

**DEPARTMENT OF VETERINARY SURGERY AND RADIOLOGY**  
**MJF COLLEGE OF VETERINARY AND ANIMAL SCIENCE, CHOMU, JAIPUR**  
**Course Outline for Theory (session: 2021-22)**

**Tentative Teaching Programme**

<b>Topic to be covered</b>		
<b>S.N</b>	Date	<b>UNIT 1 – GENERAL SURGERY</b>
1	27-08-2021	Introduction: Historical perspective, Definitions
2	28-08-2021	Classification of surgery, tenets of Halsted.
3	3-09-2021	Pre-operative considerations: History taking, physical examination,
4	4-09-2021	Intraoperative considerations
5	11-09-2021	Post-operative considerations
6	17-09-2021	Clinico-pathological testing, intraoperative and postoperative care
7	18-09-2021	Sterilization and disinfection: Definitions
8	24-09-2021	Surgical sterilization, various methods of sterilization
9	25-09-2021	Disinfections
10	1-10-2021	Sutures: Definitions, suturing
11	8-10-2021	Factors influencing suturing, characteristics of an ideal suture material,
12	9-10-2021	Types of suture material-absorbable and non-absorbable,
13	22-10-2021	Surgical knots, various suture patterns-apposition, eversion, inversion and special.
14	23-10-2021	Treatment of acute and chronic inflammation
15	29-10-2021	Use of anti-inflammatory drugs and proteolytic enzymes.
16	30-10-2021	Haemostasis (physical and chemical methods, systemic haemostats, surgical diathermy)
17	5-11-2021	Basic surgical affections: Definitions, classification, diagnosis and treatment of abscess, tumor, cyst, hernia and haematoma
18	6-11-2021	Basic surgical affections: Definitions, classification, diagnosis and treatment of necrosis and gangrene
19	12-11-2021	Basic surgical affections: Definitions, classification, diagnosis and treatment of burn, scald frost bite
20	13-11-2021	Surgical affections of muscles, artery and vein, sinus and fistula
21	20-11-2021	Wounds: Definition, classification
22	26-11-2021	Wounds: examination and diagnosis, general principles for treatment of aseptic, contaminated and septic wounds
23	27-11-2021	Wounds: healing and factors affecting wound healing, complications of wounds and their remedies.
24	3-12-2021	Wounds: Surgical infection; their prevention and management: Classification of infection, Introduction to biomaterials and stem cell therapy in wound management
25	4-12-2021	Management of surgical shock and Principles of fluid therapy in surgical patients.
<b>UNIT-2 (VETERINARY ANAESTHESIOLOGY)</b>		

26	10-12-2021	Introduction: Development of anaesthesiology, Terminology
27	11-12-2021	Classification and indications of anaesthesiology
28	17-12-2021	General considerations of anaesthesia: Factors affecting anaesthesia and selection of anaesthetic technique
29	18-12-2021	Factors modifying uptake, distribution and elimination, patient evaluation, categories of patients according to physical status
30	24-12-2021	Selection of anaesthetic agent and patient preparation.
31	31-12-2021	Pain and its management in animals Local and regional anaesthesia: Definitions, local anaesthetics,
32	1-1-2022	Mechanism of action Premedication, properties and use of different preanaesthetics: Uses of premedication,
33	7-1-2022	Anticholinergic , sedatives and tranquilizers (Phenothiazine derivatives, Benzodiazepines
34	8-1-2022	Butyrophenones, Narcotic analgesics, Alpha-2 agonists, dosage chart of all the drugs.
35	14-1-2022	General anaesthesia: Definitions, methods of induction of anaesthesia
36	15-1-2022	Intravenous anaesthetics (Total intravenous Anaesthesia
<b>FIRST INTERNAL EXAM</b>		
37	28-1-2022	Monitoring of anaesthesia and inhalation anaesthesia: Advantages of inhalant anaesthetics
38	29-1-2022	Types of inhalant anaesthetics their properties and effect on various systems and methods of administration of inhalant anaesthesia
39	4-2-2022	Dissociative anaesthesia: Definition, drugs, clinical application
40	5-2-2022	Dissociative anaesthesia: properties and effect on various body systems.
41	11-2-2022	Avian, wild, zoo, exotics and lab animal anaesthesia and capture myopathy
42	12-2-2022	Anaesthetic emergencies and management, Toxicity, antidote and reversal agents.
<b>UNIT-3 (VETERINARY DIAGNOSTIC IMAGING TECHNIQUES)</b>		
43	18-2-2022	Introduction to Radiology-General terminology of radiology
44	19-2-2022	Physical properties of X-Rays, Scope and uses of Radiology
45	25-2-2022	Directional terms for veterinary radiology.
46	26-2-2022	Production of X-rays and factors influencing production of Xrays.
47	4-3-2022	Radiation hazards and safety measures
48	5-3-2022	Radiation hazards and safety measures
49	11-3-2022	Production of quality diagnostic radiograph
50	12-3-2022	Recording of image- Manual and digital processing of X-ray films, storage and retrieval system.
51	18-3-2022	Radiographic Quality and faults- Radiographic detail, density and contrast and factors affecting them
52	19-3-2022	Radiographic faults, their possible causes and prevention.
53	25-3-2022	Contrast radiography- Definition, indications, contraindications

