



Teaching Plan Form

Academic Session: Semester 1 2023/2024

Version: 004/2023

FAR 132/3 – BASIC PHYSIOLOGY AND PHARMACOLOGY

Lecture Sessions: 1. Tuesday, 11.00-11.50 am, DKG 2. Wednesday, 11.00-11.50 am, DKG 3. Friday, 10.00-10.50 am, DKG Practical Sessions: Tuesday, 2.00-5.00 pm, PHYSIOLOGY TEACHING LABS I & II/PHARMACOLOGY TEACHING LAB Tutorial Sessions: Thursday, 10.00 am-1.00 pm Please refer to the specific schedule, the venue will be updated by the respective lecturers.	Lecturers: 1. Ms. Khairul Niza Abdul Razak (KNAR), <i>Coordinator</i> 2. Dr. Ali Attiq (AA) 3. Dr. Siti Sarah Fazalul Rahiman (SSFR) 4. Prof. Dr. Vikneswaran Murugaiyah (VM)
Contribution of Assessments: • Final Examination 60% • Coursework 40% 1. Laboratory Reports [5 x 4%: 20%] 2. Leadership Assessment [1 x 5%: 5%] 3. Practical Test [1 x 5%: 5%] 4. Tests [2 x 5%: 10%]	

COURSE OUTCOME	PROGRAM OUTCOME (PO)	LEARNING TAXONOMY (LT)	MEASURING TOOLS
CO1 Describe the structural organization, general body functions, and important aspects of cellular biology.	PO1	C2	Final examination /Laboratory Reports /Test
CO2 Describe the relationship between the microscopic structures of the primary types of tissues with their functions in the organ systems.	PO1	C2	Final examination /Laboratory Report /Practical Test
CO3 Describe the basics of pharmacodynamics and toxicology, the drug's action and various drug responses, and the pharmacokinetics and methods of drug delivery.	PO1	C2	Final examination /Laboratory Reports /Test
CO4 Display the skills in carrying out guided experiments and data analysis in report writing.	PO2	P3	Practical test
CO5 Balance the responsibility as a member/leader while performing group work.	PO9	A4	Laboratory reports

WEEK	DATE	LECTURER	TOPICS	ACTIVITY/ ASSESSMENT	COURSE OUTCOME
1	17/10/2023	KNAR	Introduction to Physiology: Cell, tissue, organ, and systems.	Lecture	CO1
	18/10/2023	KNAR	The internal environment of the body. Passive transport of water and solutes (I).	Lecture	CO1
	20/10/2023	KNAR	Passive transport of water and solutes (II).	Lecture	CO1
2		KNAR	Active transport across the plasma membrane.	Lecture	CO1
	24/10/2023	KNAR/SSFR	PRACTICAL 1: Active transport of glucose in the small intestine. (GROUP A – PHYSIOLOGY TEACHING LAB I)	Laboratory report/ Leadership Assessment	CO1 CO5
	25/10/2023	KNAR	Regulation of cell volume.	Lecture	CO1
	27/10/2023	KNAR	Homeostasis and the regulatory system (I).	Lecture	CO1
3		KNAR	Homeostasis and the regulatory system (II).	Lecture	CO1
	31/10/2023	KNAR/SSFR	PRACTICAL 1: Active transport of glucose in the small intestine. (GROUP B – PHYSIOLOGY TEACHING LAB I)	Laboratory report/ Leadership Assessment	CO1 CO5
	1/11/2023	SSFR	Introduction to Histology	Lecture	CO2
	2/11/2023	KNAR	Groups A1-A4: 10 am-11 am	Tutorial 1	CO1
		KNAR	Groups B1-B4: 12 pm-1 pm	Tutorial 1	CO1
	3/11/2023	SSFR	Basic Tissues (I): Epithelial tissue	Lecture	CO2
4		SSFR	Basic Tissues (II): Connective tissue	Lecture	CO2
	7/11/2023	KNAR/SSFR	PRACTICAL 2: Cell osmosis. (GROUP A – PHYSIOLOGY TEACHING LAB I)	Laboratory report/ Leadership Assessment	CO1 CO5
	8/11/2023	SSFR	Cartilage and bone (I)	Lecture	CO2
	9/11/2023	KNAR	Groups A5-A8: 10 am-11 am	Tutorial 1	CO1
		KNAR	Groups B5-B8: 12 pm-1 pm	Tutorial 1	CO1
	10/11/2023	SSFR	Cartilage and bone (II)	Lecture	CO2
5		SSFR	Exocrine gland	Lecture	CO2
	14/11/2023	KNAR/SSFR	PRACTICAL 2: Cell osmosis. (GROUP B – PHYSIOLOGY TEACHING LAB I)	Laboratory report/ Leadership Assessment	CO1 CO5
	15/11/2023	SSFR	Liver	Lecture	CO2
	16/11/2023	KNAR	Groups A9-A12: 10 am-11 am	Tutorial 1	CO1
		KNAR	Groups B9-B12: 12 pm-1 pm	Tutorial 1	CO1
	17/11/2023	SSFR	Skin	Lecture	CO2
6		KNAR	TEST 1 (ONLINE - DKG)	Online test eLearn@usm	CO1
	21/11/2023	SSFR/KNAR	PRACTICAL 3: Histology (GROUP A – PHYSIOLOGY TEACHING LAB I)	Laboratory report/ Leadership Assessment	CO2 CO4 CO5
	22/11/2023	AA	Introduction to Pharmacology	Lecture	CO3
	23/11/2023	SSFR	Groups A1-A4: 10 am-11 am	Tutorial 2	CO2
		SSFR	Groups B1-B4: 12 pm-1 pm	Tutorial 2	CO2
	24/11/2023	AA	Mechanism of drug action/Pharmacodynamic	Lecture	CO3
7		AA	Pharmacokinetic	Lecture	CO3
	28/11/2023	SSFR/KNAR	PRACTICAL 3: Histology (GROUP B – PHYSIOLOGY TEACHING LAB I)	Laboratory report/	CO2 CO4

