



DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
 AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



Acum/VIP/2024/965

Course Instructors:

- 1) Dr. Vijay D. Domple, Ph.D., Prof. & Head
- 2) Dr. Shraddha D. Sirsat, Ph.D., Associate Professor
- 3) Dr. Lalit Kumar Saini, M.V.Sc., Assistant Professor
- 4) Dr. Deepak Sharma, M.V.Sc., Assistant Professor

Unit- I: Blood, Cardiovascular, Nervous and Muscular Systems

Unit-II: Digestive and Respiratory Systems

Unit-III: Excretory and Endocrine Systems

Unit-IV: Reproduction, Lactation, Growth and Environmental Physiology

LECTURE SCHEDULE – THEORY (VETERINARY PHYSIOLOGY)

First Professional Year B.V.Sc. & A.H.

Credit Hours :4+1

SESSION: 2024-25

S. No.	Date	Name of Topics	Name of Course Teacher	Hours
UNIT-I				
1.	15.10.2024	Introduction to Blood	Dr. Lalit Kumar Saini	1
2.	16.10.2024	Properties of blood as a body fluid	Dr. Shraddha D Sirsat	1
3.	18.10.2024	Metabolism & Fate of R.B.C	Dr. Lalit Kumar Saini	1
4.	19.10.2024	Hemoglobin-chemical structure, synthesis,	Dr. Shraddha D Sirsat	1
5.	22.10.2024	Physiological functions, derivatives of hemoglobin	Dr. Lalit Kumar Saini	1
6.	23.10.2024	Heart- morphological characteristic,	Dr. Shraddha D Sirsat	1
7.	25.10.2024	Systemic excitability conduction and transmission processes	Dr. Lalit Kumar Saini	1
8.	26.10.2024	Cardiac cycle	Dr. Shraddha D Sirsat	1
9.	11.11.2024	Regulation of cardiac output	Dr. Lalit Kumar Saini	1
10.	12.11.2024			1
11.	16.11.2024	Coronary circulation; properties of pulse	Dr. Shraddha D Sirsat	1
12.	18.11.2024			1
13.	19.11.2024	Metabolism and energetic of working myocardial Cell, extrinsic and intrinsic regulation	Dr. Lalit Kumar Saini	1
14.	22.11.2024	Electro Cardio Graph and its significance in Veterinary	Dr. Shraddha D Sirsat	1
15.	23.11.2024	Sciences		1



DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



16.	25.11.2024	Echocardiography	Dr. Lalit Kumar Saini	1
17.	26.11.2024	Haemorrhage haemostasis	Dr. Shraddha D Sirsat	1
18.	29.11.2024	Haemo-dynamics of circulation, circulatory mechanics,	Dr. Lalit Kumar Saini	1
19.	30.11.2024	resistance to flow, vasoconstriction,	Dr. Lalit Kumar Saini	1
20.	2.12.2024	Nervous and circulating fluid volume controls of blood pressure,	Dr. Shraddha D Sirsat	1
21.	3.12.2024	Neuro-hormonal control of vascular smooth muscle	Dr. Lalit Kumar Saini	1
22.	6.12.2024	Circulatory controls- shock stresses, regional and fetal circulation	Dr. Shraddha D Sirsat	1
23.	7.12.2024	Capillary exchange, control of blood Pressure	Dr. Lalit Kumar Saini	1
24.	9.12.2024	Adjustment of circulation during exercise	Dr. Shraddha D Sirsat	1
25.	10.12.2024	Muscle Physiology-basic muscle unit characteristic-	Dr. Lalit Kumar Saini	1
26.	13.12.2024	electrical phenomenon in muscle cell	Dr. Lalit Kumar Saini	1
27.	16.12.2024	Muscle action potential, excitation and propagation of impulse characteristics, latent period, refractiveness, threshold level, all and none characteristics	Dr. Shraddha D Sirsat	1
28.	17.12.2024	Contractile mechanism, excitation, contraction coupling	Dr. Lalit Kumar Saini	1
29.	20.12.2024	Neuro-muscular transmission	Dr. Shraddha D Sirsat	1
30.	21.12.2024		Dr. Shraddha D Sirsat	1
31.	23.12.2024	Types of muscle contraction, phenomenon of fatigue,	Dr. Lalit Kumar Saini	1
32.	24.12.2024	rigor mortis	Dr. Lalit Kumar Saini	1
33.	27.12.2024	Organization of nervous system	Dr. Shraddha D Sirsat	1
34.	28.12.2024	Mechanism of information processing,	Dr. Lalit Kumar Saini	1
35.	30.12.2024	Hierarchical control	Dr. Shraddha D Sirsat	1
36.	31.12.2024	Major function system- sensory, consciousness,	Dr. Lalit Kumar Saini	1
37.	3.01.2025	emotion, motor and visceral control	Dr. Lalit Kumar Saini	1
38.	4.01.2025	Basic functional unit, neuron structure, type; functional characteristics of sub-units of neuron	Dr. Shraddha D Sirsat	1
39.	7.01.2025	Membrane potential, ionic basis of resting membrane potential (RMP) nerve action potential,	Dr. Lalit Kumar Saini	1
40.	10.01.2025	Excitation and propagation of impulse characteristics, latent period	Dr. Shraddha D Sirsat	1
41.	13.01.2025	Refractive-ness, threshold level-all and none characteristics	Dr. Lalit Kumar Saini	1
42.	17.01.2025	Degeneration and regeneration of nerve fibre. Synaptic	Dr. Shraddha D Sirsat	1
43.	18.01.2025	and junctional transmission	Dr. Shraddha D Sirsat	1
44.	20.01.2025	Functions of nervous system-reflexes-control of posture and movements	Dr. Lalit Kumar Saini	1
45.	21.01.2025	Autonomic nervous system and visceral control	Dr. Shraddha D Sirsat	1



DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



			Sirsat	
46.	24.01.2025	Neurotransmitter wakefulness, sleep cycle	Dr. Lalit Kumar Saini	1
47.	25.01.2025	Higher function of neurons system, learning, memory,	Dr. Shraddha D	1
48.	27.01.2025	electroencephalography	Sirsat	1
49.	28.01.2025	Sense organs and receptors physiology of special senses,	Dr. Lalit Kumar Saini	1
50.	31.01.2025	Eye: functional morphology, nourishment and protection neural pathway	Dr. Shraddha D Sirsat	1
51.	1.02.2025	Receptors, optics, ocular muscles and movements, photochemistry, Vision defects	Dr. Lalit Kumar Saini	1
52.	3.02.2025	Ear: Physiology of hearing and common hearing impairment	Dr. Shraddha D Sirsat	1
53.	4.02.2025	Vestibule apparatus	Dr. Lalit Kumar Saini	1
54.	7.02.2025	Physiology of olfaction and taste	Dr. Shraddha D Sirsat	1
	10.02.2025	Unit-II		
55.	11.02.2025	Morphological characteristic of mono gastric and poly	Dr. Lalit Kumar Saini	1
56.	14.02.2025	gastric digestive system	Saini	1
57.	15.02.2025	Functional morphology of respiratory apparatus	Dr. Shraddha D	1
58.	17.02.2025		Sirsat	1
59.	18.02.2025	Prehension, rumination; defecation; vomition	Dr. Lalit Kumar Saini	1
60.	21.02.2025	Regulation of secretory function of saliva, stomach	Dr. Shraddha D	1
61.	22.02.2025		Sirsat	1
62.	24.02.2025	Mechanics of breathing, Transport of blood gases	Dr. Lalit Kumar Saini	1
63.	25.02.2025		Saini	1
64.	28.02.2025	Foetal and neonatal oxygen transport	Dr. Shraddha D Sirsat	1
65.	1.03.2025	Regulation of intestine, Regulation of pancreas	Dr. Lalit Kumar Saini	1
66.	3.03.2025	Regulation of bile secretion, Hunger, appetite control	Dr. Shraddha D Sirsat	1
67.	4.03.2025	Dissociation curves, pressures, Respiration in birds	Dr. Lalit Kumar Saini	1
68.	7.03.2025	Surfactants, pleural liquid, compliance	Dr. Shraddha D Sirsat	1
69.	10.03.2025		Dr. Shraddha D Sirsat	1
70.	11.03.2025	Exchanges of gases in lungs and tissues	Dr. Lalit Kumar Saini	1
71.	17.03.2025	Developmental aspects of digestion; luminous, membranous.	Dr. Shraddha D Sirsat	1
72.	22.03.2025	Microbial digestion in rumen	Dr. Lalit Kumar Saini	1
73.	24.03.2025		Saini	1
74.	25.03.2025	Recoil tendency, elasticity, Neural and chemical	Dr. Shraddha D	1

DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE

AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



		regulation of breathing	Sirsat	
75.	28.03.2025	Diffusion, Perfusion, hypoxia, high altitude hypoxia, Non-respiratory lung functions	Dr. Lalit Kumar Saini	1
76.	29.03.2025	Microbial digestion intestine	Dr. Shraddha D Sirsat	1
77.	1.04.2025	Permeability characteristics of intestine	Dr. Vijay Domple	1
78.	1.04.2025			1
79.	4.04.2025	Forces governing absorption	Dr. Shraddha D Sirsat	1
80.	5.04.2025	Control intestinal transport of electrolyte and water	Dr. Lalit Kumar Saini	1
81.	7.04.2025	Frictional resistance to air flow, Panting	Dr. Vijay Domple	1
82.	8.04.2025	Digestion in birds	Dr. Shraddha D Sirsat	1
83.	15.04.2025			1
84.	19.04.2025	Enzymatic digestion in monogastric	Dr. Lalit Kumar Saini	1
85.	21.04.2025			1
86.	22.04.2025	Fermentative digestion in rumen	Dr. Vijay Domple	1
87.	25.04.2025	Modification of toxic substances in rumen	Dr. Lalit Kumar Saini	1
88.	26.04.2025	Respiratory muscle work, Airways smooth muscle contraction,	Dr. Vijay Domple	1
89.	28.04.2025	Adaptation of respiration during muscle exercise	Dr. Shraddha D Sirsat	1
	1.05.2025	Unit III		
90.	2.05.2025	Kidney- Functional morphology of nephrons, factors	Dr. Lalit Kumar Saini	1
91.	3.05.2025	Determining filtration pressure		1
92.	7.05.2025	Determination of glomerular filtration rate (GFR) and renal plasma flow	Dr. Shraddha D Sirsat	1
93.	8.05.2025			1
94.	9.05.2025	Re-absorption mechanisms for glucose, protein, amino acids, electrolytes; ammonium mechanism	Dr. Vijay Domple	1
95.	14.05.2025			1
96.	15.05.2025	Glomerulo-tubular balance, methods of studying renal functions; urine concentration	Dr. Deepak Sharma	1
97.	16.05.2025			1
98.	17.05.2025	Micturition, uremia	Dr. Lalit Kumar Saini	1
99.	21.05.2025	Fluid, water balance, fluid therapy, dehydration	Dr. Vijay Domple	1
100.	22.05.2025	Water concentration mechanisms	Dr. Lalit Kumar Saini	1
101.	23.05.2025	Acid base balance and H ⁺ regulation	Dr. Deepak Sharma	1
102.	24.05.2025			1
103.	28.05.2025	Correction and evolution of imbalances, total osmotic pressure	Dr. Vijay Domple	1
104.	30.05.2025		Dr. Shraddha D Sirsat	1
105.	31.05.2025	Formation and excretion of urine of Birds.	Dr. Deepak Sharma	1
106.	4.06.2025	Cerebrospinal fluid, synovial fluids - composition,	Dr. Lalit Kumar	1

DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE

AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



		formation and flow	Saini	
107.	5.06.2025	Joints. Regulation of bone metabolism and homeostasis	Dr. Vijay Dimple	1
108.	6.06.2025	Hormone cell interaction, sub-cellular mechanisms metabolism of hormones	Dr. Lalit Kumar Saini	1
109.	11.06.2025	Methods of study of endocrine system; Receptors-	Dr. Deepak Sharma	1
110.	12.06.2025	mechanism of regulation		1
111.	13.06.2025	Chemistry of hypothalamo- hypophyseal hormones, target organ, pineal	Dr. Lalit Kumar Saini	1
112.	18.06.2025	Thyroid, thymus	Dr. Shraddha D Sirsat	1
113.	19.06.2025	Pancreas, adrenal	Dr. Deepak Sharma	1
114.	20.06.2025	Prostaglandins, hormones of calcium metabolism, disorders	Dr. Shraddha D Sirsat	1
115.	25.06.2025	Rennin-angiotensin system, atrial natriuretic factors, erythropoietin	Dr. Lalit Kumar Saini	1
116.	26.06.2025	GI hormones, pheromones	Dr. Vijay Dimple	1
	27.06.2025	Unit IV		
117.	28.06.2025	Genetic and endocrine control of gonadal development,	Dr. Shraddha D Sirsat	1
118.	30.06.2025	modification of gonadotrophin release		1
119.	1.07.2025	Ovarian functions, follicular development, dynamics	Dr. Deepak Sharma	1
120.	4.07.2025			1
121.	5.07.2025	Endocrine and receptor profiles, sexual receptivity, ovarian cycle	Dr. Vijay Dimple	1
122.	7.07.2025	Post-partum ovarian activity, ovum transport, capacitation, fertilization	Dr. Lalit Kumar Saini	1
123.	8.07.2025	Reproductive cycles in farm animals- hormones present	Dr. Shraddha D Sirsat	1
124.	11.07.2025	in the biological fluids during pregnancy and their uses for the diagnosis of pregnancy		1
125.	14.07.2025	Maternal foetal placental participation in pregnancy and parturition	Dr. Vijay Dimple	1
126.	15.07.2025	Immunology of gestation, preparturient endocrine status.	Dr. Deepak Sharma	1
127.	18.07.2025	Spermatogenic cycle and wave- function of sertoli cell leydig cell-semen - composition- evaluation	Dr. Vijay Dimple	1
128.	19.07.2025	Testosterone - function and regulation - cryptorchidism	Dr. Lalit Kumar Saini	1
129.	21.07.2025	Puberty - photoperiod - uses of androgens, progestogens, estrogens	Dr. Shraddha D Sirsat	1
130.	22.07.2025	Functional and metabolic organization of mammary glands - structure and development	Dr. Lalit Kumar Saini	1
131.	25.07.2025	Effect of estrogens and progesterone; hormonal control of mammary growth	Dr. Deepak Sharma	1
132.	26.07.2025	Lactogenesis and galactogenesis	Dr. Vijay Dimple	1
133.	28.07.2025	Biosynthesis of milk constituents secretion of milk, and metabolism, prolactin and lactation cycle.	Dr. Shraddha D Sirsat	1
134.	29.07.2025	Biochemical and genetic determinants of growth, regulation of growth,	Dr. Lalit Kumar Saini	1

DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
 AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



135.	1.08.2025	Metabolic and hormone interactions, factors affecting efficiency of growth and production in ruminants and single stomach animals	Dr. Vijay Dimple	1
136.	2.08.2025	Growth in meat producing animals and birds, growth curves. Recombinant gene transfer technologies for growth manipulation- advantages and limitations	Dr. Vijay Dimple	1
137.	4.08.2025	Protein deposition in animals and poultry	Dr. Deepak Sharma	1
138.	5.08.2025	Heat balance, heat tolerance, hypothermia, hyperthermia,	Dr. Lalit Kumar Saini	1
139.	8.08.2025	Thermo-regulation in farm animals, role of skin, responses of animals to heat and cold	Dr. Shraddha D Sirsat	1
140.	11.08.2025	Fever, body temperature and hibernation. Temperature regulation in birds	Dr. Vijay Dimple	1
141.	12.08.2025	Climatology- various parameters and their importance. Effect of different environmental variables like temperature, humidity, light, radiation, altitude on animal performance	Dr. Shraddha D Sirsat	1
142.	18.08.2025	Acclimation, acclimatization - general adaptive syndrome. Clinical aspects of endocrine - reproductive functions, circadian rhythm	Dr. Lalit Kumar Saini	1
143.	19.08.2025	Neurophysiology of behaviours, types of behaviour	Dr. Deepak Sharma	1
144.	22.08.2025	Communication, Learning and memory behavioural plasticity	Dr. Vijay Dimple	1

