

Schedule for 2310336
 PRINCIPLES OF BIOPHYSICAL TECHNIQUES (2 credits)
 Second semester (2020)

Time: WE 09.00 - 11.00

Room: 521-SC110-เรียน online

Co-ordinator: Kuakarun (kuakarun.k@chula.ac.th)

Online platform		1. Microsoft Team name: "2310336_2020", CODE:7tzikox		
		2. CourseVile: 2310336		
Topic	Hrs.	Date	Learning Method	Instructor
Mass spectrometry and Molecular weight determination				
· mass spectrometry	3	20 Jan 2021 (3 h)*	Live online class: MT	Kuakarun
· electrophoresis, osmosis pressure	2	27 Jan 2021	Live online class: MT	Kuakarun
· equilibrium ultracentrifugation	3	3 Feb 2021 (3 h)*	Live online class: MT	Kuakarun
Spectroscopy				
· Photospectroscopy	2	10 Feb 2021	Self-learning via video clip: MT	Tanakarn
· Fluorescence spectroscopy	4	17, 24 Feb 2021	Live online class: MT	Tanakarn
Mid-term examination:				
Three-dimensional structure determination of macromolecules	9	17, 24, 31 March 2021, 7, 21, 28 April 2021		Kuakarun
· X-ray diffraction		17 March 2021	Live online class: MT	Kuakarun
· NMR		24 March 2021	Live online class: MT	Kuakarun
· cryo-EM		31 March 2021	Self-learning via video clip: MT	Kuakarun
		7 April 2021 (3 h)*	Live online class: MT	Kuakarun
Biocalorimetry	5	21, 28 April 2021		Kuakarun
· Isothermal titration calorimetry		21 April 2021	Live online class: MT	Kuakarun
· differential scanning calorimetry		28 April 2021 (3 h)*	Live online class: MT	Kuakarun
Final examination:				

* เรียนต่อเนื่อง หรือนัดนอกเวลา

Quiz, Presentation, Assignment 10%

Exam 90%