

<u>AGB-947</u>	<u>Livestock and Dairy Management</u>	3(3-0)
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Livestock are natural factories to convert roughage (grasses, shrubs, etc) into quality-food i.e. milk and meat. Livestock also provide raw material for industries and create markets and capital. For a large population of rural household in rain-fed agricultural production system, livestock provide security against crop-failure. Pakistan has a large livestock population, well adapted to the local conditions, and has some of the best tropical dairy breeds. A comprehensive knowledge about livestock and dairy management is required to cater the need of the country.

1. **Educational Objectives**

1. To create awareness about existing scenario of dairy industry problems and remedies.
2. To produce manpower competent in profitable dairying and aware about modern technologies to boost milk production at national level.
3. To review the most recent literature regarding different aspects of livestock production over the globe.
4. To enable the students to plan various research activities/projects in the light of the status of the existing knowledge.

2. **Course Outcomes**

1. The students will be able to understand the basic dairy industry problems and how to handle them.
2. It will create awareness among students about modern technologies in milk production.
3. Understanding about different aspects of livestock production and management.
4. The students will be able to work alone or as a team member for better livestock management and dairy production.

3. **Course Contents**

Dairy production and food security; Dairying scenario in developed and developing countries; Establishing a modern dairy enterprise; World famous dairy breeds; Management of exotic/crossbred cows; Management during winter and summer; Production performance; Raising replacements; Feeding and breeding

management; Farm records; Improving reproductive efficiency; Housing requirements and systems; Hygienic milk production; Mastitis control program; Farm sanitation, manure handling and slurry management: Common ailments in dairy animals, their prevention and control. Research methods in livestock management; Use of computers for retrieval of relevant information; Recent advances in approach towards development and research in livestock production, new innovations related to feeding and management of farm animals;

4. **Lab Work**

- N/A

5. **Recommended Books**

1. Swain, D.L. 2007. Redesigning Animal Agriculture: The Challenge of the 21st Century. CAB International, UK.
2. Younie, D. and J.M. Wilkinson. 2001. Organic Livestock Farming. Chalcombe Publications, Mountwood House, Biddenfield Lane, Shedfield, Southampton Hampshire, UK.
3. Bilal, M.Q. and A. Ahmad. 2004. Dairy Hygiene and Disease Prevention. Usman and Bilal Printers Faisalabad, Pakistan.
4. Ensminger, M.E. 1993. Dairy Cattle Science. The Interstate Printers, Danville, IL, USA.
5. Khan, B.B. (ed.). 2008. Health and Husbandry of Dairy Animals. Pak TM Printers, Faisalabad, Pakistan.
6. Phillips, C.J.C. 1995. Progress in Dairy Science. CAB International, UK.