretical	tenth
Mini-lesson work groups	Lecture and practical lesson	The functional nature of the concept of public liberties - Philosophical considerations of functional right - Structural and economic considerations	My knowledge and skills	2 theoretical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	The legal basis of the rule of law – the regulation of public freedoms by public authorities	My knowledge and skills	2 theoretical	twelfth
Asking questions	Lecture and practical lesson	Non-judicial litigation or grievance – Judicial appeal – Determining the state's responsibility for its legitimate actions	My knowledge and skills	2 theoretical	thirteenth
Asking questions	Lecture and practical lesson	The impact of the duality of the judiciary on public freedoms - Public freedoms in administrative jurisprudence - Equality - Its historical development	My knowledge and skills	2 theoretical	fourteenth
Asking questions	Lecture and	Modern development of the idea of equality - gender equality - equality	My knowle	2 theoretical	fifteenth

	practica l lesson	between individuals according to their beliefs and race	dge and skills		

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbookHuman rights as well as the principles of democracy	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Animal pathologypathology	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring semester / first stage	5.Chapter/Year
75 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods

A-Cognitive objectives -
A1-The student should be familiar with the concept of animal diseases.
A2-The student classifies diseases based on the type of causative agent and the type of infected animal.
A3-The student should differentiate between epidemic and non-epidemic diseases and the difference in management programs.
Among them
A4-The student learns how to treat common diseases and the difference inSuppliesTherapeutic among them -

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Definition of pathology, definition of pest and a brief about pathology	My knowledge and skills	2 theoretical	the first

11. Curriculum development plan

- **Providing academic support in organizing field visits.**
- **Providing an appropriate classroom environment that enables teachers 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.**

Asl qu					**nd**
Listening and asking questions	**and practical lesson**		**My knowledge and skills**	**theoretical 3 practical**	**the third**
And casting and working groups	**Lecture and practical lesson**	**Inflammation, function of the inflammatory response, components of this response**	**My knowledge and skills**	**2 theoretical 3 practical**	**Fourth**
Practical exercise, presentation and group work	**Lecture and practical lesson**	**Maturity classificationHat, healing or repair, granulation tissue and healing**	**My knowledge and skills**	**2 theoretical 3 practical**	**Fifth**
Mini-lesson discussion and group work	**Lecture and practical lesson**	**Growth disorders tissue deficiency - atrophy**	**My knowledge and skills**	**22 theoretical 3 practical**	**Sixth**
Case study and work groups	**Lecture and practical lesson**	**Hyperplasia - hyperplasia - metaplasia**	**My knowledge and skills**	**2 theoretical 3 practical**	**Seventh**
Listening, asking questions and working groups	**Lecture and practical lesson**	**The effect of radiation on normal cells and tissue changes due to radiation**	**My knowledge and skills**	**2 theoretical 3 practical**	**The eighth**
Questioning, listening and group work	**Lecture and practical lesson**	**Tumors, tumor definition, tumor classification, tumor causes**	**My knowledge and skills**	**2 theoretical**	**Ninth**

				3 practical	
Group work questions	Lecture and practical lesson	Blood disorders, hyperemia, venous congestion, bleeding	My knowledge and skills	22 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Chosen wood - infarction, joining	My knowledge and skills	2 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Lung tumors, tuberculosis	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Factors contributing to acid reflux disease	My knowledge and skills	2 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Parasite-host relationship	My knowledge and skills	2 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Tissue preparation for histological examination	My knowledge and skills	2 theoretical 3 practical	fifteenth

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

12.Infrastructure	
The textbookHuman rights as well as the principles of democracy	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Histologyhistology	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring semester / first stage	5.Chapter/Year
60An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)

2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A- Cognitive objectives A1-Identify body tissuesAnimalVarious and its devices A2-knowledgeEmbryogenesis A3-knowledgeCell divisions A4-Knowing the number of red and white blood cells inDifferent animals
B- Course specific skill objectives B1-Conducting laboratory blood testsDifferent animals B2-Cholesterol measurement

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Definition of histology, cell, its components, divisions	My knowledge and skills	1 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Types of tissues: epithelial, connective, muscular, nervous	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Skin composition - types of mandibular glands - hoof - horns	My knowledge and skills	1 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Types of connective tissues: pleural connective tissue - adult connective tissue - skeletal connective tissuevascular connective tissue	My knowledge and skills	1 theoretical 3 practical	Fourth

Practical exercise, presentation and group work	Lecture and practical lesson	Skeletal connective tissue: cartilage and its types, bones and their structure, development and types	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Vascular connective tissue, shape, size and function of blood cells and platelets	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Arteries and veins, their types and composition, and the composition of the heart and valves	My knowledge and skills	1 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Muscle tissue: smooth, skeletal, cardiac	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Nervous tissue: nerve cells, their types, ganglia and nerve fibers	My knowledge and skills	1 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Digestive system esophagus, stomach, intestines Respiratory system nose, throat, trachea. Lung	My knowledge and skills	1 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Urinary system kidney ureter bladder urethra female and male reproductive system	My knowledge and skills	1 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Embryology Introduction and its relationship to other sciences	My knowledge and skills	1 theoretical 3 practical	twelfth

