

DEPARTMENT OF VETERINARY SURGERY AND RADIOLOGY
SHOURABH COLLEGE OF VETERINARY SCIENCE, KHEDA, HIDAUN CITY

Course Outline for Theory (session: 2025-26)

Tentative Teaching Programme

Name of Teacher (s): Dr. H. N. Singh, Dr. Kuldeep

		Topic to be covered
S.N	Date	UNIT 1 – GENERAL SURGERY
1	19-03-25	Introduction: Historical perspective, Definitions
2	20-03-25	Classification of surgery, tenets of Halsted.
3	26-03-25	Pre-operative considerations: History taking, physical examination,
4	27-03-25	Intraoperative considerations
5	2-04-25	Post-operative considerations
6	3-04-25	Clinico-pathological testing, intraoperative and postoperative care
7	9-04-25	Sterilization and disinfection: Definitions
8	16-04-25	Surgical sterilization, various methods of sterilization
9	17-04-25	Disinfections
10	23-04-25	Sutures: Definitions, suturing
11	24-04-25	Factors influencing suturing, characteristics of an ideal suture material,
12	30-04-25	Types of suture material-absorbable and non-absorbable,
13	1-05-25	Surgical knots, various suture patterns-apposition, eversion, inversion and special.
14	7-05-25	Treatment of acute and chronic inflammation
15	8-05-25	Use of anti-inflammatory drugs and proteolytic enzymes.
16	14-05-25	Haemostasis (physical and chemical methods, systemic haemostats, surgical diathermy)
17	21-05-25	Basic surgical affections: Definitions, classification, diagnosis and treatment of abscess, tumor, cyst, hernia and haematoma
18	22-05-25	Basic surgical affections: Definitions, classification, diagnosis and treatment of necrosis and gangrene
19	28-05-25	Basic surgical affections: Definitions, classification, diagnosis and treatment of burn, scald frost bite
20	29-05-25	Surgical affections of muscles, artery and vein, sinus and fistula
21	4-06-2025	Wounds: Definition, classification
22	5-06-2025	Wounds: examination and diagnosis, general principles for treatment of aseptic, contaminated and septic wounds
23	11-06-2025	Wounds: healing and factors affecting wound healing, complications of wounds and their remedies.
24	12-06-2025	Wounds: Surgical infection; their prevention and management: Classification of infection, Introduction to biomaterials and stem cell therapy in wound management

25	18-06-2025	Management of surgical shock and Principles of fluid therapy in surgical patients.
		UNIT-2 (VETERINARY ANAESTHESIOLOGY)
26	19-06-2025	Introduction: Development of anaesthesiology, Terminology
27	25-06-2025	Classification and indications of anaesthesiology
28	26-06-2025	General considerations of anaesthesia: Factors affecting anaesthesia and selection of anaesthetic technique
29	2-07-25	Factors modifying uptake, distribution and elimination, patient evaluation, categories of patients according to physical status
30	3-07-25	Selection of anaesthetic agent and patient preparation.
31	9-07-25	Pain and its management in animals Local and regional anaesthesia: Definitions, local anaesthetics,
32	10-07-25	Mechanism of action Premedication, properties and use of different preanaesthetics: Uses of premedication,
33	16-07-25	Anticholinergic , sedatives and tranquilizers (Phenothiazine derivatives, Benzodiazepines
34	17-07-25	Butyrophenones, Narcotic analgesics, Alpha-2 agonists, dosage chart of all the drugs.
35	23-07-25	General anaesthesia: Definitions, methods of induction of anaesthesia
36	24-07-25	Intravenous anaesthetics (Total intravenous Anaesthesia
37	30-07-25	Monitoring of anaesthesia and inhalation anaesthesia: Advantages of inhalant anaesthetics
38	31-07-25	Types of inhalant anaesthetics their properties and effect on various systems and methods of administration of inhalant anaesthesia
39	6-08-25	Dissociative anaesthesia: Definition, drugs, clinical application
40	7-08-25	Dissociative anaesthesia: properties and effect on various body systems.
41	13-08-25	Avian, wild, zoo, exotics and lab animal anaesthesia and capture myopathy
42	14-08-25	Anaesthetic emergencies and management, Toxicity, antidote and reversal agents.
	20-08-25	UNIT-3 (VETERINARY DIAGNOSTIC IMAGING TECHNIQUES)
43	21-08-25	Introduction to Radiology-General terminology of radiology
44	27-08-25	Physical properties of X-Rays, Scope and uses of Radiology
45	28-08-25	Directional terms for veterinary radiology.
46	3-09-25	Production of X-rays and factors influencing production of Xrays.
47	4-09-25	Radiation hazards and safety measures
48	10-09-25	Radiation hazards and safety measures
49	11-09-25	Production of quality diagnostic radiograph
50	17-09-25	Recording of image- Manual and digital processing of X-ray films, storage and retrieval system.

