	JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)021				
		LESSON PLAN			
Name of	the Faculty	: Mrs. Sanehlata			
Disciplin	e :	DMLT			
Semeste	r :	Second			
Subject	:	FUNDAMENTALS OF IT			
Lesson P	lan Duration	: 16 weeks(from 15 Februay,2024 to 14 June,2024)(According to Syllabus Scheme)			
Work loa	d(Lecture/Practic	al]per week(in hours) : Lectures-02(hr),Practicals-04(hr)	1		
Week		Theory		Practical	
	Lecture Day	Topic(including assigment/test)	Practical Day	Торіс	
1st	1st 2nd	Brief history of development of computers, Definition of Computer (15T Unit) Block diagram of a Computer. Hardware, Software	1st	Browser features, browsing, using various search engines, writing search queries	
2nd	1st 2nd	Booting: Cold and Hot Booting, Interaction between the CPU and Memory with Input/Output devices Function of CPU and major functional parts of CPU	2nd	Visit various e-governance/Digital India portals, understand their features, services offered	
3rd	1st 2nd	Memory, Bit, Nibble, Byte, KB, MB, GB, TB, PB, Functions of memory, Use of storage devices in a Computer	- 3rd	Read Wikipedia pages on computer hardware components, look at those components in lab, identify them, recognize various ports/interfaces and related cables, etc.	
4th	1st 2nd	Understanding browser, Introduction to WWW, efficient use of search engines (2nd Unit) Awareness about Digital India portals (state and national portals) and college portals. Advantages of Email, Various email service providers,	- 4th	Using Administrative Tools/Control Panel Settings of Operating Systems	
5th	1st 2nd	Creation of email id, sending and receiving emails, attaching documents with email and drive. Effective use of Gmail. G-Drive. Google Calendar. Google Sites. Google Sheets	5th	Connect various peripherals (printer, scanner, etc.) to computer, explore various features of peripheral and their device driver software.	
6th	1st 2nd	Online mode of communication using Google Meet & WebEx Introduction to Programming. Steps involved in problem solving. Definition of Algorithm (3rd Unit)	- 6th	Explore features of Open Office tools and MS-Office, create documents, create presentation, create spread sheet, using these features, do it multiple times	
7th	1st 2nd	Definition of Flowchart, Steps involved in algorithm development		Working with Conversion Software like pdfToWord, WordToPPT, etc.	
8th	1st 2nd	flowcharts for simple problems, Practice logic building using flowchart/algorithms Office Tools like LibreOffice/Open Office/MSOffice. (4th Unit)	8th Working with Mobile Applications – Searching for Authentic Mobile app, Instal Settings, Govt. of India Mobile Applications		
9th	1st 2nd	Open Office Writer – Typesetting Text and Basic Formatting, Inserting Images Hyperlinks. Bookmarks. Tables and Table Properties in Writer	9th	Creating email id, sending and receiving mails with attachments.	
10th	1st 2nd	Open Office Writer – Typesetting Text and Basic Formatting Inserting Images. Hyperlinks. Bookmarks	10th	Using Google drive, Google calendar	
11th	1st 2nd	Tables and Table Properties in Writer Introducing LibreOffice/Open OfficeCalc	11th	Create Flow chart and Algorithm for the following a. Addition of n numbers and display result	

12th	1st 2nd	Working with Cells, Sheets, data, tables Using formulae and functions, using charts and graphics.	- 12th	b. To convert temperature from Celsius to Fahrenheit c. To find Area and Perimeter of Square d. Swap Two Numbers
13th	1st 2nd	OpenOffice Impress – Creating and Viewing Presentations Inserting Pictures and Tables, Slide Master and Slide Design, Custom Animation.	- 13th	e. find the smallest of two numbers f. Find whether given number is Even or Odd g. To print first n even Numbers
14th	1st 2nd	Slide Design, Custom Animation.	- 14th	<ul> <li>h. find sum of series 1+2+3++N</li> <li>i. print multiplication Table of a number</li> <li>j. generate first n Fibonacci terms 0,1,1,2,3,5n (n&gt;2)</li> </ul>
15th	1st 2nd	Characteristics of Digital Marketing, Tools for Digital Marketing Effective use of Social Media like LinkedIn, Google+	- 15th	k. sum and average of given series of numbers I. Factorial of number n (nl=1x2x3xn)
16th	1st 2nd	Facebook, Twitter, etc.: Features of Social media Disadvantages of Social Media	- 16th	m. Armstrong Number n. Find whether given number is Prime or not

	JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)021				
		LESSON PLAN			
Name of	the Faculty	: Mrs. Poonam Rani			
Discipline	2	: DMLT			
Semester		: Second			
Subject		: CLINICAL BIOCHEMISTRY			
Lesson Pl	an Duration	: 16 weeks(from 15 Februay,2024 to 14 June,2024)(According to Syllabus Scheme)			
Work loa	d(Lecture/Pr	actical)per week(in hours) : Lectures-03(hr), Practicals-04(hr)			
Week		Theory		Practical	
	Lecture Day	Topic(including assigment/test)	Practical Day	Торіс	
1st	1st 2nd	Introduction to biochemistry (1ST Unit) Definition and Importance of biochemistry	1st	Handling and maintenance of Balance	
	3rd 1st	Volume tricapparatus and their calibration Blood fractions			
2nd	2nd 3rd	Separation of Plasma Different protein precipitating reagents, Preparation of proteinfreefiltrate(PFF)	2nd	Handling and maintenance of Centrifuge	
3rd	1st 2nd 3rd	Collection and preservation of clinical specimens for bio-chemical analysis (2nd Unit) Blood	3rd	Handling and maintenance of Colorimeter	
4th	1st 2nd	Urine Urine Stool	4th	Handling and maintenance of Ion Selective electrode	
5th	1st 2nd 3rd	Stool Other Body Fluids Other Body Fluids Blood glucose estimation, screening test and glucose tolerance test (GTT) (3rd Unit)	5th	Handling and maintenance of glucometer	
6th	1st 2nd 3rd	Blood glucose estimation, screening test and glucose tolerance test (GTT) Principle and methods of estimation Principle and methods of estimation	6th	Handling and maintenance of distillation plant/deionizer	
7th	1st 2nd 3rd	Principle and methods of estimation Reference values	7th	Collection of blood by various methods including vacutainer system	
	1st	Renal threshold			

8th	2nd	Clinical importance of blood sugars/GTT (4th Unit)	8th	Collection of blood by various methods including vacutainer system	
	3rd	Clinical importance of blood sugars/GTT			
	1st				
9th	2nd	Diodu urea	9th	To Separateserum and plasma from a given blood sample	
	3rd	provuluea			
	1st				
10th	2nd		10th	To Prepare different protein precipitating agents handoff	
	3rd	kererence values			
	1st				
11th	2nd	Serum proteins (Sth Unit)	11th	Preparation of reagents(stock and working)	
	3rd	Introduction			
	1st	Different methods of estimation including principles and procedures			
12th	2nd	Different methods of estimation including principles and procedures	12th	Estimationofbloodelucose/sugar(O-toluidinemethodandenzymaticmethod)	
	3rd	Different methods of estimation including principles and procedures			
	1st	Different methods of estimation including principles and procedures			
12+h	2nd	Reference values	12+b	To Performs/GTT using GOD-POD method	
1501	3rd	Clinical importance	1501		
	1st	Clinical importance			
	2nd	Uric Acid			
14th	3rd	Introduction	14th	To estimate urea and creatnine in a given serum sample	
		principles and procedures of various stimation methods			
	1st	principles and procedures of various stimation methods			
15th	2nd	principles and procedures of various stimation methods	15th	To estimate of uric acid in a given serum sample	
	3rd	principles and procedures of various stimation methods			
	1st	Reference values			
16th	2nd	Clinical Importance	16th	To estimate Plasma and serum protein in given sample	
	3rd	Clinical Importance			

JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)021						
	LESSON PLAN					
Name o	Name of the Faculty : Mrs. Parmila Devi					
Discipli	Discipline : DMLT					
Semest	er	: Second				
Subject	:	: ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT				
Lesson Plan Duration : 16 weeks(from 15 Februay,2024 to 14 June,2024)(According to Syllabus Scheme)						
Work load(Lecture/Practical)per week(in hours) : Lectures-02(hr) Week						
		Theory		Practical		
	Lecture Day	Topic(including assigment/test)	Practical Day	Торіс		
1st	1st	Introduction, Basics of ecology, eco system- concept, and sustainable development (15)				
	2nd	Rain water harvesting,Sources, advantages, disadvantages of renewable and nonrenewable energy	1st			
2nd	1st	Deforestation – its effects & control measures				
	2nd	Deforestation – its effects & control measures	2nd			
	1st	Air pollution,Source of air pollution,Effect of air pollution on human health				
3rd	2nd	economy,Air pollution control methods	3rd			
	1st	Noise Pollution: Source of noise pollution,Unit of noise				
4th	2nd	Effect of noise pollution	4th			
	1st	Acceptable noise level				
5th	2nd	Different method of minimizing noise pollution	5th			
	1st	Different method of minimizing noise pollution				
6th	2nd	Water Pollution:-Cause of water pollution, Impurities in water	6th			
	1st	Source of water pollution. Effect of water pollution on human health				
7th	2nd	Concept of DO, BOD, COD	7th			
	1st	Prevention of water pollution- Water treatment processes				
8th	2nd	ewage treatment. Water quality standard,Soil Pollution :Sources of soil pollution	8th			