Asking questions	Lecture and practical lesson	Steps of sexual development from fertilization to castra formation	My knowledge and skills	1 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Layers Ectoderm, Mesoderm, Endoderm	My knowledge and skills	1 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	The stage of formation of primitive layers and early embryogenesis of the chick up to 72 hours of age	My knowledge and skills	1 theoretical 3 practical	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Parasitology /parasitology	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring semester / first stage	5.Chapter/Year
60An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Parasitology, parasites and types of parasites in relation to their ways of life, an overview of immunity against parasitic infection, the effect of parasitism on the parasite and the host and the relationship between them	My knowledge and skills	1theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	How infection is transmitted, life cycle of parasites, how to name parasites and general classification	My knowledge and skills	1 theoretical 3 practical	the second

Listening and asking questions	Lecture and practical lesson	Flatworm family, characteristics and general classification, Fasciolidae family, Fasciola genus	My knowledge and skills	1 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Family Heterophyidae, Paramphistomatidae, Schistosomatidae	My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Tapeworms, Characteristics and Classification	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	The Tenidi family,	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Nematodes, Characteristics and Classification	My knowledge and skills	1 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Hetracide, Oxyuride	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Strongelidae Angelstomatididae	My knowledge and skills	1 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Stomach, intestinal, and reindeer worms in cattle and sheep	My knowledge and skills	1 theoretical 3 practical	tenth

Mini-lesson work groups	Lecture and practical lesson	Protozoa, Trypanosoma, Leishmania, Flagellates	My knowledge and skills	1 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Babesia, Thelleria, Plasmodium	My knowledge and skills	1 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Insects and arachnids	My knowledge and skills	1 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Myiasis in cattle, sheep and horses	My knowledge and skills	1 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Prevention of internal and external parasites	My knowledge and skills	2 theoretical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

12.Infrastructure	
The textbookHuman rights as well as the principles of democracy	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Animal feed /animal nutrition	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms

Spring semester / first stage	**5.Chapter/Year**
75 hours per semester, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	**Lecture and practical lesson**	**Feed ingredients (water,CarbohydratesProteins, fats, minerals, vitamins, their types, functions**	**My knowledge and skills**	**2 theoretical 3 practical**	**the first**
Asking questions	**Lecture and practical lesson**	**Feed ingredients (water,CarbohydratesProteins, fats, minerals, vitamins, their types, functions**	**My knowledge and**	**2 theoretical 3**	**the second**
List and questions		**different animals, accessory**	**skills**	**practical**	

12.Infrastructure

The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)

	Scientific journals, as well as research, theses and dissertations of professors in the same specialization.		A. Recommended books and references (scientific journals, reports, etc.)		
	locationwww.google.com		B. Electronic references, websites		
And and wo groups			**skills**	**practic al**	
Practical exercise, presentatio n and group work	**Lecture and practica l lesson**	**OperationsDigestion and absorption of nutrients from the supernatant (CarbohydratesSimple and complex, proteins, lipids) in the systemDigestiveFor ruminants and materials resulting from various metabolic processes**	**My knowle dge and skills**	**2 theoret ical 3 practic al**	**Fifth**
Mini-lesson discussion and group work	**Lecture and practica l lesson**	**Digestion and absorption of food compounds of the supernatant (simple and complex carbohydrates, proteins, lipids) in the digestive system of ruminants and materials resulting from various metabolic processes**	**My knowle dge and skills**	**2 theoret ical 3 practic al**	**Sixth**
Case study and work groups	**Lecture and practica l lesson**	**OperationsDigestion and absorption of nutrients of the feed material (CarbohydratesSimple and complex proteins, lipids) in the digestive system of monogastric animals (poultry) and materials resulting from various metabolic processes**	**My knowle dge and skills**	**2 theoret ical 3 practic al**	**Seventh**
Listening, asking questions and working groups	**Lecture and practica l lesson**	**Microorganisms in the digestive systems of different animals (locations, types, functions) and their relationship to the metabolic processes of food compounds**	**My knowle dge and skills**	**2 theoret ical 3 practic al**	**The eighth**
Questioning , listening and group work	**Lecture and practica l lesson**	**Use of MaterialsNitrogenousAndProtein in ruminant nutrition (types, feeding methods, poisoning).**	**My knowle dge and skills**	**2 theoret ical 3 practic al**	**Ninth**
Group work questions	**Lecture and practica l lesson**	**Feeding dairy and beef cows (nutritional requirements of cowsFor purposesDifferent, feeding systems, feeding stages, feeding stages, feeding stages for newborns, feeding stages for males).**	**My knowle dge and skills**	**2 theoret ical 3 practic al**	**tenth**

Mini-lesson work groups	Lecture and practical lesson	Sheep and Goat Feeding (Nutritional Requirements)For purposesDifferent, female feeding stages, newborn feeding stages, male feeding stages)	My knowledge and skills	2 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Nutritional requirements of poultry and turkeys (energy, protein, vitamins, minerals)	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	WaysgiveFeed for poultry and turkeys, food rationing and its methods, supplementary feeds used in poultry diets, nutrition relationshipBy productionEggs and their quality, nutrition relationshipBy productionMeat	My knowledge and skills	2 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Feed materials used in feeding various animals (cows, sheep, buffalo, poultry, turkeys)Its types, benefits, and problemsCaused byIn its effect on animal production)	My knowledge and skills	2 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Some metabolic and nutritional diseases affecting ruminants and monogastric animals (cattle, sheep, poultry, turkeys)	My knowledge and skills	2 theoretical 3 practical	fifteenth

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Pharmacology and Toxicology /pharmacology	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring semester / first stage	5.Chapter/Year
60 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A- Cognitive objectives A1- How to dispense the medicine A2- WarningThe educatorDisadvantages of medicationswhich he uses to treat his