		and types of contrast radiography
54	26-3-2022	Different contrast materials and their use, Techniques of some selected contrast radiography in animals (Barium swallow, Retrograde urography etc)
55	2-4-2022	Diagnostic ultrasonography- Principles, indications, techniques and artifacts of ultrasonography.
56	8-4-2022	Advanced diagnostic imaging tools- The brief introduction to the use and limits of some advanced imaging techniques, Interventional radiology - CAT scanning, MRI, etc
		<b>UNIT-4: (REGIONAL SURGERY-I)</b>
57	9-4-2022	Head and Neck: Affections of lips, cleft palate
58	16-4-2022	Head and Neck: Affections of tongue, cheek, and their treatment
59	23-4-2022	General anatomical considerations, avulsion of lip, cleft lip ranula, neoplasm and traumatic injuries.
60	29-4-2022	Affections of teeth and jaws and their treatment
61	30-4-2022	Affections of teeth and jaws and their treatment
62	6-5-2022	Affections of nose, face and ear
63	7-5-2022	Affections of eye and their treatment
64	13-4-2022	Affections of eye and their treatment
65	14-4-2022	Affections of guttural pouch, oesophagus and their treatment
66	20-4-2022	Affections of glands of head and neck and their treatment
67	27-4-2022	Affections of larynx and trachea
		<b>UNIT-5: (REGIONAL SURGERY-II)</b>
68	3-6-2022	Affections of thorax
69	4-6-2022	Hernia
70	10-6-2022	Common surgical affections of the stomach in dogs
71	11-6-2022	Surgical affections of the stomach in large animal and their management
72	17-6-2022	Surgical affections of small intestines and their management
73	24-6-2022	Surgical affections of large intestine and their management
74	25-6-2022	Surgical affections of anus and perineal region
75	1-7-2022	Surgical affections of urinary system
76	2-7-2022	Surgical management of equine colic
77	8-7-2022	Surgical affections of female genital system
78	15-7-2022	Surgical affections of udder, teat and canine mammary neoplasms.
79	16-7-2022	Surgical affections of tail and tail docking
		<b>SECOND INTERNAL EXAM</b>
80	29-7-2022	Wild or zoo animal surgery
81	30-7-2022	Wild or zoo animal surgery
82	5-8-2022	Wild or zoo animal surgery
		<b>UNIT-6 (ORTHOPEDECS AND LAMENESS)</b>
83	6-8-2022	Body conformation of the horse in relation to lameness (trunk, fore limb and hind limb).
84	12-8-2022	Body conformation of the horse in relation to lameness (trunk, fore limb and hind limb).
85	13-8-2022	Lameness: definition, classification and diagnosis
		<b>SPORTS WEEK</b>

86	2-9-2022	Lameness: definition, classification and diagnosis
87	3-9-2022	Canine lameness
88	9-9-2022	Lameness of fore limb
89	10-9-2022	Lameness of fore limb
90	16-9-2022	Lameness of fore limb
91	17-9-2022	Lameness of fore limb
92	23-9-2022	Lameness of hind limb
93	30-9-2022	Lameness of hind limb
94	1-10-2022	Lameness of hind limb
95	7-10-2022	Lameness of hind limb
96	8-10-2022	Fracture
97	14-10-2022	Fracture
98	15-10-2022	Fracture
99	21-10-2022	Fracture
100	22-10-2022	Fracture
101	28-10-2022	Fracture
102	29-10-2022	Fracture
103	4-11-2022	Luxations
104	5-11-2022	Spinal trauma
105	25-11-2022	Rehabilitation and physiotherapy of orthopaedic patients
		<b>REVISION</b>
106	2-12-2022	General surgery
107	3-12-2022	General surgery
<b>THIRD INTERNAL EXAM</b>		
108	16-12-2022	General surgery
109	17-12-2022	General surgery
110	23-12-2022	General surgery
111	24-12-2022	General surgery

Head of Department