# Academic program description form for colleges For the academic year 2021-2022

University name : Southern Technical University College name: Technical Institute / Shatra Scientific Department: Department of Animal Production Techniques File filling date: 3/8/2022

> Department Head Name: asst.Prof.Dr. Khairi Gargan Awaid Name of the Associate Dean for Scientific Affairs: Lect. Turki Diwan

> > :date: date :signature: signature

The file has already been checkedDepartment of Quality Assurance and University Performance Name of the Director of the Department of Quality Assurance and University Performance: Mortada Abdel Karim

> Date Signature Dean's endorsement

### **Academic Program Description**

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

Ministry of Higher Education and Scientific Research	Educational .1 institution								
Technical Institute / Shatra	Scientific Department .2 / Center								
Animal Production Techniques Department	Academic or .3 professional program name								
Technical Diploma	Final certificate name .4								
semester system	school system .5								
Theoretical and practical study	Accredited .6 Accreditation Program								
Laboratories, field field, library, internet, agricultural and industrial institutions and agricultural projects	Other external .7 influences								
2022	Description creation .8 date								
The objectives of the academic program: Granting the student a diploma in the .9 theoretical and practical aspects to serve the preparation of a graduate of a distinguished level and his commitment to the practical arena									
Practicing activities related to the qualitative and quantitative -1 examination of feed materials and their conformity with the required specifications									
The link between animal production and food sec	urity for the country -2								

Practicing activities related to the management of animal fields,-3 slaughterhouses and veterinary clinics

Storing fodder materials using different storage techniques and-4 providing appropriate conditions for them

Required program outcomes and methods of teaching, learning and assessment .10
A- Cognitive goals
A1- The scientific method for raising and improving animals (cows - sheep -
.(poultry - fish
A 2 - Study of artificial insemination and management of veterinary clinics
.A3 - Operation and management of feed mills , slaughterhouses and hatcheries
A4 - The scientific method in the field of fodder alternatives
B - Skills objectives of the program
.B1 - The technical method in the fields of animal breeding and improvement
.B 2 - how to artificial insemination
.B 3- How to operate and manage feed mills, slaughterhouses and hatcheries
B-4 How to operate and maintain the machinery and equipment of the animal
.production fields
Teaching and learning methods
Providing students with the basics and additional topics related to previous
. learning outcomes of skills . to solve practical problems
. Applying the topics studied in theory on a practical level -
Asking students, during practical lessons, to conduct some applied research -
. and under the supervision of their professors
. Visiting practical laboratories by the academic staff
Evaluation methods
Daily and monthly exams -
Semester and final exams -
Scores for homework and report writing
C- Emotional and value goals
C1- Applying knowledge in animal production sciences in order to address
.problems related to it
and interpretation of data
C3 - Determine vocabulary available to the student to bein him acquire the skill and
ability to choose what achieves his nurnese
C4 - The student expresses his desire to learn about the relationship of zoology
with other science
.with other sciences
technical practices
Teaching and learning methods
.Data Show A1- The lecture is accompanied by the presentation usir
.C 2- Discussic
.C3 - Brainstormin
.C 4 - Take the student to the field
Evaluation methods
the exams -1
Note -2
questionnaire -3 Deport muiting 4
kepon whing -4
d. Transferred general and rehabilitative skills (other skills related to employability
(and nersonal development
.(and personal development
.D2 - Work in the field of raising sheep and goa
.D3 - Work in the field of poultry farmin
.D4 - Work in the field of fish farmin

nary clinics	on center and veter	artificial insemination	6 - Work in the	Г
methods	ching and learning	Tea		
	and rearning	104		
and fields -	ent to laboratories	ttended by the stud	actical lectures a	.Pra
er training -	.summ			
ch project	Writing a resear			
in projeci	.writing a researc			
n methods	Evaluation			
d workers - epartment - core on it -	l professor and fiel pervisor from the d search and give a s	ield by the practica g by a scientific su Discuss res	pervision in the ton during trainin	Direct su. Direct supervisi.
n Structure .11	Program			Certifications .12
level/vear	Course or course	Course or course	Credit hours	and Credit
	code	name		Hours
	1	dairy cattle	4	Technic 1D' 1
	2	production	5	I echnical Diploma
	2	pasics of veterinary	5	Require (X) credit
	2	medicine	Λ	nours
	3	oneep and goat	4	110
The first store	4	food and nutrition	1	110
fall semester		noultry production		-
ran semester	5	Pullers and	2	
	0	agricultural	5	
		machines		
	7	(Computers (1	3	
	8	Human rights and	2	
	-	democracy		
	Total	-	29	
	1	beef cattle	4	
		production		
	2	animal health	5	
First stage/spring	3	fish production	4	
semester	4	poultry feed	4	
	5	general chemistry	4	
	6	animal production	3	
		mechanization		
	7	English language	2	
	Total		26	
	1	animal physiology	5	
	2	animal diseases	4	
	3	Animal breeding	4	
	1	Forage and pasture	3	
The second	4	crone	5	
phase	5	animal feed	4	
fall semester	6	Meat preservation	4	
	Ŭ	and processing		
	7	Calculator Basics	3	
		((2	-	
	8	English language	2	
	Total		29	
	1	Reproduction and	5	
		fertilization		
		physiology		
	2	poultry diseases	5	
The access	3	fish farming	4	
The second	4	Banana	4	
phase		manufacturing		
enrine	5	hatchery	4	
spring semester				
spring semester		techniques		
spring semester	5	techniques The economics of	2	
spring semester	5	techniques The economics of animal	2	
spring semester	5	techniques The economics of animal production	2	
spring semester	5	techniques The economics of animal production The project	2	



										С	urric	ulum	Skills	Out	line				
		l	Please	e chec	k the	boxe	s corr	espo	nding	to th	e indi	ividua	l lear	ning	outco	omes from tl	ne program being ev	aluated	
			Lea	rning	outc	omes	requi	ired f	rom t	he pr	ogra	m							
General and Transferable Skills or ) Other skills ) related to employability and personal development		lls ; ) nd nent	thinking skills			lls	Subject-specific skills				knowledge and understanding			nd 1g	Basic mother optional	Course Name	Course Code	year / level	
D 4	a 3	D 2	d 1	c 4	c 3	c 2	c 1	b 4	b 3	ь 2	b 1	A 4	A 3	A 2	A 1				
		V				V			V				V			Specialty	dairy cattle production	1	The first stage of
		V				V			V			V				Specialty	basics of veterinary medicine	2	the fall semester
		V				V			V				V			Specialty	Sheep and goat production	3	
	V					V			V				V			Specialty	food and nutrition	4	
	V				V					$\checkmark$			V			Specialty	poultry production	5	
	V				V					V		V				help	Pullers and agricultural machines	6	
		V				$\checkmark$					V					help	(Computers (1	7	-
		V				V					V			V		General	Human rights and democracy	8	
										С	urric	ulum	Skills	o Out	line		· ·		
										С	urric	ulum	Skills	6 Out	line				
		]	Pleas	e chec	k the	boxe	s cori	respo	nding	to th	e ind	ividua	ıl leaı	ning	outco	omes from t	he program being ev	aluated	
			Lea	rning	outco	omes	requii	red fr	om tl	ie pro	ogran	1							
Ge Trans or ) ( r emple persona	eneral ferab Other elated oyabil al dev	and le Ski skills to ity ar elopn	lls ; ) nd nent	thinking skills Subject-species skills					ific	kn un	owle derst	dge a andii	nd 1g	Basic mother optional	Course Name	Course Code	year / level		
D 4	d 3	D 2	d 1	c 4	c 3	c 2	c 1	b 4	b 3	b 2	b 1	A 4	A 3	A 2	A 1				
	3	1	-			V		-	V	_	-		_√	_		Specialty	beef cattle	1	The first stage of
		J				J			7			7				Specialty	production	2	the spring
		v V							1				V			Specialty	fish production	2	semester
	1	Y				7			, 1				, √			Specialty	noultry feed	З Л	-
				Specialty	general chemistry		-												
	1				1					√		V				help	animal production mechanization	6	-
	-			-															1

									-	C	urric	սիստ	Skills	Out	ine		II		
															inte				
	riease check the boxes corresponding to the individual learning outcon														mes from th	ie program being ev	aluated		
Learning outcomes required from the program																			
General and Transferable Skills or ) Other skills ) related to employability and personal development		lls ) nd nent	thinking skills				Subject-specific skills				kn ur	owled Iderst	lge a andii	nd 1g	Basic mother optional	Course Name	Course Code	year / level	
D 4	d 3	D 2	d 1	c 4	c 3	c 2	c 1	b 4	ь З	b 2	b 1	A 4	A 3	A 2	A 1				
		V				V			$\checkmark$				V			Specialty	animal physiology	1	The
		V				V			$\checkmark$			V				Specialty	animal diseases	2	second
		V				V			V				V			Specialty	Animal breeding	3	stage of the
	V					V			V				V			Specialty	Forage and pasture crops	4	semester
	V				V					V						Specialty	animal feed	5	
	V				V					V		V				help	Meat preservation	6	-
		V				V					V		V			help	Calculator Basics	7	
		2				N					N		N			Conorol	((2 English Janguaga	0	
		v				v					v		v			General	English language	0	
										С	urric	ulum	Skills	Out	line				
		1	Please	e chec	k the	boxes	s corr	espon	ding	to the	e indi	vidua	l lear	ning	outco	mes from th	ne program being ev	aluated	
			Lear	rning	outco	mes 1	requir	ed fr	om th	e pro	ogram	ı							
Ge Trans or ) C ro emplo persona	General and Transferable Skills or ) Other skills ) related to employability and personal development		lls ) nd nent	tł	thinking skills Subject-specific skills knowledge and understanding Basic mother optional Course Name Course Course Name Course Na						Course Code	year / level							
D 4	d 2	D	d 1	c 4	c 3	c 2	c 1	b 4	b	b	b 1	A	A	A	A				
	3	_∠√	_1			V		4	3 √	2	1	4	3 √	2	L	Specialty	Reproductive physiology and vaccination	1	The second stage of
		V				V			$\checkmark$			V				Specialty	poultry diseases	2	the spring
		V				V										Specialty	fish farming	3	semester
	V					V			V				V			Specialty	Banana manufacturing	4	
	V				V					V						Specialty	hatchery techniques	5	
	V				V					V		V				help	The economics of	5	
		V				V					V		V			Specialty	The project	7	

course description form

## **Course description**

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

Technical Institute / ShatraEducational institution .1Animal Production Techniques DepartmentScientific Department / Center .2sheep and goat/Production of sheep and goats productionCourse name / code .3Blended /present and e-learningAvailable forms of attendance .4Autumn semester / first stageseason / year .5An hour in the classroom, theoretical and practical 60Number of hours of study (.6 ( totalCourse Objectives : Granting the student a diploma in the theoretical and practical .8 aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical and assessment .9Course outcomes and methods of teaching, learning and assessment .9A - cognitive goalsA - The student recognizes the importance of the production of sheep and goats 1 . A - The student recognizes the types of sheep and goats , locally, regionally and globally 3 . A - The student recognizes the basic products of sheep and goats 4B - Skills objectives of the program- b - Definition of students of the importance of sheep and goats for human beings 1 . b - the student is ability to learn good species with desirable traits and varieties 2 b - enable students to identify the modern techniques used for the production of sheep 3 and goats										
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<ul> <li>b - the student 's ability to learn good species with desirable traits and varieties 2</li> <li>b - enable students to identify the modern techniques used for the production of sheep 3 and goats</li> <li>Teaching and learning methods</li> </ul>	- b - Definition of students of the importance of sheep	and goats for human beings 1								
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Teaching and learning methods	<b>b</b> - enable students to identify the modern techniques used	for the production of sheep 3 and goats								
	Teaching and learning methods									

arification re method	ation and cla Lectur	Explan										
ent groups mal fields	stude lessons in ani	Practical										
ds in Iraq	to animal fiel	ientific trips	Sc									
eory tests	Evaluation in th											
ts Reports nd Studies	Practical test ar											
Quizzes Take daily quick exams Conducting monthly exams Conducting												
Conducting monthly exams Conducting semester and final exams												
. C - emotional and value goalsC 1 - The skill of thinking according to the student's ability, and that the goal of this skill												
is for the student to believe in what is tangible and understand when, what and how he should think and work to improve the ability to think measure blue												
ception	ation and Per	C2 - Observa	. should think and work to impro									
etation arC5 -	s and Interpa	C3 - Analysi Prenaration	- C 4									
	n learning	ng strategy i	Critical thinki									
ability of elopment	ated to the vi personal dev	ther skills rel loyment and	olic and rehabilitation transferred ( o emp).	skills of put	D-							
1	-D											
structure .10	Course											
the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method							
	1 theoretical	Mv	foundations Scientific to classify	Lecture	Questions and answers							
the first	3	knowledge	Sheep strains Sheep existing in a field ,	and practical	mini							
	practical	and SKIIIS	strains Sheep Iraqi	lesson	practical lesson							
	1 theoretical	Mv	strains sheep the meat , the milk and wool	Lecture and								
The second	3 prostical	knowledge and skills	Processes field for sheep /	practical lesson	questions							
	practical	unu skins	n follows, Removal the horns	escriptio	Course d							
the third	1 theoretical	My	reproduction and fertilization in a Sheep , Hardware Genital	Lecture and	Listen and							
ule till u	3 practical	and skills	Processes field seasonal / immersion . shear wool	practical lesson	questions							
	1		puberty sexual , season	Lecture								
the fourth	theoretical 3	My	On timing estrangement	and practical	exercise,							
the rour th	practical	and skills	Processes field Of the daily / Submit fodder and water , cleaning	lesson	meeting and work groups							
	1		, catch and trading the animals	Looturo								
-	1 theoretical	Му	Care ewes before and at Birth	and	Practical exercise.							
Fifth	3 practical	knowledge and skills	Establishing the herd , Test dynasty , size the herd , an	practical lesson	meeting and							
	- 1		appointment Purchase Sheep	Lecture	Mini Lesson							
VI	theoretical	My	growth and development in a Sheep	and	Discussion							
V1	o practical	and skills	sheds Sheep and accessories , Species barns	lesson	Exercise and							
	1		Produce the milk in a Sheep and	Lecture	Workgroups Cose study							
	theoretical 3	Му	factors influential On Produce the milk	and practical	Practical							
seventh	practical	knowledge and skills	Breast feeding and care Newborns	lesson	exercise and work							
			handler and stripes		groups							
	1 theoretical		nuonouties and for terror and	Lecture and	Listening and asking							
VIII	3	My knowledge	anatomy morphological	practical lesson	practical							
111	practical	and skills	destruction lambs , reasons the doom	icision.	questions							
					and work groups							
	1 theoretical			Lecture and	Asking questions							
ninth	3 prostical	My knowledge	gradient wool	practical lesson	and listening							
mintin	practical	and skills	Appreciation Age in a Sheep , Species the teeth	icision.	exercise and							
					work groups							
	1 theoretical	Му	origin goats and rating , the site in	Lecture and	Ask group							
The tenth	3	knowledge and skills	a The kingdom animal records field , Species records	practical	work questions							
<u> </u>	practical	Mr	strains goats in a the saiartist	Lecture								
eleventh	theoretical 3	knowledge	proces sweet heart, Species	and practical	Mini-lesson work groups							
	practical	and skills	milking , manual , mechanic	lesson								
twolvoth	1 theoretical	My	reproduction goats , puberty sexual , maturity sexual	and	Practical							
orkgroups   practical   adjectives phenotypic for strains   and skills   3   tweiven   3   and skills   5   5   5   5   5   5   5   5   5												
	1 theoretic-1	My	Produce the milk and hair leather	Lecture	1.							
Thirteenth	aneoretical 3	knowledge and skills	In a goats Identify On Species Poetry in a	practical	ask questions							
	practical		goats	lesson								

	Asking	Lecture	optimization genetic in a	Sheep	My		1 Fourteen
	practice	and	and future industry Shee	l goats	knowledge	theoretic	al and fifteen
	questions	lesson	production cap	acitor	and skins	practica	al
					co	ourse develo	pment plan .11
			. Providing the possibility of a	ademic	support in	organizing	field visits -
Pı	roviding t	he appropria	ate classroom environment that	enable	s the teache	r to diversil	ty teaching -
			. Providing info	mation	technology	in the camp	ous library -
	Hosting	experts from	outside the institute , or from	the wor	k environm	ent for whi	ch they are -
	prepar	ing to benefi	t from their expertise in develo	ping th	e course aco	cording to t	he actual
					. neeus	of the labo	i mai ket
						In	frastructure .12
⊢	Ba	asics of she	ep and goat production and	ł			
			rearing	9		Required	course books .1
	Dr J	alal Elia Re	verend d. Zuhair Fakhri Jalil Dr. Daeb Isaac Azi	1			
		S	heep and goat production -	1			
	Dr Zuh	air Fakhri J	lalili. Dr Jalal Elia the pries	t			
	Dr Nag	Pro Wib Tawfig	duction of sheep and wool 2 Ghazal d. Muzaffar Nafeb Al	2	( N	lain referei	nces ( sources .2
	Dr., Nag		Sayegi	- 1			
	Scient	ific journals	s, as well as research, letters	5 a.	Recommen	ded books a	and references (
	and p	rofessors' t	heses in the same specialty	/	(scientif	ic journals	, reports , 0000
			<u>www.google.com</u> Location Animal Science Journa	1	b . Elec	tronic refer	ences , websites
				•			
	Thi	s course	description provides a b	rief su	ummary o	of the mo	ost important
	cha	racteristic	s of the course and the	learn	ing outco	mes exp	ected of the
	stu	dent to ac	hieve, demonstrating wh	ether	he has m	hade max	imum use of
	the	available I	learning opportunities. It r	nust b	e linked to	o the desc	cription of the
							.program
			Technical Institute	/ Shatı	ra	Education	al Institution .1
		Ani	mal Production Techniques De	partme	nt Scienti	fic Departn	nent / Center .2
			poultry production/ Produc	e poulti	y g Form	Course of ottondo	e name / code .3
			Autumn semester / f	irst stag	ze rorm	s of attenua Se	mester / year .5
		ho	urs of theoretical and practical	l close 6	o Nu	mber of ho	urs of study ( .6
		no	urs of theoretical and practica	1 (1455 )			( total
					D	ate of prepa	aration of this .7
		Course C	Dijectives : Granting the stude	nt a dip	loma in the	theoretical	and practical .8
	asp	ects to serve	the preparation of a graduate	of a dist	inguished l	evel and his	commitment to
Г			Course outcomes and moth	da of to	ashing loop	.the	practical arena
			Course outcomes and metho	us of te	acting, ical	ining and a	ssessment - 5
						A - cog	nitive goals
			A 1 rating most import A 2- Introducing s	ant Stra tudents	to how to r	GIODAIISM	and local ltry fields
ŀ					B - Skills ob	jectives of t	he program
	B 1 -	To provide	the student with the skills of ap	plying s	scientific me	ethods with	regard to
	י כק	Fraining the	student on how to increase	duatio-	. ma	naging pou	ltry fields
	D 2 - ]	r ranning the	student on now to increase pro	uucuon	ани шрго	ve me quali	, poultry
	ВЗ-Т	o provide th	e student with the necessary sk	ills to co	onduct labo	ratory tests	related to
ļ					. poult	ry and their	breeding
	<b>C</b> !				Teaching a	and learning	g methods
	G	ving scientifi	ic and theoretical lectures through	ign aisp	plays and p	poultry br	and visiting
ŀ						Evaluation	methods
ľ					Quizzes	Take daily	quick exams
				C	Con Con	ducting mo	nthly exams
ŀ				U	. C - en	notional and	l mar exams
		. C 1	- Enable the student to apply t	heoretic	al informati	ion in a pra	ctical way
	С 2-	To develop	the patriotic spirit of the stude	nt to inc	rease produ	iction in qu	antity and
	<b>C</b> 2 -	(netilling the	concent of community con-i	and the	hastwart	doel with	. quality
	03-1	insuming the	. segme	and the nts of th	e society, e	deal with t	d farmers
	C 4 - I	Develop prof	essional ethics . Agricultural er	ngineer	among stud	lents by foll	owing the
			<u> </u>	-	. correct	professional	behavior
	-	-1-211 4	http://www.august.com/august.com/august.com/august.com/august.com/august.com/august.com/august.com/august.com/a		41 1 ***	-1-4-17-5	
	D	- skills of pu	DUC and rehabilitation transfe	rred ( o	tner skills r lovment or	elated to th	e viability of development
				ւսոր	isyment all	- personal	-D1
							-D 2
_						Course	e Structure .10
12	ation	ducation		Re	quired		the week

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	The importance of the poultry industry in Iraq, the international companies producing broiler and egg .chicken breeds Origin of chickens, classification of chickens (biological, economic, (geographical classification	My knowledge and skills	1 theoretical 3 practical	the first

ask	Lecture	Reproduction functions in	Му	1	The second
questions	and	poultry and egg formation	knowledge	theoretical	
	practical	important hybrid breeds used	and skills	3	
	lesson	at the present time		practical	
	Lecture	Male and female reproductive		1	
Listen and	and	systems and hormones and	Mv	theoretical	
ask	practical	formation of the egg	knowledge	3	the third
questions	lesson	Poultry Physiology/ Poultry	and skills	practical	
1		Anatomy to view the various			
Dreatical	Lootumo	Internal organs		1	
Practical	Lecture	.gastrointestinal tract	Mu	1 theoretical	
exercise,	reation	Maintenance of poultry fields,	knowladga	2	the fourth
meeting and	lesson	supplies and equipment used	and skills	5 practical	ule lourui
groups	1035011	,in them	and skins	practical	
groups	Lecture	Natural and artificial hatching		1	
Practical	and	in chickens are the basic		theoretical	
exercise,	practical	ingredients of hatching	Му	3	
meeting and	lesson	Types of manholes and manholes their installation	knowledge	practical	Fifth
work		operation and maintenance.	and skills	F	
groups		ventilation and cooling			
		devices, heating devices			
Mini	Lecture	Poultry housing, items to be		1	
Lesson	and	and design, ventilation.		theoretical	
Discussion	practical	cooling and lighting needs	Му	3	
Practical	lesson	.calculations	knowledge	practical	VI
Exercise		Nursery methods, the most	and skills		
and		requirements and problems			
Workgroups		of nursery			
Case study	Lecture	Various poultry equipment		1	
Practical	and	Lused in poultry nouses Hatchery types batcher	Му	theoretical	
exercise	practical	numbers, operation, and	knowledge	3	seventh
and work	lesson	typical hatcher specifications	and skills	practical	
groups					
<b>.</b>	Lecture	Egg production, laying hens		1	
Listening	and	affecting egg production,		theoretical	
and asking	practical	methods for calculating egg	Ma	3	
practical	lesson	.production	Iviy	practical	VIII
exercise		and their supplies and the	knowledge		VIII
questions		devices used in them,	and skins		
and work		cooling, heating devices with			
groups		production			
	Lecture	Production of biological eggs		1	
Asking	and	or programmed eggs		theoretical	
questions	practical	produced from laying hens		3	
and	lesson	economic importance	м	practical	
listening		Breeding turkeys, ducks and	My	1	ninth
practical		geese, types, methods of	knowledge		mmun
exercise		raising them, eggs	and skins		
and work		appearance examination			
groups		Internal contents, scan, egg			
		staging			
	Lecture	Production of quail eggs,		1	
	and	general rules for egg		theoretical	
Ask group	practical	.production	My	3	
work	lesson	Meat production and the	knowledge	practical	The tenth
questions		difficulties that prevent the	and skills		
-		sorting chicken meat			
		production			
	Laster	Meat production broiler		4	
	Lecture	rearing systems, factors		1 theoretice1	
Mini-lesson	nractical	.affecting meat production	Му	2	
work	lesson	Operation and maintenance	knowledge	practical	eleventh
groups	lesson	preparation of broilers before	and skills	practical	
		and after slaughter			
	Lecture	Poultry slaughterhouse		1	
Practical	and	management and methods of	Μv	theoretical	
exercise	practical	broilers	knowledge	3	twelveth
and	lesson	Breeding turkeys, ducks and	and skills	practical	
workgroups		geese, their types, methods			
	Lecture	Genetic improvement of		1	
	and	poultry, general principles of		theoretical	
ask	practical	genetics, quantitative and	My	2	
questions	lesson	qualitative traits, methods of	knowledge	practical	Thirteenth
-		Disposal and utilization of	and skills	r	
		poultry waste			

