

KHARAGPUR COLLEGE

DEPARTMENT PHYSIOLOGY

SYLLABUS DISTRIBUTION AND TEACHING PLAN

ODD SEMESTER (1st , 3rd , & 5th) SESSION (2023 -2024)

Semester I					
Name of the teacher	Syllabus allotted	Teaching plan			
Dr. Ashutosh Chaudhuri	MI-1T: Unit-II: Cardiovascular System & Unit III: Physiology of Respiratory system.	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
		MI-1T:	Cardiovascular System	Physiology of Respiratory system	Revision
	MI-1P: Practical Human Experiment	MI-1P:	a) Measurement of arterial blood pressure by Sphygmomanometer test, Calculate the mean arterial blood pressure (MABP). b) Measurement of heart rate and pulse rate (30 beats methods) during rest condition.	c) Study of blood pressure with the changes of postures (Standing, Supine, Sitting). d) Study of pulse rate as an effect of breath-holding.	e) Study of pulse rate with the variation of static work load. f) Determination of Physical Fitness Index (PFI) of an Individual by Modified Harvard Step test.
Name of the teacher	Syllabus allotted	Teaching plan			
Anupama Pattanayak	MI-1T: Unit-I: Blood, body fluid and immune System	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
		MI-1T:	Blood, body fluid	Fundamental concept of Immune System	Revision
	MI-1P: Practical Hematology	MI-1P:	a) Preparation of blood film of your own blood. Staining of the blood film with Leishman's stain. b) Identification of different types of blood corpuscles. c) Determination of TC of RBC and WBC by haemocytometer. d) Differential count of WBC.	e) Determination of ESR of human blood. f) Estimation of haemoglobin by haemoglobinometer. g) Preparation of haemin crystals.	h) Determination of Blood groups. i) Determination of clotting time, bleeding time, prothrombin time.

Semester III					
Name of the teacher	Syllabus allotted	Teaching plan			
Dr. Ashutosh Chaudhuri	DSC-1CT: Nervous system	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
		DSC-1CT:	A brief outline of organization and basic functions of the nervous system.	The Autonomic Nervous System	Revision
	DSC-1CP: (Practical)	DSC-1CP:	1. Experiments on superficial (plantar) and deep (knee jerk) reflex. 2. Reaction time by stick drop test.	3. Short term memory test (shape, picture word). 4. Two point discrimination test.	Study of Kymograph (Demonstration)
	GE3T: Community and Public Health	GE-3T:	Basic idea about community health and public health issues	Composition and nutritional value of common Indian foodstuffs	Revision
	GE3P: Community and Public Health (Practical)	GE-3P:	Survey on the status of dietary intake in the surrounding area through visits, etc.	Revision	Revision
Name of the teacher	Syllabus allotted	Teaching plan			
Anupama Pattanayak	DSC-1CT: Nerve – Muscle Physiology & Skin and Body Temperature Regulation	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
		DSC-1CT:	Nerve –Muscle Physiology	Skin and Body Temperature Regulation	Revision
	DSC-1CP: (Practical)	DSC-1CP:	1. Isolation and Staining of nerve fibers with node(s) of Ranvier (AgNO ₃). 2. Staining of skeletal and cardiac muscles by Methylene Blue stain.	3. Measurement of grip strength. 4. Recording of body temperature	5. To study the response of the skin to blunt injury (triple response) (Demonstration)
	GE3T: Community and Public Health	GE-3T:	Principles of formulation of balanced diets	Sound pollution as a community health issue	Revision
	GE3P: Community and Public Health (Practical)	GE-3P:	Qualitative assessment of noise.	Revision	Revision

Semester V					
Name of the teacher	Syllabus allotted	Teaching plan			
Dr. Ashutosh Chaudhuri	DSE-1AT: Community Nutrition and Public Health	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
		DSE-1AT:	Food guide	Balanced diet	Socio ecology of nutrition
	DSE-1AP: Community Nutrition and Public Health (Practical)	DSE-1AP:	5. Qualitative analysis of pulse, rice, milk to test the presence of carbohydrates, protein, fat.	6. Qualitative identification of lipids and cholesterol. 7. Qualitative assessment of noise by sound level meter.	Field Survey Report
		Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
	SEC-3T: Maternal and Child Nutrition	SEC-3T	Unit - III • Infant and young child feeding and care	Unit - IV Overview of maternal and child nutrition policies and programmes	Revision
		Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
Name of the teacher	Syllabus allotted	Teaching plan			
Anupama Pattanayak	DSE-1AT: Community Nutrition and Public Health	Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
		DSE-1AT:	Community and community health: concepts	Epidemiology	Population problem
	DSE-1AP: Community Nutrition and Public Health (Practical)	DSE-1AP:	1. Quantitative estimation of glucose, sucrose by Benedict's method. 2. Estimation of lactose from milk by Benedict's methods.	3. Estimation of Chloride by Mohr's methods.	4. Estimation of amino nitrogen through formol titration methods.
		Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)
	SEC-3T: Maternal and Child Nutrition	SEC-3T	Unit - I • Nutritional needs during pregnancy	Unit - II • Nutritional needs of nursing mothers and infants	Revision
		Paper	Term -1 (10 Lectures)	Term -2 (10 Lectures)	Term -3 (10 Lectures)