

Deptt. Veterinary Gynae. & Obst.
Bihar Veterinary College, Patna-14

Synopsis of lecture(Theory)

Course No: VOG 601

Credit Hr:3+1=4

Course Title: General Gynaecology

Semester: I

Name of Instructors: Dr.D.Sengupta, Dr. Ankesh Kumar and Dr.C.S.Azad

Lecture no.	Topic name	Instructor
Lec.1,2,3	Puberty and sexual maturity, role of hypothalamic-pituitary-gonadal axis in attainment of puberty and sexual maturity, onset of postpartum ovarian activity,	Dr. C. S. Azad
Lec.4	Endocrine regulation of estrous cycle.	Dr. D. Sengupta
Lec.5,6,7,8	Folliculogenesis, oogenesis and ovulation and associated endocrine pattern, manipulation of follicular waves, synchronization of estrus and ovulation and induction of ovarian activity.	Dr. Ankesh Kumar
Lec.9,10	Gamete transport, fertilization, implantation and maternal recognition of pregnancy.	Dr. D. Sengupta
Lec.11,12	Embryonic and fetal development, placentation, fetal circulation and gestation, position of fetus in the uterus, age characteristics of fetus.	Dr. C. S. Azad
Lec.13,14,15	Pregnancy diagnosis: clinical, ultrasonographic, endocrinological and other diagnostic laboratory tests.	Dr. D. Sengupta
Lec.16	Pseudo-pregnancy and its treatment.	Dr. Ankesh Kumar
Lec.17,18	Factors affecting reproduction – seasonality, nutrition, stress, environment, management, suckling and diseases.	Dr.C.S.Azad
Lec.19,20	Lactation and artificial induction of lactation.	Dr.D.Sengupta

Synopsis of lecture(Practical)

Lecture no.	Topic name	Instructor
Lec.1	Clinical examination of female genitalia.	Dr.D.Sengupta
Lec.2	Biometry of female genital Organs.	Dr. C. S. Azad
Lec.3	Rectal and vaginal examination to diagnose cyclic phases of estrous cycle.	Dr. C. S. Azad
Lec.4	Fern pattern of cervical mucus and exfoliated vaginal cytology.	Dr. Ankesh Kumar
Lec.5,6,7	Pregnancy diagnosis in large and small animals by various methods. Estimation of age of the fetus. Use of ultrasound / RIA / ELISA in Gynaecology.	Dr. Ankesh Kumar
Lec.8,9	Synchronization of estrus and ovulation in farm animals	Dr.D.Sengupta

Suggested Book for reading :

1. Cupps PT. 1991. *Reproduction in Domestic Animals*. Academic Press.
Hafez ESE. 2000. *Reproduction in Farm Animals*. Lippincott, Williams & Wilkins.
2. Pubedam MH & Pubedam MH. 2003. *McDonald's Veterinary Endocrinology and Reproduction*. Iowa State Press.
3. Noakes DE, Parkinson DJ & England GCW. 2001. *Arthurs Veterinary Reproduction and Obstetrics*. Saunders Harcourt India.
4. Roberts SJ. 1976. *Veterinary Obstetrics and Genital Diseases*. Scientific Book Agency.

Course Instructor

Chairman

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Deptt. Veterinary Gynae. & Obst.

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Synopsis of lecture(Theory)

Course No: VOG 605

Credit Hr: 2+1=3

Course Title: Semen preservation and Artificial Insemination Semester: I

Name of Instructors: Dr.C.S.Azad, Dr. Ankesh Kumar and Dr.D.Sengupta

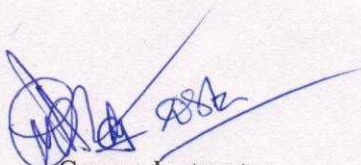
Lecture no.	Topic name	Instructor
Lec.1,2	History of artificial insemination.	Dr. C. S. Azad
Lec.3	Methods of semen collection.	Dr. D. Sengupta
Lec.4,5,6	Semen evaluation: macroscopic, microscopic, biochemical and microbiological tests,	Dr. Ankesh Kumar
Lec.7,8	Computer assisted semen analysis (CASA).	Dr. C. S. Azad
Lec.9,10,11	Semen preservation. Extenders for preservation of semen at different temperatures.	Dr. D. Sengupta
Lec.11	Semen additives for enhancement of motility and fertilizing capacity of spermatozoa	Dr. Ankesh Kumar
Lec.12,13	Cryopreservation of semen. Effects of cryopreservation on spermatozoa, semen quality and fertility.	Dr. C. S. Azad
Lec.14,15	Thawing protocols of frozen semen. Factors affecting post-thaw semen quality.	Dr. D. Sengupta
Lec.16,17	Ideal protocol for AI in different species of animals. Factors affecting success of AI	Dr. Ankesh Kumar

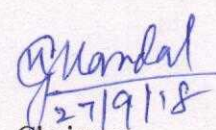
Synopsis of lecture(Practical)

Lecture no.	Topic name	Instructor
Lec.1	Computer assisted semen analysis (CASA),	Dr.D.Sengupta
Lec.2	Collection and evaluation of semen.	Dr. C. S. Azad
Lec.3,4,5	Preparation of extenders. Preservation of semen: room temperature, refrigeration and cryopreservation	Dr. C. S. Azad
Lec.6,7	Handling and evaluation of processed semen.	Dr. Ankesh Kumar
Lec.8	Practice of AI techniques	Dr.D.Sengupta

Suggested Book for reading :

1. Hafez ESE. 2000. *Reproduction in Farm Animals*. Lippincott, Williams & Wilkins.
2. Perry J. 1970. *Artificial Insemination of Farm Animals*. Oxford & IBH.
- Salisbury GW, VanDemark NL & Lodge JR. 1978. *Physiology of Reproduction and Artificial Insemination of Cattle*. WH Freeman


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Synopsis of lecture(Practical)

Course No: VOG 607

Credit Hr:0+3=3

Course Title: Clinical Practice - I

Semester: III

Name of Instructors: Dr. Ankesh Kumar, Dr.D.Sengupta, and Dr. C. S. Azad

Lecture no.	Topic name	Instructor
Lec.1-4	Clinical examination of animals affected with reproductive disorders	Dr.D.Sengupta
Lec.5-9	Use of diagnostic techniques for diagnosis and institution of required therapy	Dr. C. S. Azad
Lec.10-15	Maintenance of case records	Dr. C. S. Azad
Lec.16-19	Presentation on selected /assigned cases	Dr. Ankesh Kumar

Suggested Book for reading :

1. Morrow DA. 1986. *Current Therapy in Theriogenology*. WB Saunders



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Synopsis of lecture(Practical)

Course No: VOG 608

Credit Hr:0+3=3

Course Title: Clinical Practice - II

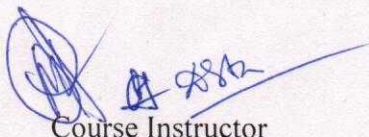
Semester: III

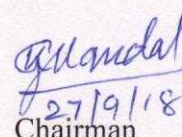
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Lecture no.	Topic name	Instructor
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Suggested Book for reading :

1. Morrow DA. 1986. *Current Therapy in Theriogenology*. WB Saunders


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