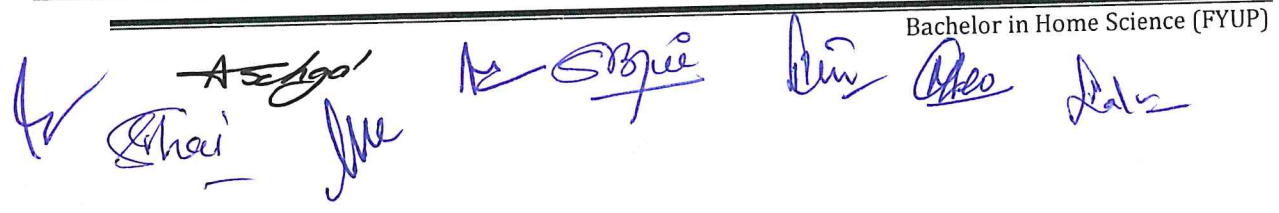


FOUR YEAR UNDER GRADUATE PROGRAM (2024-28)
Faculty of Home Science
COURSE CURRICULUM

PART-A: Introduction			
Program:- Bachelor in Home Science (Honors)		Semester : VII	Session:-2024-25
1	CourseCode	HSSC- 19 T	
2	CourseTitle	Applied Human Physiology	
3	CourseType	DSC (Discipline specific course)	
4	Pre-requisite(if, any)	As per program	
5	CourseLearning. Outcomes(CLO)	After completion of this course ,the student will be able to: <ul style="list-style-type: none"> • Understand Basic Knowledge of Human Physiology. • Analyze Basic knowledge of cell and its structure. • Identify Basic knowledge of respiratory system. • Interpret Basic Knowledge of Endocrinal Glands. • Discuss basic functioning of human body 	
6	CreditValue	3 Credits	1 Credit=15 Hours-learning & Observation
7	TotalMarks	Max.Marks: 100	MinPassingMarks: 40

PART-B: Content of the Course		
Total No. of Teaching-learning Periods (01Hr. per period)-45 Periods (45 Hours)		
Unit	Topics(Coursecontents)	No.of Periods
I	<u>Cell Structure and Tissues:</u> Structure of a human cell.-Organelles and Inclusions, Elementary study of tissues of the human body- Epithelial, Osseous tissue, connective, Muscular, Nervous (Neuron).special cells and tissues. Cancer Cells.	12
II	<u>Endocrine System :</u> Endocrine glands- structure, regulation of hormonal secretions- Thyroid, Parathyroid, Pancreas, Pituitary, Adrenal, Sex glands. Disorders of endocrine glands.- Hypo and Hyper Thyroidism, Diabetes Mellitus,, Hyperinsulaenemias, sex hormones related	11

Bachelor in Home Science (FYUP)




	problems, Acromegaly, Acromicria, Gigantism, Dwarfism, Cretinism and other pituitary disorders.	
III	<p><u>Respiratory System :</u> Structure, functions of organs of Respiratory tract. Exchange of gases. Mechanism of Respiration, Transport of Oxygen and CO₂. Nervous and chemical Regulation of Respiration, Asphyxia, hypoxia.</p> <p><u>Digestive System :</u> Structure, function of organs of Gastro- intestinal tract, Liver, Pancreas, Gallbladder. Process of digestion and absorption.</p>	11
IV	<p><u>Muscular System :</u> Muscles - Types, structure, functions, Changes during muscular Contraction.</p> <p><u>Excretory System :</u> Structure and function of nephron, kidneys, Urinary bladder Urine formation. Composition of urine. Micturition process, role of spinal cord. Maintenance of acid base balance.</p>	11
Keywords	Cell, Tissue, muscles, Micturition	


Signature of Convener & Members(CBoS):