	Askin practic question	g Lecture e and s practical lesson	Turk Ecor poul prof	tey types and methods of breeding nomic accounts for ltry projects, cost and it accounts for broiler	My knowledge and skills	1 theoretical 3 practical	fourteenth				
	Askin practic question	Lecture and practical s lesson	Bree and A v	meal eding ducks, geese types methods of breeding them isit to one of the typical pouttyy fields	My knowledge and skills	theoretical 3	Fifteenth				
	Infr	astructure -1	1	pounty heids		practical					
	Require	d course bool	cs .1								
	( Main refer	ences ( source	es .2								
Scientific journals, as well as research,	a . Recomm	nended books	and								
letters and professors' theses in the same	references (s	(reports 0	als,								
www.google.com Location	b. Elec	tronic referen	ces .								
Animal Science Journal		web	sites								
	Cours	e Development	Plan	.12							
Providing the appropriate classroom environmen Providing informat Providing informat Hosting experts from outside the institute, or from the preparing to benefit from their expertise in developing	t that enables the t . te ion technology in work environment g the course accord . needs of	teacher to diver aching strategi the campus libit for which they ding to the actu the labor mark	rsify - ies rary - 7 are - 1al cet								
		This course characteristi achieve, der .lea	e des cs of mons rning	scription provides a brie the course and the learnin trating whether he has n opportunities. It must be l	ef summary og outcomes nade maxin inked to the	of the mo expected of num use of description o	st important the student to the available f the program				
				Technical Institute /	Shatra	Education	al Institution .1				
		A	mai	food and nu	trition	Course	name / code .3				
				present learning	Fo	rms of attenda	nce available .4				
			hours	Autumn semester / Irs	st stage	Ser Number of hor	nester / year .5				
		2022	liours		435 00	Date of prepa	( total ) ration of this .7				
		Course	o Obie	offices Creating the student	a dinlama in f	he theoretical	description				
		aspects to ser	ve the	preparation of a graduate of	a distinguishe	d level and his .the	commitment to practical arena				
		Course outcomes and methods of teaching, learning and assessment .9									
		A 1- Defining	g food	and nutrition and giving the	student an ide	A · a about the co	cognitive goals nposition of the feed materials				
		A 2 to introduce the importance of nutrition for the animal and the statement of the . installation of feed materials and liabilities specified for each anima . A 3- Explain the types of digestion and the structure of the digestive system									
		A 4- Identify the nutrients included in food, their importance, the function of each element, and the symptoms of its deficiency A 5 - Teaching the student how to calculate the nutritional needs of an animal how to									
		A3-1	l catili	. manufacture feed, and the	formation of B - Skills	balanced and e objectives of t	conomical diets he program				
		B 1 - To pro to food and a	nimal	he student with the skills of a nutrition so that he is able to a	plying scienti reduce the cos , by choosi	fic methods with t of feeding each ng the appropriate the second s	th regard th animal tiate diets				
		B 2 - Tr . usef B 3 - 1	aining ul and `o pro	the student on how to improv good for the animal through vide the student with the nece	ve the quality over the quality over the quality over the quality of the second	of poor feed an ions and treatm conduct labora ated to animal	d make it nents to it tory tests nutrition				
		Gi microso	ving s copes,	cientific and theoretical lectur experiments in examining foo	Teachin res through di od samples, an	g and learning splays, powerp d using various . equipment	methods oints, slides, s laboratory and devices				
					Ouiza	Evaluation	methods wick exame				
					Quizz C Conducting	onducting mon g semester and	thly exams final exams				
		. C - emotional and value goals . C 1- Enable the student to apply theoretical information in a practical way C 2- To develop the patriotic spirit of the student to increase production in quantity . and quality									
		C 3 - Ins C 4 - Develo	tilling p prof	the concept of community set . simple strat fessional ethics . Agricultural	rvice and the l ta of society, tl engineer amou . the corre	best way to dea ne peasants and ng students by ct professional	l with the l farmers following behavior				
		D - skills of J	oublic	and rehabilitation transferre .(	d ( other skill employment a	s related to the and personal d	viability of evelopment -D 1				

					-D 2 -D 3
				Course	Structure .10
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	Definition of nutrition, the importance of nutrition for animals Familiarize yourself with the tested devices, methods of sampling the different feed materials	My knowledge and skills	1 theoretical 3 practical	the first
ask questions	Lecture and practical lesson	Composition of feed materials (water, carbohydrates + fats + proteins + vitamins + salts .(mineral Anatomy of the digestive system of ruminants	My knowledge and skills	1 theoretical 3 practical	The second
Listen and ask questions	Lecture and practical lesson	Digestion and absorption of food compounds in ruminant and monogastric animals Anatomy of the digestive system of monogastric animals ((poultry and rabbits	My knowledge and skills	1 theoretical 3 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson	Classification and feed materials Performing solutions dilution operations (mular and molar (concentration	My knowledge and skills	1 theoretical 3 practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Different feed specifications Determination of moisture in concentrated and rough (green) feed	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	Dietary and non-food supplements added to diets. Protein Estimation	My knowledge and skills	1 theoretical 3 practical	VI
Case study Practical exercise and work groups	Lecture and practical lesson	The use of agricultural (plant and animal) and industrial wastes in animal nutrition Protein Estimation	My knowledge and skills	1 theoretical 3 practical	seventh
Listening and asking practical exercise questions and work	Lecture and practical lesson	The use of hay and silage in .feeding animals fat estimation	My knowledge and skills	1 theoretical 3 practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	Basic rules for creating relationships Energy rating	My knowledge and skills	1 theoretical 3 practical	ninth
Ask group work questions	Lecture and practical lesson	Balancing relationships and building relationships estimation of fiber	My knowledge and skills	1 theoretical 3 practical	The tenth
Mini-lesson work groups	Lecture and practical lesson	food poisoning. estimation of fiber	My knowledge and skills	1 theoretical 3 practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	Study the animal's energy needs and its fate in the .animal's body Determination of silica in feed materials, and methods of adulteration of feed	My knowledge and skills	1 theoretical 3 practical	twelveth
ask questions	Lecture and practical lesson	Nutritional measurements and methods for measuring the nutritional value of feed materials Mathematical applications on food scales	My knowledge and skills	1 theoretical 3 practical	Thirteenth
Asking practice questions	Lecture and practical lesson	food scales Mathematical applications on nutritional scales	My knowledge and skills	1 theoretical 3 practical	fourteenth
Asking practice questions	Lecture and practical lesson	Some important nutritional terms (increasing the weight of the digestion coefficient, the , efficiency of food conversion A visit to one of the feed factories	My knowledge and skills	1 theoretical 3 practical	Fifteenth
			C	D I	( DI 40

**Course Development Plan .12** 

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

	to	the	actual	needs	of the	labor	marke
٠	~~			needao	~~~~~		

Infrastructure .11	
Required course books .1	method book
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
b . Electronic references , websites	www.google.com Location
Infrastructure .11	
Required course books .1	method book
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
b. Electronic references . websites	www.google.com Location

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

Educational Institution .1	Technical Institute / Shatra				
Scientific Department / Center .2	Animal Production Techniques Department				
Course name / code .3	Veterinary Principle/ basics medicine veterinary				
Forms of attendance available .4	present learning				
Semester / year .5	Autumn semester / first stage				
Number of hours of study ( .6	hours of the protical and prostical place 75				
( total	nours of theoretical and practical class 75				
Date of preparation of this .7	022				
description					
Course Objectives : Granting the student a diploma in the theoretical and practical .8					
guished level and his commitment to	aspects to serve the preparation of a graduate of a distinguished level and his commitment to				
.the practical arena					

Course outcomes and methods of teaching, learning and assessment .9

A - cognitive goals

. A 1- Providing students with the basics of veterinary public health A 2- Knowing the nature and pathological condition of animals

A 3- student learning the basics of diseases and knowledge of the condition and how to treat them

A 4- Introducing the student to the reality of the livestock sector and familiarizing him with endemic and imported animal diseases

B - Skills objectives of the program B1 - Contribute to community service through consultations in all aspects of animal production and slaughter of large animals and poultry

B 2 - Training the student to conduct applied research and solve problems that arise in the . field

B 3 - To provide the student with the necessary skills to conduct laboratory tests related to . animal nutrition

Teaching and learning methods

**Explanation and clarification** Lecture method

student groups Practical lessons in the field

Scientific trips to follow up on dairy cattle production projects self-learning method

**Evaluation methods** 

Quizzes Take daily quick exams Conducting monthly exams

Conducting semester and final exams

. C - emotional and value goals

C 1 - The skill of thinking according to the student's ability, and that the goal of this skill is for the student to believe in what is tangible and understand when, what and how he . should think and work to improve the ability to think and solve problems - C2 - Observation and Perception - C3 - Analysis, interpretation and persuasion - C4 - Preparation and calendar

C 5- Critical thinking strategy in learning D - skills of public and rehabilitation transferred ( other skills related to the viability of .( employment and personal development D - verbal communication ( the ability to express ideas clearly and confidence in the 1

(speech ( Team work- D - Teamwork ( work with confidence within the group 2 d - analysis of the investigation ( collection of information systematically to establish 3

( scientific facts and principles of a solution to a particular problem ( d - Contact the written ( the ability to express yourself clearly in writing 4

Course Structure 10

				course	Structure 110
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	internal body organs. Identify the external parts of the animal's body and the importance of some areas	My knowledge and skills	2 theoretical 3 practical	the first
ask questions	Lecture and	internal body organs.	My knowledge	2 theoretical	The second

	practical	Signs of health and disease,	and skills	3	
	lesson	condition of skin and hair		practical	
Liston and	Lecture	.The internal organs of the body	Mv	2	
Listen anu	and	Veterinary medicines in the	knowledge	theoretical	the third
questions	practical	pharmacy	and skills	3	the third
questions	lesson		unu skins	practical	
Practical	Lecture	Bacteria, their types and	Mv	2	
exercise,	and	.characteristics	knowledge	theoretical	the fourth
meeting and	practical	Methods of administering	and skills	3	the rourth
work groups	lesson	veterinary medicines and vaccines	unu skins	practical	
	Lecture	Blood, its components and			
Practical	and	functions , types and causes of	Mv	2	
exercise,	practical	.anemia	knowledge	theoretical	Fifth
meeting and	lesson	Sample collection Methods for	and skills	3	
work groups		collecting blood, stool and urine		practical	
N	T4	samples			
Mini Lesson	Lecture	Immunity and resistance		2	
Discussion	and	Sterilization and disinfection:	My	2 theoretical	
Fractical Evoreise and	practical	natural sternization methods	knowledge	theoretical	VI
Workgroups	lesson		and skills	3 nreatical	
workgroups				practical	
Case study	Lecture	Disasses classified by their modes			
Practical	and	of transmission	Mv	2	
evercise and	nractical	Methods for diagnosing internal	knowledge	theoretical	seventh
work	lesson	and external parasites - field +	and skills	3	seventii
groups		laboratory		practical	
Listening	Lecture	diagnoses of illnesses.			
and asking	and	Methods of collecting samples for			
practical	practical	the purpose of bacterial	My		
exercise	lesson	examination	knowledge	theoretical	VIII
questions			and skills	3 nucetical	
and work				practical	
groups					
Asking	Lecture	Medicine and types of veterinary			
questions	and	.drugs		2	
and listening	practical	important field operations,	My	theoretical	
practical	lesson		knowledge	3	ninth
exercise and			and skills	practical	
work				<b>F</b>	
groups	T4	Duranting and control of		2	
Ask group	Lecture	revention and control of	Му	41	
work	nractical	Cut the borns by anaesthesia of the	knowledge	theoretical	The tenth
questions	lesson	Cut the norms by anaestnesia of the	and skills	3 nucetical	
	Locturo	Mastitic Types of mastitic		practical	
	and	Birth Instruments used in	Mv	2	
Mini-lesson	nractical	childhirth	knowledge	theoretical	eleventh
work groups	lesson	ciniubii tii	and skills	3	cicventii
	icsson		and skins	practical	
	Lecture	.animal parasites		2	
Practical	and	Birth Instruments used in	Му	theoretical	
exercise and	practical	childbirth	knowledge	3	twelveth
workgroups	lesson		and skills	practical	
	Lecture	.Surgery, types of wounds		2	
ask	and	Modern methods of maternal and	My	theoretical	
questions	practical	newborn care	knowledge	3	Thirteenth
-	lesson		and skills	practical	
A alvin -	Lecture	.Hormones, types of sex hormones	м	2	
Asking	and	Modern methods of maternal and	My	theoretical	6441-
guestions	practical	newborn care	snowledge	3	iourteenth
questions	lesson		anu skins	practical	
Astrina	Lecture	Childbirth, dystocia	М	2	
ASKIIIg	and	Serological tests	knowledge	theoretical	Fifteenth
questions	practical		and skills	3	rnteenth
questions	lesson		anu skins	practical	

Course Development Plan .11

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

Providing the appropriate classroom environment that enables the teacher to diversify . teaching strategies

. Providing information technology in the campus library -

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

#### Infrastructure .12

Required course books .1	method book
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
b . Electronic references , websites	www.google.com Location

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

Technical Institute / Shatra	Educational Institution .1
Animal Production Techniques Department	Scientific Department / Center .2
Dairy cattle Production dairy cattle production	Course name / code .3
present learning	Forms of attendance available .4
Autumn semester / first stage	Semester / year .5
hours of theoretical and practical class 60	Number of hours of study ( .6

( tota	
Date of preparation of this .7	
description	
ma in the theoretical and practical .8	Objectives : Granting the student a diploma
guished level and his commitment to	e the preparation of a graduate of a distingui
.the practical arena	
aching, learning and assessment .9	Course outcomes and methods of teach
A - cognitive goals	
of the production of cattle milk 1	<ul> <li>A - The student recognizes the concept of t</li> </ul>
and the purpose of production 2	ows are classified on the basis of the strain an
modern era and the difference 3	student management of milk cows in the mo
ms between the past and present	in management programs
oduction of cattle milk supplies 4	- A - The student recognizes the produ
gion appropriate geographical 5	nt learns how to set up pens for cows by regio
Dreeding of neat	Hum
Furnally, lighting and ventilation	E E E E E E E E E E E E E E E E E E E
of the concent of cottle mills 1	D - SKII - h - student production of the definition of th
or the management of milk 2	- b - student production of the definition of the
cows	its and training on the scientific method for t
aching and learning methods	Teachi
owerpoints, slides, microscopes,	nd theoretical lectures through displays, powe
tory equipment and equipment,	ining plant samples, using various laboratory
. and a wooden canopy	
Evaluation methods	
Quizzes Take daily quick exams	Quiz
Conducting monthly exams	_
acting semester and final exams	Conducti
. C - emotional and value goals	. C
formation in a practical way	- Enable the student to apply theoretical infor
se production in quantity and	he patriotic spirit of the student to increase p
. quality	
st way to deal with the simple	concept of community service and the best w
ty, the peasants and farmers	. strata of society,
ong students by following the	essional ethics . Agricultural engineer among
	. com
Course Structure .10	
autural	Dogui
quireu	Kequi

the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
the first	1 theoretical 3 practical	My knowledge and skills	Factors affecting the increase and decrease in the level of milk Identify the components of the cow field	Lecture and practical lesson	Questions nd answers mini practical lesson
The second	1 theoretical 3 practical	My knowledge and skills	Milk cattle breads Cow body parts / identification of milk-producing breeds	Lecture and practical lesson	ask questions
the third	1 theoretical 3 practical	My knowledge and skills	Iraqi cattle and their milk production .(Animal arbitration (tables	Lecture and practical lesson	Listen and ask questions
the fourth	1 theoretical 3 practical	My knowledge and skills	Care and feeding of dairy cattle Cattle dwellings, isolation rooms, childbirth, feed stores	Lecture and practical lesson	Practical exercise, meeting and work groups
Fifth	1 theoretical 3 practical	My knowledge and skills	Types of global and Iraqi buffalo Production field records	Lecture and practical lesson	Practical exercise, meeting and work groups
VI	1 theoretical 3 practical	My knowledge and skills	.Milk production in buffaloes Daily field operations / cleaning, feeding, production	Lecture and practical lesson	Mini Lesson Discussion Practical Exercise and Workgroups
seventh	1 theoretical 3 practical	My knowledge and skills	.Camels and milk production Seasonal operations / numbering, drying of milk animals	Lecture and practical lesson	Case study Practical exercise and work groups
VIII	1 theoretical 3 practical	My knowledge and skills	The installation and physiology of the udder Types of milking / Bedouin milking	Lecture and practical lesson	Listening and asking practical exercise questions and work groups
ninth	1 theoretical 3 practical	My knowledge and skills	Hormones and their effect on .milk secretion Types of milking / mechanical milking	Lecture and practical lesson	Asking questions and listening practical exercise and work groups
The tenth	1 theoretical 3 practical	My knowledge and skills	Factors affecting milk production in terms of .chemical composition Breastfeeding and its types	Lecture and practical lesson	Ask group work questions
eleventh	1 theoretical	My knowledge and skills	Genetic improvement of dairy .cattle herds	Lecture and	Mini-lesson work groups

	practical lesson	Milk substitutes and the importance of colostrum		3 practical	
Practical exercise and workgroups	Lecture and practical lesson	Selection methods for dairy cattle Evolution of Breeds and Milking Processes (Information (Network	My knowledge and skills	1 theoretical 3 practical	twelveth
ask questions	Lecture and practical lesson	Establishment of dairy cattle farms See a milk production plant	My knowledge and skills	1 theoretical 2 practical	Thirteenth
Asking practice questions	Lecture and practical lesson	Store and produce healthy milk. A scientific visit to one of the milk collection stations	My knowledge and skills	1 theoretical 2 practical	fourteenth
Asking practice questions	Lecture and practical lesson	Protect milk from .contamination Discussion about the practical lesson	My knowledge and skills	1 theoretical 3 practical	Fifteenth

**Course Development Plan .11** 

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

. teaching strategies

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

Infrastructure .12	
Required course books .1	Dairy cattle production. Department of Livestock, College of Agriculture Baghdad University . 340 shakes Written by Professor Dr Natiq Hamid Al-Qudsi and Jial Victor Elijah
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
b . Electronic references , websites	.Dairy Sci. J <u>www.google.com</u> Location

### **Course description**

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

Technical Institute / Shatra	Educational Institution .1			
Animal Production Techniques Department	Scientific Department / Center .2			
Agriculture / Pullers and Agricultural Machines Machines & Equipments	Name/Code of the course .3			
present learning	Forms of attendance available .4			
Autumn semester / first stage	Semester/year .5			
hours of theoretical and practical class 45	Number of hours of study .6 ((total)			
22	Date of preparation of this .7			
	description			
Course objectives: Granting the student a diplor	na in the theoretical and practical .8			
aspects to serve the preparation of a graduate of a dist	inguished level and his commitment to the practical arena.			
Course outcomes and methods of teaching, learning and assessment .9				
A - cognitive goals A1 - Teaching students to understand the agricultural tug and training to use it in the . field				
<ul> <li>A 2- Introduce students to the main parts of the tug, th</li> <li>A 3- Enable the student to know how to deal with main</li> </ul>	er importance, and how each . part works aterials and devices in the tug			
B - Skills objectives of the program . B1 - To provide the student with the skills of tug maintenance P.2. Training the student to understand the work of tug systems and identify foulds to				
B 3 - To provide the student with the necessary skills to conduct general examinations related to the tug and the soil and how to give the appropriate scientific judgments				
Teaching and learning methods				
Giving scientific and theoretical lectures through displays, powerpoints, slides, microscopes, experiments in examining plant samples, using various laboratory . equipment and equipment, and a wooden canopy				
	Evaluation methods			
Ouizzes Take daily quick exams				

## Conducting monthly exams Conducting semester and final exams

course description form

**Course description** 

course description form

**Course description** 

	. C - emotional and value goal
	. C 1- Enable the student to apply theoretical information in a practical way
	C 2- To develop the patriotic spirit of the student to increase production in quantity
	. and quality
	C 3 - Instilling the concept of community service and the best way to deal with the
	. simple strata of society, the peasants and farmers
	C 4 - Develop professional ethics . Agricultural engineer among students by following
	. the correct professional behavior
]	D - skills of public and rehabilitation transferred ( other skills related to the viability of
	.( employment and personal development
	-D1

~	-	
-D	2	

-D 2 -D 3 Course Structure .10

Structure .10	Course				
the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
the first	1 theoretical 3 practical	My knowledge and skills	Knowing the importance of agricultural mechanization - types of pullers - public safety Watching the types of pullers and getting to know their parts	Lecture and practical lesson	Questions and answers mini practical lesson
The second	1 theoretical 3 practical	My knowledge and skills	Study of the main parts of the puller and the function of each part - transmission devices, their parts and function The main engine parts and types of systems	Lecture and practical lesson	ask questions
the third	1 theoretical 3 practical	My knowledge and skills	Study of intake systems (fuel system - cooling system) - types - important parts and benefits - faults and .maintenance Parts of the cooling system and air system	Lecture and practical lesson	Listen and ask questions
the fourth	1 theoretical 3 practical	My knowledge and skills	Study of the lubrication system - the air purification system - the exhaust system and the silencer - its parts and function 	Lecture and practical lesson	Practical exercise, meeting and work groups
Fifth	1 theoretical 3 practical	My knowledge and skills	Study of the electrical system - the parts - the utility, function .and maintenance of each part tug movement device and tug drive	Lecture and practical lesson	Practical exercise, meeting and work groups
VI	1 theoretical 3 practical	My knowledge and skills	Knowledge of the devices and means of exploiting the power in the tug, the hydraulic device - the traction shaft - the rear drive shaft PTO management reel Electrical system for tug parts	Lecture and practical lesson	Mini Lesson Discussion Practical Exercise and Workgroups
seventh	1 theoretical 3 practical	My knowledge and skills	Study of the structure of the tug - parts and benefits - guidance system - stops - the trajectory device in the tug Separator, its parts and gearshift device	Lecture and practical lesson	Case study Practical exercise and work groups
viii	1 theoretical 3 practical	My knowledge and skills	Knowing the types of plows - the importance of the plowing process - the characteristics of .good plowing Practical tug driving exercises	Lecture and practical lesson	Listening and asking practical exercise questions and work groups
ninth	1 theoretical 3 practical	My knowledge and skills	Study of tilting plows - tipping disc plows - their use - their parts - maintenance and .plowing methods Connect the tools on the tug	Lecture and practical lesson	Asking questions and listening practical exercise and work groups
The tenth	1 theoretical 3 practical	My knowledge and skills	Study of excavator plows - rotary plows - underground .plow - their use - their parts ldentify the parts of permanence	Lecture and practical lesson	Ask group work questions
eleventh	1 theoretical 3 practical	My knowledge and skills	Knowledge of soil softening equipment - its use - its parts - machines for leveling, planning and channeling - its .importance - its use Types of plows and familiarization with the equipment used	Lecture and practical lesson	Mini-lesson work groups
twelveth	1 theoretical 3 practical	My knowledge and skills	Study of mechanized agriculture - fertilizer and seed spreader - its parts - types - .calibration Types of protective equipment	Lecture and practical lesson	Practical exercise and workgroups

Thirteenth	1	My	in	A study of the fertilized see	Lecture	ask		
	theoretical	nowledge	ld 1	lines - its parts - its f	and	uestions		
	3 practical	ind skills	on : in	Types of cleaning equipmer	lesson			
	P		ds	the fi				
	1 theoretical		in se	Study of planting machines	Lecture			
64-	3	My	on ,	calibra	practical	Asking		
lourteentii	practical	ind skills	in	Watching the use of drawer	lesson	uestions		
			on rk	the fields (information (Network))				
	1		-	Fodder cutting machines	Lecture			
	theoretical		nd	types - parts of the compo	and			
<b>T</b> 10, (1	3 practical	My	ne ne	main aggregates of	lesson	Asking		
Fifteenth	pructicui	nowledge	er	.combine harve		ractice		
			on i of	Discuss the practical les		ucstions		
			on	specializa				
ent Plan .11	rse Developr	Cou						
ld visits - iversify -	e teacher to d	upport in o enables th	emic : at tha	. Providing the possibility of aca appropriate classroom environm	viding the a	Pro		
tegies	teaching stra							
library - r which -	n the campus vironment fo	echnology i he work en	tion t 'rom	Providing inform . erts from outside the institute . ou	osting exp	1		
ording	e course acc	eveloping th	in d	ring to benefit from their experti	are prepa	the		
arket	of the labor n	tual needs	he ac	. <b>t</b> o				
structure .12	Infra							
1. urse books	Required co		iral nes	book for pullers and agricul ;	systemation			
s ( sources .2	ain reference	( M	rse	oorting resources for each co	Supr			
ed books and	Recommend	a.	ers	urnals, as well as research le	ientific io	S		
fic journals ,	ences ( scient	refer	lty	f professors in the same spec	theses of	an		
ces, websites	ronic referen	b . Elect	on	www.google.com Loca				
important	the most	nmary of		description provides a bri	course	This		
e student to	bected of the	comes exp	j out	of the course and the learning	course	char		
e available	use of th	maximum	ade	onstrating whether he has	ve, demo	achi		
ie program		to the des	ikeu	ing opportunities. It must be	Jean			
institution .1	Educational	Faiantif	hatra	Technical Institute /	Dana			
me / code .3	Course na	Scientin	lator	Computer Application / cal	Depa			
e available .4	of attendanc	Forms		present learning				
ster / year .5	Seme		stag	Autumn semester / fir				
of study ( .6 ) total )	hours of theoretical and practical class 45 Number of hours of s							
tion of this .7	te of prepara	Da				2022		
description	heoretical an	ma in the f	dinla	)hiectives · Granting the student	Course (			
mmitment to	vel and his co	guished le	disti	the preparation of a graduate of	ts to serve	aspe		
actical arena	.tne pi							
Course outcomes and methods of teaching, learning and assessment .9								
A - cognitive goals								
A 1- teach students to understand the calculator parts and operating systems ( WINDWS7) and its commonds for monoping the various files and applications								
wive wor) and its commanus for managing the various files and applications . available								
troducing students to important computer programs that help in raising the								
level of production . A 3- Enable the student to know how to deal with devices in the computer lab.								
. printers, monitors, and others								
ethods	Teaching and learning methods							
Giving scientific and theoretical lectures through displays, powerpoints, slides, microscopes, experiments in examining plant samples, using various laboratory								
equipment and equipment, and a wooden canopy								
ethods	Evaluation m							
ck exams	Take daily qu	Quizzes 1						
al exams	nester and fi	ducting se	Co					
due goals	otional and v	. C - em	otiar	- Enable the student to combride	0.1			
uantity	oduction in q	increase pr	nt to	elop the patriotic spirit of the stud	2- To deve	(		
quality	. and	14.1			aa •			
1th the armers	way to deal v easants and f	nd the best ciety, the p	nce a	ing the concept of community se simple stro	C 3 - Instill			
lowing	udents by fo	er among s	ngine	professional ethics . Agricultural	- Develop	C		
havior	rofessional b	e correct p	. tł					
ability of elopment	ated to the vi personal dev	er skills rel yment and	( oth mplo	blic and rehabilitation transferre	kills of pu	D-		
-D 1			£ - 0					
-D 2								
-D 3								
-D 3 -D 4								
-D 3 -D 4 Structure .10	Course	Dequired		Unit nome / commented	aducation	luation		
-D 3 -D 4 Structure .10 the week	Course hours	<b>Required</b> learning		Unit name / course or topic	education method	luation ethod		
-D 3 -D 4 Structure .10 the week	Course hours	<b>Required</b> learning		Unit name / course or topic	education method	luation ethod		

			outcomes		
Questions and answers mini practical lesson	Lecture and practical lesson	Definition of the calculator and its benefits, its generations, linking the parts of the calculator, the physical components of the calculator and the means of input and output in it, software, the unit of memory measurement, the definition of files and folders	My knowledge and skills	1 theoretical 2 practical	first - sixth
ask questions	Lecture and practical lesson	System advantages, basic requirements for operation, components WINDWS7The operating system, the concept of the icon, the style of dealing withDESKTOP Desktop home screen, buttonSTART, to benefit from TASKBARMouse activities, the importance and components of the taskbar to enter programs and exit the system and turn off the calculator	My knowledge and skills	1 theoretical 2 practical	Seventh - tenth
Listen and ask questions	Lecture and practical lesson	icon MY COMPUTER The concept of the window and identifying its main components, dealing with icons, copying files and folders, cutting and pasting, MY, RECYCLE BIN identifying DOCUMENTS	My knowledge and skills	1 theoretical 2 practical	eleventh - fourteenth
Practical exercise, meeting and work groups	Lecture and practical lesson	Properties of files, folders and disks, change the desktop background DESKTOP BACKGROUNDChange window colors COLOR, screen saver SCREEN SAVER	My knowledge and skills	1 theoretical 2 practical	fifteenth - eighteenth
Practical exercise, meeting and work groups	Lecture and practical lesson	Mouse properties, get to know the control panel CONTROL PANAL How to delete programs that were installed through PROGRAM AND FEATURES, Get to know some of the accessories ACCESSORIES, Such asCALCULATOR, wordpad, Play video WINDOSWS PLAYERfiles MEDIA	My knowledge and skills	1 theoretical 2 practical	Nineteen - twenty-two
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	The concept of the calculator virus, the motives for the spread of viruses, how to get infected with the virus, types of viruses according to the nature of the infection and damage, signs of infection of the virus to the calculator, precautions to 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 forms, network protocols	My knowledge and skills	1 theoretical 2 practical	twenty- fifth
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	The Internet and its development, the Internet and the Internet, firewalls, some basic Internet concepts	My knowledge and skills	1 theoretical 2 practical	twenty- sixth
Asking questions and listening practical exercise and work groups	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 practical	Twenty- seven
Ask group work questions	Lecture and practical lesson	Web addresses, change the start page HOME PAGE Closing the browser and disconnecting the Internet, storing 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 network, copy text and images from websites for any application, download files from the Internet, prepare for printing, print	My knowledge and skills	1 theoretical 2 practical	twenty- nine
Practical exercise and workgroups	Lecture and practical lesson	Definition of email E-MAIL And its advantages, create an email GMAIL From the Google search engine Google Write a new message, attach files with	My knowledge and skills	1 theoretical 2 practical	thirty



messages ATTACHMENT, read the message box INBOX Reply to messages REPLAYPassing incoming messages to othersFORWARD, delete messages , exit e - mail

