Syllabus of Fall Semester, 2018

Course Title	BIOCHEN	WISTRY(II)	Course Code	e Mi	322646	Section		039
Department	Molecul	ar Biology	Level		2	Credit - Theor - Practice	3.0 -	3.0 - 0.0
Class Hours & Classroom	Tue. 10:30(75) 411-402, Thu. 10:30(75) 411-402							
Lecturer	Min, Do Sik		Office			Office Hours		
			Telephone			E-mail		
Methodology of Instruction								
Contratte.	Mid Exam; 45%, Final Exam: 45%, Report , Attendance and Attitude: 10%							
Evaluation and Grading	* Students with disabilities can request an extension of the exam hour, and they can take exams by getting writing assistance or by using a computer.						/	
Prerequisites								
Course Objectives	To understand enerygy production and its regulation through metabolic pathway of organic molecules such as carbohydrate, fatty acid, protein. To provide students with an integrated method leading to the understanding performace of physiological function through communication between organic molecules and pathological abnormalities by metabolic disturbance.							
	To understand the concepts for metabolism and integrated function of living organism							
Course Description	* Students with disabilities can negotiate with the Disabled Student's Academic Support Center regarding course materials and assignments.							egarding
		Rela	ationship betwe	en Courses and	Core Competen	cies		
8 Core Competencies of PNU	Global- Cultural Competency	Communication Competency	Convergence Competency	Application Competency	Community Service	Human Character Competency	Foundation Knowledge Competency	High-order Thinkin Competency
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		Core Cor	mpetencies Base	d on Courses a	und Educational	Methods		
Core Competencies of Department						Educational Methods		
3	Develop mole	ecular biologica	ıl basic knowled					
			Textb	ooks and Refer	ences			
Required Textbooks	Lehninger, Principle of Biochemistry (fifth edition)							
References	Biochemistry (third edition), Garrett and Grisham							
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Weekly Schedule of Classes							
Week No.	Course Material	Assignments and Other Notes					
Week 1	[Orientation and Education on Academic Misbehavior(e.g. Cheating, Plagiarism) and Safety Education on Experiment and Practice] Introduction						
Week 2	Principle of Biogenetics						
Week 3	Principle of Biogenetics						
Week 4	Glycolysis, Gluconeogenesis, PPP						
Week 5	Glycolysis, Gluconeogenesis, PPP						
Week 6	Pronciple of metabolic regulation: Glucose and Glycogen						
Week 7	Pronciple of metabolic regulation: Glucose and Glycogen						
Week 8	Mid-term Exam.						
Week 9	Citric acid cycle						
Week10	Citric acid cycle						
Week11	Fatty acid metabolism						
Week12	Amino acid metabolism and production of urea						
Week13	Oxidative phosphorylation						
Week14	Carbohydrate synthesis						
Week15	Biosynthesis of amino acidm Nucelotide, and related						
Week16	Final Exam.						
Attachment							