PART-C: LearningResources
Text books , Reference Books and others
Text books Recommended
<ol style="list-style-type: none"> Human Physiology by C.C Chatterjee Big Picture: Gross Anatomy, Medical Course & Step 1 Review, Second Edition by David A. Morton; K. Bo Foreman; Kurt H. Albertine Anatomy and Physiology for Healthcare by Paul Marshall; Beverly Gallacher; Jim Jolly; Shupikai Rinomhota Essentials of Human Anatomy & Physiology by Marieb, Elaine Nicpon Human Physiology by Eric P. Widmaier, Arthur J. Vander. Guyton and Hall Textbook of Medical Physiology
OnlineResources-
<ul style="list-style-type: none"> https://youtu.be/URUJD5NEXC8?si=Zhw4ZnvSmS3ScFfr https://youtu.be/fpX39jMlIB8?si=84MJmDFRjHIGTqIV https://youtu.be/mGdt5ENZ-S4?si=MgaG2lxTAEIymuU1 https://youtu.be/9KI983Von3w?si=C3hGfKDE8nuyoG10 https://youtu.be/URUJD5NEXC8?si=Zhw4ZnvSmS3ScFfr


PART D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks: 100 marks		
Continuous Internal Assessment (CIA): 30 Marks		
Semester End Exam (SEE): 70 Marks		
Internal Assessment:	Internal Test / Quiz(2) – 20+20	Better marks out of the two tests/ Quiz + Obtained marks in assignment shall be considered against 30 Marks
Continuous Internal Assessment (CIA)	Assignment/Seminar – 10 Total Marks – 30	
End Semester Exam (ESE):	Two section – A & B	
	Section A: Q1. Objective – 10 x 1 = 10 Mark; Q2. Short answer type- 5 x 4 = 20 Marks	
	Section B: Descriptive answer type qts., 1 out of 2 from each unit- 4 x 10 = 40 Marks	


Name and Signature of Convener & Members of CBoS:

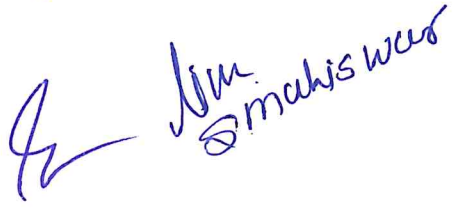

 CD Dr. Amita Sehgal



 Dr. S. Banerjee


 Dr. Bharti Latha


 Mrs. Manjira Deo


 Sant-Manoj


 Dr. Mahiswar


 Dr. Chel

FOUR YEAR UNDER GRADUATE PROGRAM (2024-28)
Faculty of Home Science
COURSE CURRICULUM

PART- A: Introduction			
Program:- Bachelor in Home Science (Honors)		Semester -VII	Session: 2024-2025
1	Course Code	HSSC – 19 P	
2	Course Title	Applied Human Physiology (Practical)	
3	Course Type	DSC (Discipline specific course)	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	After completion of this course ,the student will be able to: <ul style="list-style-type: none"> • Understand basic physiology of human body • Study various types of cells in uman body • Study the blood groups, rh factors and blood group matching • Identify various human tissues • Evaluate function of body under various circumstances 	
6	Credit Value	1 Credits	1 Credit =30 Hours Laboratory or Field learning/Trainin.
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course

Total No.of learning-Training / Performance Periods: 30 Periods (30 Hours)		
Module	Topics (Course contents)(Any 10)	No. of Periods
Lab./Field Training/ Experiment Contents of Course	<ul style="list-style-type: none"> • Detection of permanent slides of various body organs. • Differential WBC Counting by using diluting fluid. • Differential RBC Counting by using diluting fluid. • Measurement of blood pressure by auscultatory methods. • Determination of erythrocyte sedimentation rate [ESR]. • Determination of osmotic resistance of RBCs. • Effects of high temperature, salt and acid addition on Ptyalin, present in saliva. • Estimation of titrable Acidity in gastric juice. • Determination of bleeding and clotting time. • Preparation of Haemin crystals. • Determination of hemoglobin. • Identification of blood group and Rh factor. 	30
Keywords	Tissues, Cells, Blood Groups, Rh Factors , Osmotic resistance of RBCs	

A. Singh

Dr. S. Singh

Dr. P. Singh

Dr. K. Singh


Dr. J. Singh


Dr. M. Singh


Dr. N. Singh


PART -D :Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks: 50 Marks		
Continuous Internal Assessment(CIA): 15 Marks		
EndSemester Exam(ESE): 35 Marks		
Continuous InternalAssessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz +obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work - 20 Marks B. Spotting based on tools & technology (written) - 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status


Name and Signature of Convener & Members of C BoS:



 (Dr. Amita Singh)



 Dr. So Banerjee


 Dr. Bharti Sethi


 Mrs. Ananda R Deo


 Smt. Manjoti Lalra


 Shree


 Dr. Mahesh