

**INSTITUTE OF CONTINUING EDUCATION & EXTENSION
(ICE&E)**

**CURRICULUM FOR
Calf Fattening
(4 – Months Course)**

**University of Veterinary & Animal Sciences
UVAS
Ravi Campus D-Block Pattoki**

TRAINING OBJECTIVES

This curriculum is designed for trainees to impart the skills & knowledge about the meat breeds and calves selection for fattening purpose. The trainee can earn reasonable income by fattening and selling the calves.

This curriculum covers introduction to different meat breeds of cattle, calves selection of animals for meat purpose, housing & management of feeding requirement of different classes of animals, introduction to green fodders, silage, hay making, and concentrate ,balanced ration formulation , introduction to parasites, their types and control, introduction to different infectious & non infectious diseases of calves.

CURRICULUM SALIENTS

Entry Level	Middle
Duration of course	4 – Months
Total Training Hours	400 Hours 25 Hours per Week 6 Days a Week
Training methodology	Practical 70% Theory 30%
Medium of Instructions	Urdu

- 1 Hour per week for Work Ethics

SKILL PROFICIENCY DETAILS:

On successful completion of this course, the trainee should be able to:

1. Identification of breeds
2. Selection of the animals for fattening
3. Preparing hay
4. Preparing silage
5. Feeding Management
6. Housing Management
7. Drenching/Deworming
8. Recording body temperature.

KNOWLEDGE PROFICIENCY DETAILS:

On successful completion of this course, the trainee should know:

1. Basic physiology of digestive system of animals
2. Feed ingredients & importance of balanced diet
3. Housing requirements and types of housing for calves
4. Preparation of Hay
5. Parasitism, its types & control
6. Emergency treatment/ First aid
7. Preparation of silage
8. Breed identification & selection methods

SCHEME OF STUDIES

Calf Fattening (4 Month Course)

Sr. #	Main Topics	Theory Hours	Practical Hours	Total Hours
1.	Theory	107	-	107
2.	Practical Training	10	270	280
3.	Work Ethics	3	10	13
Total		120	20	400

DETAIL OF COURSE CONTENTS

Calf Fattening (4– Month Course)

Sr. No.	Detail of Topics	Theory (Hours)	Practical (Hours)
1.	Work Shop Theory		
	1.1 Importance of livestock	02	
	1.2 Different beef breeds of animals	04	
	1.3 Management of small and large animals	02	
	1.4 Care of dam and new born, importance of colostrum & its feeding	04	
	1.5 Selection of calves	02	
	1.6 Selection of breeds for fattening purpose	04	
	1.7 Record keeping and its importance	02	
	1.8 Different housing systems	04	
	1.9 Functional anatomy of digestive system of ruminants	06	
	1.10 Introduction to concentrate/ration formulation		
	1.11 Introduction to different feed ingredients/ by products	04	
	1.12 Importance of balanced feeding and clean water to	04	

	animals		
	1.13 Dehorning and tagging of animals	04	
	1.14 Preparation of silage		
	1.15 Preparation of hay	04	
	1.16 Signs of health and disease	04	
	1.17 Principles of first aid treatment	04	
	1.18 Introduction to emergency/ First Aid Medicine	04	
	1.19 Non-Infectious diseases and their control (Tympany, Indigestion, Wound, Diahorria)	03	
	1.20 Infectious diseases and their control (Anthrax, B.Q, H.S ,E.T.T, FMD, Pox, CCPP)	04	
	1.21 Introduction to Metabolic Diseases & Control	04	
	1.22 Internal parasites (Trematodes, Nematodes, Cestodes) and their control,	04	
	1.23 Vaccine & its Types (Live, attenuated and killed)	02	
	1.24 Transportation and handling	04	
	1.25 Vaccination schedule for prevalent diseases	02	
	1.26 Animal feed ingredients (an introduction)	02	
	1.27 Forage production, Types of fodder, summer fodder, winter fodder	04	
	1.28 Nutritional requirements of animals.	04	
	1.29 Preservation of fodder. (Silage, Hay & Urea treatment)	04	
	1.30 Urea-Molasses Block	04	
	1.31 Concentrate and its types	02	
	1.32 Forage production	02	
2.	<i>Practical Training</i>		
	2.1 Demonstration of different body System of Animals		12
	2.2 Identification and physical characterization of common feed stuff		16
	2.3 Formulation of least cost balanced rations for		16

	fattening purpose		
	2.4 Visit to feed mills, processing units and calves fattening farm		16
	2.5 Demonstration of silage and hay making		
	2.6 Urea treatment of cereal straws		16
	2.7 Branding		16
	2.8 Ear tagging		04
	2.9 Castration		04
	2.10 Dehorning		06
	2.11 Shearing		04
	2.12 Spraying		04
	2.13 Housing management for fattening calves		04
	2.14 Feeding management		16
	2.15 Watering management		16
	2.16 Restraining and different methods of casting of animals		06
	2.17 Calves fattening farms visits		08
	2.18 Clinical examination of animals		14
	2.19 Different routes of drug administration		14
	2.20 Practice of first aid treatment of common wounds and broken horns		08
	2.21 Practical demonstration of First Aid Kit Tools		
	2.22 Vaccination Practice		16
	2.23 Deworming practice (field tours)		13
			16
3.	Work Ethics		13
	Proper sterilization & usage of minor equipment		
	Proper sanitation at farm premises	-	
	Biosecurity		
Total		120	280

LIST OF TOOLS AND EQUIPMENT
(FOR CLASS OF 25-STUDENTS)

Name of Trade	Calf Fattening
Duration of Course	04 – Months

Sr. No.	Tools / Equipments	Tools Quantity
1.	Burdizo Castrator	03
2.	Baby Castrator	03
3.	B.D Syringe	20
4.	Needles (14, 16, 18 Gauge)	0 1
5.	Microscope	02
6.	Drenching Gun	05
7.	Ropes	20
8.	Twitch	05
11.	Trocar & cannula	03
12.	Probang	04
13.	Mouth gag (Ruminants)	02
15.	Ear Tag Machine	05
16.	Electric Dehorner	02
17.	Ear Tags	01 Packet
18.	Cattle Crush	01

FURNITURE

S. No	Name of Article	Quantity
1.	Wooden stool (for students)	10
2.	Chair for teachers	02
3.	White board (3 ½ x 5ft) with stand	01
4.	Steel Almirah (4 x 7 ft)	02

EMPLOYABILITY OF PASS OUTS

The pass outs of this course can find job / Employment in following areas / sectors:-

1 Government & Private livestock sector

MINIMUM QUALIFICATION OF TEACHER/INSTRUCTOR

M. Sc (Veterinary Sciences)

OR

Doctor of Veterinary Medicine (DVM) with one year Experience

RECOMMENDED BOOKS

- 1) Calf Fattening by Prof. Dr. Makhdum Abdul Jabar
- 2) Animal & Poultry Feeding by Dr. Makhdum Abdul Jabbar, Dr. Anjum Khalique, Dr. Saeed Ahmad (ICE&E,UVAS)