**Y E A R : F I R S T**

S U B J E C T : A N I M A L M A N A G E M E N Tأدارة حيوان

**Theoretical hours: 2**

**Practical hours: 2**

**Units: 6**

**FIRST & SECOND SEMESTERS**

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| **ANIMAL MANAGEMENT: THEORETICAL SUBJECTS** | **HOURS** |
| Animal wealth in Iraq and its importance. | **2** |
| Factors limiting animal production in tropics e.g. Iraq.. | **2** |
| Domestication of different animals. | **2** |
| Duties of the veterinarian | **2** |
| Some kinds of records for farm animals | **2** |
| HORSES   Classes of horses.   Breeds of horses.   Identification and description of horses.   Terminology of horses.   Breeding of horses: age of puberty, sexual maturity, signs of  oestrous, signs of pregnancy, diagnosis of pregnancy, signs of birth, care of new – born animals, system of weaning, care and management of pregnant mare, care and management of the stallion (stud).   Origin of the horses from animal kingdom.   Feeding and watering | **10** |
| CATTLE   classes of cattle( cows and water- buffaloes)   Breeds of cattle.   Identification and description of cattle and water buffaloes.   Terminology of cattle.   Origin of cattle and water buffaloes from animal kingdom.   breeding of cattle (age of puberty , sexual maturity , signs of oestrous, signs of pregnancy, diagnosis of pregnancy , signs of birth, calving (parturition ), care of new – born calf,  systems of weaning, care of dams , care of bull (stud), | **10** |

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| **ANIMAL MANAGEMENT: THEORETICAL SUBJECTS** | **HOURS** |
| milking process.   Growth rate of cattle   Twinning in cattle. |  |
| SHEEP AND GOATS   Types and breeds of sheep and goats.   Identification and description of sheep.   Terminology of sheep.   origin of sheep and goats from animal kingdom.   breeding of sheep (age of puberty , sexual maturity , signs of  oestrous, signs of pregnancy, diagnosis of pregnancy, lambing and kidding, (parturition), care of the dam and new born , adoption or fostering on orphan lamb, suckling and weaning , care of rams , breeding seasons, application of hormones, effect of artificial light.   Feeding and managing type of feed in pregnancy and parturition, feeding of lambs and their fatenning problems  of feeding.   Grazing management.   Milking production and udder.   Wool and mohair.   Livestock building and equipment (disinfection, construction, ventilation standards). | **10** |
| CAMELS   Types and breeds of camels.   Origin of camel from animal kingdom.   General characters.   Breeding camels: (age of puberty, sexual maturity, signs of  oestrous, signs of pregnancy, diagnosis of pregnancy, suckling, weaning and care of the young camel).   Feeding and watering of camels. | **4** |
|  **FARM ANIMAL HEALTH AND DISEASES**   Signs of health in animals (pulse rate, respiration rate, body  temperature, condition of the skin appetence, defecation, urination, animal postures, routes of drug administration.   Diseases of animals (cattle, sheep, horses), hygienic methods of disposal of dead animals. | **4** |

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| **ANIMAL MANAGEMENT: THEORETICAL SUBJECTS** | **HOURS** |
|  Sanitation foot bath.   Transportation of animals.   Bedding (litter) and its importance for farm animals.   Behavior of farm animals. | **4** |
|  Examinations for soundness   Examination of horses.   Examination of cattle.   Examination of sheep.   Examination of camels. | **4** |
| DENTITION   How to age horses.   How to age cattle.   How to age sheep.   How to age camels. | **4** |
| **Total** | **60** |

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| ANIMAL MANAGEMENT: THEORETICAL PRACTICAL SUBJECTS | **HOURS** |
| External features of farm animals. | **84** |
| Methods of approaching, restraint and casting of horses. | **8** |
| Methods of approaching, restraint and casting of cattle, camel  leading. | **8** |
| Methods of approaching, restraint and casting of sheep for  different purposes. | **8** |
| Vices of horses and cows. | **8** |
| Mouth ages for different animals, signs of health: pulse and  respiration, body temperature mucous membranes condition. | **8** |
| Care of farm animals; grooming, washing, heating, clipping,  drying of wet horses. | **8** |
| Sheep dipping. | **4** |
| shoeing of horses | **4** |
| **Total** | **60** |