

강의 계획서

과목명 한글/영문	생리학	Human Physiology	교수명 한글/영문	김원경	Kim Weon-Gy eong	
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이수구분	<input checked="" type="checkbox"/> 전공 <input type="checkbox"/> 교양 <input type="checkbox"/> 교직 <input type="checkbox"/> 융합전공	학점	<input checked="" type="checkbox"/> 3학점 <input type="checkbox"/> 2학점 <input type="checkbox"/> 1학점	해당학기	2	
수업목표 한글/영문	생리학은 인체의 기능에 대한 학문으로 정상기능을 유지하기 위해 기관계통, 세포가 어떻게 상호작용하는지 이해한다.		Physiology is the study of the functions of the human body. Understand how organ systems and cells interact to maintain normal function. ※강좌관련 key word : The homeostasis and body fluids. Immunity, Systemic circulation, Gas exchange, Renin-Angiotensin-Aldosterone System, balance of acids and bases, CSF-BBB, Hormones			
주차	차시 (모 뉘)	소 요 시 간	차시별 학습내용			비고
			(한글)	영문		
				차시명	차시별 설명	
1	1	25	생리학의 개념	The concept of Physiology	Understand the concept of homeostasis.	
	2	25	항상성	Homeostasis	Understand and give examples of negative feedback mechanisms and positive feedback mechanisms.	
	3	25	물질이동	Selective permeable, Osmosis, Active transport	Define the transport process of material movement.	
2	1	25	혈액의 구성	The Plasma and Blood cells	Describe the composition and function of blood.	
	2	25	적혈구 혈액응고	Erythropoiesis, Hemoglobin, Procoagulant and anticoagulant	Distinguish the role of plasma proteins and red blood cells.	
	3	25	면역	The concept of immunity	Understand the concept of immunity.	
3	1	25	심혈관계의 개요	The anatomy of the heart	Describe the anatomy of the heart.	
	2	25	심전도, 혈액의 흐름	Systemic circulation, Electrocardiogram.	Describe the flow of blood; centered on the heart. Outline the concept of an electrocardiogram.	
	3	25	혈압	The blood pressure	Explain systolic and diastolic blood pressure.	
4	1	25	순환계의 구성	The purpose of the circulatory system	Explain the purpose of the circulatory system.	
	2	25	체순환의 의미	The type of blood vessel. The role of the lymphatic system	Understand the functional characteristics of each type of blood vessel. Understand the role of the lymphatic system.	
	3	25	정맥환류 혈압의 결정인자	The Venous return, Determinants of mean arterial pressure	Understand the physiological mechanism of venous return. Describe the factors involved in blood pressure.	
5	1	25	호흡계의 기능과 구조	The components of the respiratory system	List the components of the respiratory system. Compare the characteristics of the conduction zone and the	

					respiratory zone.	
	2	25	호흡, 환기의 개념	Gas exchange, Pulmonary function test	Understand the concepts of breathing and ventilation. Describe the pulmonary function test.	
	3	25	산소-혈색소 해리곡선	Oxygen-hemoglobin dissociation curve	Describe the oxygen-hemoglobin dissociation curve.	
6	1	25	비뇨기계의 구성	Kidney-ureter-urinary bladder-urethra	Summarize the composition of the urinary system.	
	2	25	소변형성 과정	The filtration, reabsorption, secretion	Describe the basic process of urine formation.	
	3	25	알도스테론의 역할 혈압조절	The role of aldosterone. Renin-Angiotensin-Aldosterone System	Understand the role of aldosterone in the kidneys. Understand the flow of blood pressure control.	
7	1	25	체액과 산-염기	The homeostasis and body fluids. Isotonic, Hypertonic, Hypotonic	Remember the concepts of homeostasis and body fluids.	
	2	25	산과 염기의 평형	The respiratory compensation and renal compensation	Explain the balance of acids and bases.	
	3	25	산-염기 불균형	The acid-base imbalance and compensation	Compare between acid and base imbalances.	
8	1	25	소화기계의 구성 및 기능	The motility, digestion, secretion, absorption	Describe the structure and function of the digestive system.	
	2	25	위산의 분비	The secretion of gastric acid	Understand the basic factors that control gastric acid secretion.	
	3	25	췌장, 간, 담낭의 역할	The pancreas, Liver, Gallbladder Nutrients, Vitamins	Describe the main functions of the liver. Distinguish between fat-soluble vitamins and water-soluble vitamins.	
9	1	25	신경계의 기능	The nervous system.	Understand the main functions of the nervous system.	
	2	25	중추신경계를 보호하는 구조물	The Skull-meninges-CSF-BBB	Understand the structures that protect the central nervous system.	
	3	25	변연계, 소뇌의 역할	The limbic system, cerebellum.	Understand the role of the limbic system and the cerebellum.	
10	1	25	말초신경계; 뇌신경, 척수신경	The cranial nerves	Distinguish the names and functions of 12 pairs of cranial nerves.	
	2	25	완신경총과 신경의 손상	The brachial plexus and wrist drop, ape hand, claw hand	Describe how the five major nerve branches originating from the brachial plexus are distributed.	
	3	25	척수반사와 반사궁 자율신경계	The spinal reflexes and reflex arches. 'Fight-or -Flight' 'Resting	Understand the concept of spinal reflexes and reflex arches.	

				and Digesting’	Compare the roles of the sympathetic and parasympathetic nervous systems.	
11	1	25	눈의 구조물의 이해	The special senses. The pupil. The Fibrous layer, Vascular layer, Nervous layer	List the types of special senses. Briefly list the layered structure of the eye.	
	2	25	시야장애	The visual pathways, Retinal detachment and Macular degeneration	Understand the concept of visual pathways and visual disturbances.	
	3	25	청각 균형감각	The functional structure of the ear. The vestibular ocular reflex.	Understand the functional structure of the ear. Describe the semicircular ducts and vestibular ocular reflex.	
12	1	25	내분비계 개요	The endocrine system The hypothalamus and pituitary gland.	List the roles of hormones secreted by the pituitary gland.	
	2	25	갑상선호르몬	The Goiter and calcitonin The glucagon and insulin	Compare thyroid hormone and parathyroid hormone.	
	3	25	생식기계	The male and female reproductive systems.	Understand the male and female reproductive systems. Understand the uterine cycle.	