Course Development Plan .11

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

Infrastructure .12	
Required course books .1	Computer Fundamentals Book, Part One and Two
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
b . Electronic references , websites	www.google.com Location

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

Educational Institution .1	Technical Institute / Shatra
Scientific Department / Center .2	Animal Production Techniques Department
Course name / code .3	Human rights and democracy
Forms of attendance available .4	present learning
Semester / year .5	Autumn semester / first stage
Number of hours of study ( .6 ( total	hours in theoretical class 30
7. Date of preparation of this description	2022
a in the theoretical and practical .8 uished level and his commitment to the practical arena.	Course Objectives : Granting the student a diplon aspects to serve the preparation of a graduate of a disting

			Course outcomes and methods	of teaching,	learning and a	assessment .9
					A - cognit	ive goals
	A 1	- Educating	students on the most important rights	of the citizer	in the past, <b>p</b>	oresent
			. and future, and the mo	stimportant	laws that gove	ern this
	A	2- Introduc	ing students to the most important re	egional charte	ers, constitutio	ons and
		. guarant	ees of respect and protection of numa		the legal rules	soriaw
		D 1 . T/	a provide the student with human righ	B - SKIIIS OD	jectives of the	program
	B2.	. D I - IQ Training the	student on the skills of dealing with the	domocratic	now to conduc	rantee
	D 2 -	11 anning the	e student on the skins of dealing with a	a democi auc	and humar	n antee a rights
	B 3	- To provide	e the student with the necessary skills	for human ri	ights and how	to give
			. appropriate scientific	udgments be	tween the dis	putants
				Teaching a	nd learning m	ethods
	. Giv	ving scientifi	ic and theoretical lectures through dis	play screens.	PowerPoint a	and slides
		0	C			
					Evaluation m	ethods
				Quizzes '	Take daily qui	ick exams
				Conc	lucting month	ily exams
			(	Conducting se	mester and fi	nal exams
		0.1	Fuchle the student to surplus the surf	. C - em	otional and va	alue goals
	6.2	. U I To develop i	- Enable the student to apply theorem	cai informati	on in a practic	al way
	0.2-	to develop	the patriotic spirit of the student to in	crease produ	cuon in quant	ny anu anality
	C3-I	nstilling the	concept of community service and th	e best way to	deal with the	simple
			. strata of	society, the p	easants and fa	armers
	C 4 -	Develop the	ethics of the human rights profession	among stud	ents by follow	ing the
		-		. correct p	professional b	ehavior
	D·	skills of pu	blic and rehabilitation transferred ( o	ther skills re	lated to the vi	ability of
			.( emp	loyment and	personal dev	elopment
						-D1
					~ ~ ~	-D 2
					Courses	Structure .10
Eval	luation	education	Unit nome / course on tonie	Required	hound	the week
m	ethod	method	Unit name / course or topic	outcomes	nours	the week
			Human rights - their definition -	outcomes	2	
~		Lecture	their goals - the roots and			
Q and	uestions	and	development of human rights	My		the first
anu	lesson	practical	in human history - human	and skills		the mst
	icoson	lesson	rights in ancient and middle	unu skins		
		Lootu	ages			
	موار	Lecture	of Mesonotamia - human rights	Му	Z	
a	uestions	practical	in the divine laws - a special	knowledge	meor eucar	The second
ч		lesson	study of human rights in Islam	and skills		
Lis	sten and	Lecture	Human rights in the Middle	Mv	2	the third
	ask	and	Ages - Rights in sects,	knowledge	theoretical	

schools, theories,

and skills

questions

	practical lesson	corporations, their declarations and constitutions - Human rights in			
		contemporary and modern history - International recognition of human rights in the League of Nations			
And meet and work groups	Lecture and practical lesson	Regional recognition of human rights - the European Convention on Human Rights in 1950 - the American agreement 1969 - non- governmental organizations and human rights	My knowledge and skills	2 theoretical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	National Human Rights Organizations - Human rights in the Iraqi constitutions between theory and reality	My knowledge and skills	2 theoretical	Fifth
Mini-lesson discussion and workgroups	Lecture and practical lesson	The relationship between human rights and public freedoms in the Universal Declaration of Human Rights, regional charters and national constitutions	My knowledge and skills	2 theoretical	VI
Case study and work groups	Lecture and practical lesson	Necessary human rights and collective human rights - economic, social and cultural human rights and civil and political human rights	My knowledge and skills	2 theoretical	seventh
Listen and ask questions and work groups	Lecture and practical lesson	Modern human rights - realities in development - the right to a clean environment - the right to solidarity - the right to religion - guarantees of respect 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	VIII
Ask questions, listen and work groups	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
Ask group work questions	Lecture and practical lesson	The role of the Arab League, the European Union, the African Union and ASEAN in respecting and protecting human rights - the general theory of freedoms - the origin of rights and freedoms	My knowledge and skills	2 theoretical	The tenth
Mini-lesson work groups	Lecture and practical lesson	The functional nature of the concept of public freedoms - philosophical considerations of the right to work - structural and economic considerations	My knowledge and skills	2 theoretical	eleventh
Listen to a mini lesson	Lecture and practical lesson	The legal basis for the rule of law - regulation of public liberties by public authorities	My knowledge and skills	2 theoretical	twelveth
ask 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
ask questions	Lecture and practical lesson	The effect of the duality of eliminating public liberties - public freedoms in administrative jurisprudence - equality - its historical development	My knowledge and skills	2 theoretical	fourteenth
ask questions	Lecture and practical lesson	The recent development of the idea of equality - gender equality - equality between individuals according to their beliefs and their race	My knowledge and skills	2 theoretical	Fifteenth

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

. Providing information technology in the campus library -Hosting experts from outside the institute, or from the work environment for -which they are preparing to benefit from their expertise in developing the

. course according to the actual needs of the labor market

	Infrastructure .12
method book	Required course books .1
Supporting resources for each course	( Main references ( sources .2
Scientific journals, as well as research, letters and theses of professors in the same specialty	a . Recommended books and references ( scientific journals , (reports , 0000

### **Course description**

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

	l			Technical Institute / Sha	tra E	ducational in	stitution -1	
			Ani	imal Production Techniques Departme	ent Sc	ientific Depa	rtment / -2 Center	
		Meat Cattle Production beef cattle production			ion	Course nam	ne / code -3	
				present learning	Availa	Available forms of attendance -4		
				Spring semester / first sta	age	seaso	on / year -5	
			ł	nours of theoretical and practical class	60 Numb	er of hours o	f study (-6 ( total	
		2022	2		The	e date this des was n	scription -7	
			Course Obj aspect	ectives : Granting the student a diplon ts to serve the preparation of a gradua .co	na in the the te of a distin mmitment t	oretical and p guished level o the practica	practical -8 and his al arena	
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o the practica		
				Course outcomes and methods of tea	aching, learı	ning and asse	ssment -9	
Course descri	ption		A - to ide	entify the most important strains produ	ucing meat a characterist	A - cognit and morpholo ics and prod	ive goals ogical 1 uctivity	
				A - The student recognizes the p	roduction of	red meat sou	irces 2	
			a - to b	e able to understand the economic and	l nutritional	importance t	to the 3	
		. a -	A - to be that recogni	able to know how to invest the productive state and recog	ctive efficien nize the fact	cy of animal ors affecting	meat 3 them 4	
			A - to be far	niliar with the ways used to transport	and market	ing of animal . sa	- s and 5 crifices	
		B 2	student 's al	I B 1 definition of the student B 1 definition of the student bility to understand how to get to the b	B - Skills obj t production pest investme	ectives of the of red meat s	program sources iciency	
		of the production of animal meat						
		B 3 the students to recognize the best way to transfer and marketing of animals and						
		Teaching and learning methods						
		Explanation and clarification						
		student groups						
		Practical lessons in animal fields Scientific trips to animal fields in Iraq						
		Evaluation methods						
		theory tests Practical tests						
		Reports and Studies						
		Quizzes Take daily quick exams						
		Conducting monthly exams Conducting semester and final exams						
		. C - emotional and value goals						
		C 1 - The skill of thinking according to the student's ability, and that the goal of this						
		skill is for the student to believe in what is tangible and understand when, what and						
		. now ne snould think and work to improve the ability to think reasonably - C2 - Observation and Perception						
		- C3 - Analysis and Interpretation						
		- C 4. Preparation and Calendar C5 - Critical thinking strategy in learning						
		D - skills of public and rehabilitation transferred ( other skills related to the viability of						
				.( emplo	oyment and	personal dev	elopment -D 1	
		-D 1 -D 2					-D 2	
							-D 3	
1					Cou	rse structure	-10	
	Evaluat methe	tion od	education method	Unit name / course or topic	Required learning outcomes	hours	the week	
	Ques	tions	Lecture	The reality of meat production in		1		
	and ans	wers	and	the Arab world and the world Field identification of the meat-	My knowledge	theoretical २	the first	
	pra	ctical	practical lesson	producing parts of the animal's	and skills	practical		
	le	esson	Lecture	body Meat production in Irag, means of		1		
			and	increasing production, problems of	Mv	theoretical		
	ques	ask tions	practical lesson	meat production Field supplies in the fields of meat animals and housing, tools scales	knowledge and skills	3 practical	The second	
	Listen ques	and ask tions	Lecture and	Classification of farm animals producing beef - buffalo - camels	My knowledge and skills	1 theoretical	the third	

	practical lesson	Field operations in the fields of meat animals : animal numbering, removal of horns, male fertilization process, nail clipping, spraying process, disinfection process, weighing animals, holding and placing animals		3 practical	
Practica exercise neeting and ork group	l Lecture and practical s	Breeds of beef cattle, phenotypic traits, productive traits Choosing and buying meat animals	My knowledge and skills	1 theoretical 3 practical	the fourth
Practica exercise neeting and ork group	l Lecture , and l practical s lesson	Production of meat from buffalo, buffalo in Iraq The most important methods of fattening	My knowledge and skills	1 theoretical 3 practical	Fifth
lini Lesso Discussio Practica xercise and	h Lecture h and l practical l lesson	Production of meat from camels ((camels The stages of establishing the herd	My knowledge and skills	1 theoretical 3 practical	VI
Case study Practica xercise and worl	y Lecture l and l practical c lesson	Growth and development in meat animals - growth theory - growth curve Economic traits of meat	My knowledge and skills	1 theoretical 3 practical	seventh
group Listening and asking practica exercise question and work group	g Lecture g and l practical e lesson s s	Reproduction and fertility in meat animals Slaughter of animals / methods of animal slaughter	My knowledge and skills	1 theoretical 3 practical	VIII
Asking question ad listening practica xercise and worl group	Lecture and practical lesson	Feeding meat animals, nutritional needs of meat animals, concentrated green fodder, production needs, types of diets and methods of fattening Calculations of carcasses / adhesion ratios, recovery ratios	My knowledge and skills	1 theoretical 3 practical	ninth
Ask grouj worl question	Lecture and practical s lesson	Study of the economic and productive characteristics of meat animals Field records of meat animals/kinds	My knowledge and skills	1 theoretical 3 practical	The tenth
Aini-lesson ork groups	Lecture and practical lesson	The nutritional value of red meat and its comparison with some other human foods Scientific bases in the process of cutting carcasses	My knowledge and skills	1 theoretical 3 practical	eleventh
Practical cercise and orkgroup	Lecture and practical lesson	animal body composition Economic Calculations for Field Meat Production	My knowledge and skills	1 theoretical 3 practical	twelveth
asl questions	Lecture and practical lesson	Doing a scientific trip The process of inspecting the carcasses	My knowledge and skills	1 theoretical 3 practical	Thirteenth
Asking practice questions	Lecture and practical lesson	The practical foundations of the meat inspection process in the slaughterhouse, laboratory and at the consumer Laboratory tests conducted on meat	My knowledge and skills	1 theoretical 3 practical	fourteenth
Asking practice questions	Lecture and practical lesson	The future of meat production in Iraq scientific visit	My knowledge and skills	1 theoretical 3 practical	Fifteenth
	. Provi Providing Hosting exp which the	course according to the sector of the sector	purse develo port in org nent that end diversify to chnology in from the wo ir expertise	ppment plan ganizing fiel ables the tea eaching strat the campus ork environm in developing f the labor m	-11 d visits - cher to - tegies library - nent for - ng the narket
			In	frastructure	-12
			R	equired cou	rse books .1
	Supporting resources for each course 1         ( Main refere           Scientific journals, as well as research, letters and professors' theses in the same         a . Recomment references ( sciences ( scienc				
	letters and	professors' theses in the same	referen	ces ( scienti	fic journals

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

Technical Institute / Shatra	Educational institution -1	
Animal Production Techniques Department	Scientific Department / -2 Center	
Animal Health/ animal health	Course name / code -3	
present learning	Available forms of attendance -4	
Spring semester / first stage	season / year -5	
hours of theoretical and practical class 75	Number of hours of study ( -6 ( total	
2022	The date this description -7 was prepared	
Course Objectives : Granting the student a diploma in the theoretical and practic aspects to serve the preparation of a graduate of a distinguished level and h .commitment to the practical arem		

Course outcomes and methods of teaching, learning and assessment -9

A - cognitive goals

a - that recognizes the environmental conditions in animal shelters 1

A - The scoop student pollutants to air or water 2 A - The student recognizes how the transmission of diseases and their causes through 3

affordable water

B - Skills objectives of the program

b - - improve the student 's ability to learn observation and experimentation and the 1 desire to perform experiments **b** - Learn how to set up a health system coherent and avoid the spread of diseases to 2 increase the numbers of animals

**b** - enable students to identify the modern techniques used to improve the health of the 3 environment and animal

Teaching and learning methods

Explanation and clarification Lecture method

student groups Practical lessons in animal fields

Scientific trips to animal fields in Iraq **Evaluation methods** 

theory tests Practical tests **Reports and Studies** Quizzes Take daily quick exams Conducting monthly exams

Conducting semester and final exams

. C - emotional and value goals

C 1 - The skill of thinking according to the student's ability, and that the goal of this skill is for the student to believe in what is tangible and understand when, what and how he . should think and work to improve the ability to think reasonably - C2 - Observation and Perception - C3 - Analysis and Interpretation - C 4. Preparation and Calendar C5 - Critical thinking strategy in learning

D - skills of public and rehabilitation transferred ( other skills related to the viability of .( employment and personal development -D 1

-D 2

					-D 3
					-D 4
			Cou	rse structure	-10
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	Air, the health importance of air components, air pollutants inside animal housing and their health . importance gas ratingco In barns, . 2 methods for measuring microbial contamination in the air: Open occlusal method effervescent pellet method	My knowledge and skills	2 theoretical 3 practical	the first
ask questions	Lecture and practical lesson	The role of air in the transmission of pathogens, droplet infection, dust infection and the health importance of rapid . Air, sun and light Methods for estimating humidity: a- absolute humidity b- relative humidity	My knowledge and skills	2 theoretical 3 practical	The second

a

			Wet and dry warehouse -1		
			Circular Hygrometer 32		
			Humidity Diagram 4-		
	2		Ventilation, air exchange and air	Lecture	
	theoretical	Mv	volume, ventilation methods in	and	Liston and
the third	3 practical	knowledge	Methods for measuring air	lesson	Listen and ask
	-	and skills	velocity a- engines b- indirect		questions
			the building		
	2	Mv	Water, water sources: rain water,	Lecture	Practical
the fourth	theoretical 3	knowledge	surface water, seas and . groundwater	and practical	exercise, meeting and
	practical	and skills	Industrial ventilation methods	lesson	work groups
	2 theoretical		Sanitary conditions to be met in	Lecture	
	3	Му	Water test to judge its purity:	practical	Practical exercise
Fifth	practical	knowledge and skills	local examination of the water	lesson	meeting and
		and skins	from the tap, wells, and surface		vork groups
	2		water	Looturo	
	2 theoretical		transmission of pathogens,	and	Mini I aggan
	3	Му	pathogenic microbes, animal	practical	Discussion
VI	practical	knowledge	. The chemical	lesson	Practical
		and skills	Chemical examination: pH,		Vorkgroups
			organic matter, ammonia, nitrates, chlorides		
	2		Purification of drinking water, the	Lecture	
	theoretical 3		purpose of which is the natural and artificial purification of water.	and practical	Case study
	practical	Му	the addition of chlorine, bleaching	lesson	Practical
seventh		knowledge and skills	powder and potassium . permanganate		exercise and work
			Microscopic and		groups
			bacteriological examination of drinking water		
	2		Animal pens, building site,	Lecture	Listening
	theoretical	Mv	construction, roof, thermal	and practical	and asking
VIII	o practical	knowledge	Animal building constructions,	lesson	exercise
		and skills	the main materials in the walls,		questions
			insulation		groups
	2 theoretical		Discharge of waste and liquids	Lecture	Asking
	3	Mv	deposits, drainage pipes and traps	practical	nd listening
ninth	practical	knowledge	Votorinary conditions for	lesson	practical
		and skills	imported animals and birds		work
			and their products		groups
	2	Mu	Healthy ways to get rid of waste in	Lecture	Ask group
The tenth	theoretical	knowledge	. barns Chemical disinfectants used in	and	work
	3 practical	and skills	the field	lesson	questions
	2		Barn systems for dairy cattle,	Lecture	
	theoretical 3	v	walls, troughs and manholes,	and practical	
eleventh	practical	knowledge	lighting	lesson	Mini-lesson
		and skills	And ventilation, the stores of the . loins		vork groups
			Animal barn disinfection		
	2		Milking machines, their types:	Lecture	
	theoretical		mobile milking machine,	and	
, •	3 practical	Му	Insecticides and their uses in	practical lesson	Practical
twelveth	practical	knowledge and skills	animal health, general		exercise and workgroups
			account when choosing an		91
			insecticide	_	
	2 theoretical		General specifications of the pits:	Lecture and	
Thirteenth	3	My knowledge	. door openings	practical	ask
1 mi teentii	practical	and skills	Methods of using insecticides,	lesson	questions
			dangers of immersion		
	2 theoretical	Mv	Theatres, animal health in	Lecture	Asking
fourteenth	3	knowledge	Tick resistance, methods of	practical	practice
	practical	and skills	tick resistance in pastures, on	lesson	questions
	2		Calf barns, environment, calf barn	Lecture	
	theoretical		systems, shedding barns, fattening	and	
	3 practical	Mv	cattle barns and sheep barns Resistance to scabies on animals	practical lesson	Asking
Fifteenth	r	knowledge	and in barns, poisoning with		practice
		anu skills	insecticides, petroleum oils, solvents		questions
			,		
			Sulfur and lime sulfur, arsenic		

#### course development plan -11

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

Infrastructure -12	
Required course books .1	method book
( Main references ( sources .2	
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and professors' theses in the same specialty
b . Electronic references , websites	www.google.com Location Animal Science Journal

Course description

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

_	Technical Institute / Shatra	Educational institution -1			
	Animal Production Techniques Department	Scientific Department / -2 Center			
	fish production	Course name / code -3			
	present learning	Available forms of attendance -4			
	Spring semester / first stage	season / year -5			
	An hour in the classroom, theoretical and practical 60	Number of hours of study ( -6 ( total			
	2022	The date this description -7 was prepared			
	Course Objectives : Granting the student a diploma ir aspects to serve the preparation of a graduate of .comm	the theoretical and practical -8 a distinguished level and his itment to the practical arena			
Γ	Course outcomes and methods of teaching	ng, learning and assessment -9			
-		- A. Cognitive Objectives			
	- A 1 student recognizes the p	rinciples of the concept of fish			
	-	A 2 learn classification of fish			
Course description	- A 3 recognizes the interna	and external parts of the fish			
	A 4 to identify the s	Skills objectives of the course			
	- B 1. Know the co	cept of the student Mpadi fish			
	B 2 - The student's ability to distinguish fish and their locations in aquatic environments				
	B3 - Learn how to study the food of fish, estimate their age, and determine their age are reproductive period				
	B 4- The student's ability to distinguish some Iraqi fish				
-	Teaching and learning methods				
	Explanation and clarification				
	Lecture method				
	student groups				
	Practical lessons in animal fields Scientific trips to animal fields in Irag				
-	Evaluation methods				
		theory tests			
		Practical tests			
		Reports and Studies			
	Q	uizzes Take daily quick exams			
	Condu	cting semester and final exams			
_	Condu	C - Emotional and value goals			
	C 1- The skill of thinking according to the student's ability	y and that the goal of this skill			
	- is for the student to believe in w	hat is tangible and understand			
	. When, what and how he should think and improve	the ability to think reasonably			
	-	C 2. observation and cognition			
	-C	3 - Analysis and Interpretation			
	- ( C - E Cristia	. 4. Preparation and Calendar			
-	U-5 UTIIC D - skills of nublic and rebabilitation transformed ( other	ar uninking subacey in rearining			
	f employme	ent and personal development			
	.( employment	-D 1			
		-D 2			

			Course structure		
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini	Lecture and practical lesson	Introduction to fish production - ichthyology - importance of fish - . characteristics of fish	My knowledge and skills	1 theoretical	the first

	3 practical		Study of the external appearance of the fish - parts of the body		practical lesson
	1 theoretical 2	Му	The appearance outer for fish appearance the body openings somatic scales fins	Lecture and practical	ask
The second	practical	knowledge and skills	Study of fins - scales - lateral line - longitudinal line - standard length Types of fins	lesson	questions
	1 theoretical		Internal structures of fish, respiratory, digestive, reproductive,	Lecture and	
the third	3 practical	My knowledge and skills	Anatomy of fish, identification of the digestive system, respiratory system, reproductive system,	lesson	Listen and ask questions
	1 theoretical		secretion and organization osmosis . for fish , the device nervous	Lecture and	
the fourth	3 practical	My knowledge and skills	Familiarize yourself with the laboratory equipment and how it works (measuring device). pH, Measuring device CO2) and others	practical lesson	Practical exercise, meeting and work groups
	1 theoretical		Classification of fish (length measurements, weight	Lecture and	
Fifth	3 practical	My knowledge and skills	measurements, methods used in . classifying fish Collect samples of water from rivers and streams and measure (dissolved oxygen and	practical lesson	Practical exercise, meeting and work groups
			pH salinity , transparency, (degree of salinity		
VI	1 theoretical 3 practical	My knowledge and skills	Taxonomic traits of some . important and common Iraqi fish	Lecture and practical lesson	Mini Lesson Discussion Practical Exercise and
	1		Methods for estimating age in fish,	Lecture	Workgroups
	theoretical 3	Mv	relationship between height and . weight in fish	and practical	case study
seventh	practical	knowledge and skills	Collection and examination of phytoplankton and zooplankton Examination of samples of plankton from different aquatic environments	lesson	Practical exercise and workgroups
	1 theoretical		Reproduction – Reproduction strategies – Factors affecting	Lecture and	Listening and asking
VIII	3 practical	My knowledge and skills	reproduction (internal and external) Reproductive systems Sexual differentiation and .sexual differences Multiplication nests, types and	practical lesson	practical exercise questions and work groups
	1 theoretical		The aquatic environment, the	Lecture	Asking
ninth	and a practical	My knowledge and skills	physicochemical factors that affect . the growth and life of fish Fertility test and measurement (absolute, relative) reproductive function	practical lesson	and listening practical exercise and work groups
	1 theoretical	My	Migration of fish (reproduction migration, feeding migration,	Lecture and	Ask group
The tenth	3 practical	knowledge and skills	. (winter migration Scientific films about the aquatic environment	practical lesson	work questions
	1 theoretical		Plant and animal plankton, food pyramid (production stage,	Lecture and	
eleventh	3 practical	My knowledge and skills	consumption stage, death stage, . (recovery stage Identifying Iraqi fish and applying some of the methods used in classifying fish	practical lesson	Mini-lesson work groups
twolvoth	1 theoretical	My	Fertility (absolute, relative) . reproductive function	Lecture and	Practical
tweivetii	3 practical	and skills	Making maps of water bodies in Iraq	practical lesson	workgroups
Thirteenth	1 theoretical 3 practical	My knowledge and skills	Pollution types and sources and its .impact on aquatic organisms Identifying the types of fishing (means (nets, traps, snarls 0000	Lecture and practical lesson	ask questions
	1 theoretical	Му	Water resources in Iraq, rivers, lakes, marshes, seas	Lecture and	Asking
tourteenth	3 practical	кnowledge and skills	A visit to one of the fish farms and see its components	practical lesson	practice questions
			without of this over the second secon	Lecture	