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Definition of pharmacology and related sciences Sources of drugs and methods of administering drugs Factors that affect the body's response to drugs Types of drug action	My knowledge and skills	1 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Gastrointestinal drugs and their types: antacids, emetics, antiemetics	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Carminatives, gas absorbers, rumen fermentation, anti-catarrhal, laxatives	My knowledge and skills	1 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Laxatives Astringents Membrane protectors Commonly used drugs in the digestive system Local and general anesthesia	My knowledge and skills	1 theoretical	Fourth

				3 practical	
Practical exercise, presentation and group work	Lecture and practical lesson	Drugs that affect the nervous system, stimulants Drugs that affect the central nervous system, stimulants, depressants, sedativesandPainkillers, contraceptives	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Respiratory system medications, respiratory stimulants, decongestants, antihistaminesAFor bronchospasmodics, lungworm repellents	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	DWaaReproductive system, uterine stimulants and astringents, drugs affecting the udder and milk secretion, drugs affecting sexual desire and drugs used in mastitis	My knowledge and skills	1 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Urinary tract medications, trainers, types and antibioticsUrineDrugs that affect urinary tract contractions, urinary tract antiseptics, cardiac stimulants and cardiotonic drugs, and drugs used in anemia	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Blood thinners and anticoagulantsHe isSkin aggression and medications that help increase skin secretions, skin protectors, skin astringents, skin deodorants	My knowledge and skills	1 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	AntibioticsVitallts applications according to its effect on the different parts of the microbe. Examples of antibiotics.	My knowledge and skills	1 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Sulfanimide types, their effect on microbes, chemotherapy, protozoa, including (Babesia liberia, cyanobacteria), antifungals	My knowledge and skills	1 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and	worm repellentsAll kindstissue parasite repellents	My knowle	1 theoretical	twelfth

	practical lesson		dge and skills	3 practical	
Asking questions	Lecture and practical lesson	Chemother Abi external parasites, insects and rodents, pharmaceutical feed additives such as vitamins and salts	My knowledge and skills	1 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Poisons, pesticides and toxic effectsFor medicinesAnd the factors affecting it	My knowledge and skills	1 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Inorganic toxins Organic toxins Insecticides, poisonous plants and organic toxins of a sourceAnimal	My knowledge and skills	1 theoretical 3 practical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Surgery /surgery	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring semester / first stage	5.Chapter/Year
60 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Definition of surgery Surgical terms	My knowledge and skills	1 theoretical	the first

				3 practical	
Asking questions	Lecture and practical lesson	Surgical operations, their rules, their purpose, operating room	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Surgical drugs, factors affecting surgical procedures	My knowledge and skills	1 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	NeedlesSurgical and surgical sutures Types of surgical sutures	My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Types of surgical sutures	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Surgical anesthesia, types of drugs, types of surgical anesthesia	My knowledge and skills	1 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Stages of anesthesia	My knowledge and skills	1 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Wounds and their types, treatment of wounds and contaminated wounds	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Fractures, their types, treatment and factors affecting them	My knowledge and skills	1 theoretical	Ninth

				3 practical	
Group work questions	Lecture and practical lesson	Burns, their types, treatment, and factors affecting them	My knowledge and skills	1 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Tumors, cysts, bruises, fistulas	My knowledge and skills	1 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Hernia bruises, canker sores, hernia	My knowledge and skills	1 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	X-rays, their characteristics and methods of protection	My knowledge and skills	1 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Danger of X-raysOhDHA	My knowledge and skills	1 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	X-ray film and fracture diagnosis process	My knowledge and skills	1 theoretical 3 practical	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether

he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Infectious diseasesinfectious disease	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / Second Stage	5.Chapter/Year
75An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A-Cognitive objectives A1-Teaching students about the most important causes of infectious diseases in animals, including viruses, bacteria, and others.

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	White diarrhea in calves and salmonella in calves	My knowledge and skills	2 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Enterotoxemia, lamb dysentery	My knowledge and skills	2 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	soft kidney disease,	My knowledge and skills	2 theoretical	the third

				3 practical	
And casting and working groups	Lecture and practical lesson	Mastitis	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Anthrax, hemorrhagic septicemia	My knowledge and skills	2 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Anthrax, foot-and-mouth disease	My knowledge and skills	2 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Black hoof rot disease	My knowledge and skills	2 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	tuberculosis, johns disease	My knowledge and skills	2 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	glossitis, actinomycosis	My knowledge and skills	2 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Pseudotuberculosis in sheep, infectious pleuropneumonia	My knowledge and skills	2 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Brucellosis, Trichomonas, Febria	My knowledge and skills	2 theoretical	eleventh

				3 practical	
Listening to a mini-lesson	Lecture and practical lesson	Salmonellosis disease	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Rinderpest	My knowledge and skills	2 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Smallpox in sheep and cattle	My knowledge and skills	2 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Tetanus in sheep	My knowledge and skills	2 theoretical 3 practical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked	
Technical Institute / Shatra	**1.Educational institution**
Animal Production Technology Department/Animal Health Branch	**2.Sectionscientific/ Center**
Poultry diseasespoultry diseases	**3.Course Name/Code**
Blended/Online/In-person Learning	**4.Available attendance forms**
Fall Semester / Second Stage	**5.Chapter/Year**
75An hour in the classroom, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
poultry. A3- Teaching students about poultry vaccinations and knowing their dates.					

