

Schedule for 2310610			
CELLULAR BIOCHEMISTRY (2 credits)			
First semester (2022)			
Time : July 18 - Aug 5 : MON - FRI 9.00 - 11.00 (2 h) or			Coordinator: Supaart
Room: 519			
Topic	Hrs.	Date	Instructor
1. Biochemical Basis of the Cell • Introduction to biochemical concepts • Biochemical evolution • The chemical components of a cell: Building blocks of life	3		Supaart
2. Macromolecules • Carbohydrate • Lipids • Nucleic acids • Protein and Enzymes (+Function) • Exploring proteins and proteomics	6	July 18, 19, 20, 21	Supaart
Examination 1: Aug 1 , 2022 (8.30-10.00)			
3. Basic Genetic Mechanisms • Genes and genomes • DNA replication, repair, and recombination • From DNA to protein • Exploring genes and genomics	9	July 22, 25, 26, 27	Vorrapon
Examination 2: Aug 1, 2022 (10.10-11.40)			
4. Energy and Metabolism • Basic concepts: bioenergetics and design of metabolism • Glycolysis and gluconeogenesis • The citric acid cycle • The mitochondrion: oxidative phosphorylation • Lipid metabolism • Metabolism of N-containing compounds	10	Aug 2, 3, 4, 5	Pattana
Examination 3: Aug 19, 2022 (8.30 - 10.30)			