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

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

Infrastructure -12	
Required course books .1	method book
( Main references ( sources .2	
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and professors' theses in the same specialty
b . Electronic references , websites	www.google.com Animal Science Journal

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

Technical Institute / Shatra	Educational institution -1
Animal Production Techniques Department	Scientific Department / -2 Center
poultry feed	Course name / code -3
present learning	Available forms of attendance -4
Spring semester / first stage	season / year -5
An hour in the classroom, theoretical and practical 60	Number of hours of study ( -6 ( total
2022	The date this description -7 was prepared
Course Objectives : Granting the student a diploma in	1 the theoretical and practical -8
aspects to serve the preparation of a graduate of .comm	f a distinguished level and his itment to the practical arena

	Course outcomes and methods of teaching, learning and assessment -9
	- A. Cognitive Objectives
	. A1 - The student will be familiar with the concept of feeding poultry
	A 2 - The student learns the components of poultry diets
	- A 3 - Using modern software to build relationships
	A 4 - that students learn how to manage feeding hens and broiler chickens and the
	. difference in the nutrition requirements between Monday
	. A 5 - The student learns how to set up fodder plants
	. B - the skill objectives of the course
	B1 - Introducing the student to the concept of poultry nutrition
	. B 2 - the student's ability to evaluate nutrition programs
	. B 3 - Introducing students to the work of feed mills
	Teaching and learning methods
	Explanation and clarification
	Lecture method
	student groups
	Practical lessons in poultry fields
	Scientific trips to poultry fields in Iraq
	Evaluation methods
	incory tests
	Practical tests Reports and Studies
	Ouizzes Take daily quick eyams
	Conducting monthly exams
Course description	Conducting semester and final exams
	- C - Emotional and value goals
	C 1- The skill of thinking according to the student's ability and that the goal of this skill
	- is for the student to believe in what is tangible and understand
	. When, what and how he should think and improve the ability to think reasonably
	- C 2. observation and cognition
	- C3 - Analysis and Interpretation
	- C 4. Preparation and Calendar
	C -5 Critical thinking strategy in learning
	D - skills of public and rehabilitation transferred ( other skills related to the viability of
	( employment and personal development

- -D 1 -D 2

			Course structure -10		
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	The concept of nutrition, the basic nutrients that birds need and their functions. The nature of the feed materials used in poultry feeding, their specifications, and the determinants of their use	My knowledge and skills	1 theoretical 3 practical	the first
ask questions	Lecture and	The concept of energy, the main sources of energy, digestion and	My knowledge and skills	1 theoretical	The second

	practical lesson	absorption of fats and carbohydrates Classification of feed materials		3 practical	
Listen and ask questions	Lecture and practical lesson	The relationship between energy and feed density, factors affecting energy needs, symptoms of deficiency and increase in energy in poultry .diets Calculation of nutritional energy requirements (broilers (and laying hens	My knowledge and skills	1 theoretical 3 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson	The energy needs of broilers and broilers during the .different life stages Calculation of nutritional energy requirements (broilers (and laying hens	My knowledge and skills	1 theoretical 3 practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Poultry needs of protein and essential amino acids Symptoms of deficiency and excess of protein in poultry diets Practical examples of poultry energy needs and net base energy calculation	My knowledge and skills	1 theoretical 3 practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	Factors affecting the protein .needs of poultry Calculating the nutritional needs of protein for broilers and laying hens, practical examples of calculating daily protein needs of chicken	My knowledge and skills	1 theoretical 3 practical	VI
case study Practical exercise and workgroups	Lecture and practical lesson	The ratio of energy to protein Calculations of the digestive ratio of protein, and the relationship between them and the digestive ratio of protein, the remaining protein in the body, the biological value of protein, the net value of protein and the relationship between them and the digestive ratio	My knowledge and skills	1 theoretical 3 practical	seventh
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	Nutritional needs of vitamins and inorganic elements and the .factors affecting them Calculation of feed conversion efficiency of birds and dressing ratio	My knowledge and skills	1 theoretical 3 practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	Food and non-food additives in poultry rations. Calculation of energy and protein needs for broiler chickens - practical examples	My knowledge and skills	1 theoretical 3 practical	ninth
Ask group work questions	Lecture and practical lesson	The relationship of nutrition to the quality of the egg, the quality of the shell, the quality of the egg white, the nutritional value of the eggs, the quality and color of the yolk, nutrition, the size and production of eggs Composition and mixing of poultry feeds - selection of primary feed materials, determination of the level of nutrients in the diet	My knowledge and skills	1 theoretical 3 practical	The tenth
Mini-lesson work groups	Lecture and practical lesson	Food rationing for poultry, methods used in rationing .feed. Feed forms for poultry Applied calculations to measure growth velocity, methods used to measure growth velocity of chickens	My knowledge and skills	1 theoretical 3 practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	Feeding turkeys and diets - nutritional needs during the .breeding period Calculation of poultry feed needs	My knowledge and skills	1 theoretical 3 practical	twelveth
ask questions	Lecture and practical lesson	Traditional feed, used in poultry diets (feed .(alternatives Recognizing the symptoms of nutritional deficiency in birds and how to treat them, evaluating the quality of the feed and its freeness Poisons, fungi and means of storage	My knowledge and skills	1 theoretical 3 practical	Thirteenth
Asking	Lecture	Traditional feed, used in poultry	Му	1	fourteenth

	theoretical 3 practical	knowledge and skills	. (diets (feed alternatives Practical examples of calculating feed costs for birds	and practical lesson	practice questions
Fifteenth	1 theoretical 3 practical	My knowledge and skills	Diseases and bad habits caused by .nutritional deficiencies Some materials from feed alternatives and how to treat them when introduced into rations	Lecture and practical lesson	Asking practice questions
-11	opment plan	course devel			

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

. teaching strategies . Providing information technology in the campus library -

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

Infrastructure -12 method book Required course books .1 ( Main references ( sources .2 a . Recommended books and Scientific journals, as well as research, letters references ( scientific journals and professors' theses in the same specialty (reports, 0000 www.google.com Location Animal Science Journal **b** . Electronic references , websites

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

Technical Institute / Shatra	Educational institution -1			
Animal Production Techniques Department	Scientific Department / -2 Center			
Chemistry general chemistry	Course name / code -3			
present learning Available forms of att				
Spring semester / first stage seaso				
An hour in the classroom, theoretical and practical 60 Number of hours of stu ( t				
022 The date this description -7 was prepared				
Course Objectives : Granting the student a diploma in the theoretical and practical -8 aspects to serve the preparation of a graduate of a distinguished level and his				
.commitment to the practical arena				

	Course outcomes and methods of teaching, learning and assessment -9
	- A. Cognitive Objectives
	A 1 - That the student familiarize himself with the general concepts and principles of
	, chemistry
	A 2 - The student should acquire intellectual skills related to modern methods and
	. trends
	A 3- The student should acquire manual skills that qualify as the outcome of laboratory
	.work
	. A 4- Spreading the spirit of cooperation among students through laboratory work
	A 5- That the student recognize the characteristics of experimental science, which is the
	science on which the science of chemistry is based
	. B - the skill objectives of the course
	B1. To enable students to acquire knowledge and understanding of chemical standards
ption	B 2- Enable students to obtain knowledge and understanding of laws related to scientific
	research
	B3 - Enable students to obtain knowledge and understanding of international auditing
	standards
	B 4, enable students to obtain knowledge and understanding of the chemical law
	<b>B</b> 5. Students enable access to knowledge and understanding of the science of chemistry
	systems
	Teaching and learning methods
	Explanation and clarification
	Lecture method
	student groups
	Practical lessons in the chemistry lab
	Evaluation methods
	theory tests
	Practical tests
	Reports and Studies
	Quizzes Take daily quick exams
	Conducting monthly exams
	Conducting semester and mail exams
	C 1. The shill of thinking according to the student's shill used that the goal of this shill
	C 1- The skin of thinking according to the student's ability and that the goal of this skin
	- is for the student to believe in what is tangible and understand
	. when, what and now he should think and improve the ability to think reasonably
	- U 2. ODSErVation and cognition
	- C5 - Analysis and Interpretation
	- C 4. r reparation and Calendar
	C - 5 Critical unliking strategy in learning

Course descri

-D 2

-10	rse structure	Cou			
the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
the first	1 theoretical 3 practical	My knowledge and skills	The history of chemistry and its importance in nature and its types	Lecture and practical lesson	Questions and answers mini practical lesson
The second	1 theoretical 3 practical	My knowledge and skills	Types of solutions and how to prepare them	Lecture and practical lesson	ask questions
the third	1 theoretical 3 practical	My knowledge and skills	Chemical structure of inorganic compounds	Lecture and practical lesson	Listen and ask questions
the fourth	1 theoretical 3 practical	My knowledge and skills	Chemical composition of organic compounds	Lecture and practical lesson	Practical exercise, meeting and work groups
Fifth	1 theoretical 3 practical	My knowledge and skills	Saturated and unsaturated hydrocarbons	Lecture and practical lesson	Practical exercise, meeting and work groups
VI	1 theoretical 3 practical	My knowledge and skills	hydrocarbons saturated and change saturated	Lecture and practical lesson	Mini Lesson Discussion Practical Exercise and Workgroups
seventh	1 theoretical 3 practical	My knowledge and skills	Amines and alcohol	Lecture and practical lesson	case study Practical exercise and workgroups
VIII	1 theoretical 3 practical	My knowledge and skills	Amines and alcohol	Lecture and practical lesson	Listening and asking practical exercise questions and work groups
ninth	1 theoretical 3 practical	My knowledge and skills	citrus carboxylate	Lecture and practical lesson	Asking questions and listening practical exercise and work groups
The tenth	1 theoretical 3 practical	My knowledge and skills	citrus carboxylate	Lecture and practical lesson	Ask group work questions
eleventh	1 theoretical 3 practical	My knowledge and skills	salts mineral/ detection About most important metal in a nature	Lecture and practical lesson	Mini-lesson work groups
twelveth	1 theoretical 3 practical	My knowledge and skills	salts mineral/ detection About most important metal in a nature	Lecture and practical lesson	Practical exercise and workgroups
Thirteenth	1 theoretical 3 practical	My knowledge and skills	salts mineral/ detection About most important metal in a nature	Lecture and practical lesson	ask questions
fourteenth	1 theoretical 3 practical	My knowledge and skills	Detergents and sterilizers used in animal production fields	Lecture and practical lesson	Asking practice questions
Fifteenth	1 theoretical 3 practical	My knowledge and skills	detergent and sterilizers used in a fields production animal	Lecture and practical lesson	Asking practice questions

course development plan -11

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

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

	Infrastructure -12
method book	Required course books .1
	( Main references ( sources .2
Scientific journals, as well as research, letters and professors' theses in the same specialty	a . Recommended books and references ( scientific journals , (reports , 0000

**b** . Electronic references , websites

www.google.com Location Animal Science Journal

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

Technical Institute / Shatra	Educational institution -1			
Animal Production Techniques Department	Scientific Department / -2 Center			
animal production mechanization	Course name / code -3			
present learning	Available forms of attendance -4			
Spring semester / first stage	season / year -5			
hours of theoretical and practical class 45	Number of hours of study ( -6 ( total			
2022	The date this description -7 was prepared			
Course Objectives : Granting the student a diploma in the theoretical and practical -8 aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical arena				

	Course outcomes and methods of teaching, learning and assessme					ssment -9	
			A 1-'	The student will be familiar with the o	concept of me	- A cognit echanization of	tive goals of animal reduction
				A 2- The student should classify the so	ources of wat	pı er needed for	the field
				A 3- The student should separate betw	ween manual	and mechani	cal work
			A 4-	To perform a number of theoretical of A 5 - The student evalu	calculations for	or the use of a	machines
				-B	Marathi obje	ctives for the	program
			- B 1 intro	duce students to the concept of mecha	nization of p	roduction Al	hawwana
			<b>D</b> 2-	- B 2 the student 's ability to u	se agricultur	al machinery	skillfully
			ВЗе	nable students to choose the appropria	Teaching an	n the approp id learning m	ethods
					Explan	ation and cla	arification
						Lectu	re method
				Pi	actical lessor	stude is in agricult	ent groups ural fields
						Evaluation m	ethods
						th	eory tests
						Reports ar	nd Studies
					Quizzes 7	Fake daily qu	ick exams
				C	Cond onducting set	ucting montl	nly exams
				C	C - emo	otional and va	alue goals
		C 1	- The skill o	f thinking according to the student's a	bility, and th	at the goal of	f this skill
			Unde	is for the st.	tudent to beli	ieve in what is the ability to	s tangible think
			Unue	istanu wien, what and now to think a	and improve	.r	easonably
					C2 - Obse	rvation and I	Perception
					- C3 - Analy	sis and Inter	pretation
				С 5- С	ritical thinki	paration and ng strategy ir	calendar i learning
Course desc	ription	D-	skills of put	olic and rehabilitation transferred ( o	ther skills rel	ated to the vi	ability of
				.( emp	loyment and	personal dev	elopment
							-D1 -D2
					Cou	rse structure	-10
	Evalua meth	tion od	education method	Unit name / course or topic	Required learning outcomes	hours	the week
	Ques	stions	Lecture	An overview of the mechanization of livestock and poultry fields and	My	1 theoretical	
	anu an	mini	and	their equipment.	knowledge	2	the first
pra le		ctical	lesson	livestock fields and their	and skills	practical	
		esson		accessories at the institute			
			Lecture	The use of blacksmithing	Mv	1	
		ask	practical	Training in blacksmithing	knowledge	theoretical 2	The second
	ques	uons	lesson	workshops and gas welding	and skills	practical	
	Listor	and	Lecture		M	1	
	Lister	ask	and	.The use of electric arc welding	knowledge	theoretical	the third
	ques	stions	practical lesson	Electric weiding training	and skills	2 practical	
	Pra	ctical	Lecture	Electricity in animal production	Му	1	the fourth

exercise,

meeting and

work groups

and

practical

lesson

fields Single-phase and three-

phase electricity Electric cycle

.Electrical terms and symbols

knowledge

and skills

theoretical

practical

3

Lecture exercise, meeting and work groups         Lecture lesson         Doing an electrical course meting and work groups         Intervention meting and biscussion         Lecture and statisghtening the motor, maintenance and repair bisassembling and installing the parts         Mathewa has statisghtening the parts         Intervention meting machine and skills           Mini Lesson Discussion Practical Excrete and Workgroups         Lecture and advision         Automatic milking machine automatic milking machine amintenance ori baters         Intervention machines machines and maltenance ori baters         Intervention machines machinenance manholels        Intervention machines machines			Training and familiarization with electrical installations			
Mini Lesson Discussion practical Exercise and Workgroups         Lecture and tesson         Automatic milking machine preservation and cooling device automatic milking davices Milking device automatic milking davices Milking automatic marking machine         My knowledge practical exercise and work groups         1 theoretical practical practical exercise and work groups         1 Types of milking machine automatic marking machine           Lecture and asking practical exercise and work groups         Lecture practical practical exercise and work groups         Lecture practical exercise and work groups         Mechanization of concentrated feed processing Types of feed mills Feed plant parts Grinders Operation and maintenance of the feed mill and mixers Operation and maintenance of machines and sheep fields the feed mill and mixers operation and maintenance of incubators Training on shearing operation and work groups         1 theoretical practical exercise and work groups         1 theoretical teston practical exercise and work groups         1 theoretical teston practical exercise and work groups         1 theoretical teston practical exercise and work groups         1 theoretical teston practical exercise and dipting on shearing operation for ubators Training on egg of and maintenance of incubators Training on egg or and maintenance of incubators Training on egg or and maintenance or incubators maintenance of incubators Training on egg or and maintenance or incubators training on egg or and maintenance and maintenance and maintenance oreat manholes         1 theoretical practical maskills<	Practical exercise, meeting and work groups	Lecture and practical lesson	Doing an electrical course Motors . Installation of the electric motor, means of straightening the motor, .maintenance and repair Starting electric motors Disassembling and installing the electric motor Identifying the parts	My knowledge and skills	1 theoretical 3 practical	Fifth
Lecture workgroups       Lecture and workgroups       Green Forage Processing practical lesson       1 theoretical practical pra	Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	Automatic milking machine Types of milking devices Milk preservation and cooling devices Operation and maintenance of automatic milking machine	My knowledge and skills	1 theoretical 3 practical	VI
Listening and aking and practical exercise lesson and work groups       Mechanization of concentrated feed processing Types of feed processing Types of feed processing Types of feed mills Feed plant parts Grindersmixers and skills and work groups       1       theoretical 2       practical 2	case study Practical exercise and workgroups	Lecture and practical lesson	Green Forage Processing Equipment Forage Headers Dry Forage Equipment Hay Baler Parts maintenance work Operation and maintenance of green forage harvesters, operation and maintenance of balers	My knowledge and skills	1 theoretical 2 practical	seventh
Asking questions and listening practical exercise and workLecture and practical lessonMechanization of sheep fields devices Wool shearing machines and sheep spraying and dipping machinesMy knowledge and shills1Ask group work questionsLecture and practical lessonMechanization of poultry hatcheries types of hatcheries. egg grading equipment egg grading equipment egg grading equipment egg collection and maintenance of incubators Training on egg collection and grading devicesMy knowledge and skills1Mini-lesson work groupsLecture and practical lessonMechanization of poultry hatcheries types of hatcheries. grading equipment egg grading equipment egg grading equipment egg grading equipment egg grading devicesMy theoretical practical slaughterhouses A scientific trip to one of the poultry slaughterhouses and livestock massacres incubators Trainatenance of ventilation, cooling and lighting systems in manholes, parts, maintenance of and skillsMu theoretical theoretical gractical eleventPractical exercise and workgroupsLecture and practical lessonAutomatic manifolds and manholes, parts, maintenance of automatic feeders and practical lessonMy theoretical practical coperation, and maintenance of automatic feeders and practical lessonMy theoretical practical coperation, and maintenance of and skills1Asking practical generatorsLecture and practical lessonAutomatic manifolds and operation, and maintenance of generators work, the parts, the pounts and repairs for	Listening and asking practical exercise questions and work groups	Lecture and practical lesson	Mechanization of concentrated feed processing Types of feed mills Feed plant parts Grinders mixers Operation and maintenance of the feed mill and mixers	My knowledge and skills	1 theoretical 2 practical	VIII
Ask group work questionsLecture and practical lessonMechanization of poultry hatcheries types of hatcheries. egg grading equipment egg grading equipment egg grading equipment end operation and maintenance of incubators Training on egg collection and grading devicesMy knowledge and skills1 theoretical 2 practicalMini-lesson work groupsLecture and practical lessonPoultry slaughter mouses Slaughter mouse slaughter mouse waste A scientific trip to one of the poultry slaughterhouses and livestock massacresMy knowledge and skills1 theoretical practicalPractical exercise and workgroupsLecture and practical lessonVentilation and cooling systems, lighting systems in chicken fields Operation and maintenance of automatic feeders and manholes, parts, maintenance automatic feeders and manholesMy knowledge and skills1 theoretical practical practical lessonLecture and workgroupsLecture manholes, parts, maintenance automatic feeders and manholesMy knowledge and skills1 theoretical practical lessonLecture and practical questionsLecture manholes, parts, maintenance and mantenance of automatic feeders and manholesMy knowledge and skills1 theoretical practical practical practical lessonLecture questionsLecture and practical lessonMater pumps of all kinds, operation and maintenance of generator's work, the parts, the maintenance instructions, the calculation of the project's need .for generators Operation of generators and ma	Asking questions and listening practical exercise and work groups	Lecture and practical lesson	Mechanization of sheep fields Tools Spraying and dipping devices Wool shearing machines Training on shearing operation Maintenance of wool shearing machines and sheep spraying and dipping machines	My knowledge and skills	1 theoretical 2 practical	ninth
Lecture and practical lessonLivestock slaughterhouses Slaughterhouse Slaughterhouses A scientific trip to one of the poultry slaughterhouses and livestock massacresMy knowledge and skills1 theoretical practical eleventPractical exercise and workgroupsLecture and practical lessonVentilation and cooling systems, lighting systems in chicken fields Operation and maintenance of automatic feeders and manbolesMy knowledge and skills1 theoretical practical practical lessonLecture amage questionsLecture and practical lessonVentilation, cooling and lighting equipmentMy knowledge and skills1 theoretical practical practical lesson1 theoretical practical operation and maintenance of automatic feeders and manboles1 theoretical practical practical practical lesson1 theoretical practical operation, maintenance of and skills1 theoretical practical practical practical practical lesson1 theoretical practical operation, maintenance of pumps and repairs for holidays1 theoretical practical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical practical practical lesson1 theoretical p	Ask group work questions	Lecture and practical lesson	Mechanization of poultry hatcheries types of hatcheries. egg grading equipment egg grading equipment Operation and maintenance of incubators Training on egg collection and grading devices	My knowledge and skills	1 theoretical 2 practical	The tenth
Practical exercise and workgroupsLecture and practical lessonVentilation and cooling systems, lighting systems in .chicken fields Operation and maintenance of uentilation, cooling and lighting equipmentMy knowledge and skills1 theoretical 2 practical ask questionsLecture and practical lessonAutomatic manifolds and manholes, parts, maintenance of automatic feeders and manholesMy knowledge and skills1 theoretical 2 practicalLecture questionsLecture practical lessonAutomatic feeders and operation, maintenance of automatic feeders and manholesMy knowledge and skills1 theoretical practical practicalAsking practice questionsLecture practical practical lessonWater pumps of all kinds, operation, maintenance of pumps and repairs for holidaysMy knowledge and skills1 theoretical practical practicalAsking practice questionsLecture practical lessonGenerator's work, the parts, the maintenance instructions, the calculation of the project's need .for generators operation of generatorsMy knowledge and skills1 theoretical practicalAsking practice questionsLecture calculation of the project's need .for generators operation of generatorsMy knowledge and skills1 theoretical practicalAsking practice questionsLecture calculation of the project's need .for generators operation of generatorsFifteent and skills	Mini-lesson work groups	Lecture and practical lesson	Poultry slaughterhouses Livestock slaughterhouses Slaughter methods Manufacturing protein from slaughterhouse waste A scientific trip to one of the poultry slaughterhouses and livestock massacres	My knowledge and skills	1 theoretical 2 practical	eleventh
Lecture and practical questionsLecture manholes, parts, maintenance and practical lessonAutomatic manifolds and manholes, parts, maintenance and repair Operation and maintenance of automatic feeders and manholesMy knowledge and skills1 theoretical 2 practicalThirteent theoretical practical manholesAsking practice questionsLecture practical lessonWater pumps of all kinds, operation, maintenance and pumps and repairs for holidays1 theoretical maintenance of and skills1 theoretical practicalAsking practice questionsLecture lessonGenerators are the basis of the calculation of the project's need .for generators Operation of generators and maintenance of generators and maintenance of generatorsMy my theoretical practical1 theoretical practicalAsking practice questionsLecture maintenance instructions, the calculation of the project's need .for generators and maintenance of generatorsMy science practical1 theoretical practicalAsking practice questionsCalculation of the project's need .for generators operation of generatorsFifteent and skills	Practical exercise and workgroups	Lecture and practical lesson	Ventilation and cooling systems, lighting systems in .chicken fields Operation and maintenance of ventilation, cooling and lighting equipment	My knowledge and skills	1 theoretical 2 practical	twelveth
Lecture       Water pumps of all kinds, operation, maintenance and practice       1 theoretical practical         Asking questions       practical lesson       Operation, maintenance and pumps and repairs for holidays       My and skills       theoretical practical         Lecture       Generators are the basis of the generator's work, the parts, the practice questions       1 theoretical       1 theoretical         Asking practice questions       Lecture       Generators are the basis of the calculation of the project's need for generators maintenance of generators and maintenance of generators       My knowledge and skills       1 theoretical	ask questions	Lecture and practical lesson	Automatic manifolds and manholes, parts, maintenance .and repair Operation and maintenance of automatic feeders and manholes	My knowledge and skills	1 theoretical 2 practical	Thirteenth
Lecture         Generators are the basis of the generator's work, the parts, the practical questions         1           Asking practice questions         image: the part of the part	Asking practice questions	Lecture and practical lesson	Water pumps of all kinds, operation, maintenance and .repair Operation and maintenance of pumps and repairs for holidays	My knowledge and skills	1 theoretical 2 practical	fourteenth
	Asking practice questions	Lecture and practical lesson	Generators are the basis of the generator's work, the parts, the maintenance instructions, the calculation of the project's need for generators Operation of generators and maintenance of generators	My knowledge and skills	1 theoretical 2 practical	Fifteenth

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

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

> Infrastructure -12

method book

Required course books .1

	( Main references ( sources .2
Scientific journals, as well as research, letters and professors' theses in the same specialty	a . Recommended books and references ( scientific journals , (reports , 0000
www.google.com Location Animal Science Journal	<b>b</b> . Electronic references , websites

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

Technical Institute / Shatra	Educational institution -1			
	Scientific Department / -2			
Animal Production Techniques Department	Center			
English language	Course name / code -3			
present learning	Available forms of attendance -4			
Spring semester / first stage	season / year -5			
An hann in the dearman the southed and southed 20	Number of hours of study ( -6			
An nour in the classroom, theoretical and practical 50	( total			
2022	The date this description -7			
was prepared				
Course Objectives : Granting the student a diploma in the theoretical and practical -8				
aspects to serve the preparation of a graduate of a distinguished level and his				
.commitment to the practical arena				

	Course outcomes and methods of teaching, learning and assessment -9
	- A cognitive goals
	A1 - To familiarize the student with the concept of the English language
decorintion	A2 - The student will describe the types of English language
description	A 3- That the student knows the ways of expressing the English language
	That the student knows the rules of the English language -4
	A 5- To know how to classify English grammar
	A 6 - to know how to use the English language
	b Programmatic skills objectives
	B1 - That the student can distinguish between English grammar and general language
	B2 - To know the basics of the English language
	B 3- To know the importance of the English language
	Teaching and learning methods
	Explanation and clarification -1
	Lecture method -2
	Laboratory practical lessons -3
	Lessons and field visits -4
	Evaluation methods
	theory tests
	Practical tests
	Reports and Studies
	Quizzes Take daily quick exams
	Conducting monthly exams
	Conducting semester and final exams
	c Emotional and value goals.
	C 1- Thinking skill according to the student's ability
	C2 - Observation and Perception
	C5 - Analysis and interpretation
	C 4- r reparation and calendar
	D - skills of public and renabilitation transferred (other skills related to the viability of
	. ( employment and personal development
	-D1
	-D 2
	Course structure -10
	Required