51	18-09-25	Radiographic Quality and faults- Radiographic detail, density and contrast and factors affecting them
52	24-09-25	Radiographic faults, their possible causes and prevention.
53	25-09-25	Contrast radiography- Definition, indications, contraindications and types of contrast radiography
54	1-10-25	Different contrast materials and their use, Techniques of some selected contrast radiography in animals(Barium swallow, Retrograde urography etc)
55	8-10-25	Diagnostic ultrasonography- Principles, indications, techniques and artifacts of ultrasonography.
56	9-10-25	Advanced diagnostic imaging tools- The brief introduction to the use and limits of some advanced imaging techniques, Interventional radiology - CAT scanning, MRI, etc
		UNIT-4: (REGIONAL SURGERY-I)
57	15-10-25	Head and Neck: Affections of lips, cleft palate
58	16-10-25	Head and Neck: Affections of tongue, cheek, and their treatment
59	29-10-25	General anatomical considerations, avulsion of lip, cleft lip ranula, neoplasm and traumatic injuries.
60	30-10-25	Affections of teeth and jaws and their treatment
61	6-11-25	Affections of teeth and jaws and their treatment
62	12-11-25	Affections of nose, face and ear
63	13-11-25	Affections of eye and their treatment
64	19-11-25	Affections of eye and their treatment
65	20-11-25	Affections of guttural pouch, oesophagus and their treatment
66	26-11-25	Affections of glands of head and neck and their treatment
67	27-11-25	Affections of larynx and trachea
		UNIT-5: (REGIONAL SURGERY-II)
68	3-12-25	Affections of thorax
69	4-12-25	Hernia
70	10-12-25	Common surgical affections of the stomach in dogs
71	11-12-25	Surgical affections of the stomach in large animal and their management
72	17-12-25	Surgical affections of small intestines and their management
73	18-12-25	Surgical affections of large intestine and their management
74	24-12-25	Surgical affections of anus and perineal region
75	31-12-25	Surgical affections of urinary system
76	1-01-26	Surgical management of equine colic
77	7-01-26	Surgical affections of female genital system
78	8-01-26	Surgical affections of udder, teat and canine mammary neoplasms.
79	15-01-26	Surgical affections of tail and tail docking
80	21-01-26	Wild or zoo animal surgery
81	22-01-26	Wild or zoo animal surgery
82	28-01-26	Wild or zoo animal surgery

