



Department of Veterinary Surgery and Radiology

File No 01/ACVM/VSR/GEN/2025/429

Date:16/09/25

LECTURE SCHEDULE OF VSR THEORY CLASSES FOR 4th Professional year (2025-26)

Sr No	TENTATIVE DATE	TOPIC	TEACHER
1.	19/03/25	Introduction: Historical perspective, Definitions, classification of surgery, tenets of Halsted.	Dr. Vishal Gurjar
2.	20/03/25	Pre-operative, intraoperative and post-operative considerations	Dr. Ramprasad
3.	26/03/25	History taking, physical examination, clinico-pathological testing, intraoperative and postoperative care.	Dr. Vishal Gurjar
4.	27/03/25	Sterilization and disinfection: Definitions, surgical sterilization, various methods of sterilization (Heat, chemical and radiations etc.), disinfections.	Dr. Mrignayni Rajput
5.	02/04/25	Sutures: Definitions, suturing, factors influencing suturing, characteristics of an ideal suture material	Dr. Mrignayni Rajput
6.	03/04/25	Types of suture material-absorbable and non-absorbable, surgical knots,	Dr.Mrignayni Rajput
7.	09/04/25	Various suture patterns-apposition, eversion, inversion and special.	Dr.Mrignayni Rajput
8.	16/04/25	Treatment of acute and chronic inflammation: Use of anti-inflammatory drugs and proteolytic enzymes	Dr. Ramprasad
9.	17/04/25	Haemostasis (physical and chemical methods, systemic haemostats, surgical diathermy)	Dr. Ramprasad
10.	23/04/25	Basic surgical affections: Definitions, classification, diagnosis and treatment of abscess, tumour, cyst, hernia, haematoma	Dr. Vishal Gurjar
11.	24/04/25	Necrosis, gangrene, burn and scald, frost bite and surgical affections of muscles, artery and vein, sinus and fistula.	Dr Vishal Gurjar
12.	30/04/25	Wounds: Definition, classification, examination and diagnosis, general principles for treatment of aseptic, contaminated and septic wounds	Dr Vishal Gurjar
13.	01/05/25	Healing and factors affecting wound healing, complications of wounds and their remedies	Dr. Mrignayni Rajput
14.	7/05/25	Surgical infection; their prevention and management:	Dr. Mrignayni Rajput
15.	8/05/25	Classification of infection, Introduction to biomaterials and stem cell therapy in wound management	Dr. Ramprasad

16.	14/05/25	Management of surgical shock. Principles of fluid therapy in surgical patients.	Dr. Vishal Gurjar
17.	15/05/25	Introduction: Development of anaesthesiology, Terminology,	Dr. Mrignayni Rajput
18.	21/05/25	Classification and indications. General considerations of anaesthesia:	Dr. Mrignayni Rajput
19.	22/05/25	Factors affecting anaesthesia and selection of anaesthetic technique, factors modifying uptake, distribution and elimination,	Dr. Ramprasad
20.	28/05/25	Patient evaluation, categories of patients according to physical status, selection of anaesthetic agent and patient preparation	Dr. Ramprasad
21.	4/06/25	Pain and its management in animals Local and regional anaesthesia: Definitions, local anaesthetics	Dr. Ramprasad
22.	5/06/25	mechanism of action Premedication, properties and use of different preanaesthetics: Uses of premedication, ,	Dr. Mrignayni Rajput
23.	11/06/25	Anticholinergic, sedatives and tranquilizers (Phenothiazine derivatives, Benzodiazepines, Butyrophenones, Narcotic analgesics,	Dr. Mrignayni Rajput
24.	12/06/25	Alpha-2 agonists, dosage chart of all the drugs.	Dr. Mrignayni Rajput
25.	18/06/25	General anaesthesia: Definitions, methods of induction of anaesthesia, Intravenous anaesthetics (Total intravenous anaesthesia),	Dr. Vishal Gurjar
26.	19/06/25	Monitoring of anaesthesia.	Dr. Vishal Gurjar
27.	25/06/25	Inhalation anaesthesia: Advantages of inhalant anaesthetics, methods of administration of inhalant anaesthesia	Dr. Vishal Gurjar
28.	26/06/25	types of inhalant anaesthetics their properties and effect on various systems,	Dr. Vishal Gurjar
29.	02/07/25	Dissociative anaesthesia: Definition, drugs, clinical application, properties and effect on various body systems	Dr. Ramprasad
30.	3/07/25	Avian, wild, zoo, exotics and lab animal anaesthesia and capture myopathy	Dr. Ramprasad
31.	9/07/25	Anaesthetic emergencies and management	Dr. Ramprasad
32.	10/07/25	Toxicity, antidote and reversal agents.	Dr. Mrignayni Rajput