Course

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	the first
ask questions	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	The second
Listen and ask questions	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 3 practical	the fourth

110	ctical	Lecture		Mv	1	Fifth
exe	rcise	and		knowledge	theoretical	1 mui
meeting	g and	practical		and skills	3	
lineeting	work	lesson		und sinns	practical	
gi	roups				r	
	Mini	Lecture			1	
L	esson	and			theoretical	
Discu	ission	practical		Му	3	
Pra	ctical	lesson		knowledge	practical	VI
Exe	ercise			and skills		
	and					
Workg	roups					
case	study	Lecture			1	
Prac	ctical	and		Му	theoretical	
exer	rcise	practical		knowledge	2	seventh
	and	lesson		and skills	practical	
workg	roups					
Liste	ening	Lecture			1	
and a	sking	and			theoretical	
pra	ctical	practical		Му	2	
exe	ercise	lesson		knowledge	practical	VIII
ques	stions			and skills		
and	work					
g	roups	τ.,			1	
A	sking	Lecture			theoretical	
ques	ond	mreation				
1:-4		practical		Му	<u>ک</u>	
nste	ening etion1	lesson		knowledge	practical	ninth
pra	oroico			and skills		
and	work					
and	roune					
g	roups	Lecture			1	
Ask g	group	and		Му	theoretical	
	work	practical		knowledge	2	The tenth
ques	stions	lesson		and skills	practical	
		Lecture			1	
Mini-le	esson	and		Му	theoretical	
	work	practical		knowledge	2	eleventh
gi	roups	lesson		and skills	practical	
Pra	ctical	Lecture			1	
exe	ercise	and		Му	theoretical	
				knowledge		twelveth
	and	practical			2	
workg	and roups	practical lesson		and skills	2 practical	
workg	and roups	practical lesson Lecture		and skills	2 practical	
workg	and roups ask	practical lesson Lecture and		and skills My	practical 1 theoretical	
workg	and roups ask stions	practical lesson Lecture and practical		and skills My knowledge	2 practical 1 theoretical 2	Thirteenth
workg	and roups ask stions	practical lesson Lecture and practical lesson		and skills My knowledge and skills	2 practical 1 theoretical 2 practical	Thirteenth
workg ques	and roups ask stions	practical lesson Lecture and practical lesson Lecture		and skills My knowledge and skills	2 practical 1 theoretical 2 practical 1	Thirteenth
workg ques	and roups ask stions sking	practical lesson Lecture and practical lesson Lecture and		and skills My knowledge and skills My	2 practical 1 theoretical 2 practical 1 theoretical	Thirteenth
workg ques A pra	and roups ask stions sking actice	practical lesson Lecture and practical lesson Lecture and practical		and skills My knowledge and skills My knowledge	2 practical 1 theoretical 2 practical 1 theoretical 2	Thirteenth
workg ques A pra ques	and roups ask stions sking actice stions	practical lesson Lecture and practical lesson Lecture and practical lesson		and skills My knowledge and skills My knowledge and skills	2 practical 1 theoretical 2 practical 1 theoretical 2 practical	Thirteenth
workgi ques A pra ques	and roups ask stions sking actice stions	practical lesson Lecture and practical lesson Lecture and practical lesson		and skills My knowledge and skills My knowledge and skills	2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1	Thirteenth
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workg ques A pra ques A pra ques	and roups ask stions sking actice stions sking actice	practical lesson Lecture and practical lesson Lecture and practical lesson	method boo	and skills My knowledge and skills My knowledge and skills My knowledge and skills	2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 mactical 2 practical 2 mactical 2 practical 2 mactical 2 practical 2 mactical 2 2 mactical 2 macti	Thirteenth fourteenth Fifteenth e -11 uurse books .1 es ( sources .2
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workg ques A pra ques A pra ques	and roups ask stions sking actice stions sking actice stions	practical lesson Lecture and practical lesson Lecture and practical lesson Lecture and practical lesson	method boo nals, as well as research, lette prs' theses in the same special	and skills My knowledge and skills My knowledge and skills My knowledge and skills Ok (	2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 pr	Thirteenth fourteenth Fifteenth e -11 uurse books .1 es ( sources .2 led books and tific journals , reports , 0000
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		Center			
	animal physiology	Course name / code -3			
	present learning	Available forms of attendance -4			
	Autumn semester / second	season / year -5			
	An hour in the classroom, theoretical and practical 75	Number of hours of study ( -6 ( total			
	2022	The date this description -7 was prepared			
	Course Objectives : Granting the student a diploma in aspects to serve the preparation of a graduate of .comm	the theoretical and practical -8 a distinguished level and his itment to the practical arena			
	Course outcomes and methods of teachi	ng, learning and assessment -9			
	A1 - The student will be familiar with the A 2. The student classifies knowledge of physiology on th	- A. Cognitive Objectives concept of animal physiology e basis of old and compared to			
	the scientific development th	eory information quotient has			
	A 3 - 1 hat the student separate between physiological of between concepts in the past an Information betwee	d the difference in modernity n the past and the present			
	A 4- The student learns how the body's organs work physiologically and what are the factors affecting them				
	A 5 - The student learns how to conduct physiological examinations about the organs of the body and what are the requirements necessary for that				
Course description	. b Skills objectives of the course B 1- Introduce the student to the concept of animal physiology				
	B 2 - The student's ability to study the various organs of the body in a scientific way B 3- Introducing students to how to use laboratory equipment to perform blood tests				
	Tea	ching and learning methods			
	Ε	xplanation and clarification -5			
		Lecture method -6			
	I	Laboratory practical lessons -7			
	Lessons and field visits -8				
		Evaluation methods			
		theory tests			
	Practical tests				
	Reports and Studies				
	Quizzes Take daily quick exams				
	Conducting monthly exams				
	- C Emotional and value objectives				
	• C Emotional and value objectives C 1 - The skill of thinking according to the student's ability and that the goal of this skill				
	is for the student to believe in w	hat is tangible and understand			
	. When, what and how he should think and improve the a	bility to think reasonably			
	C	2 - Observation and Perception			
	C	3- Analysis and interpretation			
		C 4- Preparation and calendar			
	C 5- Critica	l thinking strategy in learning			
	D - skills of public and rehabilitation transferred ( other a	skills related to the viability of			
	.( employm	ent and personal development			
		-D 1			

			Coi	arse structure	-10
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	Introduction to physiology, definition of animal physiology Learn about the body parts of cows, sheep and goats and the function of each part	My knowledge and skills	3 theoretical 2 practical	the first
ask questions	Lecture and practical lesson	The external parts of the animal and poultry body and the importance of some parts Identify the parts of the bird's body and the function of each part of the body	My knowledge and skills	3 theoretical 2 practical	The second
Listen and ask questions	Lecture and practical lesson	Digestive and circulatory anatomy of ruminants Digestive and circulatory anatomy of ruminants	My knowledge and skills	3 theoretical 2 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson	Anatomy of the respiratory and urinary systems in ruminants Anatomy of the respiratory and urinary systems in ruminants	My knowledge and skills	3 theoretical 2 practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	Anatomy of the bones, muscles and nervous system of ruminants Anatomy of the bones, muscles and nervous system of ruminants	My knowledge and skills	3 theoretical 2 practical	Fifth

Le Discus Prac Exe	Mini esson ssion ctical ercise and	Lecture and practical lesson	Digestive and circulatory anatomy of poultry Digestive and circulatory anatomy of poultry	My knowledge and skills	3 theoretical 2 practical	VI
case s Pract exerc workgr	study tical cise and roups	Lecture and practical lesson	Anatomy of the respiratory and urinary system in poultry Anatomy of the respiratory and urinary system in poultry	My knowledge and skills	- 3 theoretical 2 practical	seventh
Liste and as prac exe quest and v	ening sking etical ercise tions work roups	Lecture and practical lesson	Anatomy of bones, muscles and nervous system of poultry Anatomy of bones, muscles and nervous system of poultry	My knowledge and skills	2 theoretical 3 my work	VIII
As quest lister pract exerc and v gr	sking tions and ning tical cise work roups	Lecture and practical lesson	Animal body composition: muscle tissue, connective tissue, adipose tissue, bones Identify the muscle, ligament, fatty and bone tissues in the animal's body	My knowledge and skills	2 theoretical 3 my work	ninth
Ask g v ques	roup work tions	Lecture and practical lesson	Endocrine glands and their types in ruminants Identify the types and locations of endocrine glands in ruminants	My knowledge and skills	2 theoretical 3 my work	The tenth
Mini-le v gr	esson work oups	Lecture and practical lesson	Endocrine secretions and endocrine functions Methods of taking blood samples from the body of animals and birds	My knowledge and skills	2 theoretical 3 my work	eleventh
Prac exe workgr	ctical prcise and roups	Lecture and practical lesson	Neurological and hormonal control over various animal body activities Preserving the blood samples drawn from the animal, performing the plasma senaration process	My knowledge and skills	2 theoretical 3 my work	twelveth
quest	ask tions	Lecture and practical lesson	How to take samples of blood, ways to store them, and the procedures that take place on them before conducting laboratory tests, types of blood cells and the function of each .type Conducting laboratory tests on blood samples and watching red and white blood cells	My knowledge and skills	2 theoretical 3 my work	Thirteenth
As pra ques	sking ctice tions	Lecture and practical lesson	Determining the blood type of the animal, counting the number of blood cells ( red and white ) Performing the process of determining the blood type, counting the number of different blood cells	My knowledge and skills	2 theoretical 3 my work	fourteenth
As pra quest	sking ctice tions	Lecture and practical lesson	Diagnosis of diseases through blood tests and knowledge of blood contamination A visit to one of the nearby veterinary medicine colleges to see the components of the animal's body and various blood tests	My knowledge and skills	2 theoretical 3 my work	Fifteenth
-	Sc	ientific jour	method bo nals, as well as research, lette	ok (1	Infrastructure Required co Main reference a . Recommend erences ( scient	-11 urse books .1 s ( sources .2 ed books and ific journals
-	a	na protesso	www.google.com Locati Animal Science Journ	on b.Ele	(r ctronic referen	eports , 0000 ces , websites
course development plan -12 . Providing the possibility of academic support in organizing field visits - Providing the appropriate classroom environment that enables the teacher to diversify - . teaching strategies . Providing information technology in the campus library -						

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

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

Technical Institute / Shatra	Educational institution -1
Animal Production Techniques Department	Scientific Department / -2 Center
animal diseases	Course name / code -3
present learning	Available forms of attendance -4
Autumn semester / second	season / year -5
hours of theoretical and practical class 60	Number of hours of study ( -6 ( total
2022	The date this description -7 was prepared
Course Objectives : Granting the student a diploma in	the theoretical and practical -8
aspects to serve the preparation of a graduate of .comm	itment to the practical arena

Course outcomes and methods of teaching, learning and assessment -9

- A. Cognitive Objectives A 1- The student will be familiar with the concept of animal diseases A 2- The student should classify diseases on the basis of the type of causative agent and the type of animal affected A 3- That the student separate between epidemic and non-epidemic diseases and the difference in management programs dealing with them A 4- The student learns how to treat common diseases and the difference in treatment requirements between them A 5 - That the student learn how to establish integrated health programs in animal fields . to prevent the occurrence of diseases . b Skills objectives of the course B1 - Introducing the student to the concept of animal diseases B2 - The student's ability to evaluate health programs and compare them with old programs in terms of therapeutic efficiency and necessary supplies B 3- Introducing students to how to treat various diseases and the effect of real conditions on them from lighting . and ventilation Teaching and learning methods Explanation and clarification -9 Lecture method -10 Laboratory practical lessons -11 Lessons and field visits -12 **Evaluation methods** theory tests Practical tests **Reports and Studies** Ouizzes Take daily quick exams Conducting monthly exams Conducting semester and final exams - C Emotional and value objectives  ${\rm C}\,{\bf 1}$  - The skill of thinking according to the student's ability, and that the goal of this skill is for the student to believe in what is tangible and understand . When, what and how he should think and improve the ability to think reasonably C2 - Observation and Perception C 3- Analysis and interpretation C 4- Preparation and calendar C 5- Critical thinking strategy in learning D - skills of public and rehabilitation transferred ( other skills related to the viability of .( employment and personal development -D 1 Course structure -10

Required Evaluation education Unit name / course or topic learning hours the week method method outcomes Ouestions Introduction to physiology 1 Lecture and answers definition of animal physiology My theoretical and knowledge the first Learn about the body parts of mini 3 practical cows, sheep and goats and the and skills practical practical lesson function of each part lesson Lecture The external parts of the animal and poultry body and the theoretical and Mv practical importance of some parts ask -3 knowledge The second questions lesson Identify the parts of the bird's practical and skills body and the function of each part of the body Digestive and circulatory anatomy Lecture 1 Listen and My and of ruminants theoretical knowledge ask the third practical Digestive and circulatory anatomy 3 practical questions and skills lesson of ruminants Anatomy of the respiratory and Practical Lecture M٩ the fourth 1 knowledge exercise and urinary systems in ruminants theoretical and skills

Course description

meeting work g	g and roups	practical lesson	Anatomy of the respiratory and urinary systems in ruminants		3 practical	
Pra	ctical	Lecture	Anatomy of the bones, muscles		1	
exe	rcise, and	and practical	and nervous system of ruminants Anatomy of the bones, muscles	My knowledge	theoretical 3	Fifth
work gi	roups	lesson	and nervous system of ruminants	and skills	practical	1 1101
Mini L	esson	Lecture	Digestive and circulatory anatomy		1	
Discu	ission	and	of poultry Digestive and circulatory anatomy	My	theoretical	VI
Exercis	se and	lesson	of poultry	and skills	practical	,1
Workg	roups				•	
case Pra	study ctical	Lecture and	Anatomy of the respiratory and urinary system in poultry	Му	1 theoretical	
exercis	se and	practical	Anatomy of the respiratory and	knowledge	3	seventh
workg	roups	lesson	urinary system in poultry	anu skins	practical	
List and a	tening	Lecture and	Anatomy of bones, muscles and nervous system of poultry		1 theoretical	
pra	ctical	practical	Anatomy of bones, muscles and	Му	3	
exe	ercise	lesson	nervous system of poultry	knowledge	practical	VIII
and	work			and skins		
g	roups					
A	stions	Lecture and	Animal body composition: muscle tissue connective tissue adinose		1 theoretical	
and list	tening	practical	tissue, connective tissue, unpose	Му	3	
pra	nctical	lesson	Identify the muscle, ligament,	knowledge	practical	ninth
exercis	work		animal's body	anu skins		
g	roups					
Ask g	group	Lecture	Endocrine glands and their types	Му	1 theoretical	
	work	practical	Identify the types and locations of	knowledge	3	The tenth
que	stions	lesson	endocrine glands in ruminants	and skills	practical	
		Lecture	Endoaring segretions and		1 theoretical	
		practical	endocrine functions	Му	meorencai 3	
Mim-l work g	esson	lesson	Methods of taking blood samples	knowledge	practical	eleventh
	oups		from the body of animals and birds	and skills		
			bilds			
		Lecture	Neurological and hormonal		1	
Pra	ctical	and practical	control over various animal body	Mv	theoretical 2	
exercis	e and	lesson	Preserving the blood samples	knowledge	practical	twelveth
workg	roups		drawn from the animal,	and skills		
			performing the plasma separation process			
		Lecture	How to take samples of blood,		1	
		and practical	ways to store them, and the procedures that take place on		theoretical 3	
		lesson	them before conducting	Mv	practical	
ane	ask		laboratory tests, types of blood	knowledge		Thirteenth
que	suons		.type	and skills		
			Conducting laboratory tests on			
			blood samples and watching red and white blood cells			
		Lecture	Determining the blood type of the		1	
A	sking	and	animal, counting the number of	Mv	theoretical	
pra	ctice	lesson	Performing the process of	knowledge	3 practical	fourteenth
ques	stions		determining the blood type,	and skills	pructicui	
			counting the number of different blood cells			
		Lecture	Diagnosis of diseases through		1	
		and	blood tests and knowledge of		theoretical	
A	sking	lesson	A visit to one of the nearby	Му	3 my work	<b>D</b> *64 (1
prae ques	ctice		veterinary medicine colleges to see	knowledge		Fifteenth
que			the components of the animal's			
			and various blood tests			
				course deve	lopment plan	-11
	<b></b>		. Providing the possibility of academi	ic support in	organizing fie	eld visits -
	Pro	oviding the a	ppropriate classroom environment t	hat enables tl	topolin = -1	liversify -
			. Providing information	n technology	in the campus	ategies 5 library -
	1	Hosting expe	erts from outside the institute , or from	n the work e	nvironment fo	or which -
	the	y are prepa	ing to benefit from their expertise in to the	developing t actual needs	he course acc of the labor <b>n</b>	ording narket
			. to the		e e e e e e e e e e e e e e e e e e e	
				I	ntrastructure	-12
			method book	(	Required co	urse books .1
				( N	ain reference	es ( sources .2
	So	cientific jou	Irnals, as well as research, letters	a refe	rences ( scient	tific journals ,
	ء 	ind protess	sors meses in the same speciality		(r	eports , 0000
	www.google.com Location Animal Science Journal b. Electronic references, website					

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to

# achieve, demonstrating whether he has made maximum use of the available .learning opportunities. It must be linked to the description of the program

	Technical Institute / Shatra	Educational institution -1	
	Animal Production Techniques Department	Scientific Department / -2 Center	
	Animal breeding and improvement	Course name / code -3	
	present learning	Available forms of attendance -4	
	Autumn semester / second	season / year -5	
	hours of theoretical and practical class 60	Number of hours of study ( -6 ( total	
	2022	The date this description -7 was prepared	
	Course Objectives : Granting the student a diploma in	the theoretical and practical -8	
	aspects to serve the preparation of a graduate of .comm	a distinguished level and his item to the practical arena	
	Course outcomes and methods of teaching	ng, learning and assessment -9	
	A 1- The student will be familiar with the concept of rai	- A. Cognitive Objectives sing and improving an animal	
	A 2- Teaching the student to use and apply the	scientific methods of genetics,	
	On animals in order to benefit from them and produc generation differs from the other in	statistics, and education e successive generations, each its productivity and economy -A 3	
Course description		A 4	
		Skills objectives of the course	
	B1 - Introducing the student to the concept of anin	al breeding and improvement	
	B2 - The student's ability to know animals with good genetic traits		
	B 3- Introducing students to how to choose a good quality breeding herd		
	Tea	ching and learning methods	
		Explanation and clarification	
		Lecture method	
		Laboratory practical lessons	
		Lessons and field visits	
		Evaluation methods	
		Practical tests	
		Reports and Studies	
	Q	uizzes Take daily quick exams	
		Conducting monthly exams	
	Condu	cting semester and final exams	
	-C1	Emotional and value objectives	
	C 1 - The skill of thinking according to the student's abilit	y, and that the goal of this skill	
	is for the student to believe in wi	hat is tangible and understand	
	. when, what and now he should think and improve the a	Dility to think reasonably	
		2 - Observation and rerception	
		C 4- Preparation and calendar	
	C 5- Critica	l thinking strategy in learning	
	D - skills of public and rehabilitation transferred ( other	skills related to the viability of	
	employme	ent and personal development	

-D 1 -D 2

Course structure -10

the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
the first	1 theoretical 3 my work	My knowledge and skills	General foundation in the study of agricultural animals Examples and applications in genetics	Lecture and practical lesson	Questions and answers mini practical lesson
The second	1 theoretical 3 my work	My knowledge and skills	General basics about statistics (measures of dispersion and concentration Practical applications in concentration, scattering, and contrast	Lecture and practical lesson	ask questions
the third	1 theoretical 3 my work	My knowledge and skills	Lethal and semi-lethal genes To identify the most important essential and semi-eutrophic traits in agricultural animals	Lecture and practical lesson	Listen and ask questions
the fourth	1 theoretical 3 my work	My knowledge and skills	Farm animal husbandry and methods Applications of gene duplication factors	Lecture and practical lesson	Practical exercise, meeting and work groups
Fifth	1 theoretical 3 my work	My knowledge and skills	Internal education (relative education) Applications in finding the degree of kinship of agricultural animals	Lecture and practical lesson	Practical exercise, meeting and work groups
VI	1 theoretical 3 my work	My knowledge and skills	External Education (External Education) Finding the genetic equivalent of different traits	Lecture and practical lesson	Mini Lesson Discussion Practical

Exercise Workgr	and oups					
case s Prac exercise workgre	tudy tical and oups	Lecture and practical lesson	Selection of animals and quantitative and qualitative traits Finding the genetic equivalent of different traits	My knowledge and skills	1 theoretical 3 my work	seventh
Liste and as prac exer quest and v gro	ening sking stical rcise tions work oups	Lecture and practical lesson	Types of selection in animals Practical applications in finding hybrid power	My knowledge and skills	1 theoretical 3 my work	VIII
As quest and liste prac exercise	sking tions ening ctical e and work oups	Lecture and practical lesson	Objectives of improving animals for the purpose of milk production, disease resistance Fetal recurrence calculator	My knowledge and skills	1 theoretical 3 my work	ninth
Ask g v ques	roup work tions	Lecture and practical lesson	Reproductive efficiency, components of milk, body size in the animal Calculation of the coefficient of kinship	My knowledge and skills	1 theoretical 3 practical	The tenth
Mini-le work gro	sson oups	Lecture and practical lesson	Improving animals for meat production, the relationship of the environment with belonging, improving the breeding herds Practical applications in clan inheritance and applications on Hardy and WeinbergLaw	My knowledge and skills	1 theoretical 3 practical	eleventh
Prac exercise workgro	tical and oups	Lecture and practical lesson	Develop new breeds of meat animals, dual-purpose cattle Practical applications in clan inheritance and applications on Hardy and WeinbergLaw	My knowledge and skills	1 theoretical 3 practical	twelveth
quest	ask tions	Lecture and practical lesson	Sheep improvement, types and shapes of sheep, commercial herds, different breeds of sheep Identify the phenotypic characteristics of different sheep breeds	My knowledge and skills	1 theoretical 3 practical	Thirteenth
As pract quest	king tice tions	Lecture and practical lesson	Inheritance of clans, including changes in gene duplication, genetic variance Identify the phenotypic traits of different breeds of milk, meat and cattle	My knowledge and skills	1 theoretical 3 practical	fourteenth
As pract quest	king tice tions	Lecture and practical lesson	education and improve poultry to produce the meat , feel yen poultry to produce eggs Identify the phenotypic characteristics of different breeds of poultry, eggs, and meat	My knowledge and skills	1 theoretical 3 practical	Fifteenth
				course deve	lopment plan	-11
. Providing the possibility of academic support in organizing field visits - Providing the appropriate classroom environment that enables the teacher to diversify - teaching strategies						

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

Infrastructure -12	
Required course books .1	method book
( Main references ( sources .2	
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and professors' theses in the same specialty
b . Electronic references , websites	www.google.com Animal Science Journal

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

Technical Institute / Shatra	Educational institution -1
Animal Production Techniques Department	Scientific Department / -2 Center
fodder crops	Course name / code -3
present learning	Available forms of attendance -4
Autumn semester / second	season / year -5
hours of theoretical and practical class 45	Number of hours of study ( -6 ( total
2022	The date this description -7 was prepared
Course Objectives : Granting the student a diploma i	in the theoretical and practical -8

	Course outcomes and methods of teaching, learning and assessment -9
	- A. Cognitive Objectives
	. A 1 - Distinguish between different fodder crops and pastures
	A 2- Knowing the appropriate climatic conditions for the production of any of the
	different fodder crops and pastures
	A 3- Knowing the appropriate soil conditions ( soil type, soil acidity, soil salinity ) and
	, their impact on the production of any of the various fodder crops and pastures
Course description	A 4- Knowing the most appropriate operations needed to prepare the land for
·	cultivation, and how and when to perform them
	. A 5- Knowing the most important modern high- yielding varieties of each crop
	. b Skills objectives of the course
	A 1- Determining the different fodder crops and pastures that can be grown under
	. different environmental conditions
	A 2- Implementing all agricultural transactions in the optimal way and at the
	appropriate dates ( preparing the land for cultivation, planting operations,
	operations of serving and caring for the crop after planting, harvesting and preparing
	( the crop after harvest
	A 3- Interpretation of the results obtained from the application of all agricultural
	. treatments for each crop
	A 4- Giving technical recommendations for appropriate agricultural treatments for each
	crop and which maximize productivity . Keeping pace with modern technological
	development in the production of these crops, such as the ability to use modern
	. machines in all agricultural transactions from cultivation to harvesting
	. A 5- Keeping pace with the evolving needs of the external market through field visits
	A 6- Develop his skill in the implementation of some projects in the field of fodder and
	pasture crops production, such as : The work of a consulting office to follow up the
	production process from preparing the land for planting to harvesting, marketing and
	solving all problems facing the product
	Teaching and learning methods
	Explanation and clarification
	Lecture method Laboratory prostical lessons
	Laboratory practical ressons
	Evaluation methods
	theory tests
	Practical tests
	Reports and Studies
	Quizzes Take daily quick exams
	Conducting monthly exams
	Conducting semester and final exams
	- C Emotional and value objectives
	C 1 - The skill of thinking according to the student's ability, and that the goal of this skill
	is for the student to believe in what is tangible and understand
	. When, what and how he should think and improve the ability to think reasonably
	C2 - Observation and Perception
	C 3- Analysis and interpretation
	C 4- Preparation and calendar
	C 5- Critical thinking strategy in learning
	D - skills of public and rehabilitation transferred ( other skills related to the viability of
	.( employment and personal development

-D 1 -D 2

-10	irse structure	Cou			
the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
the first	1 theoretical 2 practical	My knowledge and skills	The importance of developing livestock and its relationship to feed production Nutrients in plant feed materials	Lecture and practical lesson	Questions and answers mini practical lesson
The second	1 theoretical 2 practical	My knowledge and skills	Classification of field crops according to economic importance Properties of forage crops	Lecture and practical lesson	ask questions
the third	1 theoretical 2 practical	My knowledge and skills	Fodder cultivation methods Botanical Description of Jet and Alfalfa	Lecture and practical lesson	Listen and ask questions
the fourth	1 theoretical 2 practical	My knowledge and skills	Maize production and use as a fodder crop Cultivation of fodder crops (jet, barley, alfalfa, soybeans)	Lecture and practical lesson	Practical exercise, meeting and work groups
Fifth	1 theoretical 2 practical	My knowledge and skills	Cultivation and production of the soybean crop Silage and its manufacturing stages	Lecture and practical lesson	Practical exercise, meeting and work groups
VI	1	Му	Drees production	Lecture	Mini