Lesson questions and answers	Lecture and practical lesson	**Poultry dissection - the process of opening the carcass - the devices and tools used. An overview of the different body systems.**	My knowledge and skills	**2 theoretical 3 practical**	the first
Asking questions	Lecture and practical lesson	**digestive system, respiratory system**	My knowledge and skills	**2 theoretical 3 practical**	the second
Listening and asking questions	Lecture and practical lesson	**urinary and reproductive system, circulatory system**	My knowledge and skills	**2 theoretical 3 practical**	the third
And casting and working groups	Lecture and practical lesson	**immune system, nervous system**	My knowledge and skills	**2 theoretical 3 practical**	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	**Definition of the disease, its causes, classification of poultry diseases according to their pathogens, how to diagnose poultry diseases**	My knowledge and skills	**2 theoretical 3 practical**	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	**Viral diseases (Newcastle disease, infectious bronchitis, fowl pox, cambora**	My knowledge and skills	**2 theoretical 3 practical**	Sixth
Case study and work groups	Lecture and practical lesson	**Encephalitis, infectious hepatitis, avian influenza**	My knowledge and skills	**2 theoretical 3 practical**	Seventh
Listening, asking questions and	Lecture and practical lesson	**Bacterial diseases: (polyposis, typhoid, paratyphoid, Escherichia coli infection)**	My knowledge and skills	**2 theoretical 3 practical**	The eighth

working groups					
Questioning, listening and group work	Lecture and practical lesson	**Tuberculosis, fowl syphilis, fermentative enteritis**	My knowledge and skills	**2 theoretical 3 practical**	Ninth
Group work questions	Lecture and practical lesson	**air sacculitis, infectious coryza, poultry cholera**	My knowledge and skills	**2 theoretical 3 practical**	tenth
Mini-lesson work groups	Lecture and practical lesson	**Cancerous diseases: (Mark's disease, Bacillus subtilis, cancerous tumors)**	My knowledge and skills	**2 theoretical 3 practical**	eleventh
Listening to a mini-lesson	Lecture and practical lesson	**Parasitic diseases: (coccidia, histomoniasis, trichomonas)**	My knowledge and skills	**2 theoretical 3 practical**	twelfth
Asking questions	Lecture and practical lesson	**Nutritional deficiency diseases: (protein, carbohydrates, fats, vitamins, salts)**	My knowledge and skills	**2 theoretical 3 practical**	thirteenth
Asking questions	Lecture and practical lesson	**Fungal diseases (aspergillosis, gastrointestinal fungi, skin diseases)**	My knowledge and skills	**2 theoretical 3 practical**	fourteenth
Asking questions	Lecture and practical lesson	**Diseases caused by breeding errors (poisoning, foot abscess, pectoral muscle inflammation)**	My knowledge and skills	**2 theoretical 3 practical**	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

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Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center

Physiology of reproduction and fertilizationreproductive physiology	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / Second Stage	5.Chapter/Year
75An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	The importance of reproductive physiology and artificial insemination and its relationship to genetic improvement	My knowledge and skills	2 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Endocrine glands and their relationship to reproduction	My knowledge and skills	2 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Sexual maturity and factors affecting it	My knowledge and skills	2 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Physiology of the female and male reproductive system	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	The menstrual cycle, its stages and the factors affecting it.	My knowledge and skills	2 theoretical 3 practical	Fifth

Mini-lesson discussion and group work	Lecture and practical lesson	Physiology of the ovary and the hormones secreted by it	My knowledge and skills	2 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Pregnancy diagnosis -	My knowledge and skills	2 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Ovarian function and egg transfer	My knowledge and skills	2 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Function of the testicles and accessory gonads	My knowledge and skills	2 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Physiology and composition of sperm	My knowledge and skills	2 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Semen preservation and semen freezing methods	My knowledge and skills	2 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Fertilization, pregnancy, hormone control and changes in the female reproductive system	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Artificial insemination in sheep and poultry	My knowledge and skills	2 theoretical 3 practical	thirteenth

Asking questions	Lecture and practical lesson	Reproductive efficiency of cows - Reproductive efficiency of bulls	My knowledge and skills	2 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Embryo transfer - Multiple ovulation. Twins. Monocytosis	My knowledge and skills	2 theoretical 3 practical	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Clinical 1/clinic 1	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / Second Stage	5.Chapter/Year
60An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A-Cognitive objectives

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions	Lecture and	The student is trained in veterinary hospitals and clinics on whatMStudying theoretical and	My knowle	4 practical	the first

and answers	practical lesson	practical lessons, vaccinating animals against infectious diseases, and performing simple surgical operations.	dge and skills		

slides.

Evaluation methods

Conducting quick daily testsQuizzes
Conduct monthly exams
Conducting midterm and final exams

G- Emotional and value goals.

A1-Enabling the student to apply theoretical information in a practical way.
A2-Developing the national spirit among students to increase production in terms of quantity and quality.
A3-Instilling the concept of community service and the best way to deal with the simple segments of society, farmers and peasants.

D - General skills andQualificationTransferable (other skills related to employability and personal development).

