Ref. No.	**C –C.4**
Title:	**Cattle – Bovine Nutrition, Husbandry and Lactogenesis**
Category and value:	**C - 10 Credits**
Notional study hours:	**100**

Candidates working towards the designated Certificate in Advanced Veterinary Practice (Cattle) will need to complete the following modules: A-FAVP.1 Foundations in Advanced Veterinary Practice, B-PAP.2 Production Animal Practice, C-C.6 Cattle – Bovine Mastitis and Lameness and at least two other Cattle C modules (from C-C.4, C-C.5 and C-C.7) plus one other C module which may be a fourth cattle module. Upon completion of all the necessary modules, a further synoptic assessment will also be required.

Aims

The aim of this module is to enable the candidate to extend and consolidate clinical knowledge and skills gained at undergraduate level, so that they can apply this knowledge to the management of cattle herds and the diagnosis and treatment of diseases of cattle. The candidate will be able to evaluate their own standards of practice and develop strategies for continuous improvement in the future.

Learning Outcomes

At the end of this module delegates should be able to:

a. Explain the husbandry and management of beef and dairy cattle in the UK, and critically evaluate the relative merits of the systems used;
b. Explain the detailed principles of bovine nutrition
c. Apply in depth knowledge and understanding of bovine nutrition to clinical work with dairy and beef herds
d. 4.Provide advice on bovine nutrition;
e. Apply an in depth-knowledge of cattle housing, for all ages of livestock, to clinical problems and be able to provide advice on the planning of bovine housing and husbandry systems
f. Write professional reports to farmers and veterinary surgeons
g. Understand the legislation relating to the health , management, and welfare of cattle and food production in the UK

Module Content

Nutrition

- Nutritional requirements of cows (Dairy and Beef) and how they are calculated
- Characteristics of the common foodstuffs and their visual assessment
- Feeding systems for youngstock and adult stock:

- Grassland management, forage crop production, harvesting and storage ;
- Nutritional problems: their recognition, treatment, prevention and control
- Monitoring of nutrition in the Dairy and Beef cow (using milk yield and quality, cow signalment, BCS, and faecal assessment)
- Relationship of Nutrition and Fertility in Dairy and Beef cows

Beef Finishing Systems (Dairy bred and suckled beef calves)

- Finishing systems for beef cattle from weaning to slaughter – nutrition and management
- Target growth rates and carcase classification
- Common nutritional diseases associated with different rearing systems

Housing Systems

- Housing systems available, relative costs, advantages and disadvantages
- Space and ventilation requirements for Dairy and Beef animals (all ages)

Lactogenesis

- Milk synthesis and its control
- Factors affecting milk yield and composition

Assessment strategy for this module

- A case book of three cases, each of up to 1500 words length. These cases should be selected to demonstrate the candidate's ability to use the competences that have been acquired to cope with a challenging situation, rather than using classic "textbook cases" of particular conditions.

- Short answer test and or MCQs (1 hour)