Lesson Discussion Practical Exercise and Workgroups	and practical lesson	The most important differences between the cereal and legume family	knowledge and skills	theoretical 2 practical	
case study Practical exercise and workgroups	Lecture and practical lesson	Concentrated feed materials, grains and influencing factors on it Botanical description of yellow corn and field follow-up	My knowledge and skills	1 theoretical 2 practical	seventh
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	Cultivation of the citrus crop Botanical description of soybeans	My knowledge and skills	1 theoretical 2 practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	Cultivation of alfalfa crop and its use as green fodder Collection and drying of feed forms	My knowledge and skills	1 theoretical 2 practical	ninth
Ask group work questions	Lecture and practical lesson	Cultivation of barley crop and its use as green fodder and concentrated fodder Manufacture of Drees, Conditions and Methods of Manufacture	My knowledge and skills	1 theoretical 2 practical	The tenth
Mini-lesson work groups	Lecture and practical lesson	silage production Crop service operations	My knowledge and skills	1 theoretical 2 practical	eleventh
Practical exercise and workgroups	Lecture and practical lesson	Almarai in Iraq Diagnose seeds and study the importance of phenotype	My knowledge and skills	1 theoretical 2 practical	twelveth
ask questions	Lecture and practical lesson	Natural plant, nutritional value Discussing seminars for students	My knowledge and skills	1 theoretical 2 practical	Thirteenth
Asking practice questions	Lecture and practical lesson	Observations about the natural pastures ( Information Network ) Watching recent scientific films about crop farms	My knowledge and skills	1 theoretical 2 practical	fourteenth
Asking practice questions	Lecture and practical lesson	Water resources, pasture animal care Watching scientific films about feed manufacturing ( Information Network )	My knowledge and skills	1 theoretical 2 practical	Fifteenth

course development plan -11

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

. Providing information technology in the campus library -

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

Infrastructure -12	
Required course books .1	method book
( Main references ( sources .2	
a . Recommended books and references ( scientific journals (reports , 0000	Scientific journals, as well as research, letters and professors' theses in the same specialty
b . Electronic references , websites	www.google.com Location Animal Science Journal

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

Technical Institute / Shatra	Educational institution -1
Animal Production Techniques Department	Scientific Department / -2 Center
animal feed	Course name / code -3
present learning	Available forms of attendance -4
Autumn semester / second	season / year -5

	hours of theoretical and practical class 60	Number of hours of study ( -6 ( total		
	2022	The date this description -7 was prepared		
	Course Objectives : Granting the student a diploma in the theoretical and practical -8 aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical arena			
	Course outcomes and methods of teachi	ng learning and assessment -9		
	. A 1- The student will be familiar with th A 2 - The student should classify ruminants on th	- A. Cognitive Objectives ne concept of ruminant feeding e basis of production, age, and		
	A 3 - That the student separate between feeding run - managing it in the past, a	ninants in the modern era and nd the difference in programs		
	A 4 - The student learns how to feed cows and sheep mi - and the e	lik animals or Oslo is the meat difference in the requirements ducation between the two		
	A 5- That the student learn how to establish poultry bree . equi Humidit	ding halls and the appropriate pment for breeding from heat ty, lighting and ventilation		
	 B 1. Definition of the concept of th - B 2 - The student's ability to evaluate the projects of m - them with the old	o Skills objectives of the course e student feeding of ruminants odern ruminants and compare projects in terms of production		
	B 3- Introducing students to how to set up lighting and . calculate t For both n	and supplies ventilation systems and how to he area allocated for education nilk cows. meat and sheen		
	Tea	ching and learning methods		
		Explanation and clarification Lecture method		
		Lessons and field visits		
		Evaluation methods		
		theory tests Practical tests Reports and Studies		
Course description	Q Condu	uizzes Take daily quick exams Conducting monthly exams acting semester and final exams		
	- C ] C 1 - The skill of thinking according to the student's abilit	Emotional and value objectives y, and that the goal of this skill		
is for the student to believe in what is tangible and us . When, what and how he should think and improve the ability to think reason				
C 3- Analysis and interpreta C 4- Preparation and caler				
	C 5- Critica	al thinking strategy in learning		
	D - SKIIS OF PUBLIC and renabilitation transferred ( other	ent and personal development		

-D 1 -D 2

-10	Course structure					
the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method	
the first	1	My	Digestive system of ruminants	Lecture	Questions	
	theoretical	knowledge	(parts, functions, evolution of the	and	and answers	
	3	and skills	system	practical	mini	
	practical		Anatomy of the digestive systems	lesson	practical	
	-		of agricultural animals) cows,		lesson	
			sheep, poultry, rabbits and fish			
The	1	My	glands attached to the system and	Lecture	ask	
second	theoretical	knowledge	their functions	and	questions	
	3	and skills	Anatomy of the digestive systems	practical		
	practical		of agricultural animals) cows,	lesson		
			sheep, poultry, rabbits and fish			
the third	1	Му	Digestion and absorption of the	Lecture	Listen and	
	theoretical	knowledge	food components of the feed,	and	ask	
	3	and skills	simple and complex carbohydrates	practical	questions	
	practical		Conducting a digestion	lesson		
			experiment, rumen and duodenal orifice			
the fourth	1	Mv	Proteins, lipids and materials	Lecture	Practical	
	theoretical	knowledge	resulting from various metabolic	and	exercise,	
	3	and skills	processes	practical	meeting and	
	practical		Conducting a digestion	lesson	work groups	
			experiment, rumen and duodenal			
T:64				T (	<b>D</b> (* 1	
Fifth		My	Microbiology of the digestive	Lecture	Practical	
	theoretical	knowledge	system of ruminants, its types and		exercise,	
	3	and skills	functions	practical	meeting and	
	practical		Examination of substances inside	lesson	work groups	
			the digestive system, rumen and duodenum			
VI	1	My	The use of aprotic nitrogen	Lecture	Mini Lesson	
	theoretical	knowledge	substances in feeding ruminants	and	Discussion	
			the second s			

	3 practical	and skills	(types, feeding methods, poisoning The use of nitrogenous and non- protein materials in feeding ruminants	practical lesson	Exercise and Workgroups
sevent	1 theoretical 3	My knowledge and skills	Mineral salts and their importance in feeding ruminants, their types, functions and sources	Lecture and practical	case study Practical exercise and
	practical		Determination of mineral saits, their types and their importance to animals	lesson	workgroups
VI	1 theoretical 3 practical	My knowledge and skills	Feeding milk cows (nutritional needs of milk cows for different purposes, feeding systems, stages of female feeding stages of newborn	Lecture and practical lesson	Listening and asking practical exercise questions
			feeding, stages of male feeding, calculating the nutritional needs of milk cows and newborns, forming diets and calculating their ( components		and work groups
nint	1	Му	Feed materials used to feed dairy	Lecture	Asking
	theoretical 3 practical	knowledge and skills	cows (types, benefits, problems)( Calculating the nutritional needs of milk cows and newborns,	and practical lesson	questions and listening practical
			their components		and groups
The tent	1 theoretical 3	My knowledge and skills	Feeding beef and buffalo cows (nutritional needs for different purposes, feeding systems, feeding	Lecture and practical	Ask group work questions
	practical		Feeding beef cows and buffaloes and creating rations for them	lesson	J
atheisti	1	Му	Sheep and goats nutrition ( food	Lecture	Mini-lesson
te	theoretical 3 practical	knowledge and skills	needs for different purposes, stages of female nutrition, stages of newborn nutrition, male	and practical lesson	work groups
			nutrition ) Calculation of the nutritional needs of sheep for the various		
4	1	Mar	stages and the formation of diets	T france	Deve official
tweivet	theoretical 3	knowledge and skills	growth purposes ( growth, development ) Factors affecting	and practical	exercise and workgroups
	practical		growth nutritionally Calculation of the nutritional needs of sheep for the various	lesson	
Thirteent	1	Mv	stages and the formation of diets Nutritional needs of breeding	Lecture	ask
	theoretical 3	knowledge and skills	animals, the effect of nutritional needs on reproduction and fortilization in animals (energy	and practical	questions
	practical		protein, fats, minerals and (vitamins) Creating and calculating the	103501	
			nutritional needs of the diets of breeding animals		
fourteent	1 theoretical	My	Nutritional needs of fattening	Lecture	Asking
	3 practical	and skills	methods, feeding stages, feeding methods )	practical lesson	questions
			Formation of diets for fattening animals and methods of providing feed		
Fifteent	1 theoretical	My knowledge	Some metabolic and nutritional diseases affecting ruminant	Lecture and	Asking practice
	3 practical	and skills	animals ( bloat, gluttony, milk fever, preeclampsia, mineral ( deficiency, vitamin deficiency	practical lesson	questions
			Diagnosis of metabolic and nutritional diseases of ruminants (		
			gluttony , milk fever, food poisoning, deficiency of salts and ( vitamins		
plan -11 d micita	levelopment	Curriculum	Duoviding the		
d visits - versify - tegies	eaching strat	support in oi it enables the . t	providing the possibility of academic propriate classroom environment that	oviding the ap	Pro
library - r which - rding arket	the campus l ironment for course accourse for the labor ma	technology in the work env leveloping the ctual needs of	Providing information . ts from outside the institute , or from ng to benefit from their expertise in d . to the ac	Hosting exper y are preparii	I they
cture -12	Infrastruc				
rse books . ( sources .	Required cou in references	( Ma	method book		
d books an	Recommende	a.1	nais as well as research letters	cientific iour	

This course description provides a brief summary of the most important

**b** . Electronic references , websites

www.google.com Location Animal Science Journal

	characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program		
	Technical Institute / Shatra	Educational institution -1	
	Animal Production Techniques Department	Scientific Department / -2 Center	
	Meat preservation and processing	Course name / code -3	
	present learning	Available forms of attendance -4	
	Autumn semester / second	season / year -5	
	hours of theoretical and practical class 60	Number of hours of study ( -6 ( total	
	2022	The date this description -7 was prepared	
	Course Objectives : Granting the student a diploma i aspects to serve the preparation of a graduate o .comn	n the theoretical and practical -8 f a distinguished level and his nitment to the practical arena	
	Course outcomes and methods of teaching	ng, learning and assessment -9	
	A 1 - The student will identify the sources of meat producti	A Cognitive objectives on and methods of preserving it	
	A 2- Be able to understand the economic and nutritional importance of meat production		
Course description	A3 - Be able to know how meat products are manufactured		
	A 4 - to recognize modern methods of preservation and canning of meat		
	A 5- He should be familiar with the methods used to detect corruption and contamination of meat and meat products		
	B - Skills objectives of the course		
	B 1- Introduce the student to the sources of meat production		
	B 2. The student 's ability to understand how to get to the best investment for the		
	efficiency of	the production of animal meat	
	B3 - Students should know the best way to manufactu	re and preserve meat products	
	Tea	ching and learning methods	
		Explanation and clarification	
		Lecture method	
		Lessons and field visits	
		Evaluation methods	
		theory tests	
Course description		Practical tests	
		Reports and Studies	
	Q	uizzes Take daily quick exams	
	Condu	Conducting monthly exams	
		Emotional and value objectives	
	C 1 - The skill of thinking according to the student's abilit	y, and that the goal of this skill	
	is for the student to believe in w	hat is tangible and understand	
	. When, what and how he should think and improve the a	bility to think reasonably	
	C	2 - Observation and Perception	
	C 3- Analysis and interpretat		
C 4- Preparation and cale			
	l thinking strategy in learning		
	D - skills of public and rehabilitation transferred ( other s	skills related to the viability of	
	.( employme	ent and personal development	

-D 1 -D 2

-10	rse structure	Cou			
the week	hours	Required learning outcomes	Unit name / course or topic	education method	Evaluation method
the first	1 theoretical 3 practical	My knowledge and skills	Meat and its economic importance Solutions and Concentration Measurement	Lecture and practical lesson	Questions and answers mini practical lesson
The second	1 theoretical 3 practical	My knowledge and skills	Animal body parts and chemical compositions of meat Analysis of the main components of meat	Lecture and practical lesson	ask questions
the third	1 theoretical 3 practical	My knowledge and skills	Preparation before slaughter and its importance, the different methods of slaughter The effect of different chemicals on the color of meat	Lecture and practical lesson	Listen and ask questions
the fourth	1 theoretical 3 practical	My knowledge and skills	Meat palatability factors. The percentage of dressing in meat Preserving meat by salting, preparing solutions and tools, and performing the meat preservation process	Lecture and practical lesson	Practical exercise, meeting and work groups
Fifth	1 theoretical 3 practical	My knowledge and skills	Meat preservation methods Preservation by smoking: a smoke-up procedure for a meat model	Lecture and practical lesson	Practical exercise, meeting and work groups
1					

VI	1	Му	Meat cutting. Minced meat	Lecture	Mini
	theoretical	knowledge	)Alsosj industry and	and	Lesson
	3	and skills	Alembrker ) Preserving meet by conning	practical	Discussion
	practical		Forms of meat suitable for	lesson	Practical
	-		canning		Exercise
					and
					Workgroups
	1		Meat cooking methods (dry,	Lecture	case study
	theoretical	Mv	wet) The importance of the	and	Practical
seventh	3	knowledge	meat cooking process	practical	exercise
seventii	practical	and skills	Preserving meat by drying	lesson	and
	practical	and skins		1035011	workgroups
	1		Meat snoilage and snoilage	Lecture	Listening
	theoretical		Meat preservation by	Lecture	and asking
	2	Mv	refrigeration and freezing	nreation	practical
VIII	J mmostical	Importados		practical	practical
vIII	practical	and shills		lesson	exercise
		and skins			questions
					and work
	1			<b>T</b>	groups
			The massacres: their	Lecture	Asking
	theoretical	My	importance: their design	and	questions
ninth	3	knowledge	Microbial examination of	practical	and
	practical	and skills	halloumi	lesson	listening
		und sinns			practical
					and group
					exercises
	1		Manufacture of meat by-	Lecture	
	theoretical	Му	products and methods of	and	Ask group
The tenth	3	knowledge	The effect of nH on the actual	practical	work
	practical	and skills	water carrying capacity of	lesson	questions
			meat		
	1	Mv	Fish evaluation, nutritional	Lecture	Mini-lesson
atheistic	theoretical	knowledge	value of fish, methods of	and	work
ten	3	and skills	The sausage and hamburger	practical	groups
	practical	and skins	industry	lesson	groups
	1		Chemical composition of fish,	Lecture	
	theoretical	My	decomposition and rancidity	and	Practical
twelveth	3	knowledge	percentages of what fish	practical	exercise
	practical	and skills	contain according to their	lesson	and
			types of protein, fat, water		workgroups
	1		Meat cooking methods	<b>T</b> ,	
	1 theor-t1	My	composition of broiler	Lecture	
Thirteenth	ineoretical	knowledge	chickens, turkeys, quails, hens.	and	ask
	3	and skills	(eggs	practical	questions
	practical		fish meal industry	lesson	
	1		Modern and new technology	Lecture	
	theoretical	Mv	nrenaring turkeys quaits and	and	Asking
fourteenth	3	knowledge	broilers, and how to market	practical	practice
	practical	and skills	them	lesson	questions
			Sensory and chemical tests to		
			enhance meat quality	<b>T</b> .	
	1	Mv	and fish and how to control it	Lecture	Asking
Fifteenth	theoretical	knowledge	A scientific visit to the meat	and	practice
	3	and skills	slaughterhouse	practical	questions
4.4	practical			lesson	•
-11	elopment plan	course deve			

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

. teaching strategies . Providing information technology in the campus library -Hosting experts from outside the institute, or from the work environment for which -they are preparing to benefit from their expertise in developing the course according

. to the actual needs of the labor market

	Infrastructure -12
method book	Required course books .1
	( Main references ( sources .2
Scientific journals, as well as research, letters and professors' theses in the same specialty	a . Recommended books and references ( scientific journals , (reports , 0000
www.google.com Location Animal Science Journal	b . Electronic references , websites

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

Technical Institute / Shatra	Educational Institution .1
Department of Plant Production Techniques	Scientific Department / Center .2

			Computer Application / calculato	or	Course n	ame / code .3
	Blended /present and e- learning Forms of attendance available			e available .4		
			Autumn semester / first stage Semester / year .		ester / year .5	
		hou	rs of theoretical and practical class 4	5 Number of hours of study ( .6		s of study ( .6 ( total
	Date of preparation of this				tion of this .7	
	description					
	aspe	course Course C	blectives : Granting the student a dip the preparation of a graduate of a dist	tinguished le	neoretical an vel and his co .the pi	d practical .8 ommitment to ractical arena
			Course outcomes and methods	of teaching, l	earning and	assessment .9
			A1 - To familiarize the student with th	- A e concept of	. Cognitive O computer ap	bjectives
			A2 - The studen	t categorizes	the types of p	orograms
		<b>A</b> 4	A5 - The student sno	tistical study	of research p	orograms orograms
		A 5 - The	student assesses his knowledge of the a	pplications	through prac	tical tests
				Teaching ar	id learning m	ethods
				Explar	ation and cla method o	arification of lecture -
					Stude	ent totals -
				practical les	sons in the lal learning	boratory - how self -
					Evaluation n	nethods
				Quizzes (	Fake daily qu	ick exams
			С	onducting se	mester and fi	nal exams
	С 1	- The skill o	f thinking according to the student's a	- C Emotion bility, and th	al and value on the second s	objectives f this skill
			is for the st	tudent to bel	ieve in what i	s tangible
	Una	erstand whe	en, what and now to think and improv	e the ability	to think reas	onabiy
				C 2- Obse	rvation and l	Perception
			C5 - C	C4 - Pre	paration and	l calendar
	D -	skills of put	olic and rehabilitation transferred ( of	ther skills re	ated to the vi	ability of
			.( emp	loyment and	personal dev	elopment -D 1
						-D 2
						-D 3 -D 4
					Course	Structure .10
Evaluat methe	tion od	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Ques	stions	Lecture	Networking concept Networks	Me	1	
and ans	mini	and	And its types, the concept of	knowledge	theoretical 2	- first
pra k	ctical	lesson	the internet internet, and fun it	and skills	practical	
	23501	Lecture	Description of the main screen,	Mv	1	
aues	ask tions	and practical	its components and how to connect with the World Wide	knowledge	theoretical 2	The second
1		lesson	(Web) Web	and skills	practical	
Listen	1 and	Lecture and	Take advantage of popular search engines like	Му	1 theoretical	
	ask	practical	,Google , Yahoo	knowledge	2	the third
ques	stions	lesson	Learn now to search for and access information	and skills	practical	
Pra	ctical	Lecture	a program ExcelFamiliarize	Me	1	
exer	rcise,	practical	program with its benefits,	knowledge	theoretical 2	the fourth
work gr	g and roups	lesson	specifications, features and	and skills	practical	
Pra	ctical	Lecture	Familiarize yourself with the		1	
exer	rcise,	and practical	main screen and its components and contain	My knowledge	theoretical	Fifth
meeting work gr	g and coups	lesson	various effective menus and	and skills	practical	
Mini L	esson	Lecture	toois		1	
Discu	ssion	and	The concept of the cell, the	Му	theoretical	<b>X</b> / <b>X</b>
Prac	ctical e and	practical lesson	basic types of bits and how to enter them	knowledge and skills	2 practical	VI
Workgr	oups	<b>.</b>			F	
Case s	study	Lecture and	How to save a page Works license And Work book Close		1 theoretical	
exercise	e and	practical	the program, close the file,	knowledge	2	seventh
	work	lesson	and perform simple	and skills	practical	
gr Liste	oups	Locture	mathematical operations		1	
and as	sking	and			1 theoretical	
prac	ctical	practical	Learn how to adjust or format	My	2	3/111
ques	tions	1055011	single cell or group of cells	and skills	practical	V 111
and	work					
As	sking	Lecture	Learn different ways of	Му	1	ninth
ques	tions	and	collecting data or a group of	knowledge	theoretical	

	2 practical	and skills	cells	practical lesson	and listening practical exercise and work groups
The tenth	1 theoretical 2 practical	My knowledge and skills	How to sort the data and use some of the functions provided by the program such as Count SQRT, Ave, Sumi, Min, Max And other related useful statistical functions	Lecture and practical lesson	Ask group work questions
eleventh	1 theoretical 2 practical	My knowledge and skills	To learn about the vaccination process Edit Provided by the software, how to copy data or transfer data	Lecture and practical lesson	Mini-lesson work groups
twelveth	1 theoretical 2 practical	My knowledge and skills	And learn about the concept of copying arithmetic operations, as well as the concept of relative cells (Relative)   and absolute cells (Absolute) Control the cell process by changing its style and layout through the use of formatting tools	Lecture and practical lesson	Practical exercise and workgroups
Thirteenth	1 theoretical 2 practical	My knowledge and skills	Dealing with schemas Chart And how to convert digital and text bytes to charts of various kinds through Charts Saher (Chart Wizard) and learn how to make adjustments and revisions provided by the program	Lecture and practical lesson	Practical exercise and workgroups
fourteenth	1 theoretical 2 practical	My knowledge and skills	Learn how to add or delete rows or columns on the work page	Lecture and practical lesson	Practical exercise and workgroups
Fifteenth	1 theoretical 2 practical	My knowledge and skills	print data digital or diagrams	Lecture and practical lesson	Practical exercise and workgroups

**Course Development Plan .11** 

. Providing the possibility of academic support in organizing field visits -

Providing the appropriate classroom environment that enables the teacher to diversify -. teaching strategies

. Providing information technology in the campus library -Hosting experts from outside the institute, or from the work environment for which -

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

Infrastructure.	12
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Required course books .1	Computer Fundamentals Book, Part One and Two
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
<b>b</b> . Electronic references , websites	www.google.com Location

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

Educational institution -1	Technical Institute / Shatra			
Scientific Department / -2 Center	Animal Production Techniques Department			
Course name / code -3	English language			
Available forms of attendance -4	present learning			
season / year -5	Autumn semester / second stage			
Number of hours of study ( -6 ( total	An hour in the classroom, theoretical and practical 30			
The date this description -7 was prepared	2022			
Course Objectives : Granting the student a diploma in the theoretical and practical -8				

aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical arena

Course outcomes and methods of teaching, learning and assessment -9 - A cognitive goals A1 - To familiarize the student with the concept of the English language A2 - The student will describe the types of English language A 3- That the student knows the ways of expressing the English language That the student knows the rules of the English language -4 A 5- To know how to classify English grammar A 6 - to know how to use the English language  $% \left( {{{\mathbf{F}}_{\mathbf{n}}}_{\mathbf{n}}} \right)$ b Programmatic skills objectives

**Course description** 

B1 - That the student can distinguish between English grammar and general language

B2 - To know the basics of the English language
B 3- To know the importance of the English language
Teaching and learning methods
Explanation and clarification
Lecture method
Laboratory practical lessons
Lessons and field visits
Evaluation methods
theory tests
Practical tests
Reports and Studies
Quizzes Take daily quick exams
Conducting monthly exams
Conducting semester and final exams
. c Emotional and value goals
C 1- Thinking skill according to the student's ability
C2 - Observation and Perception
C3 - Analysis and interpretation
C 4- Preparation and calendar
D - skills of public and rehabilitation transferred ( other skills related to the viability of
.( employment and personal development
-D1
-D 2

i.

