

TEACHING PLAN (CBCS)-EVEN SEMESTER (2022-2023)

DEPARTMENT OF PHYSIOLOGY PHYSIOLOGY HONOURS (PHYA) SEMESTER-II

PAPER	FULL MARKS	TOPIC	TEACHER	CLASS HOUR	TEACHING METHOD
CC3 TH	50	1. Cell signaling	RM,SD	12	Interactive,
		2. Nerve physiology	AP,AS	12	Learner-centric methods
		3. Muscle physiology	AD,SM	12	
CC3P	30	1. Staining of nerve fibre by silver nitrate method	SD AP,RM, PS	08	Experiential
PRACTICAL		2. Staining of skeletal & cardiac muscle		08	learning (hands -on training)
		3. Staining of collagen in tissue section		08	
				Total =60	
CC4TH	50	1. Nervous system (Up to Muscle spindle)	MMS AC	12	Interactive,
		2. Brain and limbic system	AC,PS	12	Learner-centric methods
		3. Molecular neurobiology	RM AS	12	with ICT tools.
CC4P	30	1. Kymographic recording of Simple muscle curve	SD,AD AP,MM S PS,AS	06	Experiential
PRACTICAL		2. Effect of load on SMC		06	learning (hands -on training)
		3. Effects of two successive stimuli on SMC		08	
		4. Neural reflexes		04	
				Total= 60	

SEMESTER- IV

PAPER	FULL MARKS	TOPIC	TEACHER	CLASS HOUR	TEACHING METHOD
CC8TH	50	1. Digestion & absorption	AD	12	Interactive,
		2. Carbohydrate metabolism	AC	06	Learner-
		3. Lipid metabolism	AP	06	centric
		4. Protein metabolism	AS	06	methods
		5. Purine& pyrimidine metabolism	MMS	06	
CC8P	30	1. Dale's experiment on rat's intestine.	SD	06	Experiential
PRACTICAL		2. Effect of acetylcholine on intestinal movement	MMS	06	learning
		3. Effect of adrenaline on intestinal movement	SD	06	(hands -on
		4. Estimation of amino nitrogen (total quantity)	MMS	02	training)
		5. Estimation of amino nitrogen (% quantity)	AD	04	
				TOTAL = 60	
CC9TH	50	1. Molecular biology	RM,MM S	20	Interactive,
		2. Methodologies	RM,AS	16	Learner-
					centric
					methods
CC9P	30	1. Colorimetric estimation of serum protein	SM,AD AC, RM MMS	04	Experiential
PRACTICAL		2. Estimation of serum albumin		04	learning
		3. Estimation of serum urea		06	(hands -on

		4. Estimation of blood glucose		06	training)
		5. Paper chromatography		04	
				TOTAL = 60	
CC10T H	5 0	1. Nutrition-Vitamins & Minerals	AD	18	Interactive,
		2. SDA up to Dietetics	AD,SM	18	Learner-
					centric
					methods
CC10P	3 0	1. Composition & nutritional value of food staff	SM,AP AC RM,MM S	04	Experiential
PRACTI CAL		2. Qualitative analysis of rice, pulses etc.		08	learning
		3. Diet survey of a family (ICMR specification)		12	
				TOTAL= 60	
SEC-B1	8 0	1. Detection of food additives	PS	20	Experiential
		2. Xenobiotic metabolism	PS	16	learning
					(Skill
					developme
					nt)
				Total=36	

SEMESTER-VI

PAPER	FULL MARKS	TOPIC	TEACHER	CLASS HOUR	TEACHING METHOD
CC13TH	50	1. Reproductive physiology	AD,AS	18	Interactive,
		2. Developmental biology	RM	18	Learner-centric methods
CC13P	30	1. Identification of permanent histological slides	AS,PS MMS,AS	12	Experiential learning
PRACTICAL		2. Silver nitrate preparation of corneal cell space	RM,AP	06	(hands - on training)
		3. Silver nitrate preparation of urinary bladder		06	
				TOTAL=60	
CC14TH	50	1. Excretory physiology (Kidney)	AP	12	Interactive,
		2. Skin & body temperature regulation	MMS	12	Learner-centric methods
		3. Environmental pollutants and human health	MMS,PS	12	
CC14P	30	1. Identification of permanent histological slides	AS,SD AC,AP	16	Experiential learning
PRACTICAL		2. Identification of normal and abnormal constituents of urine		08	
				TOTAL=60	
DSEA4TH	50	1. Public health & malnutrition	SM,AD	04	Interactive,
		2. Diet management of various conditions	SM,AD	06	Learner-centric methods
		3. Infertility and ART	RM	08	
		4. Principle and importance of immunization	SM	08	
		5. Epidemiology of communicable diseases	SM	06	
		6. Epidemiology of non-communicable diseases	RM	04	
DSEA4P	30	1. Field survey on human subjects	AP,AD, MMS	20	Experiential learning
PRACTICAL		2. Calculation of BSA, BMI and PI	AD,RM	04	(hands - on training)
				TOTAL=60	
DSEB3TH	50	1. Neural basis of biological rhythm (chronobiology)	AC	16	Interactive,
		2. Stress physiology	PS	14	Learner-centric methods
		3. Oxidative stress	AP	06	
DSEB3P	30	1. Project work on circadian rhythm	AC,AP	10	Experiential learning
PRACTICAL		2. Assessment of environmental heat load	PS	04	(hands - on training)
		3. Assessment of noise level in environment		02	
		4. Determination of diurnal rhythm of body temperature		04	
				04	
				TOTAL=60	

TEACHING PLAN

**PHYSIOLOGY GENERAL(PHYG)
SEMESTER-II**

PAPER	FULL MARKS	TOPIC	TEACHER	CLASS HOUR	TEACHING METHOD
CC2T	50	1. Blood and Body fluids	AS,AD	12	Interactive,
GEN1T H		2. Respiratory system	MMS	12	Learner-
		3. Cardiovascular system	PS,SM	12	centric methods
CC2P/ GEN2P	30	1. Hematology experiments	AP RM AD	06	Experiential
GEN2P		2. Kymographic recording of Heart Curve.		04	learning
PRACTICAL		3. BP measurement		06	(hands - on
		4. Pneumography		04	training)
		5. Peak flowmetry		04	
				TOTAL=	
				60	

SEMESTER-IV

PAPER	FULL MARKS	TOPIC	TEACHER	CLASS HOUR	TEACHING METHOD
CC4TH / GEN4TH	50	1. Excretory Physiology	AP	12	Interactive,
		2. Reproductive Physiology	RM	12	Learner-
		3. Endocrinology	SD,SM	12	centric methods
CC4P/ GEN4P	30	4. Normal and abnormal constituents of urine.	AC,AP MMS,AS	12	Experiential
PRACTICAL		5. Identification of permanent histological slides		12	learning (hands -on training)
				TOTAL=60	
SECB2	80	1. Community & Public health	RM,AD	18	Experiential learning (Skill development)
				TOTAL=18	

SEMESTER-VI

PAPER	FULL MARKS	TOPIC	TEACHER	CLASS HOUR	TEACHING METHOD
DSEB2 TH	50	1. Human Nutrition & Dietetics	SM,AD, RM,MM S	04	Interactive,
				04	Learner-
				04	centric methods
DSEB2 P	30	1. Diet Survey of a family (ICMR specification)	MMS,R M	04	Experiential
PRACTICAL				04	learning (hands -on training)
				02	
				04	
				TOTAL=30	
SECB2	80	1. Community & Public Health.	AD,RM, SM	04	Experiential
				08	learning (Skill development)
				06	
				TOTAL=18	