Name of Teachers:

Dr. Lalit Kumar Saini
(Assistant Professor)

Dr. Deepak Sharma
(Assistant Professor)

Dr. Shraddha D. Sirsat
(Associate Professor)

Dr. Vijay Dimple
HOD

PRACTICAL

S. No.	Date	Name of Topics	Name of Course Teacher
		UNIT-I	
1.	15.10.2024 16.10.2024 17.10.2024 21.10.2024	Collection of blood samples - Separation of serum and plasma - Preservation of de-fibrinated blood	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
2.	22.10.2024 23.10.2024 24.10.2024 25.10.2024	Enumeration of erythrocytes	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
3.	11.11.2024 12.11.2024	Enumeration of leucocytes	Dr. Lalit Kumar Saini

DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
 AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



	13.11.2024 14.11.2024		Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
4.	18.11.2024 19.11.2024 20.11.2024 21.11.2024	Differential leucocytic count	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
5.	25.11.2024 26.11.2024 27.11.2024 28.11.2024	Platelet count	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
6.	2.12.2024 3.12.2024 4.12.2024 5.12.2024	Estimation of hemoglobin - haematocrit	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
7.	9.12.2024 10.12.2024 11.12.2024 12.12.2024	Erythrocyte sedimentation rate - packed cell volume	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
8.	16.12.2024 17.12.2024 18.12.2024 19.12.2024	Coagulation time- bleeding time -Erythrocyte fragility and viscosity	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
9.	23.12.2024 24.12.2024 26.12.2024 30.12.2024	Blood grouping & measurement of arterial blood pressure (Sphygmomanometry)	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
10.	31.12.2024 1.01.2025 2.01.2025 7.01.2025	Recording of ECG	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
11.	8.01.2025 9.01.2025 13.01.2025 15.01.2025	Simulation experiments on Nerve- Muscle and heart physiology	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
	16.01.2025	UNIT-II	
12.	20.01.2025 21.01.2025 22.01.2025 23.01.2025	Counting of rumen motility, estimation of volatile fatty acids	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat



DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



13.	27.01.2025 28.01.2025 29.01.2025 30.01.2025	Estimation of ammonia nitrogen in rumen liquor	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
14.	3.02.2025 5.02.2025 6.02.2025 10.02.2025	Bacterial and protozoal count	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
15.	11.02.2025 12.02.2025 13.02.2025 17.02.2025	In-vitro action of proteolytic enzymes- Amylase, pepsin and trypsin	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
16.	18.02.2025 19.02.2025 20.02.2025 24.02.2025	Recording of respiration, spirometry	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
17.	25.02.2025 27.02.2025 3.03.2025 4.03.2025	Recording of volume and capacities in different physiological states including determination of vital Capacities.	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
	5.03.2025	UNIT III	
18.	6.03.2025 10.03.2025 11.03.2025 12.03.2025	Urine analysis-physiological constituents	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
19.	17.03.2025 18.03.2025 19.03.2025 20.03.2025	Urine analysis - pathological determinates	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
20.	24.03.2025 25.03.2025 26.03.2025 27.03.2025	Determination of Glomerular Filtration Rate. Titerable acidity	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
21.	1.04.2025 2.04.2025 3.04.2025 7.04.2025	Determination of inorganic phosphorus	Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini Dr. Shraddha D Sirsat
22.	8.04.2025 9.04.2025	Urine ammonia nitrogen and creatinine in urine	Dr. Vijay Domple



DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE

AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



	15.04.2025		Dr. Vijay Dimple
	16.04.2025		Dr. Shraddha D Sirsat Dr. Lalit Kumar Saini
23.	17.04.2025	Recording of rumen and intestinal movements	Dr. Vijay Dimple
	21.04.2025	(Demonstration)	Dr. Vijay Dimple
	22.04.2025		Dr. Shraddha D Sirsat
	23.04.2025		Dr. Lalit Kumar Saini
24.	24.04.2025	Bio assay for tropic hormone. Demonstration of	Dr. Vijay Dimple
	28.04.2025	hormone estimation	Dr. Vijay Dimple
	30.04.2025		Dr. Shraddha D Sirsat
	1.05.2025		Dr. Lalit Kumar Saini
		UNIT IV	
25.	1.05.2025	Oestrus and phases of oestrous cycle in animals	Dr. Deepak Sharma
	5.05.2025	(vaginal mucus), Behavioural signs of oestrus	Dr. Vijay Dimple
	6.05.2025		Dr. Shraddha D Sirsat
	7.05.2025		Dr. Lalit Kumar Saini
26.	8.05.2025	Sperm motility	Dr. Deepak Sharma
	12.05.2025		Dr. Vijay Dimple
	13.05.2025		Dr. Shraddha D Sirsat
	14.05.2025		Dr. Lalit Kumar Saini
27.	15.05.2025	Sperm concentration	Dr. Deepak Sharma
	19.05.2025		Dr. Vijay Dimple
	20.05.2025		Dr. Shraddha D Sirsat
	21.05.2025		Dr. Lalit Kumar Saini
28.	22.05.2025	Live and dead	Dr. Deepak Sharma
	26.05.2025		Dr. Vijay Dimple
	27.05.2025		Dr. Shraddha D Sirsat
	28.05.2025		Dr. Lalit Kumar Saini
29.	2.06.2025	Abnormal sperm count	Dr. Deepak Sharma
	3.06.2025		Dr. Vijay Dimple
	4.06.2025		Dr. Shraddha D Sirsat
	5.06.2025		Dr. Lalit Kumar Saini
30.	9.06.2025	Measurement of growth in various species	Dr. Deepak Sharma
	11.06.2025		Dr. Vijay Dimple
	12.06.2025		Dr. Shraddha D Sirsat
	16.06.2025		Dr. Lalit Kumar Saini
31.	17.06.2025	Measuring surface area of animals	Dr. Deepak Sharma
	18.06.2025		Dr. Vijay Dimple
	19.06.2025		Dr. Shraddha D Sirsat
	23.06.2025		Dr. Lalit Kumar Saini
32.	24.06.2025	Health parameters of animals- body temperature,	Dr. Deepak Sharma
	25.06.2025	pulse, respiration and heart rate	Dr. Vijay Dimple
	26.06.2025		Dr. Shraddha D Sirsat
	30.06.2025		Dr. Lalit Kumar Saini
33.	1.07.2025	Measurement of animal environmental conditions.	Dr. Deepak Sharma
	2.07.2025		Dr. Vijay Dimple
	3.07.2025		Dr. Shraddha D Sirsat
	7.07.2025		Dr. Lalit Kumar Saini



DEPARTMENT OF VETERINARY PHYSIOLOGY & BIOCHEMISTRY
APOLLO COLLEGE OF VETERINARY MEDICINE
AGRA ROAD, JAMDOLI, JAIPUR-302031, RAJASTHAN



34.	8.07.2025	Behaviour of animals- mating behavior, feeding	Dr. Deepak Sharma
	9.07.2025	behaviour (live or video graphic or computer simulated	Dr. Vijay Dimple
	10.07.2025	demonstration)	Dr. Shraddha D Sirsat
	14.07.2025		Dr. Lalit Kumar Saini

Name of Teachers:

Dr. Lalit Kumar Saini (Assistant Professor) 15/07/25
Dr. Deepak Sharma (Assistant Professor) 15/07/25

Dr. Shraddha D. Sirsat (Associate Professor) 15/07/25
Dr. Vijay Dimple HOD 15/07/25