

**PONDICHERRY INSTITUTE OF MEDICAL SCIENCES**

**DEPARTMENT OF PHYSIOLOGY**

TEACHING SCHEDULE - NOVEMBER 2025

DATE	TOPIC	Competency	Hours	Attended	SD	PB	RJ	GRS	RD	SP	KJ	JS	KN	RA	BS	AZ	TOPIC	Competency	Attended	SD	PB	RJ	GRS	RD	SP	KJ	JS	KN	RA	BS	AZ
3	Introduction to Physiology; rules and etiquette in Physiology		1	146	LGI																										
4	Structure and functions of a mammalian cell	1.1	1	145				LGI																							
5	Homeostasis	1.2	2	146		LG																									
5	Intercellular connections, cell adhesion molecules	1.1	1	146		SG																									
6	Body fluid compartments, pH & buffers	1.6, 1.7	2	146			SG																								
6	Cytoskeleton and molecular motors	1.1	1	146			SG																								
7	Apoptosis	1.4	1	147			SG																								
7	Transport across cell membranes	1.5	1	146				LGI																							
8	Transport across cell membranes	1.5	1	144				LGI																							
10	Structure of neuron; Nernst potentials & Resting membrane potential	3.1, 1.8	1	147	LGI																										
11	The action potential, Properties of action potentials, Voltage clamp, recording of action potentials, Nerve conduction studies, EMG	1.8, 1.9	1	147	SG																										
12	The action potential, Properties of action potentials, Voltage clamp, recording of action potentials, Nerve conduction studies, EMG; Neuroglia, Neurotrophins, Classification and properties of nerve fibers	1.8, 1.9, 3.1, 3.2	2	146	SG																										
12	Degeneration and regeneration of nerve fibers	3.3	1	146										SG																	
13	Neuromuscular transmission, Applied aspects of NMJ, Myasthenia Gravis	3.4, 3.5, 3.6	2	146					SG																						
13	FORMATIVE ASSESSMENT		1	143	FA	FA	FA	FA	FA			FA	FA	FA	FA	FA															
14	Excitation contraction coupling and mechanism of contraction in skeletal muscle	3.9, 3.13, 3.17	1	137								LGI																			
14	Muscular dystrophy and myopathies, rigor mortis	3.9, 3.13, 3.17	1	110								LGI																			



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15	Skeletal muscle – types, types of contraction, properties, length tension relationship, energy metabolism, heat production, the motor unit, Strength duration curve, exercise	3.7, 3.8, 3.10, 3.11, 3.12,3.17	2	141						SG																					
17	Composition and functions of blood, plasma proteins; Hematopoiesis, Erythropoiesis	2.1, 2.2, 2.4	2	144					SG																						
17	Erythropoiesis	2.4	1	144					SG																						
18	Hemoglobin - structure, formation, breakdown, variants	2.3	1	147							LG																				
19	Hemoglobinopathies, anemias, jaundice	2.3, 2.5	2	147	SDL		SDL	SDL	SDL	SDL	SDL	SDL	SDL	SDL	SDL	SDL															
19	Structure and functions of leukocytes	2.6	1	146										LGI																	
20	Immunity - innate and adaptive, applied aspects	2.1	2	146							SG																				
20	Formation, functions and variations of platelets	2.7	1	146							LGI																				
21	Hemostasis, anticlotting mechanisms, anticoagulants	2.8	1	146								LGI																			
22	Hemostasis, anticlotting mechanisms, anticoagulants	2.8	1	145								LGI																			
24																	USP and handwashing	-	75	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	
25																	Osmotic fragility	2.12	73	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	
26	Blood groups, blood transfusion, cross matching, transfusion reactions	2.9	1	145				SG									Osmotic fragility	2.12	71	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG
26																	USP and handwashing	-	74	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG	SG
27	Blood groups, blood transfusion, cross matching, transfusion reactions	2.9	1	146				SG									ESR, PCV	2.12	74	SG	SG	SG		SG	SG	SG	SG	SG	SG	SG	SG
27																	ESR, PCV	2.12	71	SG	SG	SG		SG	SG	SG	SG	SG	SG	SG	SG
28																	RBC Indices	2.12	73	SG		SG	SG	SG	SG	SG	SG	SG	SG	SG	SG
28																	RBC Indices	2.12	71	SG		SG	SG	SG	SG	SG	SG	SG	SG	SG	SG
29	FORMATIVE ASSESSMENT		3		FA	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA	FA															



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