# Animal Production Course Outline

**Course Content**

**Week 1-2: Introduction to Animal Production**

- Importance of animal production in agriculture

- Classification of farm animals

- Livestock farming systems

**Week 3-4: Animal Nutrition**

- Nutrient requirements for different livestock species

- Types of animal feeds and feed formulation

- Feed conservation and storage

**Week 5-6: Animal Breeding and Genetics**

- Principles of animal breeding

- Selection and crossbreeding methods

- Genetic improvement in livestock

**Week 7-8: Animal Health and Disease Control**

- Common livestock diseases and their management

- Vaccination programs and biosecurity measures

- Animal welfare and ethical considerations

**Week 9-10: Livestock Housing and Management**

- Housing designs for different livestock species

- Hygiene and sanitation in animal production

- Record-keeping and farm management

**Week 11-12: Sustainable Animal Production**

- Climate-smart livestock production

- Environmental impacts of animal farming

- Policies and regulations in animal production

**Course Requirements**

- Regular attendance and participation in class activities

- Completion of assignments and projects

- Participation in practical sessions and field visits

- Final written exam and practical assessment

**Assessment Methods**

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| Assessment Type | Weight (%) |
| Assignments | 20% |
| Practical Work | 30% |
| Midterm Exam | 20% |
| Final Exam | 30% |

**Recommended Reading Materials**

Smith, D. (2018). \*Principles of Animal Nutrition\*. Academic Press.

Brown, J., & Taylor, P. (2020). \*Livestock Health and Disease Management\*. Oxford University Press.

FAO. (2019). \*Sustainable Animal Production: Strategies and Practices\*. Food and Agriculture Organization.