33.	16/07/2025	Introduction to Radiology-General terminology of radiology	Dr. Ramprasad
34.	17/07/2025	Physical properties of X-Rays, Scope and uses of Radiology, Directional terms for veterinary radiology	Dr. Mrignayni Rajput
35.	23/07/2025	Production of X-rays and factors influencing production of X-rays.	Dr Vishal Gurjar
36.	24/07/2025	Radiation hazards and safety measures- Scattered radiation,	Dr. Ramprasad
37.	30/07/2025	Biological effects of radiation, Direct and indirect effects, Early and late effects, Radiation sensitivity of different body cells	Dr. Mrignayni Rajput
38.	31/07/2025	Radiation protection, General principles of radiation safety, Radiation monitoring devices,	Dr Vishal Gurjar
39.	12/09/2025	Requirement of an ideal radiographic section. The statutory requirements of radiology set-up as per Atomic Energy Regulatory Board of India (AERB).	Dr. Ramprasad
40.	7/08/2025	Production of quality diagnostic radiograph. Recording of image- Manual and digital processing of X-ray films, storage and retrieval system.	Dr. Mrignayni Rajput
41.	8/08/2025	Radiographic Quality and faults- Radiographic detail, density and contrast and factors affecting them, Radiographic faults, their possible causes and prevention.	Dr Mrignayni Rajput
42.	14/08/2025	Contrast radiography- Definition, indications, contraindications and types of contrast radiography	Dr. Ramprasad
43.	21/08/2025	Different contrast materials and their use, Techniques of some selected contrast radiography in animals(Barium swallow, Retrograde urography etc)	Dr. Ramprasad
44.	22/08/2025	Diagnostic ultrasonography- Principles, indications	Dr Vishal Gurjar
45.	28/08/2025	Techniques and artifacts of ultrasonography.	Dr. Vishal Gurjar

46.	29/08/2025	Advanced diagnostic imaging tools- The brief introduction to the use and limits of some advanced imaging techniques, Interventional radiology – CAT scanning, MRI, etc	Dr. Mrignayni Rajput
47.	4/09/2025	Xeroradiography, Nuclear Scintigraphy	Dr Vishal Gurjar
48.	11/09/2025	Head and Neck: Affections of lips, cleft palate, tongue, cheek, and their treatment	Dr. Ramprasad
49.	12/09/2025	General anatomical considerations, avulsion of lip, cleft lip ranula, neoplasm and traumatic injuries. Affections of teeth and jaws and their treatment:	Dr. Ramprasad
50.	18/09/2025	General anatomical considerations, Developmental abnormalities, dental tartar, periodontal disease, overgrown molars, fractures and luxations of jaw	Dr Ramprasad
51.	19/09/2025	Affections of nose, face, ear, head and horn and their treatment:	Dr. Ramprasad
52.	25/09/2025	General anatomical considerations. Brachycephalic syndrome, Stenotic nostrils, nasal polyps, empyema of sinuses,	Dr. Vishal Gurjar
53.	26/09/2025	fracture and avulsion of horn, horn cancer	Dr Vishal Gurjar
54.	3/10/2025	aural haematoma, otitis, Affections of eye and their treatment: General anatomical considerations and examination of eye.	Dr. Vishal Gurjar
55.	9/10/2025	Affections of eyelids and nictitating membrane and their treatment	Dr Mrignayni Rajput
56.	10/10/2025	Entropion, ectropion, chalazion, sty, Cherry eye and traumatic injuries	Dr. Vishal Gurjar
57.	30/10/2025	Affections of lachrymal apparatus, eyeball and orbit and their treatment: occlusion of nasolacrimal duct,	Dr. Vishal Gurjar
58.	31/10/2025	Traumatic proptosis, panophthalmia, orbital neoplasms, , eye worms.	Dr Vishal Gurjar

