Paper IV- Introductory Animal Reproduction

Course No. AHD-241; Cr. Hrs. 3 (1+2)

Theory:

Anatomy and physiology of male and female reproductive organs, reproductive endocrinology, introductory chemistry and functions of reproductive hormones, puberty

Estrous cycle, signs of estrus and estrous detection, properties of estrous mucus, gestation and pregnancy diagnosis, parturition

Introduction of spermatogenesis, breeding soundness examination (BSE) of males, collection of semen, testing of fresh semen (macroscopic and microscopic), introduction of preservation of semen, handling of frozen semen, methods of artificial insemination and record keeping and follow up of inseminated females.

Introduction of andrology, preliminary knowledge of male infertility, ailments of testes, penis, prepuce etc., infectious reproductive diseases of males.

Practical:

Reproductive examination of female, pregnancy diagnosis, practice of intrauterine pipetting, examination of fern pattern of estrous mucus, testing of frozen semen, techniques of artificial insemination.

BSE of male, collection of semen, testing of fresh semen

Castration of male

Handling, care, maintenance and sterilization of various materials and instruments used in reproductive techniques, keeping of reproductive records.

Semester II (2nd year AHDP)
Course title: Introductory Animal Reproduction II
(Gynaecology, Obstetrics)

Course No. AHD-242; Cr. Hrs. 3 (1+2)

Theory:

Introduction of gynaecology, infectious and noninfectious female infertility – delayed puberty, congenital defects, hypoplasia of ovaries, cystic ovarian degeneration, anestrus, repeat breeding problem, infectious and venereal causes of infertility, metritis, pyometra.

Abnormal gestation, abortions and other complications of gestation like mummification, maceration, hydropsy of pregnancy etc.

Dystocia, maternal and fetal causes of dystocia, uterine torsion, cervico-vaginal and uterine prolapse, retained fetal membranes.

Practical:

Name, use and maintenance of gynaecological and obstetrical instruments, administration of intrauterine medicines, practice of handling of dystocia using phantom box, foetotomy operations, management of cases of prolapse, retained fetal membranes, uterine torsion, name and care of surgical instruments for caesarian operation, preparation of surgical packs, post operative care of animals.