83	29-01-26	Conformation of the horse in relation to lameness (trunk, fore limb and hind limb).
84	4-02-26	Body conformation of the horse in relation to lameness (trunk, fore limb and hind limb).
85	5-02-26	Lameness: definition, classification and diagnosis
86	11-02-26	Lameness: definition, classification and diagnosis
87	18-02-26	Canine lameness
88	25-02-26	Lameness of fore limb
89	26-02-26	Lameness of fore limb
90	5-03-26	Lameness of fore limb
91	11-03-26	Lameness of fore limb
92	12-03-26	Lameness of hind limb
93	18-03-26	Lameness of hind limb
94	25-03-26	Lameness of hind limb
95	1-04-26	Lameness of hind limb
96	2-04-26	Fracture
97	8-04-26	Fracture
98	9-04-26	Fracture
99	16-04-26	Fracture
100	22-04-26	Fracture
101	23-04-26	Fracture
102	29-04-26	Fracture
103	30-04-26	Luxations
104	6-05-26	Spinal trauma
105	7-05-26	Rehabilitation and physiotherapy of orthopaedic patients
REVISION		
106	13-05-26	Monitoring of anaesthesia and inhalation anaesthesia: Advantages of inhalant anaesthetics
107	14-05-26	Monitoring of anaesthesia and inhalation anaesthesia: Advantages of inhalant anaesthetics
108	20-05-26	Dissociative anaesthesia: Definition, drugs, clinical application
109	21-05-26	Dissociative anaesthesia: Definition, drugs, clinical application
110	28-05-26	Dissociative anaesthesia: properties and effect on various body systems
111	3-06-26	Dissociative anaesthesia: properties and effect on various body systems
112	4-06-26	Avian, wild, zoo, exotics and lab animal anaesthesia and capture myopathy
113	10-06-26	Avian, wild, zoo, exotics and lab animal anaesthesia and capture myopathy
114	11-06-26	Anaesthetic emergencies and management, Toxicity, antidote and reversal agents
115	17-06-26	Anaesthetic emergencies and management, Toxicity, antidote and reversal agents
116	18-06-26	Introduction to Radiology-General terminology of radiology
117	24-06-26	Introduction to Radiology-General terminology of radiology

118	25-06-26	Physical properties of X-Rays, Scope and uses of Radiology
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DEPARTMENT OF VETERINARY SURGERY AND RADIOLOGY

SHOURABH COLLEGE OF VETERINARY SCIENCE, KHEDA, HIDAUN CITY

Course Outline for Practical (session: 2025-26)

Teaching Programme

Name of Teacher (s): Dr. H. N. Singh, Dr. Kuldeep & Dr. Manoj Mathur

S.N.	Batch	Date	Topic Covered
1.	AB	17.3.2025	Introduction to layout of operation theatre and surgical unit
	CD	18.3.2025	
	EF	19.3.2025	
2.	AB	24.3.2025	Introduction of common surgical equipment and instruments
	CD	15.3.2025	
	EF	26.3.2025	
3.	AB	7.04.2025	Introduction of common surgical equipment and instruments
	CD	1.04.2025	
	EF	2.04.2025	
4.	AB	21.04.2025	Suture materials, surgical knots and suture patterns
	CD	8.04.2025	
	EF	9.04.2025	
5.	AB	28.04.2025	Suture materials, surgical knots and suture patterns
	CD	15.04.2025	
	EF	16.04.2025	
6.	AB	5.05.2025	Preparation of surgical patients.
	CD	22.04.2025	
	EF	23.04.2025	
7.	AB	12.05.2025	Other operation theatre routines like sterilization, preparation of theatre, Surgeon and surgical pack
	CD	6.05.2025	
	EF	30.04.2025	
8.	AB	19.05.2025	Other operation theatre routines like sterilization, preparation of theatre, Surgeon and surgical pack
	CD	13.05.2025	
	EF	25.2.2021	
9.	AB	26.05.2025	General examination of surgical patients
	CD	20.05.2025	
	EF	7.05.2025	
10.	AB	2.06.2025	Bandaging and basic wound management
	CD	27.05.2025	
	EF	14.05.2025	
11.	AB	9.06.2025	Demonstration (or Audio visual aids) of surgery, control of haemorrhage and suturing
	CD	3.06.2025	
	EF	21.05.2025	
12.	AB	16.06.2025	Familiarization with anaesthetic apparatus, monitoring equipment and accessories
	CD	10.06.2025	
	EF	28.05.2025	
13.	AB	23.06.2025	Methods of local infiltration analgesia (Linear ring block, inverted L block etc.)
	CD	17.06.2025	
	EF	4.06.2025	
14.	AB	30.06.2025	Regional nerve block demonstration and practice (Auriculopalpebral block, Peterson block or 4 point retrobulbar nerve block, Paravertebral, epidural etc.)
	CD	24.06.2025	
	EF	11.06.2025	
15.	AB	7.07.2025	Intravenous regional anaesthesia in cattle.
	CD	1.07.2025	