	Course structure -10			-10	
Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	the first
ask questions	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	The second
Listen and ask questions	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 3 practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 3 practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson		My knowledge and skills	1 theoretical 3 practical	VI
case study Practical exercise and workgroups	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	seventh
Listening and asking practical exercise questions and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson		My knowledge and skills	1 theoretical 2 practical	ninth
Ask group work questions	Lecture and		My knowledge and skills	1 theoretical	The tenth

		practical				2 prestical	
Mini 1	2000	Lecture			Ma	1	
MIII1-16	work	and		kno	wledge	theoretical	eleventh
gı	roups	lesson		an	d skills	2 practical	
Pra	ctical	Lecture			Mv	1	
exe	ercise	and		kno	wledge	theoretical	twelveth
workgi	roups	lesson		an	d skills	practical	
	1-	Lecture			My	1	
ques	ask	practical		kno	wledge	theoretical 2	Thirteenth
1		lesson		an	d skills	practical	
A	sking	Lecture			My	1 theoretical	
pra	actice	practical		kno	wledge	2	fourteenth
ques	suons	lesson		an	J SKIIIS	practical	
A	sking	and		1	My	1 theoretical	E:fteenth
ques	stions	practical		an	d skills	2	Filteenth
		lesson				practical Infrastru	icture -12
			method boo	ok	()	Required co	urse books .1
	6-	iontific iour			(1 a	. Recommend	ed books and
	a	nd professo	nais, as well as research, letter ors' theses in the same special	rs ty	refe	rences ( scient (r	tific journals , reports , 0000
			www.google.com Locatio Animal Science Journ	on Ial	b . Elec	tronic referen	ces , websites
				co	urse dev	elopment plan	-11
			Providing the possibility of acader	nic su	pport in	organizing fi	eld visits -
	Pro	viding the ap	propriate classroom environment	that	enables t	he teacher to o . teaching stra	liversify - ategies
	F	losting exper	. Providing informati	on tee	hnology e work e	in the campus	s library - or which -
	they	are prepari	ng to benefit from their expertise i	in dev	eloping	the course acc	ording
			. to th	е асп	al needs	of the labor n	narket
	This	course de	escription provides a brief	sum	mary o	of the mos	t important
	chara achie	acteristics o eve, demon	of the course and the learning strating whether he has ma	outco de n	omes ex naximu	<pre>cpected of th m use of th</pre>	e student to e available
		.learnir	g opportunities. It must be lin	ked to	o the de	scription of t	he program
		A *	Technical Institute / S	Shatra	l	Educationa	Institution .1
		Reproductiv	e physiology and artificial insemin	nation	Sciel	Course	name / code .3
			present learning	Stor	For	ms of attenda Ser	nce available .4
		hou	urs of theoretical and practical cla	ss 75	ľ	Number of hou	irs of study ( .6
	2022					Date of prepa	total ) 7. ration of this
		Course	) his stires . Cronting the student s	dink	ma in th	a the enotice l	description
	asp	ects to serve	the preparation of a graduate of a	disti	nguished	l level and his	commitment to
						.the	practical arena
			Course outcomes and method	ls of t	eaching,	learning and	assessment .9
-					3,	A - cogni	tive goals
		A 2 - education	1- Knowledge of male and female students to artificial insemination	repro	ductive	organs and fu	nctions
		2 culcation			To	improve gene	etics
	A 3-10	earn ways to	save semen and laboratory tests of	t the o	ffectiver	less of the mal	e sperm d female eggs
	B1 -	Contributin	g to community service through c	B - onsul	Skills of tations i	jectives of the n all aspects of	program animal
	. Tı	raining the st	udent to carry out the process of a	rtific	ial inserr	pro protination in the	duction field -2
	В	3 - provide s . B 4. tr	tudents with the skills necessary to aining students to conduct detection	o cone on of j	luct labo pregnan	oratory tests o cy different de	f semen eviation
				Те	aching a	nd learning m	ethods
					Expla	nation and cl	arification
						stude	ent groups
			Scientific trips to follow	up on	Pra dairy ca	ctical lessons i ttle productio	n the field n projects
			to	r on		self-learnin	g method
-					Quizzes	Evaluation n Take daily qu	ick exams
				Cond	Con lucting s	ducting mont emester and fi	hly exams nal exams
	. C - emotional and value goals						

C 1 - The skill of thinking according to the student's ability, and that the goal of this skill is for the student to believe in what is tangible and understand when, what and how he . should think and work to improve the ability to think and solve problems - C2 - Observation and Perception - C3 - Analysis, interpretation and persuasion - C4 - Preparation and calendar

C 5- Critical thinking strategy in learning

D - skills of public and rehabilitation transferred ( other skills related to the viability of .( employment and personal development

D - verbal communication ( the ability to express ideas clearly and confidence in the 1 ( speech

(Team work- D - Teamwork ( work with confidence within the group 2 d - analysis of the investigation ( collection of information systematically to establish 3 ( scientific facts and principles of a solution to a particular problem ( d - Contact the written ( the ability to express yourself clearly in writing 4

Course Structure .10

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	The importance of artificial insemination and its relationship to genetic improvement, anatomy and physiology of the male reproductive system, testis cross .section The importance of artificial insemination	My knowledge and skills	1 theoretical 2 practical	the first
ask questions	Lecture and practical lesson	Identify the endocrine glands of the reproductive process and the hormones they secrete and define the reproductive process hormone, endocrine Physiology of the male reproductive system, the work of the testicles, the stages of sperm formation, the work of the ,epididymis, the penis scrotum	My knowledge and skills	1 theoretical 2 practical	The second
Listen and ask questions	Lecture and practical lesson	Puberty and sexual maturity and the factors affecting it (hereditary, (environmental	My knowledge and skills	1 theoretical 2 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson	Physiology of the female reproductive system, its anatomy, the work of each of its organs Anatomy of the female reproductive system, ovary, uterus, vagina, external genital opening, cross section for the ovary	My knowledge and skills	1 theoretical 2 practical	the fourth
Practical exercise, meeting and work groups	Lecture and practical lesson	The estrus cycle and its stages, the estrus period, the stages of the estrus cycle and the factors affecting it Physiology of the female reproductive system, the work of the ovary, the formation of eggs, the work of the female reproductive system	My knowledge and skills	1 theoretical 2 practical	Fifth
Mini Lesson Discussion Practical Exercise and Workgroups	Lecture and practical lesson	Ovarian work, oocyte formation, oocyte transfer, factors affecting it Method of semen collection: the objective of semen collection, treatment of the bull during the collection process, methods Various combination, artificial vagina, electrical stimulation	My knowledge and skills	1 theoretical 2 practical	VI
Case study Practical exercise and work groups	Lecture and practical lesson	Ovarian hormonal action, ovarian hormones related to reproduction, chemical composition Semen examinations, primary examinations, secondary examinations	My knowledge and skills	1 theoretical 2 practical	seventh
Listening and asking practical exercise questions and work groups	Lecture and practical lesson	Physiology of the male reproductive system, parts of the male reproductive system, the testes Dilution and preservation of semen, the most important diluents, methods of preparation	My knowledge and skills	1 theoretical 2 practical	VIII
Asking questions and listening practical exercise and work groups	Lecture and practical lesson	Male reproductive cell (sperm), male quantity, its external form, physiological characteristics, and its function Freezing and thawing of semen, methods of freezing, freezing, temperature, goals of freezing, thawing	My knowledge and skills	1 theoretical 2 practical	ninth
Ask group work questions	Lecture and practical lesson	Reproductive efficiency of males and females, reproductive efficiency of cows, reproductive efficiency of bulls, methods of examining organs, fertility, sterility, venereal diseases	My knowledge and skills	1 theoretical 2 practical	The tenth

**Course description** 

		Female fertilization methods,			
		fertilization process, tools used in			
		(vaccination, caveats (deficiencies			
		and the advantages			
	Lecture	Fertility and pregnancy, the			
	and	journey of the sperm inside the			
	practical	female reproductive system,			
	lesson	implantation, pregnancy	My		
Mini-less	on	Changes in the female	knowledge	theoretical	eleventh
work grou	ıps	reproductive system during	and skills	2	
		pregnancy		practical	
		Reproductive efficiency in bulls			
		and cows			
	Lecture	Pregnancy hormones (mother and			
	and	fatus) prograncy diagnosis (idea		1	
Praction	cal practical	(and henefits	My	theoretical	
exercise a	ind lesson	Prognancy diagnosis and	knowledge	theoretical	twelveth
workgrou	ips	definition presentions supplies	and skills	nreatical	
		scientific idea		practical	
	Looturo	Disting and their stages, shildhigh			
	Lecture	Births and their stages, childbirth,			
		stages of childbirth, natural			
	practical	childbirth, dystocia, placenta			
	lesson	retention, reversal			
		the womb			
		Modern tactics in reproductive		1	
8	ask	physiology, modern ideas in the	My	theoretical	
questio	ons	field of increasing the number of	knowledge	2	Thirteenth
1		births and checking pregnancy,	and skills	nractical	
		timing		pructicui	
		Ovulation, double ovulation,			
		methods of increasing the number			
		of eggs, hormones used, embryo			
		implantation tactics, external			
		fertilization, twin production			
	Lecture	Anatomy and physiology of the		1	
Aski	ing and	reproductive system of hens and	My theoretical		
practic	ce practical	roosters	knowledge	wledge fourt	fourteenth
questio	ons lesson	Learn about the reproductive	and skills	2	
		organs of hens and roosters		practical	
	Lecture	The use of artificial insemination		1	
Aski	ing and	in poultry	My		
practic	ce practical	Semen collection from roosters and	knowledge theoretical	Fifteenth	
questio	ons lesson	identification of semen	and skills	2	
•		characteristics of birds		practical	
			Co	urse Developi	nent Plan .11
		. Providing the possibility of academic	c support in a	organizing fi	d visits -
			c support my	- Summing In	

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

. Providing information technology in the campus library -

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

Infrastructure .12	
Required course books .1	method book
( Main references ( sources .2	Supporting resources for each course
a . Recommended books and references ( scientific journals , (reports , 0000	Scientific journals, as well as research, letters and theses of professors in the same specialty
<b>b</b> . Electronic references , websites	www.google.com Location

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

1. Educational Institution	Technical Institute / Shatra			
Scientific Department / Center .2	Animal Production Techniques Department			
Course name / code .3	poultry diseases			
Forms of attendance available .4	present learning			
Semester / year .5	Spring Semester / Second Stage			
0. ) Number of hours of study ( total	hours of theoretical and practical class 75			
7. Date of preparation of this description	2022			
Course Objectives : Granting the student a diploma in the theoretical and practical .8 aspects to serve the preparation of a graduate of a distinguished level and his commitment to the preparation of a graduate of a distinguished level and his commitment to the preparation of th				

Course outcomes and methods of teaching, learning and assessment .9

A - cognitive goals

.

A 1- Gain the capabilities in diagnosing, treating and controlling poultry diseases A 2- Providing students with cognitive abilities in knowing the importance of various common parasitic, viral, bacterial and fungal diseases

A 3- Learn the methods of diagnosing different diseases that affect poultry through clinical signs and anatomy

B - Skills objectives of the program

B1 - An overview of all diseases affecting poultry in Iraq

Identify viral and fungal diseases, bacterial diseases, nutritional deficiency diseases -2 B 3 - Providing the student with the ability to control and control poultry diseases and methods of treatment

					Teaching ar Explan	nd learning m nation and cla	ethods arification	
			Lapinition the characteristic of the second statement areas					
			Practical lessons in the field					
				Scientific trips t	o follow up o	n poultry fiel self-learnin	d projects g method	
					Onimas	Evaluation m	ethods	
					Cond	ucting montl	ick exams	
				С	onducting se	mester and fi	nal exams	
		C 1 - Th	e skill of thi	nking according to the student's abilit	. C - eme	otional and va	alue goals s skill is	
		fo	r the studen	t to believe in what is tangible and un	derstand wh	en, what and	how he	
			. she	ould think and work to improve the al	C2 - Observa	and solve pr	oblems ception	
				- C3 - Analys	sis, interpreta - C4 - Prena	ation and per	suasion dendar	
Course descripti			1.00	C 5- Cri	tical thinking	strategy in l	earning	
Course descripti	ION	D-	skills of put	blic and rehabilitation transferred ( of empl).	ther skills rel loyment and	ated to the vi personal devo	ability of elopment	
		D - 1	verbal comm	nunication ( the ability to express ide	as clearly and	d confidence i	in the 1 speech	
			(	Team work- D - Teamwork ( work w	ith confidenc	e within the g	group 2	
		d - 8	analysis of tl	ne investigation ( collection of informa ( scientific facts and principles of a	ition systema solution to a	tically to esta particular p	ıblish 3 roblem	
			(d-0	Contact the written ( the ability to exp	oress yoursel	f clearly in w	riting 4 Structure 10	
	Ev:	aluation nethod	education method	Unit name / course or topic	Required learning outcomes	hours	the week	
				Classification of poultry diseases	Jacomes			
				according to the pathogen and addressing the most important				
		Questions	Lecture	nutritional deficiency diseases and ways to prevent them, especially		1		
	and	answers mini	and practical	diseases caused by a lack of	knowledge	theoretical 2	the first	
		practical lesson	lesson	Anatomy of poultry and	and skills	practical		
	lesson			identification of the various parts of the bird's body and examination				
				of the various organs (digestive, (respiratory, urinary, reproductive				
			Lecture	Bacterial diseases such as				
			practical	cholera	Ma	1		
		ask questions	lesson	changes and pests caused by	knowledge	theoretical 2	The second	
		1		different diseases and how to diagnose disease states	and skills	practical		
				According to the anatomical (character (Salmonella and cholera				
			Lecture	Diagnosis and treatment of the				
	L	isten and	practical	mycoplasma, stinging colon, how	Му	1 theoretical		
		ask questions	lesson	to reduce it The most important symptoms	knowledge and skills	2 prostical	the third	
				that occur in the following diseases (mycoplasma, infectious cold)		practical		
			Lecture	Viral diseases, modes of				
			and practical	limiting their spread (such as				
		Practical	lesson	(Newcastle, bronchitis How does Newcastle disease	Му	1		
	me	exercise, eting and		appear, methods of transmission of the pathogen, the most important	knowledge and skills	theoretical	the fourth	
	work groups			symptoms, and how to diagnose	anu skins	practical		
				cases The disease, limiting its spread,				
	<u> </u>		Lecture	and emphasizing the vaccine used Diagnosis and treatment of the				
			and	following diseases: komboro, merck larvngitis and branchitic				
		Practical exercise.	lesson	The most important methods used	Му	1 theoretical	-	
	meeting and work groups			in the diagnosis and treatment of the following diseases: laryngitis,	knowledge and skills	2	Fifth	
				smallpox, merck, komboro and ways to control them		practical		
			Lecture	Identifying fungal diseases how to				
	Mi D	ni Lesson iscussion	and	diagnose, treat and control them,	My	1		
	Eve	Practical arcise and	practical lesson	(such as (Albergellus, Monília The most important fungal	knowledge	theoretical 2	VI	
	Wo	rkgroups		diseases and how they are transmitted, diagnosed and treated	unu skiils	practical		
	C	ase study	Lecture	To identify the most important	My	1 theoretical	seventh	
	exe	ercise and	and practical	parasites, ways of their spread and	and skills	cheoretical 2		
		work groups	lesson	how to reduce them (such as (coccidiosis, tapeworms		practical		
				Parasitic diseases, how to diagnose and treat them, limit their spread.				
	1		l	· · · · · · · · · · · · · · · · · · ·	l i i i i i i i i i i i i i i i i i i i	I I		

			economic importance	T4	T #=4-1 *	
			Identity the most important	Lecture	Listening	
	1	My	parasites and how to diagnose	practical	practical	
VIII	meoretical	knowledge	them, such as lice and lice	lesson	exercise	
	practical	and skills	External parasitic diseases, their diagnosis, treatment and limiting		questions and work	
			their spread		groups	
			The most important metabolic	Lecture	Asking	
	1		and limit their spread (gout,	and practical	questions	
ninth	theoretical	My	tendon slippage, fatty liver, cage	lesson	and listening practical	
	2	and skills	(paralysis		exercise and	
	practical		their importance, diagnosis and		work	
			treatment		groups	
			Diseases resulting from breeding	Lecture		
	1		their spread (predation, tendency	practical		
The tenth	theoretical	My knowledge	(to sleep	lesson	Ask group work	
	2 neosticol	and skills	The preventive program and how		questions	
	practical		for giving medicines and vaccines			
			to prevent disease			
			Disinfection and disinfectants used	Lecture		
			the appropriate disinfectant and	practical		
	1		use methods	lesson		
alayanth	theoretical	My	Disinfection (formalin and		Mini-lesson	
eleventii	2	and skills	Disinfection and disinfectants used		work groups	
	practical		in poultry, and how to choose the			
			appropriate disinfectant and			
			Receive new meals			
			Preventive programs used in	Lecture		
			poultry to limit the spread of	and		
	1 theoretical	My	diseases, how to conduct the used	practical lesson	Practical	
twelveth	2	knowledge	medicines	1055011	exercise and	
	practical	anu skins	The most common diseases as a		workgroups	
			to diagnose them			
			The most important medicines	Lecture		
			used in poultry, methods of giving	and		
	1		them to reduce the spread of	practical		
Thintsouth	theoretical T	My	The reasons for the death of	ask	ask	
Thirteenth	2	knowledge	poultry and how to conduct an		questions	
	practical		autopsy of the cases and to know			
			and whether they are			
			satisfactory or unsatisfactory			
			Diagnosis, treatment and	Lecture		
			following diseases: viral arthritis.	practical		
	1	Mv	encephalitis, hemorrhagic enteritis	lesson	Asking	
fourteenth	theoretical	knowledge	The most important vaccines used		practice	
	2 practical	and skills	them, such as Newcastle and		questions	
	pructicui		chicken pox vaccine			
			The Merck and the Campuro			
			A scientific visit to one of the	Lecture		
	1	Mv	poultry fields in the region	and	Asking	
Fifteenth	theoretical	knowledge	A scientific visit to one of the	practical	practice	
	2 practical	and skills	about the most important diseases	lesson	questions	
	r-ucucui		in it			
nent Plan .11	irse Developn	Cou				
ld visits -	organizing fie o toochor to d	support in (	Providing the possibility of academic propriate classroom environment th	widing the e	Duc	
itegies	teaching stra	at chables (f)	propriate classi oom environment in	muning the a	rro	
. Providing information technology in the campus library -						
r which -	vironment fo	the work en	ts from outside the institute , or fron	losting expe	H the	
arket	of the labor m	ctual needs (	is to benefit from their expertise in . to the a	are prepai	tney	
atmicture 19	¥£.					
urse books 1	Inira Required co		method book			
s ( sources .2	ain reference	( M	rting resources for each course	Supp		
Scientific journals, as well as research lotters a . Recommended books and				e,		
ific journals ,	ences ( scient	refer	professors in the same specialty	d theses of	and	
eports, 0000	(referen	h Fleet	www.google.com.Location	-		
ces, websites	i onic referen	o . Elect	www.yoogie.com Location			
important	f the most	ummary of	escription provides a brief s	course	This	
e student to	pected of the	tcomes exp	of the course and the learning ou	acteristics	char	
e available he program	use of the	to the des	suating whether he has made a opportunities. It must be linke	eve, aemo .learn	achi	
- p. sgrunn			J PP	.ioain		
stitution -1	ducational in	itra E	Technical Institute / Sha			
rtment / -2	ientific Depa	ent Sc	hal Production Techniques Departm	An		

						~				
				fish fa	rming	Course nan	ne / code -3			
				spring semester / s	second	nable forms of se	attendance -4 ason / year -5			
			ho	ours of theoretical and practical cl	ass 60 N	Number of hours of study ( -6 ( total				
		2022			Т	he date this des was p	scription -7 repared			
		Course Obje aspects	ctives : Granting the student a dip to serve the preparation of a grad	loma in the th luate of a dist .commitment	neoretical and p inguished level to the practic	practical -8 and his al arena				
				Course outcomes and methods of	f teaching, lea	rning and asse	ssment -9			
			- A. Cognitive Objectives . A1 - The student will be familiar with the concept of fish farming . A 2- That the student he exposed to water sources suitable for fish forming							
			A 5 - The stu	. A 3- Introduce the stu - A 4 - Definition of the dent should assess the cost of main	dent to ways student to fis itaining fish b	to develop fish h disease and t reeding and pi	nutrition reatment coduction projects			
Course desc	ription	B 2	- student 's abi	B 1 introduce students to the conc lity to evaluate modern education	b Skills ept of breedin systems and o	s objectives of t ig and product comparing of t	the course ion of fish raditional			
			]	B 3 enable students to analyze the	cost set up M	ishari product	- systems ion of fish			
					Teaching Expl	and learning m anation and cl	ethods arification			
					Lal	Lectur Doratory practic	re method cal lessons			
						Lessons and f Evaluation m	field visits nethods			
						tl Prac	eory tests tical tests			
					Quizzes	Reports a 5 Take daily qu	nd Studies ick exams			
					Cor Conducting s	ducting month semester and fi	hly exams nal exams			
		C1	- The skill of	thinking according to the student	- C Emotio 's ability, and	onal and value that the goal o	objectives f this skill			
		. W	hen, what an	is for the student to belie d how he should think and improv	ve in what is t ve the ability (	tangible and u to think reason	nderstand ably			
				-	C2 - Ob C 3- Ar	servation and l alysis and inte	Perception rpretation			
				С 5-	C 4- P Critical thin	reparation and king strategy in	l calendar 1 learning			
		D-	skills of publ	ic and rehabilitation transferred (	other skills r	elated to the vi	ability of			
				.( ല	nproyment an	u personal dev	-D 1 -D 2			
					Co	urse structure	-10			
	Evalua meth	tion od	education method	Unit name / course or topic	Required learning outcomes	hours	the week			
	Ques	tions	Lastura	Introduction to fish farming, its economic importance and		1				
	and ans	wers mini	and	the reasons for its rapid development	My knowledge	3 my work	the first			
	prac	tical	practical lesson	Fish farms and their various	and skills	-	the mist			
	le	sson	Lastura	Types of fish forms types of		1				
		ask	and	breeding, types of ponds	My	theoretical	The			
	ques	tions	practical lesson	and its different parts	and skills	3 my work	second			
	Lister	and	Lecture	Types and specifications of reared fish (carp and its types,	Му	1 theoretical				
	aues	ask tions	practical	tilapia) Breeding fish in the world, in	knowledge and skills	3 my work	the third			
	1		Lecture	the Arab world, and in Iraq Fish farming water		1				
	Prac exer	tical	and	(physicochemical characteristics, quantity)	Mv	theoretical				
	meeting and		lesson	The equipment used in the laboratory is a measuring	knowledge	5 my work	the fourth			
	gr	work oups		device, transparency microscope dissolved and	and skills					
			Lecture	Preparation for introducing a		1				
	Prac	tical	and practical	new meal of fish for breeding (preparing ponds, sources of		theoretical 3 my work				
	meeting	g and	lesson	Preparing the basins to receive	My knowledge	<u>,</u>	Fifth			
	gr	work oups		a new meal Maintenance of the basin parts, cleaning,	and skills					
				maintenance, sterilization, ,fertilization						
		Mini	Lecture	add the water Basin management and follow-	Му	1	VI			

Discu Pra Exe	esson ission ctical ercise	and practical lesson	up of water properties and ways to improve them Methods of improving culture water and treating specifications that are not	knowledge and skills	theoretical 3 my work	
Workg	and roups		suitable for breeding			
case Prac exei workg	study ctical rcise and roups	Lecture and practical lesson	Fish farming closed systems and cages (its advantages and objectives) Breeding cages Types of cages, parts, manufacture of cages, materials used in the industry, places to put cages	My knowledge and skills	1 theoretical 3 my work	seventh
List and a pra exe ques and g	ening sking ctical ercise stions work roups	Lecture and practical lesson	Reproduction in ponds, natural reproduction, artificial propagation, planning for fingerling production Reproduction in ponds, natural reproduction Maternal specifications, hormones used, pituitary gland extract hormone injection	My knowledge and skills	1 theoretical 3 my work	VIII
A ques liste prac exer and	sking stions and ening etical rcise work roups	Lecture and practical lesson	Artificial reproduction Planning for fingerling production Fish hatcheries, hatchery construction, main parts, complementary parts	My knowledge and skills	1 theoretical 3 my work	ninth
Ask g	group work stions	Lecture and practical lesson	Fish nutrition (needs for protein, carbohydrates - fats - salts, minerals and vitamins) Food and nutrition of fish, storage of feed, place and time of feeding, quantity of food, number of feeding times, factors Affecting the amount of food	My knowledge and skills	1 theoretical 3 practical	The tenth
Mini-le	esson work roups	Lecture and practical lesson	Follow up fish growth and feeding efficiency Preparation of diets, the method of calculating the components of complementary food	My knowledge and skills	1 theoretical 3 practical	eleventh
Pra exe workg	ctical ercise and roups	Lecture and practical lesson	The reality of fish farming in Iraq and ways to develop it Means used in fishing	My knowledge and skills	1 theoretical 3 practical	twelveth
ques	ask stions	Lecture and practical lesson	Fish diseases (definition of disease and factors of its occurrence - sign of disease in (ponds - types of diseases Examination of fish to identify internal and external parasitic infections using a microscope	My knowledge and skills	1 theoretical 3 practical	Thirteenth
A pra ques	sking actice stions	Lecture and practical lesson	Parasitic bacteria species viral species - country diseases - diseases arising from infection in the parasites Diagnosing Qatari bacterial and viral diseases and how to treat and prevent them	My knowledge and skills	1 theoretical 3 practical	fourteenth
A pra ques	sking actice stions	Lecture and practical lesson	Methods of fishing and preserving its flavour . Conservation and marketing of live fish A visit to one of the fish farms and to see the administrative and preventive works	My knowledge and skills	1 theoretical 3 practical	Fifteenth
			method bo	ok	Infrastru Required co	icture -12 ourse books .1
	Sc	ientific jour	nals, as well as research, lette	ers Ity re	Main reference a . Recommend ferences ( scient	es ( sources .2 led books and lific journals ,
			www.google.com Locati Animal Science Journ	ion nal b.Ele	(r ectronic referen	eports , 0000 ices , websites
	Pro	viding the ap losting exper	Providing the possibility of acade propriate classroom environmen . Providing informat ts from outside the institute, or fi	Curricult emic support i t that enables tion technolog rom the work	im development in organizing fit the teacher to o teaching stra y in the campus environment for the comuse acc	t plan -11 eld visits - liversify - ategies s library - or which - ording

## achieve, demonstrating whether he has made maximum use of the available .learning opportunities. It must be linked to the description of the program

Technical Institute / Shatra	Educational institution -1
Animal Production Techniques Department	Scientific Department / -2 Center
Banana manufacturing	Course name / code -3
present learning	Available forms of attendance -4
spring semester / second	season / year -5
hours of theoretical and practical class 60	Number of hours of study ( -6 ( total
2022	The date this description -7 was prepared
Course Objectives : Granting the student a diploma in	n the theoretical and practical -8
aspects to serve the preparation of a graduate o .comn	f a distinguished level and his nitment to the practical arena

Course outcomes and methods of teaching, learning and assessment -9
- A. Cognitive Objectives
A 1- To provide the student with the ability to plan for the management of dairy
factories
Increasing the student's awareness of the types of technology used in manufacturing -2
A 3- to expand the student 's understanding of the manufacturing methods used in the
industry
A 4 that the students are familiar with the scientific foundations for the manufacture of
. B - the skill objectives of the course
. B1 - That the student learn the skill of manufacturing all dairy products in general
B 2 - That the student learn how to operate and manage the work of industrial
. equipment
. B 3 - How to deal with equipment used in manufacturing and sterilization
Teaching and learning methods
Explanation and clarification
Lecture method
Laboratory practical lessons
Lessons and field visits
Evaluation methods
theory tests
Practical tests
Reports and Studies
Quizzes Take daily quick exams
Conducting monthly exams
Conducting semester and final exams
- C Emotional and value objectives
C 1 - The skill of thinking according to the student's ability, and that the goal of this skill
is for the student to believe in what is tangible and understand
. When, what and how he should think and improve the ability to think reasonably
C2 - Observation and Perception
C 3- Analysis and interpretation
C 4- Preparation and calendar
C 5- Critical thinking strategy in learning
D - skills of public and rehabilitation transferred ( other skills related to the viability of
.( employment and personal development
-D 1
-D 2