59.	6/11/2025	Glaucoma	Dr. Mrignayni Rajput
60.	7/11/2025	Management of ocular emergencies.	Dr. Mrignayni Rajput
61.	13/11/2025	Affections of cornea, iris and lens and their treatment: corneal ulcers, corneal opacity, Kerato Conjunctivitis Sicca (KCS), prolapse of iris, corneal dermoid, corneal lacerations and perforations,	Dr Ramprasad
62.	14/11/2025	cataract	Dr. Ramprasad
63.	20/11/2025	Affections of guttural pouch, oesophagus and their treatment: General anatomical considerations. Empyema, tympanitis and Mycosis of guttural pouch	Dr. Mrignayni Rajput
64.	21/11/2025	Oesophageal diverticulum, megaoesophagus, achalasia and choke	Dr Mrignayni Rajput
65.	27/11/2025	Affections of glands of head and neck and their treatment:	Dr. Ramprasad
66.	28/11/2025	General anatomical considerations. Salivary mucocele, sialoliths, salivary fistula	Dr. Mrignayni Rajput
67.	4/12/2025	General anatomical considerations. Yoke gall, yoke abscess, fistulous withers, poll evil, torticollis.	Dr Vishal Gurjar
68.	5/12/2025	Affections of larynx and Trachea: Tracheal collapse, stenosis, roaring in horses,	Dr. Mrignayni Rajput
69.	11/12/2025	dorsal entrapment of soft palate in horses and camels, emergency tracheotomy.	Dr. Mrignayni Rajput
70.	12/12/2025	Thorax and Abdomen: Thoracic affections: Surgical approaches, perforated wounds, pyothorax, pneumothorax, pneumocele	Dr Ramprasad
71.	18/12/2025	Diaphragmatic hernia and traumatic pericarditis in cattle	Dr. Ramprasad
72.	19/12/2025	Common surgical affections of the stomach in dogs and their management: dilation and torsion of stomach, gastric	Dr. Mrignayni Rajput

		ulcerations, foreign bodies in the stomach, pyloric stenosis. etc	
73.	26/12/2025	Surgical affections of the stomach in large animal and their management: Ruminal impaction, traumatic reticulitis,	Dr Vishal Gurjar
74.	2/01/2026	omasal and abomasal impaction and abomasal displacement	Dr. Ramprasad
75.	3/01/2026	Surgical affections of small intestines and their management: Intestinal obstruction, intussusception and strangulation (volvulus).	Dr. Mrignayni Rajput
76.	9/01/2026	Techniques of intestinal anastomosis	Dr Vishal Gurjar
77.	10/01/2026	Surgical affections of large intestine and their management: Caecal dilatation and torsion, rectal prolapse, rectal and perineal tear, recto-vaginal fistula.	Dr. Ramprasad
78.	16/01/2026	Surgical affections of anus and perineal region and their management: Atresia-ani, anal stenosis, anal sac impaction.	Dr. Mrignayni Rajput
79.	17/01/2026	Other surgical affections of abdomen and their management: Perforating wounds and fistulae of abdomen, umbilical hernia, ventral abdominal hernia, inguinal and scrotal hernia, perineal hernia	Dr Vishal Gurjar
80.	23/01/2026	Urinary system: Urolithiasis and its management. Urolithiasis in small and large animals. Patent urachus, ectopic ureter.	Dr. Ramprasad
81.	24/01/2026	Surgical management of equine colic.	Dr. Mrignayni Rajput
82.	30/01/2026	Genital system: Surgical affections of male genital system and their management, prostatic enlargement or hyperplasia or neoplasm, Phimosis, paraphimosis, preputial prolapse, penile amputation	Dr Vishal Gurjar
83.	31/01/2026	Castration, vasectomy, scrotal ablation in large and small animals.	Dr. Ramprasad
84.	5/02/2026	Surgical affections of female genital system and their management: Canine transmissible venereal tumour.	Dr. Mrignayni Rajput