	EF	18.06.2025	
16.	AB	14.07.2025	Administration of general anaesthesia in small and large animals. (Demonstration and practice).
	CD	8.07.2025	
	EF	25.06.2025	
17.	AB	21.07.2025	Administration of inhalant anaesthesia (Demonstration)
	CD	15.07.2025	
	EF	2.07.2025	
18.	AB	28.07.2025	Monitoring of general anaesthesia
	CD	22.07.2025	
	EF	9.07.2025	
19.	AB	4.08.2025	Management of anaesthetic emergencies, use of artificial respirator and analeptics
	CD	29.07.2025	
	EF	16.07.2025	
20.	AB	11.08.2025	Familiarization with the operation of the x-ray unit
	CD	5.08.2025	
	EF	23.07.2025	
21.	AB	18.08.2025	Formulation of X-ray exposure technique charts, Adoption of safety measures and film processing.
	CD	12.08.2025	
	EF	30.07.2025	
22.	AB	25.08.2025	Positioning and radiography of different parts of the body in small and large animals Handling, viewing and interpretation of radiograph
	CD	19.08.2025	
	EF	6.08.2025	
23.	AB	1.09.2025	Familiarization with the film contrast, density and details, common radiographic artifacts
	CD	19.08.2025	
	EF	13.08.2025	
24.	AB	8.09.2025	Radiographic pathology of the head, neck and thorax of large and small animals
	CD	26.08.2025	
	EF	21.08.2025	
25.	AB	15.09.2025	Radiographic pathology of abdomen of large and small animals
	CD	9.09.2025	
	EF	3.09.2025	
26.	AB	29.09.2025	Radiographic pathology of the bones and joints of large and small animals
	CD	16.09.2025	
	EF	10.09.2025	
27.	AB	6.10.2025	Demonstration of contrast radiographic techniques in animals
	CD	23.09.2025	
	EF	17.09.2025	
28.	AB	13.10.2025	Demonstration of ultrasonography in animals.
	CD	23.09.2025	
	EF	24.09.2025	
29.	AB	27.10.2025	Fluoroscopy or Image intensifier (familiarization)
	CD	7.10.2025	
	EF	1.10.2025	
30.	AB	3.11.2025	Amputation of horn and disbudding
	CD	14.10.2025	
	EF	8.10.2025	
31.	AB	10.11.2025	Tooth rasping
	CD	21.10.2025	
	EF	15.10.2025	
32.	AB	17.11.2025	Dental scaling
	CD	28.10.2025	
	EF	29.10.2025	
33.	AB	24.11.2025	Examination of ear (otoscopy)
	CD	4.11.2025	
	EF	12.11.2025	
34.	AB	1.12.2025	Cropping of ear in dog
	CD	11.11.2025	