				Co	urse structure	-10
Course description	Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
	Questior and answer min practica lesso	ns Lecture rs and practical al lesson	Definition of milk and the importance of its production, including: the importance of milk as food for humans, the nutritional value of milk and its products. Milk production in Iraq and the problems it faces A visit to a field of milk cows and carrying out the process of milking to produce full-featured milk, and introducing the student to the dairy factory and the steps of dairy manufacturing	My knowledge and skills	1 theoretical 3 my work	the first
	as question	Lecture and practical sk lesson is	Milk components include: water, fats in milk, nutritional value of milk fat Sample definition n How to take a milk sample, types of samples. Sensory examinations: their definition Its characteristics and areas of use	My knowledge and skills	1 theoretical 3 my work	The second
	Listen an as question	Lecture and practical sk lesson ns	Milk components include: milk proteins, milk enzymes Examination of milk sediments and various examination methods, the mixed model method, the method of taking the model from the bottom of the milk basin	My knowledge and skills	1 theoretical 3 my work	the third
	Practica exercise	al Lecture e, and	Milk sugar (lactose), salts and minerals in milk, vitamins of milk	My knowledge	1 theoretical	the fourth

meeting work gi	g and roups	practical lesson	Estimation of milk fat percentage by different methods, including: Kerber and Babcock method, weighing methods (Majunier and .Roskotlib), indirect method	and skills	3 my work	
Pra exe meetin work g	ectical rcise, g and roups	Lecture and practical lesson	Milk contamination and diseases that can be transmitted through milk, sources of contamination to milk, types of diseases transmitted through milk Measurement of milk density, methods of adulteration of milk and how to detect it	My knowledge and skills	1 theoretical 3 my work	Fifth
Mini L Discu Pra Exercis Workgi	esson ission ctical se and roups	Lecture and practical lesson	Milk spoilage, including: poisoning of milk and its products, change in flavor, change in color Determination of acidity in milk titration methods. Milk percentage estimation, including: Formol method, tincture method, acidity determination method	My knowledge and skills	1 theoretical 3 my work	VI
case Pra exercis workg	study ctical se and roups	Lecture and practical lesson	Transactions that take place on milk in milk collection centers, including: How to produce clean milk, functions Assembly centers, their location Carrying out reduction tests on milk (rhizosphere, methylene blue), estimation of biting solids .and moisture in milk	My knowledge and skills	1 theoretical 3 my work	seventh
List and a pra exc ques and gı	tening sking ctical ercise stions work roups	Lecture and practical lesson	The transactions that take place on the milk in the factory, including: receiving the milk, filtering it, filtering it, adjusting the proportion of the milk .components Testing for brows: boiling, alcohol	My knowledge and skills	1 theoretical 3 my work	VIII
A ques and list pra exercis g	sking stions ening actical e and work roups	Lecture and practical lesson	Cheese industry, including: the economic importance of cheese, the nutritional value of cheese soft cheese manufacturing,	My knowledge and skills	1 theoretical 3 my work	ninth
Ask g ques	group work stions	Lecture and practical lesson	Cheese classification, soft cheese manufacturing steps Halloumi cheese manufacturing	My knowledge and skills	1 theoretical 3 practical	The tenth
Mini-le work gi	esson roups	Lecture and practical lesson	Fermented dairy industry : definition of pounds, types of fermentation, defects of milk, milk industry Yogurt manufacture (fermented milk), starter preparation	My knowledge and skills	1 theoretical 3 practical	eleventh
Pra exercis workgi	ctical e and roups	Lecture and practical lesson	Cream industry (precious): define the value of food cream, ways to get the cream, secretions, types of cream, cream accounts Sort, cream industry (decantation (and cyclones	My knowledge and skills	1 theoretical 3 practical	twelveth
ques	ask stions	Lecture and practical lesson	Butter industry: definition, importance of butter, method of making butter, making ghee (free (fat (Butter industry (local, churning	My knowledge and skills	1 theoretical 3 practical	Thirteenth
A prao ques	sking ctice stions	Lecture and practical lesson	Ice cream industry Deciduous : definition, ice cream industry, a, ice cream components <sup>A</sup> t <i>G</i> Ahm Manufacture of milk ice cream and ice cream . Mixture Components Calculations	My knowledge and skills	1 theoretical 3 practical	fourteenth
A prac ques	sking ctice stions	Lecture and practical lesson	Washing and cleaning materials ( types and uses ) Ice cream making steps, milky ice cream defects	My knowledge and skills	1 theoretical 3 practical	Fifteenth
			. Providing the possibility of academi	c support in	organizing fie	eld visits -
	Pro I they	oviding the a Hosting expe y are prepar	ppropriate classroom environment th . Providing information erts from outside the institute , or fror ing to benefit from their expertise in . to the	hat enables th n technology n the work en developing t actual needs	ne teacher to c . teaching stra in the campus nvironment fo he course acc of the labor n	liversify - ategies 5 library - 5 which - 6 ording 1 arket
			method book	1	Infrastru Required co	cture -12 urse books .1
	So	cientific jou and profess	Irnals, as well as research, letters sors' theses in the same specialty	( M a refer	lain reference . Recommend cences ( scient	es ( sources .2 ed books and ific journals , eports . 0000
		tronic referen	ces , websites			

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This course description provides a brief summary of the most important

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

Technical Institute / Shatra	Educational institution -1
Animal Production Techniques Department	Scientific Department /-11 Center
hatchery techniques	Course name / code-12
present learning	Available forms of-13 attendance
Spring Semester / Second Stage	season / year-14
An hour in the classroom, theoretical and 60 practical	Number of hours of study-15th ( ( total
2022	The date this description-16 was prepared
Course Objectives : Granting the student a diploma in aspects to serve the preparation of a graduate of .commi	the theoretical and practical -17 a distinguished level and his tment to the practical arena

	Course outcomes and methods of teaching, learning and assessment -18						
	- A - Cognitive goals						
	A1 - The student will be familiar with hatching and its types						
	A2 - The student will be familiar with the stages of fetal development						
	A3 - The student will be familiar with hatching machines						
Course description	A 4 - The student recognizes elements Hatching and factors affecting Hatching						
	B - Skills objectives of the course						
	B1 - The student learns eggs that are suitable for hatching						
	B2 - The student learns the requirements for hatching						
	<b>B</b> 3 - The student learns to set up hatching machines and manage the hatcher						
	Teaching and learning methods						
	Explanation and clarification						
	Lecture method						
	Laboratory practical lessons						
	Lessons and field visits						
	Evaluation methods						
	theory tests						
	Practical tests						
	Reports and Studies						
	Quizzes Take daily quick exams						
	Conducting monthly exams						
	C 1. Thisking skill according to the student's oblight						
	C 1- Thinking skill according to the student's ability						
	C2 - Observation and rerecption						
	C 4- Prenaration and calendar						
	D - skills of public and rebabilitation transferred ( other skills related to the viability of						
	( amployment and personal development						
	-D 1						
	-01						

	-D 2
Course structure	-19

Evaluation method	education method	Unit name / course or topic	Required learning outcomes	hours	the week
Questions and answers mini practical lesson	Lecture and practical lesson	The history of the development of the hatchery industry and its methods Learn about hatching machines, their types and specifications, the typical hatcher	My knowledge and skills	1 theoretical 3 practical	the first
ask questions	Lecture and practical lesson	Conditions that must be met in the eggs prepared for hatching, the treatment of the eggs in the fields of the mothers and during transportation Getting to know the scanning device and how it works	My knowledge and skills	1 theoretical 3 practical	The second
Listen and ask questions	Lecture and practical lesson	Poultry industry in Iraq / reasons for the deterioration of the poultry industry Identify the system of temperature, humidity, ventilation and agitation inside the hatcheries	My knowledge and skills	1 theoretical 3 practical	the third
Practical exercise, meeting and work groups	Lecture and practical lesson	The basic components of the hatching process Carrying out the cleaning, sterilization and fumigation process for the hatchery	My knowledge and skills	1 theoretical 3 practical	the fourth
Practical exercise,	Lecture and	Fetal development stages in eggs	My knowledge	1 theoretical	Fifth

meeting	g and work	practical lesson	Conducting the grading process and examining the eggs prepared for hatching	and skills	3 practical	
gr	oups	Lecture	Examination of eggs,		1	
Le	Mini esson	and practical	periods of fetal death, hatching mechanics, abnormal positions of the	Mv	theoretical 3	
Prac Exe	ctical ercise and	lesson	Laying eggs in the hatching machine and observing the daily development of the	knowledge and skills	practical	VI
Workgr	roups		Embryos during hatching (period (three weeks			
case s	study	Lecture	Fertility in chickens and the factors affecting it		1 	
Prac	tical	practical	Laying eggs in the hatching	Му	aneoreticai 3	
exer	cise .	lesson	daily development of the	knowledge	practical	seventh
workgr	and oups		fetus, noting deaths Embryos during hatching (period (three weeks	and skills		
		Lecture	Reasons for the low rate of		1	
Liste	ening	and	hatching and factors affecting the rate of		theoretical	
and as	sking stical	practical	fertilization in eggs	Mv	3 practical	
exe	rcise	lesson	prepared for hatching Laving eggs in the hatching	knowledge	practical	VIII
ques	tions		machine and observing the	and skills		
and	work		daily development of the fetus, noting deaths			
gr	oups		Embryos during hatching			
Δ	sking	Lecture	Production of biological		1	
ques	tions	and	eggs or programmed eggs produced from laying hens		theoretical	
1	and	practical	or turkeys, and what are	Ma	3 practical	
liste	ening	lesson	Its health and economic	knowledge	practical	ninth
prac	ctical		importance in the global	and skills		
and	work		market Fertility and hatchability			
gr	oups		ratio calculations			
		Lecture	Production of quail eggs,		3	
Ask g	group	and	the scientific basis for egg	Му	theoretical	
	work	practical	production	knowledge	2 practical	The tenth
ques	tions	lesson	Productive performance standards for broiler	and skills	practical	
		<b>.</b>	mothers			
Mini-le	esson	Lecture	Hatching and quality	Му	1 theoretical	
,	work	practical	industry	knowledge	2	eleventh
gr	oups	lesson	Fertility and hatching traits	and skills	practical	
		Lecture	The most important commercial egg-producing		1 	
		and practical	breeds, standard rates and		theoretical 2	
Prac	ctical	lesson	feed consumption schedules during the	Ma	practical	
exe	ercise		production period	knowledge	-	twelveth
worker	and		tables of table eggs	and skills		
workgi	oups		production and hatching			
			reports on the hatching			
			<b>Prooooo</b>			
		Lecture	Non-food feed additives.		1	
		Lecture and	Non-food feed additives, their effect on hatching	Mv	1 theoretical	
	ask	Lecture and practical	Non-food feed additives, their effect on hatching eggs, modern hatching techniques	My knowledge	1 theoretical 2	Thirteenth
ques	ask tions	Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students'	My knowledge and skills	1 theoretical 2 practical	Thirteenth
ques	ask tions	Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process	My knowledge and skills	1 theoretical 2 practical	Thirteenth
ques	ask tions sking	Lecture and practical lesson Lecture	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process	My knowledge and skills My	1 theoretical 2 practical	Thirteenth
ques As pra	ask tions sking	Lecture and practical lesson Lecture and practical	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks	My knowledge and skills My knowledge	1 theoretical practical theoretical 2	Thirteenth
ques As pra ques	ask tions sking actice tions	Lecture and practical lesson Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching	My knowledge and skills My knowledge and skills	1 theoretical 2 practical theoretical 2 practical	Thirteenth
ques As pra ques	ask tions sking ictice tions	Lecture and practical lesson Lecture and practical lesson Lecture	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks,	My knowledge and skills My knowledge and skills Mv	1 theoretical 2 practical theoretical 2 practical 2 practical	Thirteenth
ques As pra ques As pra	ask tions sking actice tions sking actice	Lecture and practical lesson Lecture and practical lesson Lecture and	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks	My knowledge and skills My knowledge and skills My knowledge	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical	Thirteenth fourteenth Fifteenth
ques As pra ques Pra ques	ask tions sking totice tions sking totice tions	Lecture and practical lesson Lecture and practical lesson Lecture and practical	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields	My knowledge and skills My knowledge and skills My knowledge and skills	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical	Thirteenth fourteenth Fifteenth
ques As pra ques As pra ques	ask tions sking ictice tions sking ictice	Lecture and practical lesson Lecture and practical lesson Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields	My knowledge and skills My knowledge and skills My knowledge and skills	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 practical	Thirteenth fourteenth Fifteenth
ques As pra ques As pra ques	ask tions sking totice tions sking totice	Lecture and practical lesson Lecture and practical lesson Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields method boo	My knowledge and skills My knowledge and skills My knowledge and skills	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 practical 6 <b>Infrastru</b> <b>Required co</b> <b>Iain reference</b>	Thirteenth fourteenth Fifteenth ecture -12 urse books .1 s ( sources .2
ques As pra ques As pra ques	ask tions sking actice tions sking actice tions	Lecture and practical lesson Lecture and practical lesson Lecture and practical	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields method boo	My knowledge and skills My knowledge and skills My knowledge and skills	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 practical 2 mractical 2 fractical 2 practical 2 nractical 2 practical 2 fractical 2 practical 2 fractical fractica	Thirteenth fourteenth Fifteenth icture -12 urse books .1 s ( sources .2 ed books and
ques As pra ques As pra ques	ask tions sking tctice tions sking cctice tions	Lecture and practical lesson Lecture and practical lesson Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields method boo	My knowledge and skills My knowledge and skills My knowledge and skills My knowledge and skills	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 1 theoreti	Thirteenth fourteenth Fifteenth icture -12 urse books .1 s ( sources .2 ed books and ific journals , 0000
ques As pra ques As pra ques	ask tions sking cetice tions sking cetice tions	Lecture and practical lesson Lecture and practical lesson Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields method boo	My knowledge and skills My knowledge and skills My knowledge and skills OK (M rs refe	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical <b>Infrastru</b> <b>Required co</b> <b>Iain reference</b> <b>. Recommend</b> <b>rences ( scient</b> (rences ( scient))	Thirteenth fourteenth Fifteenth acture -12 urse books .1 s (sources .2 d books and ific journals , eports , 0000 ces , websites
ques As pra ques As pra ques	ask tions sking cctice tions sking cctice tions <b>Sc</b> a	Lecture and practical lesson Lecture and practical lesson Lecture and practical lesson	Non-food feed additives, their effect on hatching eggs, modern hatching techniques Discussing students' reports on the hatching process Artificial hatching of poultry, especially turkeys and ducks Hatching with watching Dealing with adulterous chicks, marketing chicks A visit to one of the egg production fields method boo	My knowledge and skills My knowledge and skills My knowledge and skills My knowledge and skills My knowledge and skills OK (M rs ty Course deve	1 theoretical 2 practical 1 theoretical 2 practical 1 theoretical 2 practical 2 practical 2 practical 6 <b>Infrastru</b> <b>Required co</b> <b>Iain reference</b> <b>. Recommend</b> <b>rences ( scient</b> (ret <b>tronic referen</b>	Thirteenth fourteenth Fifteenth icture -12 urse books .1 s ( sources .2 ed books and ific journals , eports , 0000 ces , websites -11

. Providing the possibility of academic support in organizing field visits -

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

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

Technical Institute / Shatra	educational institution -1				
Animal Production Techniques Department	Scientific Department / -2 Center				
economics of animal production	Course name / code -3				
present learning	Available forms of -4 attendance				
Spring Semester / Second Stage	season / year -5				
hours of theoretical and practical class 30	Number of hours of study ( -6 ( total				
2022	The date this description -7 was prepared				
Course Objectives : Granting the student a diploma in the theoretical and practical -8 aspects to serve the preparation of a graduate of a distinguished level and his					

.commitment to the practical arena

	Course outcomes and methods of teaching, learning and assessment -9								
Course description	A - cognitive goals A 1- Teaching the student about the applications of the economics of natural resources in . agriculture in an economical way and compared to the technical aspect A 2 - The student's knowledge of the economic laws and economic principles used in the . field of agriculture, especially the animal production sector . A 3 - the optimal employment of the elements of agricultural production . A 4- How to achieve optimum levels of production								
			. A 5- How to	exploit natura	al and human	resources			
	B1	- Introducia	ng the student to agricultural econ	omics in gener	al and the eco	nomics of			
	вэ	The student	's ability to dotomning the lynewise	natura dao of the devi	l resources in	particular			
	B 2 -	B Z - The student's ability to determine the knowledge of the deviation in the optimal use of resources and production from the actual use of them							
		. B 3 - 1	Feaching the student how to achie	ve the econom	ic efficiency of	f the farm			
				Expla	nation and cla	arification			
				•	Lectur	e method			
					Evaluation m	iethods			
					th	eory tests			
				Quizzes	Take daily qu	ick exams			
				Con	ducting month	nly exams			
				. c En	notional and v	alue goals			
		C 1- Thinking skill according to the student's ability							
	C2 - Observation and Perception C3 - Analysis and interpretation								
	C 4- Preparation and calendar								
	D - s	D - skills of public and rehabilitation transferred ( other skills related to the viability of f employment and personal development.							
					- <b>F</b>	-D 1 -D 2			
				Cou	rse structure	-10			
Evalue	ation	advaation		Required					
meth	nod	method	Unit name / course or topic	learning outcomes	hours	the week			
0.00	tions		The importance of livestock		2				
Ques and an	suons swers	Lecture	economy, the economic	Mv	theoretical				
	mini	and	importance of animal	knowledge	0 practical	the first			
pra	ctical	lesson	importance of animal	and skills	practical				
1		1000011							
1	esson		products						
	esson	Lecture	products Agricultural economics: the		2				
1	esson	Lecture and	products Agricultural economics: the general concept of agricultural economics the		2 theoretical				
1	ask	Lecture and practical	products Agricultural economics: the general concept of agricultural economics, the emergence of agricultural	Му	2 theoretical 0	The			
ques	ask ask	Lecture and practical lesson	products Agricultural economics: the general concept of agricultural economics, the emergence of agricultural economics. The relationship of agricultural	My knowledge	2 theoretical 0 practical	The second			
ques	ask ask	Lecture and practical lesson	products Agricultural economics: the general concept of agricultural economics, the emergence of agricultural economics. The relationship of agricultural .economics to economics	My knowledge and skills	2 theoretical 0 practical	The second			
ques	ask stions	Lecture and practical lesson	products Agricultural economics: the general concept of agricultural economics, the emergence of agricultural economics. The relationship of agricultural .economics to economics	My knowledge and skills	2 theoretical 0 practical	The second			
ques	ask stions n and ask	Lecture and practical lesson Lecture and	products Agricultural economics: the general concept of agricultural economics, the emergence of agricultural economics. The relationship of agricultural .economics to economics Demand for animal products, demand	My knowledge and skills My knowledge	2 theoretical 0 practical 2 theoretical	The second the third			
ques Liste	ask stions n and ask stions	Lecture and practical lesson Lecture and	products Agricultural economics: the general concept of agricultural economics, the emergence of agricultural economics. The relationship of agricultural .economics to economics Demand for animal products, demand schedule, factors affecting	My knowledge and skills My knowledge and skills	2 theoretical 0 practical 2 theoretical	The second the third			

		practical lesson	demand, elasticity of demand for Animal Products, Factors Affecting Elasticity of Demand			0 practical	
Prace exer meeting gr	ctical rcise, g and work coups	Lecture and practical lesson	Supply of animal products, supply schedule, factors affecting supply, influencing factors .in flexibility of supply	kno ai	My owledge nd skills	2 theoretical 0 practical	the fourth
Prace exer meeting gr	ctical rcise, g and work coups	Lecture and practical lesson	Agricultural production: the concept of agricultural production, agricultural production factors, production functions, yield law diminishing	kno ai	My owledge nd skills	2 theoretical 0 practical	Fifth
Le Discus Prac Exe Workgr	Mini esson ssion ctical ercise and coups	Lecture and practical lesson	The principle of the best level of production	kno ai	My owledge nd skills	1 theoretical 0 practical	VI
case s Prac exerv	study tical cise and coups	Lecture and practical lesson	Substitution principle	kno ai	My owledge nd skills	2 theoretical 0 practical	seventh
Liste and as prac exe ques and gr	ening sking ctical ercise stions work coups	Lecture and practical lesson	production costs	kno ai	My owledge nd skills	2 theoretical 0 practical	VIII
As ques lister pract exerv and v gr	sking tions and ning tical cise work coups	Lecture and practical lesson	Marketing of animal products	kno ai	My owledge nd skills	2 theoretical 0 practical	ninth
Ask g ques	group work stions	Lecture and practical lesson	Livestock Project Management	kno ai	My owledge nd skills	2 theoretical 0 practical	The tenth
Mini-le gr	esson work coups	Lecture and practical lesson	Production patterns of animal production projects	kno ai	My owledge nd skills	2 theoretical 0 practical	eleventh
Prace exe workgr	ctical ercise and coups	Lecture and practical lesson	farm records	kne ai	My owledge nd skills	2 theoretical 0 practical	twelveth
ques	ask tions	Lecture and practical lesson	Livestock production project planning	kno ai	My owledge nd skills	2 theoretical 0 practical	Thirteenth
As pra ques	sking actice stions	Lecture and practical lesson	Bases and methods for evaluating livestock projects	kno ai	My owledge nd skills	2 theoretical 0 practical	fourteenth
As pra ques	sking actice stions	Lecture and practical lesson	Economic indicators and criteria for evaluating animal production projects	kno ai	My owledge nd skills	2 theoretical 0 practical	Fifteenth
			method bo	ok		Infrastru Required co	ucture -12 urse books .1
					( N	fain reference	es ( sources .2
	Sc a	ientific jour nd professo	nals, as well as research, lette prs' theses in the same special	rs Ity on	a refe	. Recommend rences ( scient (r	led books and tific journals , reports , 0000
			Animal Science Journ	nal	b . Elec	tronic referen	ces , websites
			× • • • •	c	ourse dev	elopment plan	-12
			Providing the possibility of acade	mic s	support in	organizing fi	eld visits -

Providing the appropriate classroom environment that enables the teacher to diversify -. teaching strategies

. Providing information technology in the campus library -

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

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

Technical Institute / Shatra	Educational institution -1			
Animal Production Techniques Department	Scientific Department / -2 Center			
The project	Course name / code -3			
present learning	Available forms of -4 attendance			
Spring Semester / Second Stage	season / year -5			
hours of theoretical and practical class 30	Number of hours of study ( -6 ( total			
2022	The date this description -7 was prepared			
Course Objectives : Granting the student a diploma in the theoretical and practical -8 aspects to serve the preparation of a graduate of a distinguished level and his .commitment to the practical arena				

	Course outcomes and methods of teaching, learning and assessment -9									
	A - cognitive goals									
	.A 1									
	-A 2									
	-A 3									
	-A 4									
	-A 5 B - the skill objectives of the course									
	- B 1									
	-B 2									
	- b 3									
				Teaching a	nd learning m	ethods				
				Explai	nation and cla	rification				
					Lecture	e metnoa ield visite				
					Evaluation m	ethods				
					the	eory tests				
					Reports an	d Studies				
				Quizzes 1	Fake daily qui	ck exams				
					ducting month	ly exams				
				Conducting se	mester and fin	al exams				
			C 1- Thinking	skill according	to the student	t's ability				
			01111111	C2 - Obse	rvation and Po	erception				
				C3 - Anal	ysis and inter	pretation				
				C 4- Pro	eparation and	calendar				
	D -	skills of publ	ic and rehabilitation transferred (	other skills re	lated to the via	ability of				
			.( em	ployment and	personal deve	elopment				
						-D1				
				Carry		-D 2				
				Coui	rse structure	-10				
Evalua	tion	education		Required						
meth	non ad	method	Unit name / course or topic	learning	hours	the week				
meun	Ju	memou		outcomes						
Quest	tions	Looturo	Preparing the barns to		0					
and ans	wers	Lecture	receive the animals and	My	theoretical					
	mini		determining the spaces,	knowledge	2	the first				
prac	tical	practical	allocated for them	and skills	practical					
le	sson	lesson								
		Lecture	Preparing the primary feed		0					
		and	materials and formulating		theoretical					
		practical	appropriate ration mixtures	Mv	2					
ask		lesson	them to animal groups for	knowledge	practical	The				
quest	tions		each ration group that	and skills	1	second				
			differs from the other for the	and skins						
			purpose of comparison							
		<b>T</b> .	between them							
<b>.</b> .,	,	Lecture	Purchasing, retining and		0					
Listen	and	and	field, taking care of them	My	theoretical	a				
	ask	practical	and placing them in groups	knowledge	2	the third				
quest	tions	lesson	according to	and skills	practical					
-			weights							
Prac	tical	Lecture	Conducting field operations		0					

2

the fourth

theoretical

practical

My

knowledge

and skills

and

exercise,

work

groups

meeting and

practical

lesson

and

Conducting field operations

(.diseases, numbering ... etc

(weighing, dosing against

Continuing the fattening

related to the project

Prac	ctical	Lecture	operations, making special	Му	0	Fifth to	
exer	rcise,	and	reports, and carrying out the	knowledge	theoretical	eleventh	
meeting	g and	practical	daily field operations of the	and skills	2		
•	work	lesson	project		practical		
gr	oups						
	Mini	Lecture	Prepare the requirements for		0		
Le	esson	and	start slaughtering animals		theoretical		
Discus	ssion	practical	by the students and apply	My	2		
Prac	ctical	lesson	what they have studied in	knowledge	practical	twelveth	
Exe	ercise		the subject	and skills			
	and		Meat production and cooling				
Workgr	roups		dav				
case s	study	Lecture	Cutting the carcasses after		0		
Praci	tical	and	weighing and according to	Mv	theoretical	thirteen	
ever	cise	practical	the scientific cutting system,	knowledge	2	and	
CACIO	and	lesson	studying the proportions of	and skills	practical	fourteen	
workar	oune	1035011	And the neck for carcasses	and skins	practical	Tourteen	
Liste	ning	Lecture	And the neek for careasses		0		
and or	ling	Lecture			theoretical		
and as	sking	mu	Calculate project costs	Me	alleoretical		
prac		practical	Comparison of animal	IVI y	<u>ک</u>	E:fter and	
exe	rcise	lesson	groups for a test group	knowledge	practical	Filteenth	
ques	tions		Featured	and skills			
and	work						
gr	oups						
				In	frastructure -	-11	
[					Required co	rse books .1	
				( M	ain reference	s ( sources .2	
	Sc	ientific iour	nals, as well as research, letter	s a	Recommende	ed books and	
	a	nd professo	ors' theses in the same specialt	y refer	ences ( scienti	fic journals,	
-			www.google.com Locatio	n	(R	ports , 0000	
			Animal Science Journa	b. Electronic references , websites			
[				course deve	lopment plan	-12	
			Providing the possibility of acaden	nic support in	organizing fie	ld visits -	
	Providing the appropriate classroom environment that enables the teacher to diversify -						

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