

Schedule for 2310530 (ปีสถาบันปี เว้น 2566) (ชั้นต่ำ 5 คน)			
Biomolecular Crystallography (2 credits)			
Second semester (2024)			
Time: TU 15.00 - 17.00	Co-ordinator: Kittikhun		
Room: SCI10 519			
Topic	Hrs.	Date	Instructor
Purification and crystallization of biomolecules	2	7 Jan	Kittikhun
Radiation sources and detection	2	14 Jan	Kittikhun
Crystal symmetry and space group	2	21 Jan	Kittikhun
Diffraction and structure factor	2	28 Jan	Kittikhun
Data collection strategy and data quality	2	4 Feb	Kittikhun
Indexing and scaling software (workshop)	2	11 Feb	Kittikhun, Kuakarun
Experimental phasing: isomorphous replacement	2	18 Feb	Kuakarun
Experimental phasing: anomalous diffraction	2	25 Feb	Kuakarun
Mid-term examination: สอบ 3 - 7 Mar 2025; TDF			
Solvent flattening and density modification	2	11 Mar	Kuakarun
Molecular replacement	2	18 Mar	Kuakarun
Phasing software (workshop)	2	25 Mar	Kittikhun, Kuakarun
Model building and refinement	2	1 Apr	Kuakarun
Model building software and structure preparation for publication (workshop)	2	8 Apr	Kittikhun, Kuakarun
Structure databases and file formats	2	22 Apr	Kuakarun
Combination with other structural techniques (EM, NMR, SAXS, etc.)	2	Reschedule	Kuakarun
Final-term examination: สอบ 28 Apr - 14 May 2025; TDF			