85.	6/02/2026	Ovariohysterectomy, Caesarean section	Dr Vishal Gurjar
86.	12/02/2026	Applications of rigid and flexible endoscopes in the management of surgical disorders.	Dr. Ramprasad
87.	13/02/2026	Integumentary system: Surgical affections of udder, teat and canine mammary neoplasms.	Dr. Mrignayni Rajput
88.	19/02/2026	Surgical affections of tail and tail docking Wild or zoo animal surgery	Dr Vishal Gurjar
89.	20/02/2026	Body conformation of the horse in relation to lameness (trunk, fore limb and hind limb).	Dr. Ramprasad
90.	26/02/2026	Lameness: Its definition classification and diagnosis	Dr. Mrignayni Rajput
91.	27/02/2026	General methods of therapy for lameness Body and limb conformation in relation to lameness in equine.	Dr Vishal Gurjar
92.	5/03/2026	Equine lameness: Shoulder slip (sweeny), bicipital bursitis, omarthritis, capped elbow, radial paralysis, carpalitis. Bent knee, and knock- knee. Hygroma of knee, open knee, blemished knee.	Dr. Ramprasad
93.	6/03/2026	Fracture of carpal bone, fracture of accessory carpal, contraction of digital flexors.	Dr. Mrignayni Rajput
94.	12/03/2026	Splints, sore shin, wind puffs, sesamoid iris Osstots, ringbone, quittor, side bone, Navicular disease, pyramidal disease.	Dr Vishal Gurjar
95.	13/03/2026	Laminitis, sand crack, seedy toe, fractures of third phalanx, pedal osteitis, and sole penetration. Canker, thrush and corn,	Dr. Ramprasad P. Mandade
96.	19/03/2026	Monday morning disease, cording up, myositis of psoas, Mac thrombosis, Crural paralysis, subluxation of sacroiliac joint rupture of round ligament trochantric bursitis.	Dr. Mrignayni Rajput
97.	26/03/2026	Upward fixation of patella, stringhalt	Dr Vishal Gurjar

98.	2/04/2026	Gonitis, chondromalacia of patella, rupture of tendoachilles, rupture of peroneus tertius, fibrotic myopathy and ossifying myopathy	Dr. Ramprasad P. Mandade
99.	9/04/2026	Thoroughpin, bog spavin, spavin, curb, capped hock. Canine lameness: Intervertebral disc diseases,	Dr. Mrignayni Rajput
100.	10/04/2026	Elbow and hip dysplasia, rupture of cruciate ligament, elbow hygroma etc.; their management, Onychectomy	Dr Vishal Gurjar
101.	16/04/2026	Bovine lameness: Contusion of sole, ulceration of sole, septic laminitis, avulsion of hoof and subluxation of patella, interdigital fibroma, cyst, sand crack, and hoof deformities.	Dr. Ramprasad P. Mandade
102.	17/04/2026	Fracture: Definitions, classification Fracture healing and complications.	Dr. Mrignayni Rajput
103.	23/04/2026	Fracture: The preliminary assessment and management of fractures. Techniques of external immobilization of fractures Techniques of internal immobilization of fractures. Management of fracture complications	Dr Vishal Gurjar
104.	24/04/2026	Luxations: Definition, signs, diagnosis. Management of common joint luxations in animals.	Dr. Ramprasad P. Mandade
105.	30/04/2026	Spinal trauma, diagnosis and its management Rehabilitation and physiotherapy of orthopaedic patients	Dr. Mrignayni Rajput
106.	From 11/05/26 Onward	Revision classes	Dr Vishal Gurjar

