KHARAGPUR COLLEGE

DEPARTMENT PHYSIOLOGY

SYLLABUS DISTRIBUTION AND TEACHING PLAN

EVEN SEMESTER (2nd, 4^{th} , & 6^{th}) SESSION (2022 -2023)

	Semester II							
Name of the teacher	Syllabus alloted	Teaching plan						
Dr. Ashutosh Chaudhuri	DSC1BT: Cardiovascular System and Respiratory System	Paper DSC1BT:	Term -1 (10 Lectures) Cardiovascular system	Term -2 (10 Lectures) Cardiac cycle, Peculiarities of	Term -3 (10 Lectures) Respiratory System			
	DSC1BP: Practical Human Experiment	DSC1BP:	1. Measurement of arterial blood pressure by Sphygmomanometer at rest and after exercise, Calculate the mean arterial blood pressure (MABP) 2. Measurement of heart rate and pulse rate (30 beats methods) during rest and exercise and graphical plotting.	regional circulations 3. Modified Harvard step test and determination of physical fitness. 4. Pneumographic recording of respiratory movements along with the effect of drinking of water, talking, laughing, coughing, exercise, hyperventilation and breathe holding.	5. Demonstration: Measurement of oxygen saturation by pulse oxymeter before and after exercise. Measurement of Peak Expiratory Flow Rate. Measurement of forced expiratory volume (FEV) in first second.			
Name of the teacher	Syllabus alloted	Teaching plan						
Anupama Pattanayak	DSC1BT: Blood, body fluid and immune System	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)			
	DSC1BP: Practical Haematology	DSC1BT:	Blood	Body fluids	Immune System			
		DSC1BP:	1. Study of the compound microscope. 2. Preparation of blood film of your own blood. Staining of the blood film with Leishman's stain. Identification of different types of blood corpuscles. 3. Determination of TC of RBC and WBC by haemocytometer. 4. Differential count of WBC.	5. Determination of ESR of human blood. 6. Estimation of haemoglobin by haemoglobinometer. 7. Preparation of haemin crystals. 8. Determination of Blood groups.	9. Determination of clotting time, bleeding time, prothrombin time. 10. Determination of osmotic fragility of Red Blood Corpuscle. 11. Preparation and staining of bone marrow. Measurement of diameter of megakaryocyte. 12. Reticulocyte staining.			

		;	Semester IV				
Name of the teacher	Syllabus alloted Teaching plan						
		Paper	Term -1	Term -2	Term -3		
Dr. Ashutosh Chaudhuri	DSC1DT: Endocrine and Reproductive		(10 Lectures)	(10 Lectures)	(10 Lectures)		
		DSC1BT:	Endocrinology:	Endocrinology:	Reproductive		
	System		Hypothalamo-	Parathyroid gland,	Physiology		
			Hypophysial axis,	Adrenal Cortex			
			Pituitary gland,	Adrenal Medulla,			
			Thyroid gland,	Pancreas			
			Parathyroid gland, Adrenal Cortex.				
		DSC1BP:	3. Study of estrous	9. Determination of	11. Sperm count and		
		DSCIBI.	cycle.	colour blindness by	sperm motility in rat.		
	DSC1DP: Practical		8. Determination of	Ishihara chart.	sperm mounty mrac.		
	250121 11 11 11 11 11		visual acuity by	10. Exploration of			
			Snellen's chart /	conductive and			
			Landolt's chart.	perceptive deafness by			
				tuning fork method.			
	GE4T: Excretory	GE4T:	Renal Function &	Renal Function &	Renal Function &		
	System		Micturition: (First	Micturition: (Middle	Micturition: (Last		
			portion)	portion)	portion)		
	GE4P: Practical	GE4P:	1. Identification of	3. Tests for Urinary	4. Estimation of		
			normal constituents	deposits.	albumin in urine.		
			of urine.				
			2. Identification of abnormal				
			constituents of urine.				
Name of the teacher	Syllabus alloted			eaching plan			
	,,	Paper	Term -1	Term -2	Term -3		
Anupama Pattanayak	DSC1DT: Sensory		(10 Lectures)	(10 Lectures)	(10 Lectures)		
	Physiology and	DSC1BT:	Sensory Physiology:	Sensory Physiology:	Renal Physiology		
	Renal Physiology		Olfaction and	Vision			
			Gustation				
			Audition &				
		DCCIPP	Equilibrium	A T 1 4.00 4.00			
	DSC1DP: Practical	DSC1BP:	1. Staining and identification of	4. Identification of	6. Estimation of		
	DSCIDP: Practical		kidney and ureters.	normal and abnormal constituents of urine.	albumin in urine. 7. Detection of		
			2. Silver nitrate	5. Tests for Urinary	specific gravity of		
			preparation of	deposits.	urine.		
			corneal cell space.	deposits.	ui iiic.		
			•				
	GE4T: Body	GE4T:	Skin and Body	Skin and Body	Skin and Body		
	Temperature		temperature	temperature regulation:	temperature		
	Regulation		regulation: (First portion)	(Middle portion)	regulation: (Last portion)		
	GE4P: Practical	GE4P:	5. Detection of	6. Quantitative	8. To study the		
			specific gravity of	estimation of Urea in	response of the skin		
			urine.	Urine.	to blunt injury		
				7. Recording of Body	(triple		
				Temperature.	response)(Demonstr		
					ation).		

		Seme	ester VI			
Name of the teacher	Syllabus alloted	Teaching plan				
Dr. Ashutosh	DSE1B T: Developmental	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)	
Chaudhuri	aspects of embryo DSE1BP: Developmental	DSE1B T:	General concepts of reproductive system. Stem cell	Gametogenesis	Cleavage	
	aspects of embryo (Practical)	DSE1BP:	1. Hematoxylin and Eosin staining of testicular, ovarian tissue sections.	2. Identification of spermatocytes, spermatids, Graafian follicle, Corpus Luteum.		
Name of the teacher	Syllabus alloted	Teaching plan				
Anupama Pattanayak	DSE1B T: Developmental aspects of embryo	Paper DSE1BT:	Term -1 (10 Lectures) Blastula formation	Term -2 (10 Lectures) Gastrulation	Term -3 (10 Lectures) Organogenesis	
	DSE1BP: Developmental aspects of embryo (Practical)	DSE1BP:	3. Demonstration of preserved mammalian embryo.			