	EF	19.11.2025	
35.	AB	8.12.2025	Lateral ear canal resection in dog
	CD	28.11.2025	
	EF	26.11.2025	
36.	AB	15.12.2025	Ophthalmoscopy
	CD	25.11.2025	
	EF	3.12.2025	
37.	AB	22.12.2025	Tonometry and Test for Blindness
	CD	2.12.2025	
	EF	10.12.2025	
38.	AB	29.12.2025	Technique of sub conjunctival injection
	CD	9.12.2025	
	EF	17.12.2025	
39.	AB	5.01.2026	Fluorescein dye test and Scherimer tear test
	CD	16.12.2025	
	EF	24.12.2025	
40.	AB	12.01.2026	Flushing of nasolacrimal duct
	CD	23.12.2025	
	EF	31.12.2025	
41.	AB	19.01.2026	Correction of entropion and ectropion in animals and Extirpation of eyeball
	CD	30.12.2025	
	EF	7.01.2026	
42.	AB	2.02.2026	Castration in different species in clinical cases and under animal birth control programme in canine
	CD	6.01.2026	
	EF	21.01.2026	
43.	AB	9.02.2026	Ovariohysterectomy in dogs and cats
	CD	13.01.2026	
	EF	28.01.2026	
44.	AB	16.02.2026	Rumenotomy
	CD	20.01.2026	
	EF	4.02.2026	
45.	AB	23.02.2026	Gastrotomy in dogs
	CD	27.01.2026	
	EF	11.02.2026	
46.	AB	2.03.2026	Urethrotomy and urethrostomy
	CD	3.02.2026	
	EF	18.02.2026	
47.	AB	9.03.2026	Cystotomy and cystorrhaphy
	CD	10.02.2026	
	EF	25.02.2026	
48.	AB	16.03.2026	Enterotomy or Enterectomy
	CD	17.02.2026	
	EF	11.03.2026	
49.	AB	23.03.2026	Management of teat and udder affections
	CD	24.02.2026	
	EF	18.03.2026	
50.	AB	30.03.2026	Amputation of tail in different animals in clinical cases
	CD	10.03.2026	
	EF	25.03.2026	
51.	AB	6.04.2026	Circumcision operation for prepuce and rectal prolapse
	CD	17.03.2026	
	EF	1.04.2026	
52.	AB	13.04.2026	Thoracocentesis and abdominocentesis
	CD	24.03.2026	
	EF	8.04.2026	
53.	AB	20.04.2026	Familiarization with various orthopaedic instruments and implants
	CD	7.04.2026	
	EF	22.04.2026	

54.	AB	27.04.2026	Nerve blocks in equine
	CD	21.04.2026	
	EF	29.04.2026	
55.	AB	4.05.2026	Basic orthopaedic and neurological examination in small and large animals
	CD	28.04.2026	
	EF	6.05.2026	
56.	AB	11.05.2026	Application of basic physiotherapy techniques in animals
	CD	5.05.2026	
	EF	13.05.2026	
57.	AB	18.05.2026	Basic limb stabilization techniques and splinting techniques
	CD	12.05.2026	
	EF	20.05.2026	
58.	AB	25.05.2026	Application of hanging pin cast
	CD	19.05.2026	
	EF	3.06.2026	
59.	AB	1.06.2026	Internal fixation techniques in animals (IMP in dog)
	CD	26.05.2026	
	EF	10.06.2026	
60.	AB	8.06.2026	Digital flexor tenotomy in bovines
	CD	2.06.2026	
	EF	17.06.2026	
61.	AB	15.06.2026	Amputation of dew claw in bovine
	CD	9.06.2026	
	EF	24.06.2026	
62.	AB	22.06.2026	Amputation of fore limb
	CD	16.06.2026	
	EF	1.07.2026	
63.	AB	29.06.2026	Amputation of hind limb
	CD	23.06.2026	
	EF	8.07.2026	
64.	AB	6.07.2026	Medial patellar desmotomy in bovines
	CD	30.06.2026	
	EF	15.07.2026	
65.	AB	13.07.2026	Examination of animals for soundness and preparation of soundness certificate
	CD	7.07.2026	
	EF	22.07.2026	
REVISION			
66.			General Surgery
67.			Veterinary Anaesthesiology
68.			Veterinary Diagnostic Imaging Techniques
69.			Regional Surgery-I
70.			Regional Surgery-II
71.			Orthopedics and Lameness