D1-
D2-
D3-
D4-

11. Curriculum development plan

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

12.Infrastructure

There is no textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	**1.Educational institution**
Animal Production Technology Department/ Animal Health Branch	**2.Sectionscientific/ Center**
Fish farming and productionfish breeding and production	**3.Course Name/Code**
Blended/Online/In-person Learning	**4.Available attendance forms**
Fall Semester / Second Stage	**5.Chapter/Year**
75 hours per semester, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	**Fish farming in Iraq Introduction to fish science, its economic importance**	My knowledge and skills	**2 theoretical 3 practical**	the first
Asking questions	Lecture and	**The most important types of fish spread in the resources Iraqi water**	My knowle	**2 theoretical**	the second

	practical lesson		dge and skills	**3 practical**	
Listening and asking questions	Lecture and practical lesson	**Fish external and internal structures**	My knowledge and skills	**2 theoretical 3 practical**	the third
And casting and working groups	Lecture and practical lesson	**Nutritional requirements of fish (proteins, fats, vitamins, minerals)**	My knowledge and skills	**2 theoretical 3 practical**	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	**Digestion and how to get rid of digestive and absorption waste in fish, factors affecting digestion**	My knowledge and skills	**2 theoretical 3 practical**	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	**Planning to establish a fish farm**	My knowledge and skills	**2 theoretical 3 practical**	Sixth
Case study and work groups	Lecture and practical lesson	**Types of fish farms and different systems for breeding in ponds and cages**	My knowledge and skills	**2 theoretical 3 practical**	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	**Steps to introduce a fish meal for breeding**	My knowledge and skills	**2 theoretical 3 practical**	The eighth
Questioning, listening and group work	Lecture and practical lesson	**Factors affecting fish growth and production (environmental factors, biological factors)**	My knowledge and skills	**2 theoretical 3 practical**	Ninth

Group work questions	Lecture and practical lesson	**Nutrition and factors affecting it, feeding method, food storage, food conversion factor, how to calculate it**	My knowledge and skills	**2 theoretical 3 practical**	tenth
Mini-lesson work groups	Lecture and practical lesson	**Production, propagation and development of natural plants**	My knowledge and skills	**2 theoretical 3 practical**	eleventh
Listening to a mini-lesson	Lecture and practical lesson	**Food additives and supplements for fish**	My knowledge and skills	**2 theoretical 3 practical**	twelfth
Asking questions	Lecture and practical lesson	**Reproduction, reproductive systems, types of reproduction, egg formation and production, factors affecting it**	My knowledge and skills	**2 theoretical 3 practical**	thirteenth
Asking questions	Lecture and practical lesson	**Fish hatchery parts**	My knowledge and skills	**2 theoretical 3 practical**	fourteenth
Asking questions	Lecture and practical lesson	**Types and sources of water pollution and their impact on aquatic life**	My knowledge and skills	**2 theoretical 3 practical**	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course DescriptionCourse Description

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12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1- Educational institution
Animal Production Technology Department/ Animal Health Branch	2- Sectionscientific/ Center
English language	3- Course Name/Code
Blended/Online/In-person Learning	4- Available attendance forms
Fall Semester / Second Stage	5- Chapter/Year
30An hour in the classroom, theoretical and practical	6- Number of study hours(kidney)

	7- Date this description was prepared
8- Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9- OutputsThe decisionTeaching, learning and assessment methods
A cognitive objectives -

10- Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Questions and answers for a mini practical lesson	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	the first
Asking qu	Lecture and practic		My knowledge	1 theoretical 2	the
Lis an ask qu					d
Practical exercise, presentation and group work	Lecture and practical lesson		My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise,	Lecture and		My knowl	1 theore	Fifth

11- Infrastructure	
The textbook	1. Required textbooks
	2. Main references (sources)
Scientific journals as well as research papers and theses. Professors' theses in the same specialization	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com Animal Science Journal	B. Electronic references, websites

presentation and group work	practical lesson		edge and skills	tical 3 practical	
Mini-lesson Discussion Practical exercise and working groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 3 practical	Sixth
Case study Practical exercise and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	Seventh
Listening and giving questions, practical exercises and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	The eighth
Questioning, listening, practical exercises and group work	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	Ninth
Group work questions	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	tenth
Mini-lesson work groups	Lecture and practic		My knowledge	1 theoretical 2	eleventh

	al lesson		and skills	practi cal	
Practical exercise and work groups	Lectur e and practic al lesson		My knowl edge and skills	1 theore tical 2 practi cal	twelfth
Asking questions	Lectur e and practic al lesson		My knowl edge and skills	1 theore tical 2 practi cal	thirteent h
Practical exercise questions	Lectur e and practic al lesson		My knowl edge and skills	1 theore tical 2 practi cal	fourteent h
Practical exercise questions	Lectur e and practic al lesson		My knowl edge and skills	1 theore tical2 practi cal	FifthAevil

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.	
The textbookHuman rights as well as the principles of democracy	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Calculator applications 2 /computer app. 2	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Fall Semester / Second Stage	5.Chapter/Year
45 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods
A-Cognitive objectives - A1-The student should be familiar with the concept of computer applications. A2-The student classifies the types of programs. A3-The student should differentiate between the types of programs. A4-The student analyzes his research data by studying one of the statistical programs. A5-The student evaluates his knowledge of applications through practical tests.
for-Course specific skill objectives. B 1 T-Student introduction to computer applications B 2-The student's ability to install, delete and use application programs skillfully. B 3-Enabling students to analyze their research data statistically
Teaching and learning methods
Giving scientific and theoretical lectures through display screens, PowerPoint and slides.
Evaluation methods
Conducting quick daily testsQuizzes Conduct monthly exams Conducting midterm and final exams
G- Emotional and value goals. A1-Enabling the student to apply theoretical information in a practical way. A2-Developing the national spirit among students to increase production in terms of quantity and quality. A3-Instilling the concept of community service and the best way to deal with the simple segments of society, farmers and peasants.
D - General skills andQualificationTransferable (other skills related to employability and personal development). D1- D2-