				Leadership Assessment	CO5
	29/11/2023	AA	Drug absorption	Lecture	CO3
	30/11/2023	SSFR	Groups A5-A8: 10 am-11 am	Tutorial 2	CO2
		SSFR	Groups B5-B8: 12 pm-1 pm	Tutorial 2	CO2
	1/12/2023	AA	Drug metabolism (I)	Lecture	CO3
8	4/12/2023 - 10/12/2023	MID-SEM BREAK			
9	12/12/2023	AA	Drug metabolism (II)	Lecture	CO3
		VM/AA	PRACTICAL 4: Routes of drug administration. (GROUP A – PHARMACOLOGY TEACHING LAB)	Laboratory report/ Leadership Assessment	CO3 CO5
	13/12/2023	VM	Drug distribution	Lecture	CO3
	14/12/2023	SSFR	Groups A9-A12: 10 am-11 am	Tutorial 2	CO2
		SSFR	Groups B9-B12: 12 pm-1 pm	Tutorial 2	CO2
	15/12/2023	VM	Drug excretion (I)	Lecture	CO3
10	19/12/2023	VM	Drug excretion (II)	Lecture	CO3
		VM/AA	PRACTICAL 4: Routes of drug administration. (GROUP B - PHARMACOLOGY TEACHING LAB)	Laboratory report/ Leadership Assessment	CO3 CO5
	20/12/2023	VM	Individual variation and drug interaction.	Lecture	CO3
	21/12/2023	SSFR	TEST 2 (PRACTICAL - PHYSIOLOGY TEACHING LAB)	Practical Test	CO4
	22/12/2023	VM	Toxicology	Lecture	CO3
	11	26/12/2023	NO LECTURE		
27/12/2023		NO LECTURE			
29/12/2023		NO LECTURE			
12	2/1/2024	NO LECTURE			
	3/1/2024	NO LECTURE			
	5/1/2024	AA/VM	TEST 3 (ONLINE - DKG)	Online test eLearn@usm	CO3
13	9/1/2024	NO LECTURE			
		AA /VM	PRACTICAL 5: Isolated guinea pig ileum. (GROUP A – PHYSIOLOGY TEACHING LAB II)	Laboratory report/ Leadership Assessment	CO3 CO5
	10/1/2024	NO LECTURE			
	12/1/2024	NO LECTURE			
14	16/1/2024	NO LECTURE			
		AA/VM	PRACTICAL 5: Isolated guinea pig ileum. (GROUP B – PHYSIOLOGY TEACHING LAB II)	Laboratory report/ Leadership Assessment	CO3 CO5
	17/1/2024	NO LECTURE			
	19/1/2024	NO LECTURE			
15	23/1/2024	NO LECTURE			
	24/1/2024	NO LECTURE			
	26/1/2024	NO LECTURE			
16	STUDY WEEK				
17-19	EXAMINATION WEEKS				

Contribution of assessment

	Hours of teaching	Coursework 40%				Final Examination 60%	Total 100%
		Test 10%	Practical Test 5%	Laboratory Report 20%	Leadership Assessment 5%		Leadership Assessment 5%
KNAR	7/26	Test 1: 5% (CO1)	-	8% (CO1)	(CO5)	18% (CO1)	31%
SSFR	8/26	-	Test 2: 5% (CO2, CO4)	4% (CO2)	(CO5)	15% (CO2)	24%
AA	6/26	Test 3: 3% (CO3)	-	4% (CO3)	(CO5)	12% (CO3)	19%
VM	5/26	Test 3: 2% (CO3)	-	4% (CO3)	(CO5)	15% (CO3)	21%

Prepared by: MS KHAIRUL NIZA ABDUL RAZAK	Approved by: [Program Chair/ Deputy Dean (Academic)] DR NUR HIDAYAH KAZ ABDUL AZIZ
	
Date: 11/10/2023	Date: 12/10/2023