

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<p><b>Essential Skills</b> (12 Credits)</p> <p>Course units in Animal Science (04 Credits)</p>	<p>Provide a thorough background in principles of the subject areas in <b>Animal Science</b>.</p> <p>Course units in Animal Science &amp; Food Science (28 credits)</p>	<p>Introduction of a advanced technology in value addition to selected areas of <b>Animal Science</b></p> <p>Course units in Animal Science &amp; Food Science (32 credits)</p>	<p>Application of knowledge gained in relevant areas of Animal Science to fulfill local needs, global trends, value addition to natural resources and evolving marketing trends</p> <p>Course units in Animal Science &amp; Food Science (09 Credits)</p>
<p><b>Broad General Education</b> (06 Credits)</p> <p>Course units in Animal Science &amp; Food Science (10 Credits)</p>	<p>Essential Skills (03 Credits)</p> <p>&amp;</p> <p>Broad General Education (06 Credits)</p>	<p>Essential Skills (01 Credit)</p> <p>&amp;</p> <p>Broad General Education (03 Credits)</p>	<ul style="list-style-type: none"> <li>• Industrial Training (Beginning of the academic year) (06 Credits) &amp;</li> <li>• Research Project (During the Second Semester) (08 Credits)</li> </ul>



## First Year

ANS 111-1 Introduction to Livestock Production

ANS 112-2 Basic Animal Nutrition

AQT 101-1 Principles of Aquaculture

EAG 152-0 Agricultural Meteorology and Climatology

ANS 113-2 Basic Farm Animal Anatomy and Physiology

ANS 121-2 Forage Science and Conservation

ANS 101-2 Principles of Genetics & Breeding

ANS 102-2 Principles of Food Science & Animal Product Technology

EAG 101-2 Biochemistry

EAG 141-0 Principles of Agricultural Engineering Technology

EAG 102-0 Mathematics for Biological Sciences

EAG 121-0 Economic Thinking in Agriculture

## Second Year

ANS 221-4 Ruminant Management & Breeding

AQT 201-1 Inland Aquatic Resources and Management

ANS 231-2 Selection and Animal Breeding Techniques

ANS 241-2 Basic Farm Animal Hygiene

ANS 242-1 Hygienic Milk Production



ANS 201-2 Principles of Food Preservation and Processing

EAG 201-2 Agricultural Microbiology

EAG 202-2 Agricultural Farm Mechanization

EAG 256-0 Introduction to Crop Science

EAG 253-0 Organic Crop Production and Value Addition



ANS 222-2 Livestock Farming Systems

ANS 223-2 Swine Management and Breeding

ANS 224-3 Poultry Management and Breeding

ANS 232-2 Reproduction and Lactation in Farm Animals

AQT 202-2 Ornamental Fish Breeding and Production

ANS 202-1 Food Chemistry

EAG 221-0 Agribusiness Management



## Third Year



ANS 311-2 Applied Animal Nutrition

ANS 321-2 Micro livestock Production

ANS 341-2 Major Farm Animal Diseases, Prevention and Control

ANS 351-2 Dairy Chemistry

ANS 352-1 Egg Product Technology & Value Addition

ANS 301-1 Food Microbiology

ANS 361-2 Entrepreneurship, IPR and Commercialization

EAG 301-3 Applied Statistics for Agriculture

EAG 346-0 Food and Biochemical Engineering

ANS 322-2 Animal Feed Resources and Feed Processing

AQT 301-2 Invertebrate Breeding and Farming

ANS 331-3 Animal Biotechnology

ANS 353-2 Dairy Product Technology and Value Addition

ANS 354-2 Meat Science, Product Technology and Value Addition

ANS 302-2 Value addition to Aquatic Products

ANS 303-1 Food Packaging Technology

EMG 374-2 Human Resource Management

EMG 383-1 Marketing Strategies

ANS 323-1 Farm Management and Budgeting

ANS 325-1 Animal Waste Handling and Utilization

EAG 321-0 Agricultural Technology Dissemination



## Fourth Year



ANS 441-1 Animal Products and Public Health

ANS 401-2 Basics in Food Analysis

ANS 402-2 HACCP, Quality Standards & Accreditation

ANS 451-2 Value Addition to Animal By-products

ANS 461-6 Industrial Training

ANS 403-2 Scientific Writing & Project Cycle Management

ANS 421-1 Agro-Eco Tourism

ANS 442-1 Animal Legislation and Welfare

ANS 462-8 Research