PRACTICAL SCHEDULE OF VSR CLASSES FOR 4th PROFESSIONAL YEAR

Sr. No.	Name of Exercise	Instructor	Batch-A	Batch-B	Batch-C
Unit I (VETERINARY GENERAL SURGERY)					
1.	Introduction to layout of operation theatre and surgical unit	Dr. Vishal Gujar	17/3/25	18/3/25	19/3/25
2.	Common surgical equipment and instruments	Dr. Ashok Kumar, Dr. Vishal Gujar	24/3/25	25/3/25	26/3/25
3.	Suture materials, surgical knots and suture patterns	Dr. Ashok Kumar, Dr. Vishal Gujar	31/3/25)	1/4/25	2/4/25
4.	General examination of surgical patients.	Dr. Ramprasad P. Mandade	07/4/25	8/4/25	9/4/25
5.	Preparation of surgical patients, theatre and surgeon	Dr. Ramprasad P. Mandade	14/4/25)	15/4/25	16/4/25
6.	Preparation of surgical pack and sterilization of surgical instruments	Dr. Mrignayni Rajput	21/4/25	22/4/25	23/4/25
7.	Basic wound management and bandaging	Dr. Mrignayni Rajput	28/4/25	29/4/25)	30/4/25
8.	Control of haemorrhage and demonstration of surgical procedure	Dr. Ramprasad P. Mandade	5/5/25	6/5/25	7/5/25
Unit II (VETERINARY ANAESTHESIOLOGY)					
1.	Anaesthetic apparatus and methods of administration of inhalant anaesthetics	Dr. Ramprasad P. Mandade	12/5/25	13/5/25	14/5/25
2.	Monitoring equipment and accessories	Dr. Vishal Gujar	19/5/25	20/5/25	21/5/25
3.	Methods of local infiltration anaesthesia and regional nerve block	Dr. Vishal Gujar	26/5/25	27/5/25	28/5/25
4.	Canine and feline anaesthesia	Dr. Mrignayni Rajput	2/6/25	3/6/25	4/6/25
5.	Equine and swine anaesthesia	Dr. Mrignayni Rajput	9/6/25	10/6/25	11/6/25
6.	Ruminant anaesthesia	Dr. Ashok Kumar	16/6/25	17/6/25	18/6/25
7.	Monitoring of general anaesthesia	Dr. Mrignayni Rajput	23/6/25	24/6/25	25/6/25
8.	Management of anaesthetic emergencies, use of artificial respirator and analeptics	Dr. Vishal Gujar	30/6/25	1/7/25	2/7/25
9.	Wild animal anaesthesia and visit to zoological park	Dr. Ramprasad P. Mandade	7/7/25	8/7/25	9/7/25

Sr. No.	Name of Exercise	Instructor	Batch-A	Batch-B	Batch-C
Unit III : VETERINARY DIAGNOSTIC IMAGING TECHNIQUES					
1.	Familiarization with operation of x-ray equipment, x-ray accessories, radiation hazards and safety procedures	Dr. Vishal Gujar Dr. Ashok Kumar	14/7/25	15/7/25	16/7/25
2.	Formulation of x – ray exposure chart and film processing	Dr.Mrignayni Rajput	21/7/25	22/7/25	23/7/25
3.	Radiographic positioning of different parts of the body in small and large animals	Dr. Ramprasad P. Mandade Dr. Ashok Kumar	28/7/25	29/7/25	30/7/25
4.	Handling, viewing, interpretation, qualities of an ideal diagnostic radiograph and artifacts	Dr. Vishal Gujar	4/8/25	5/8/25	6/8/25
5.	Radiographic pathology of head, neck and spine of small and large animals	Dr.Mrignayni Rajput Dr. Ashok Kumar	11/8/25	12/8/25	13/8/25
6.	Radiographic pathology of thorax and abdomen of small and large animals	Dr. Ramprasad P. Mandade	18/8/25	19/8/25	20/8/25
7.	Radiographic pathology of appendicular skeleton of small and large animals	Dr. Vishal Gujar Dr. Ashok Kumar	25/8/25	26/8/25	27/8/25
Unit IV: REGIONAL SURGERY-I					
1.	Amputation of horn and disbudding	Dr. Ramprasad P. Mandade	1/9/25	2/9/25	3/9/25
2.	Tooth rasping	Dr. Vishal Gujar	8/9/25	9/9/25	10/9/25
3.	Dental scaling	Dr.Mrignayni Rajput Dr. Ashok Kumar	15/9/25	16/9/25	17/9/25
4.	Examination of ear (otoscopy)	Dr. Ramprasad P. Mandade	22/9/25	23/9/25	24/9/25
5.	Examination of eye	Dr. Vishal Gujar	29/9/25	30/9/25	1/10/25
6.	Aural haematoma	Dr.Mrignayni Rajput	6/10/25	7/10/25	8/10/25
7.	Protection and bandage of eyes	Dr. Ramprasad P. Mandade	13/10/25	14/10/25	15/10/25
8.	Tarsorrhaphy	Dr. Vishal Gujar	20/10/25	21/10/25	22/10/25
9.	Third eyelid flap	Dr.Mrignayni Rajput	27/10/25	28/10/25	29/10/25
10.	Flushing of nasolacrimal duct	Dr. Ramprasad P. Mandade	3/11/25	4/11/25	5/11/25