	1st	Effects and Control of soil pollution, Types of Solid waste- House hold, Industrial,		
9th	2nd	Agricultural, Biomedical, Disposal of solid waste,Solid waste management E-waste, E – waste management	9th	
	1st	Impact of Energy Usage on Environment(Global Warming, Green House Effect) (4th Unit)		
10th	2nd	Depletion of Ozone Layer, Acid Rain	10th	
	1st	Concept of Green Buildings		
11th	2nd	Concept of Carbon Credit & Carbon footprint	11th	
	1st	Eco-friendly Material, Recycling of Material		
12th	2nd	Different Types of Disaster (5th Unit)	12th	
	1st	Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides etc		
13th	2nd	Man-made Disaster: such as Fire	13th	
	1st	Industrial Pollution, Nuclear Disaster, Biological		
14th	2nd	Disasters, Accidents(Air, Sea Rail & Road)	14th	
	1st	Structural failures(Building and Bridge), War & Terrorism etc		
15th	2nd	Disaster Preparedness Plan, Prediction,	15th	
	1st	Early Warnings and Safety Measures of Disaster		
16th	2nd	Psychological response and Management (Trauma, Stress, Rumour and Panic)	16th	

		JANTA COLLEGE OF PHARM	1ACY,BUTANA(S	ONEPAT)021
		LESSC	ON PLAN	
Name of	the Faculty	: Mr.Amit Kumar		
Disciplin	e	: DMLT		
Semeste	r	: Second		
Subject	·			
Subject				
Lesson P	lan Duration	: 16 weeks(from 15 February,2024 to 14 June,2024)(According to Syl	labus Scheme)	
Work loa Week	ad(Lecture/Practic	al)per week(in hours) : Lectures-03(hr),Practicals-02(hr)		
		Theory		Practical
	Lecture Day	Topic(including assigment/test)	Practical Day	Торіс
	1st	Bacteriology (1et Unit)		
1st	2nd		1st	To collection, transportation, culture of the Urine.
	3rd	General characteristics of bacteria-morphology,staining,culture, blochemical Characteristics, antibiotics related to Gram Positive bacteria and their distribution:		
	1st	Characteristics, antibiotics related to Gram Positive bacteria and their		
2nd	2nd	Characteristics, antibiotics related to Gram Positive bacteria and their distribution:	2nd	To collection, transportation, culture of the stool.
	3rd	Staphylococci		
	1st	Strep to cocci		
3rd	2nd	pneumococci	3rd	To collection, transportation, culture of the sputum.
	3rd	Enterobacteriacae		
	1st	E coli Bacteria		
4th	2nd	Salmonella Bacteria	4th	To collection, transportation, culture of sputum (repeat)
	3rd	Salmonella Bacteria		
	1st	Shigella Bacteria		
5th	2nd	Characteristics, antibiotics related to Gram Negative bacteria and their distribution:- (2nd Unit)	5th	To collection, transportation, culture of the throat swabs.
	3rd	Pseudomonas Bacteria		
	1st	Pseudomonas Bacteria		
6th	2nd	Proteus Bacteria	6th	To collection, transportation, culture of throat swabs.rpt
	3rd	Proteus Bacteria		

