

Schedule for 2310336			
PRINCIPLES OF BIOPHYSICAL TECHNIQUES (2 credits)			
Second semester (2024)			
Time: WE 09:00 – 11:00 THU 13.00 - 15.00		Co-ordinator: Kuakarun (kuakarun.k@chula.ac.th)	
Room: 521 SCI10			
Topic	Hrs.	Date	Instructor
Spectroscopy			
· Photospectroscopy	2	9 Jan 2025	Tanakarn
· Fluorescence spectroscopy	4	16, 23 Jan 2025	Tanakarn
Mass spectrometry and Molecular weight determination			
· mass spectrometry	3	30 Jan, 6 Feb 2025	Veerasak
· electrophoresis, osmosis pressure	2	6, 13 Feb 2025	Veerasak
· equilibrium ultracentrifugation	3	13, 20 Feb 2025	Veerasak
Three-dimensional structure determination of macromolecules			
· NMR	2	27 Feb 2025	Kuakarun
Mid-term examination: สอบ 3 - 7 Mar 2025; 03-03-2025 13:00 - 16:00 น.			
Three-dimensional structure determination of macromolecules (cont.)			
· X-ray diffraction	3	13, 20 Mar 2024	Kuakarun
· cryo-EM	2	20, 27 Mar 2024 (1-2 pm)	Kuakarun
Biocalorimetry			
· Isothermal titration calorimetry	2	3 Apr 2025	Kuakarun
· differential scanning calorimetry	2	10 Apr 2025	Kuakarun
Presentation/Discussion on 3D structure determination techniques and Biocalorimetry applications	4	17, 24 Apr 2025	Kuakarun
Final-term examination: สอบ 28 Apr - 14 May 2025; 29-04-2025 08:30 - 11:30 น.			