

Department of Liberal Education Era University, Lucknow

Course Outline Effective From: 2023-24

Name of the	B.A. / B.Sc. (LII	B.A. / B.Sc. (LIBERAL EDUCATION)		Year/ Semester:		2 nd / 4 th			
Program Course Name	Fundamentals of Endocrinology & Nutritional Biochemistry Practi	Course Code:	BCH202P	Type:	Practi	cal			
Credits	01		Total Practical Hours:	30 Hours					
Evaluation Spread	Internal Continuous Assesment:	10 Marks		End Term Exam:	15	15 Marks			
Type of Course	C Compulsory	Core		C Creative	C	C Life Skill			
Course Objectives	The objective of the course is to enable the students to learn to make slides of endocrine tissues to learn about their abnormalities as well prepare charts for diets of various lie stages, alongwith learn basics of baking and preservation of food.								
Course Out attributes:	comes(CO): After th	ne successful o	course comp	oletion, learners w	vill develo	op following			
Course Outcome (CO)	Attributes								
COÍ	To prepare and study permanent slides for studying the morphological and biochemical changes in the endocrine tissues								
CO2	The students would learn to do calcium estimation from samples								
CO3	The students will learn to plan diets for various stages, and learn how the dietics system works in a hospital.								
CO4	The students would learn basics of bakery and food preservation								
Pedagogy	Interactive understanding of principles, requirements, methods and precautions and integration of classroom teaching and lab demonstration, demonstration of the methodology; self-practice and experimentation by students								
Internal Evaluation Mode	Experiment-Writing and Conductance File Maintenance/ Laboratory Record Continuous Attendance and Participation								
Practical No.	Experiments Contact Hours CO								
1.	Collection and fixing	g of endocrine	6	CO1					
	for slide preparation	le preparation such as thyroid gland, pancreas							
2.	Cutting of blocks an	ocks and staining for making the permanent				CO1			
	slides of tissues	of tissues							
3.	Calcium estimation				2	CO2			
4.	Observation of HCO	G estimation by	y ELISA		4	CO2			

5.		Preparation of balanced diet for 4 stages of life									4	C	CO3	
6.		Bakery & common basic preservative methods of food								6	C	CO4		
7.	Visit to ward, dietics lab and kitchen							2	C	CO3				
CO-PO and PSO Mapping										7001				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	3	2	1	2	1	2	2	2	2	3	1
CO2	2	3	2	2	3	2	2	1	3	2	2	2	2	1
CO3	3	2	3	2	3	3	2	1	3	2	2	2	2	2
CO4	3	2	3	2	3	3	2	3	3	2	2	3	3	2
Strongco			Avera	igecontrib	oution-2,	L	owcontrib	ution-1,						
Suggested Readings:														
Referei	nce	Cytology and Cytotechnology-Practical. Jayaswal RP. Notion Press												
Books		2. Cytology Genetics and Infectious Diseases. Dr. Veer Bala Rastogi, Kedar Nath												
		Prem Nath Publications.												
	3. Handbook of Applied Biochemistry, Nutrition and Dietetics. Shivanan								nanda					
	Nayak. Jaypee Brothers Medical Publishers. 5th Edition													
E-Reso	E-Resources 1. https://faculty.ksu.edu.sa/sites/default/files/pdf copy haematology laboratory many								manıı					
L Reso	241.pdf													
				//www.clinicallabs.com/media/3398/cytology specimen collection manual.pdf										
			//www.cinicanabs.com/media/5556-cytology_specimen_contection_manual.pdr/ //cytojournal.com/cellblockistry-chemistry-and-art-of-cell-block-making-a-											
				ed-review-of-various-historical-options-with-recent-advances/										
		4.								recent	au vali	COSI		
Interna	4. Block making: https://youtu.be/dDB_4MphhGo Internal Practical Evaluation:													
Component Marks														
Experiment-Writing and		5												
Conductance														
File Maintenance/			2											
Laboratory Record		-												
Continuous Attendance and		1												
Participation		1												
Viva-Voce			2	2										
Total N	larks			10	10									

Course created by: Dr. Ghazala Zaidi	Approved by: Prof. Sudhir Mahrotra				
Signature:	Signature:				