

**University of Gondar**

**College of Veterinary Medicine and Animal Sciences**

**Department of Animal Production and Extension**

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| **Program delivered for** | **Doctor of Veterinary Medicine (DVM**) |

Course Title: **Beef Cattle Production and Management**

Module name: Animal Production and management Course Code: AnPS3104

Module Number: **10**

Target Group: Year: 3, Sem -IIStatus of the Course: Supportive

Mode of Delivery**:** ParallelCr. Hr: 2

Course Instructors: Name- **Habtamu Ayalew**Mobile No. 0910178476

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 Office- Vet office hall- no 28

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| **Course description**  | The course content includes General aspects of the beef industry and beef production systems in the tropics; Beef breeding herds, growing and feeding operations. Combination of breeding, growing and feeding operation. Facilities, equipment and health problems.Marketing, production and financial records. Constraint of beef production and future prospects under Ethiopian condition.  |
| **Course objectives**  | At the end of the course student would: * describe the social significance, the use, feeding management and health care of beef cattle,
* describe beef, veal, beef breeds,
* production systems & their importance,
* explain carcass composition, quality evaluation, muscle structure & its conversion.
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| **Prerequisite**  | None |
| **Mode of delivery** | Parallel  |
| **Course expectations**  | * Text books and relevant reading materials will be prepared, made ready and accessible to students.
* Students will be provided with lecture handouts
* Students should come with necessary materials, be interested to the course and participate actively during lecture and practical sessions.
* Students should collect course materials and assignments as arranged by instructor and submit assignments in due date. The assignments will be corrected by the instructor.
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| **Learning &teaching methods** | A variety of teaching and learning methods which comprise lectures, practical demonstrations, group discussion, and individual work, reading assignments, questions and answers, farm visit will be used during the process. |
| Student’s work load | Course CP | Lecture | Lab/practical | Home study | Total |
| 3 ECTS | 32 | 0 | 49 | 81 |
| **Policy**  | As per the guidelines of University’s senate legislation  |

**Schedule of the course**

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| --- | --- |
| **Week**  | **Topics**  |
| 1 | The beef cattle industry* Origin of cattle
* World cattle production
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| 2 | Potentials, constraints and future prospects of beef production in Ethiopia |
| 3 | Beef production systems in the tropics, in the world |
| 4 | Breeds of beef cattle |
| 5 | Reproduction and principles of breeding of beef cattle  |
| 6 | Practical beef cattle breeding |
| 7 | Growth and development in beef cattle |
| 8 | Nutrients requirement of beef animals |
| 9 | Feeds for beef animals and ration formulation  |
| 10 | Finishing of beef animals |
| 11 | Routine operation in beef farms* Identification
* Castration
* Dehorning
 |
| 12 | Housing beef cattle and facilities and equipments in beef farms |
| 13 | Herd health management |
| 14 | Record keeping in beef farms |
| 15 | Marketing and financial records of beef farms |
| 16 | Carcass evaluation and grading |

Individual study, Project work, Group work

**Assessment Methods**

1. **Continuous Assessment =50%**

|  |  |  |  |
| --- | --- | --- | --- |
| Con. Assessment week | Quiz  | Test  | Group assignment  |
| 1 | 2 | 1 | 2 | Assignment 1  | Presentation |
| 5% | 5 % | 15% | 15% | 5% | 5% |
| Week 3 | t a At any time T | At any time T |  |  |  |  |
| Week 5 |  |  |  |  |
| Week 6 |  |  |  |  |
| Week 8 |  |  |  |  |
| Week 10  |  |  |  |  |
| Week 12 |  |  |  |  |
| Week 14  |  |  |  |  |
| Week 15 |  |  |  |  |  |  |
| Week 16 |  |  |  |  |  |  |

NB: The conti Assessment schedule will be changed and informed before the commencement accordingly

1. **Final Exam. =50%**

**References**

* BanerjeeD.C. 2006. *Text book of animal husbandry (6th ed).* Chaman enterprise, New Delhi
* Battaglia A. and Myrose B. Veron. 1981. *Handbook of livestock management techniques.* Macmillan publishing company, USA
* Berg T. R. and Butterfield M.Rex. 1976. *New concepts of cattle growth.* Macarthur press, Parramatta, Australia
* Canningham M. and Acker Duane. 2001*. Animal science and industry, 6th ed.* Prentice hall, New jersey, USA
* Diggins .V.R and Bundy E. Clarence. 1971. *Beef production.* Prentice hall, New jersey
* Gillespie R. J.1998. *Animal science*. Delmar publishers, USA
* Kellems O. Richards and Church C.D. 2003. *Livestock feeds and feeding.* Pearson education inc. USA
* Lawrie A. R. 1979.*meat science.* Pergamon press, New jersey
* Neumann A.L. 1969. *Beef cattle production 6th edition.* John wiley and sons, United states of America