	1st	Vibrio Cholerae Bacteria		
7th	2nd	Vibrio Cholerae Bacteria	7th	To collection, transportation, culture of pus & pus swabs.
	3rd	Neisseria Barteria		
	1st	Naissoria Bastaria		
8th	2nd	Transporte Dellidium Portaria	8th	To collection, transportation, culture of pus & pus swabs.rpt
	3rd	Treponenia ranutum bacteria		
	1st	i reponema Pallidium Bacteria		
9th	2nd	Mycobacterium tuberculosis & leprae	9th	To collection.transportation.culture of the blood.
	3rd	Mycobacterium tuberculosis leprae		
	1st	Bacterial pathogenicity (3rd Unit)		
401	2nd	Introduction of pathogenicity & infection	104	T
10th	3rd	Sources of infection	10th	To collection, transportation, culture of the blood. (repeat)
	1 ct	Sources of infection		
	15t	Mode of spread of infection		
11th	2na	Types of infection	11th	To collection, transportation, culture of the skin.
	3rd	Nosocomial Infection (4th Unit)		
	1st	Introduction		
12th	2nd	Common types and source of nosocomial infection	12th	To collection, transportation, culture of the skin. (repeat)
	3rd	Common types and source of nosocomial infection		
	1st	Control of nosocomial infections		
13th	2nd	Laboratory diagnosis of infectious diseases (5th Unit)	13th	To collection, transportation, culture of the eye swabs.
	3rd	Sentiraemia and hacteraemia		
	1st	P T I (Throat Swah and Snutum cample)		
14th	2nd	Wound infections	14th	To collection, transportation, culture of the ear swabs.
	3rd	Urinary tract infactions		
	1.04	Uninery tract infections		
15th	151		15th	To collection, transportation, culture of the csf.
	2nd	Enteric fever		
	3rd	Intestinal infection		
16+h	1st	Intestinal infection	16+5	To identification of known bacterial culturer of common pathorons
1010	2nd	Meningitis	TOUI	ro identification of known bacterial cultures of common pathogens.
	3rd	Meningitis		

JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)021					
		LESSO	N PLAN		
Name of	the Faculty	: Mr.Amit Kumar			
Discipline	1	: DMLT			
Semester		: Second			
Subject		: Anatomy & Physiology-II (121922/031922)			
esson Pl	an Duration	: 16 weeks(from 15 February,2024 to 14 June,2024)(According to Syllabus :	Scheme)		
Work loa	d(Lecture/Pr	actical)per week(in hours) : Lectures-03(hr),Practicals-02(hr)			
Week		Theory		Practical	
	Lecture Day	Topic(including assigment/test)	Practical Day	Торіс	
	1st	Central nervous system (brain and spinal cord) (1ST Unit)			
1st	2nd	Central nervous system (brain and spinal cord)	1st	Study of various parts of nervous system (brain)	
	3rd	Central nervous system (brain and spinal cord)			
	1st	Peripheral nervous system (cranial and spinal nerves)			
2nd	2nd	Peripheral nervous system (cranial and spinal nerves)	2nd	Study of various parts of nervous system (spinal cord)	
3rd (eye, ear, tongue and nose); structure and functions					
3rd 2	1st	(eye, ear, tongue and nose); structure and functions			
	2nd	(eye, ear, tongue and nose); structure and functions	3rd	Study of structure of eye((demonstration)	
	3rd	Central nervous system (brain and spinal cord)(Rept.)			
	1st	Circulatory system (2nd Unit)		Study of structure of ear (demonstration)	
4th	2nd 2rd	Composition and functions of blood	4th		
	310	Anatomy and physiology of Heart			
	1SL 2nd	Anatomy and physiology of Heart		Study of structural differences between skeletal, smooth and cardiac muscles (permanent mounts) through demonstration	
5th	2rd	Circulation of blood	Stn		
	1ct	Cardiac Cycle			
Call	2nd	Conducting System of Heart	Cth		
otri	3rd	The blood pressure	011	Study of structural differences between skeletal, smooth and cardiac muscles	
	1st	Arteries and viens- differences		(permanent mounts) through demonstration(rept.)	
7+h	2nd	Arteries and viens- differences	7th	Study of various parts of circulatory system	
701	3rd	Arteries and viens- differences	7.01	Study of various parts of circulatory system	
	1st	Lymph and lymphatic system			
8th	2nd	Lymph and lymphatic system  Card Units  Card Units		Study of various parts of circulatory system(repeat)	
0.11	3rd	Endocrine system (Sra Unit)			
	1st	Endocrine system			
9th	2nd		9th	Examination of stained blood film for blood cells	
	3rd				
	1st				
10th	2nd		10th	Examination of stained blood film for blood cells(rept.)	
TOUL		Endocrine system			

	3rd	Endocrine system			
	1st	Endocrine system			
11th	2nd	Endocrine system		11th	
	3rd	Excretory System	(4th Unit)		Estimation of blood pressure
	1st	Organs of excretion (kidneys, ureter, bladder)			
12th	2nd	Organs of excretion (kidneys, ureter, bladder)		12th	
	3rd	Formation of urine and its composition			Estimation of blood pressure(repeat)
	1st	Structure of nephron			
13th	2nd	Structure of nephron		13th	Study of various parts of reproductive system (male)
	3rd	Reproductive System	(5th Unit)		
	1st	Male reproductive system			
14th	2nd	Male reproductive system		14th	Study of various parts of reproductive system(female)
	3rd	Male reproductive system			
	1st	female reproductive system			
15th	2nd	female reproductive system		15th	Study of various parts of Excretory system
	3rd	female reproductive system			
	1st	The ovarian cycle			
16th	2nd	The ovarian cycle		16th	Study of various parts of Excretory system
	3rd	ovulation & Fertilization			