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Networking conceptNetworks and their types, the concept of the Internet, and its operation	My knowledge and skills	1 theoretical 2 practical	the first
Lesson questions and answers	Lecture and practical lesson	Description of the main screen, its components and how to connect to the World Wide Web (Web)	My knowledge and skills	1 theoretical 2 practical	the second
Mini-lesson discussion and group work	Lecture and practical lesson	Take advantage of popular search engines such as: Google, Yahoo, Learn how to search for and access information.	My knowledge and skills	1 theoretical 2 practical	the third
And casting and working groups	Lecture and practical lesson	programExcel: Learn about the concept of the program, its benefits, specifications, features, and methods of operation.	My knowledge and skills	1 theoretical 2 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Get to know the main screen, its components, and the various menus and effective tools it contains.	My knowledge and skills	1 theoretical 2 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Cell concept, basic types of cells and how to enter them	My knowledge and skills	1 theoretical 2 practical	Sixth
Case study and work groups	Lecture and	How to save a pageWorks licet and Work book Close the program and close the file Open the saved file	My knowle	1 theoretical	Seventh

	practical lesson	and enter data and perform simple calculations	dge and skills	2 practical	
Listening, asking questions and working groups	Lecture and practical lesson	Learn how to adjust, format, and structure data within a single cell or group of cells.	My knowledge and skills	1 theoretical 2 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Learn how to collect data or group cells differently.	My knowledge and skills	1 theoretical 2 practical	Ninth
Group work questions	Lecture and practical lesson	How to sort data and use some of the functions provided by the program such as:Count SQRT, Ave, Sumi, Min, Max and other useful related statistical functions	My knowledge and skills	1 theoretical 2 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	To learn about the pollination processEditin provided by the program, how to copy data or move data	My knowledge and skills	1 theoretical 2 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	And learn the concept of copying arithmetic operations as well as the concept of relative cells (Relative) | Absolute cells control the cell process by changing its style and format through the use of formatting tools	My knowledge and skills	1 theoretical 2 practical	twelfth
Asking questions	Lecture and practical lesson	Dealing with chartsChart and how to convert numeric and text bytes to charts of various types through the Chart Wizard and learn how to make modifications and the revisions provided by the program	My knowledge and skills	1 theoretical 2 practical	thirteenth
Asking questions	Lecture and practical lesson	Learn how to add or delete rows or columns on a worksheet.	My knowledge and skills	1 theoretical 2 practical	fourteenth

	Lecture			1	

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.	
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department / Animal Health Branch	2.Sectionscientific/ Center

Clinical 2/clinic 2	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring Semester / Second Stage	5.Chapter/Year
60 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

9.OutputsThe decisionTeaching, learning and assessment methods

A-Cognitive objectives

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	The student is trained in veterinary hospitals and clinics on whatMStudying theoretical and practical lessons, vaccinating animals against infectious diseases, and performing simple surgical operations.	My knowledge and skills	4 practical	the first

Evaluation methods

Conducting quick daily testsQuizzes
Conduct monthly exams
Conducting midterm and final exams

G- Emotional and value goals.

A1-Enabling the student to apply theoretical information in a practical way.
A2-Developing the national spirit among students to increase production in terms of quantity and quality.
A3-Instilling the concept of community service and the best way to deal with the simple segments of society, farmers and peasants.
A4-Developing the ethics of the human rights profession among students by following the correct professional behavior.

D - General skills andQualificationTransferable (other skills related to employability and personal development).

D1-
D2-
D3-

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.	
No wayDmethodical book	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	**1.Educational institution**
Animal Production Technology Department/ Animal Health Branch	**2.Sectionscientific/ Center**
Obstetrics and gynecologyobstetrics	**3.Course Name/Code**
Blended/Online/In-person Learning	**4.Available attendance forms**
Spring Semester / Second Stage	**5.Chapter/Year**
60 hours per semester, theoretical and practical	**6.Number of study hours(kidney)**
2024	**7.Date this description was prepared**
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	**Fertility, its definition and stages of hormonal control over reproduction**	My knowledge and skills	1 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	**Low fertility Infertility Causes - Symptoms**	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	**Lack of estrus, presence of corpus luteum, silent estrus and its detection**	My knowledge and skills	1 theoretical 3 practical	the third
And casting and	Lecture and practic	**Ovarian inactivity false pregnancy**	My knowledge	1 theoretical	Fourth

D4-

working groups	al lesson		and skills	3 practic al	
Practical exercise, presentati on and group work	Lecture and practic al lesson	**Genetic causes of lack of estrus Ovarian atrophy - absence of ovaries**	My knowle dge and skills	1 theore tical 3 practic al	Fifth
Mini-lesson discussion and group work	Lecture and practic al lesson	**Pathological causes of lack of estrus: endometritis and uterine lining inflammation**	My knowle dge and skills	1 theore tical 3 practic al	Sixth
Case study and work groups	Lecture and practic al lesson	**Uterine fibroids, cervical and vaginal tumors**	My knowle dge and skills	1 theore tical 3 practic al	Seventh
Listening, asking questions and working groups	Lecture and practic al lesson	**Nutritional causes of infertility and premature calving in cows**	My knowle dge and skills	1 theore tical 3 practic al	The eighth
Questionin g, listening and group work	Lecture and practic al lesson	**Abortion, Trichomonas vaginalis, Chlamydia**	My knowle dge and skills	1 theore tical 3 practic al	Ninth
Group work questions	Lecture and practic al lesson	**Stages of fetal development, fetal membranes and placenta**	My knowle dge and skills	1 theore tical 3 practic al	tenth
Mini-lesson	Lecture and practic	**Fetal age estimation Fetal diseases**	My knowle dge	1 theore tical	eleventh

