

Schedule for 2310610			
CELLULAR BIOCHEMISTRY (2 credits)			
First semester (2025)			
Time : July 14 - July 31 : MON - FRI 9.00 - 11.00 (2 h) or 9.00 - 11.30 (2.5 h) Room 503, Klum Building			
		Coordinator: Napol	
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	July 14, 15, 16, 17	Napol
2. Macromolecules • Carbohydrate • Lipids • Nucleic acids • Protein and Enzymes (+Function) • Exploring proteins and proteomics	6		Napol
Examination 1: Aug 1, 2025 (13.00 - 16.00)			
3. Basic Genetic Mechanisms • Genes and genomes • DNA replication, repair, and recombination • From DNA to protein • Exploring genes and genomics	9	July 21, 22, 23, 24	Vorrapon
Examination 2: Aug 1, 2025 (13.00 - 16.00)			
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	July 25, 29, 30, 31	Pattana
Examination 3: TBA			