Sr. No.	Name of Exercise	Instructor	Batch-A	Batch-B	Batch-C
Unit V : REGIONAL SURGERY -II					
1.	Castration of Different Species	Dr. Vishal Gujar	10/11/25	11/11/25	12/11/25
2.	Ovariohystrectomy in Bitch and Cat	Dr.Mrignayni Rajput	17/11/25	18/11/25	19/11/25
3.	Rumenotomy	Dr. Ramprasad P. Mandade	24/11/25	25/11/25	26/11/25
4.	Gastrotomy in Dog	Dr. Vishal Gujar	1/12/25	2/12/25	3/12/25
5.	Urethrotomy in Bovine	Dr.Mrignayni Rajput	8/12/25	9/12/25	10/12/25
6.	Urethrostomy in Bovine	Dr. Ramprasad P. Mandade	15/12/25	16/12/25	17/12/25
7.	Cystotomy in Dog	Dr. Vishal Gujar	22/12/25	23/12/25	24/12/25
8.	Enteroromy	Dr.Mrignayni Rajput	29/12/25	30/12/25	31/12/25
9.	Enterectomy	Dr. Ramprasad P. Mandade	5/1/26	6/1/26	7/1/26
10.	Management of Teat and Udder affections	Dr. Vishal Gujar	12/1/26	13/1/26	14/1/26
11.	Amputation of Tail	Dr.Mrignayni Rajput	19/1/26	20/1/26	21/1/26
12.	Prepuccial Circumcision (Amputation) in the Bull	Dr.Mrignayni Rajput	2/2/26	27/1/26	28/1/26
13.	Rectal Prolapse	Dr. Ramprasad P. Mandade	9/2/26	3/2/26	4/2/26
14.	Thoracocentesis and Abdominocentesis	Dr. Vishal Gujar	16/2/26	10/2/26	11/2/26
Unit VI: ORTHOPAEDICS AND LAMENESS					
1.	Orthopaedic Instruments and Implant	Dr. Ramprasad P. Mandade	23/2/26	17/2/26	18/2/26
2.	Orthopaedic Examination for lameness	Dr. Vishal Gujar	9/3/26	24/2/26	25/2/26
3.	Neurological examination	Dr.Mrignayni Rajput	16/3/26	3/3/26	11/3/26
4.	Diagnostics nerve blocks in horses for lameness	Dr. Ramprasad P. Mandade	23/3/26	10/3/26	18/3/26
5.	Physiotherapy technique	Dr. Vishal Gujar	30/3/26	17/3/26	25/3/26
6.	Basic limb stabilisation technique and splinting technique	Dr.Mrignayni Rajput	6/4/26	24/3/26	1/4/26
7.	Application of cast in small and large animals	Dr. Ramprasad P. Mandade	13/4/26	7/4/26	8/4/26
8.	Internal fixation techniques	Dr. Vishal Gujar	20/4/26	21/4/26	15/4/26
9.	Medial patellar Desmotomy in Bovines	Dr.Mrignayni Rajput	27/4/26	28/4/26	22/4/26
10.	Examination of horses for soundness, conformation and lameness	Dr. Ramprasad P. Mandade	4/5/26	12/5/26	29/4/26
11.	From 12/05/26 Onward Practice/Demo classes	Dr.Mrignayni Rajput Dr. Ramprasad P. Mandade Dr Vishal Gurjar			