work groups	al lesson		and skills	3 practic al	
Listening to a mini-lesson	Lecture and practic al lesson	**Symptoms of approaching labor, stages of labor, and care for the newborn and mother after birth**	My knowle dge and skills	1 theore tical 3 practic al	twelfth
Asking questions	Lecture and practic al lesson	**Placental retention and vaginal prolapse**	My knowle dge and skills	1 theore tical 3 practic al	thirteenth
Asking questions	Lecture and practic al lesson	**Dystocia Uterine inversion**	My knowle dge and skills	1 theore tical 3 practic al	fourteenth
Asking questions	Lecture and practic al lesson	**Cesarean section stitches the fetus inside the uterus**	My knowle dge and skills	1 theore tical 3 practic al	fifteenth

11. Curriculum development plan

- **Providing academic support in organizing field visits.**
- **Providing an appropriate classroom environment that enables teachers 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.**

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/Animal Health Branch	2.Sectionscientific/ Center
Fish diseasesfish diseases	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring Semester / Second Stage	5.Chapter/Year
60An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared

8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.

10.Course structure

Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Fish Diseases Overview Fish Diseases Classification	My knowledge and skills	1 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Bacterial diseases: bacterial gill disease, peduncle disease	My knowledge and skills	1 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Fish tuberculosis, bacterial kidney disease	My knowledge and skills	1 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Nocardia, hemorrhagic congestion	My knowledge and skills	1 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	efflorescence, dropsy, fin and tail rot	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Viral diseases: prevention and control	My knowledge and skills	1 theoretical 3 practical	Sixth

Case study and work groups	Lecture and practical lesson	Spring disease in carp, air sac disease	My knowledge and skills	1 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Viral hemorrhagic disease Pancreatic necrosis	My knowledge and skills	1 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Fungal diseases: their importance and prevention	My knowledge and skills	1 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Kenya walking sickness, gill rot disease (Eranchiomycoser)	My knowledge and skills	1 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Parasitic diseases: nematode disease, white bug disease	My knowledge and skills	1 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Fish hook, dog worm	My knowledge and skills	1 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Nutrition and its relationship to nutritional diseases	My knowledge and skills	1 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Fish poisoning and fish diseases	My knowledge and skills	1 theoretical 3 practical	fourteenth

Asking questions	Lecture and practical lesson	Methods of giving treatment	My knowledge and skills	1 theoretical 3 practical	fifteenth

11. Curriculum development plan
- Providing academic support in organizing field visits. - Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

RCourse Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Internal diseasesinternal medicine	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring Semester / Second Stage	5.Chapter/Year
75 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	Gastrointestinal Diseases - General Introduction - Malnutritiondigestion- Overeating - TheNEsophageal obstruction	My knowledge and skills	2 theoretical 3 practical	the first
Asking questions	Lecture and	Constipation - Diarrhea - Intestinal inflammation - Intestinal obstruction - Intestinal volvulus	My knowle	2 theoretical	the second

	practical lesson		dge and skills	3 practical	
Listening and asking questions	Lecture and practical lesson	Liver diseases - jaundice - hepatitis - liver abscess - cholecystitis	My knowledge and skills	2 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Respiratory diseases - nosebleeds - colds - pneumonia - bronchitis - pulmonary abscess	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Metabolic diseases (malnutrition, postpartum depression, ketosis)	My knowledge and skills	2 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Electrolyte deficiency (magnesium deficiency)N(Syria, copper deficiency, iodine deficiency, iron deficiency, cobalt deficiency)	My knowledge and skills	2 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Skin diseases (wool and hair diseases, ringworm, eczema, scabies)	My knowledge and skills	2 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	Vitamin deficiency (A, E, D, L, M)	My knowledge and skills	2 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Blood system diseases (introduction, heart failure, endocarditis, glomerular retinitis)	My knowledge and skills	2 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Blood diseases (anemia, types of anemia)	My knowledge and skills	2 theoretical	tenth

				3 practical	
Mini-lesson work groups	Lecture and practical lesson	Urinary tract diseases (nephritis, bladder diseases, ureter diseases)	My knowledge and skills	2 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Diseases of the nervous system (encephalitis, meningitis, cerebral hemorrhage)	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Horse diseases (dropsy, colic, peritonitis, abnormal teeth)	My knowledge and skills	2 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Ear and eye diseases	My knowledge and skills	2 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Dog diseases (gastritis, oral and esophageal diseases, anal gland inflammation)	My knowledge and skills	2 theoretical 3 practical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