		JANTA COLLEGE OF PHAF	RMACY,BUTANA(	SONEPAT)021
		LES	SON PLAN	
Name of	f the Faculty	: Mrs. Parmila Devi		
Disciplin	e	: DMLT		
Semeste	er	: Second		
Subject	:	Applied Haematolgy		
Lesson P	Plan Duration	: 16 weeks(from 15 Februay,2024 to 14 June,2024)(According to 5	Syllabus Scheme)	
Work loa	ad(Lecture/Practic	al)per week(in hours) : Lectures-03(hr),Practicals-04(hr)		
Week		Theory		Practical
	Lecture Day	Topic(including assigment/test)	Practical Day	Торіс
	1st	Logenslohingerstor, (157 Unit)		
1st	2nd	Haemoglobinometery (151 Onit)	1st	Hemoglobin Estimationby Sahli's method
	3rd	Formation of hemoglobin, function and its degradation		
	1st	Formation of hemoglobin, function and its degradation	_	
2nd	3rd	Formation of hemoglobin, function and its degradation Formation of hemoglobin, function and its degradation	2nd	Hemoglobin Estimation by Oxy-Hemoglobin and Cyanmethaemoglobinmethod
	1st	Types of hemoglobin		
3rd	2nd	Types of hemoglobin	3rd	Counting of RBC
	3rd	Various methods of estimation with specific reference to cyanmethaemoglobin method		
	1st	Various methods of estimation with specific reference to cyanmethaemoglobin method		
4th	2nd	Various methods of estimation with specific reference to cyanmethaemoglobin method	4th	Counting of WBC
	3rd	Various methods of estimation with specific reference to cyanmethaemoglobin method		
	1st	Haemocytometery (2nd Unit)		
5th	2nd	Haemocytometery	5th	Platelet counting

	3rd	Various counting chambers		
	1st			
6th	2nd		6th	Preparation of peripheral blood film
••••	3rd	Various counting chambers		
	510	Various counting chambers		
	1st	Methods of counting of RBC, WBC and platelets, their calculation and reference values		
7th	2nd	Methods of counting of RBC, WBC and platelets, their calculation and reference values	7th	Preparation and standardization of stains (leishman andgiemsa)
	3rd	Methods of counting of RBC, WBC and platelets, their calculation and reference values		
	1st	Methods of counting of RBC, WBC and platelets, their calculation and reference values		
8th	2nd	Methods of counting of RBC, WBC and platelets, their calculation and reference values	8th	Preparation of thick and thin bloodsmear
	3rd	Methods of counting of RBC, WBC and platelets, their calculation and reference values		
9th	1st	Methods of counting of RBC, WBC and platelets, their calculation and reference values	9th	
	2nd	Methods of counting of RBC, WBC and platelets, their calculation and reference values		Absolute eosinophil counting
	3rd	Errors involved in haemocytometery and means to minimize them		
	1st	Errors involved in haemocytometery and means to minimize them		
10th	2nd	Errors involved in haemocytometery and means to minimize them	10th	Study of morphology of normal RBC and WBC with the help of stained slide
	3rd	Errors involved in haemocytometery and means to minimize them		
	1st	Differential leukocyte counting (DLC) (3rd Unit)		
11th	2nd	Preparation and staining of blood film	11th	To study abnormal morphology of RBC with the help of stained slide
	3ra	Performance of DLC		
	120	Normal values and significance of DLC		
12th	2nd	Blood cell morphology in health and disease (Peripheral blood film)	12th	To study abnormal morphology of WBC with the help of stained slide
	3rd	Blood cell morphology in health and disease (Peripheral blood film)		
	1st	Quality Assurance in hematology (4th Unit)		
13th	2nd	Quality Assurance in hematology	13th	To study abnormal morphology of platelet with the help of stained slide
	3rd	Internal & External Quality Assurance		
	1st	Internal & External Quality Assurance		

14th	2nd	Define accuracy, precision& Standard Deviation.	14th	Parts of blood cell counter: Its function and care
	3rd	Define accuracy, precision& Standard Deviation.		
15th	1st	Automation in hematology (5th Unit)	15th	Principle and working of the automated blood cell counter
	2nd	Automation in hematology		
	3rd	Various types of Blood cell counter.		
	1st	Various types of Blood cell counter.		
16th	2nd	Principle and operation of the automated blood cell counters	16th	Principle and working of the automated blood cell counter
	3rd	Principle and operation of the automated blood cell counters		