12.Infrastructure	
The textbook	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department / Animal Health Branch	2.Sectionscientific/ Center
Pathological analysis /pathological analysis	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring Semester / Second Stage	5.Chapter/Year
75 hours per semester, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	The importance of pathological analysis and its relationship to other biological sciences, sample collection, sample preservation	My knowledge and skills	2 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Blood tests by collecting samples, anticoagulants (types and uses)	My knowledge and skills	2 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Complete blood tests, red blood cells, white blood cells, platelets and hemoglobin, their normal rates and changes depending on the medical condition	My knowledge and skills	2 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Urine tests: physical examination, chemical examination, microbiological examination of urine	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentatio	Lecture and	Stool tests: physical examination, microbiological examination of stool,	My knowle	2 theoretical	Fifth

n and group work	practical lesson	examination of worms and egg count in stool	dge and skills	3 practical	
Mini-lesson discussion and group work	Lecture and practical lesson	Diagnosis of blood parasites: Leishmaniasis, Trypanosoma, Babesia, Theileria	My knowledge and skills	2 theoretical 3 practical	Sixth
Case study and work groups	Lecture and practical lesson	Diagnosis of bacterial diseases by diagnosing diseases of the stomach and intestines, colon bacilli, salmonella, intestinal poisoning.	My knowledge and skills	2 theoretical 3 practical	Seventh
Listening, asking questions and working groups	Lecture and practical lesson	For laboratory diagnosis of tuberculosis and Johne's disease	My knowledge and skills	2 theoretical 3 practical	The eighth
Questioning, listening and group work	Lecture and practical lesson	Laboratory diagnosis of anthrax and accidental anthrax, septicemia promotion	My knowledge and skills	2 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Laboratory diagnosis of microbes causing abortion: Brucella, Vibrio, Salmonella, Clostridia	My knowledge and skills	2 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Laboratory diagnosis of microbes causing abortion (continued). Leptospirosis, Trichomonas, Toxoplasma	My knowledge and skills	2 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Diagnosis of glanders	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	bird flu diagnosis	My knowledge and skills	2 theoretical	thirteenth

				3 practical	
Asking questions	Lecture and practical lesson	Detection of bacterial sensitivity to antibiotics	My knowledge and skills	2 theoretical 3 practical	fourteenth
Asking questions	Lecture and practical lesson	Collection of biological specimens for laboratory diagnosis	My knowledge and skills	2 theoretical 3 practical	fifteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Course Description Form

Course Description

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether he/she has made the most of the opportunities.LearningAvailable. It must be linked to the program description.	
12.Infrastructure	
The textbook	**1. Required textbooks**
Supporting resources for each course	**2. Main references (sources)**
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	**A. Recommended books and references (scientific journals, reports, etc.)**
locationwww.google.com	**B. Electronic references, websites**

Technical Institute / Shatra	1.Educational institution
Animal Production Technology Department/ Animal Health Branch	2.Sectionscientific/ Center
Meat inspection and healthmeat inspection	3.Course Name/Code
Blended/Online/In-person Learning	4.Available attendance forms
Spring Semester / Second Stage	5.Chapter/Year
75An hour in the classroom, theoretical and practical	6.Number of study hours(kidney)
2024	7.Date this description was prepared
8.Course objectives:Granting the student a diploma in the theoretical and practical aspects, which serves to prepare a graduate with a prestigious level and introduce him to the practical arena.	

10.Course structure					
Evaluation method	Teaching method	Name of unit/course or topic	Required learning outcomes	Watches	The week
Lesson questions and answers	Lecture and practical lesson	The importance of meat health and control	My knowledge and skills	2 theoretical 3 practical	the first
Asking questions	Lecture and practical lesson	Meat inspection methods, meat inspector's characteristics and duties	My knowledge and skills	2 theoretical 3 practical	the second
Listening and asking questions	Lecture and practical lesson	Animal transport for slaughter and transportation methods	My knowledge and skills	2 theoretical 3 practical	the third
And casting and working groups	Lecture and practical lesson	Animal treatment before slaughter and meat transportation	My knowledge and skills	2 theoretical 3 practical	Fourth
Practical exercise, presentation and group work	Lecture and practical lesson	Slaughterhouses and basic conditions for the construction of slaughterhouses	My knowledge and skills	2 theoretical 3 practical	Fifth
Mini-lesson discussion and group work	Lecture and practical lesson	Pre- and post-slaughter inspection	My knowledge and skills	2 theoretical 3 practical	Sixth

Ca stu wo gr					
Lis ask qu an wo gr					
Questioning, listening and group work	Lecture and practical lesson	General disease conditions of importance in meat hygiene	My knowledge and skills	2 theoretical 3 practical	Ninth
Group work questions	Lecture and practical lesson	Sources of meat contamination and microscopic infection in meat	My knowledge and skills	2 theoretical 3 practical	tenth
Mini-lesson work groups	Lecture and practical lesson	Meat preservation, purpose of preservation and methods of preservation	My knowledge and skills	2 theoretical 3 practical	eleventh
Listening to a mini-lesson	Lecture and practical lesson	Live and post-harvest fish meat inspection - fish spoilage and contamination	My knowledge and skills	2 theoretical 3 practical	twelfth
Asking questions	Lecture and practical lesson	Poultry meat inspection, slaughtering methods and spoilage of poultry meat	My knowledge and skills	2 theoretical 3 practical	thirteenth
Asking questions	Lecture and practical lesson	Control of meat in markets and meat selling areas	My knowledge and skills	2 theoretical 3 practical	fourteenth

11. Curriculum development plan

- Providing academic support in organizing field visits.
- Providing an appropriate classroom environment that enables teachers 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.

Asking questions	Lecture and practical lesson	Visit to the massacre	My knowledge and skills	2 theoretical 3 practical	fifteenth

12.Infrastructure	
The textbookHuman rights as well as the principles of democracy	1. Required textbooks
Supporting resources for each course	2. Main references (sources)
Scientific journals, as well as research, theses and dissertations of professors in the same specialization.	A. Recommended books and references (scientific journals, reports, etc.)
locationwww.google.com	B. Electronic references, websites