

Schedule for 2310522 (ชั้นต่ำ 5 คน)			
CARBOHYDRATE BIOTECHNOLOGY (2 credits)			
First semester (2024)			
Time: TH, FR 13.00 - 14.00		Co-ordinator: Kittikhun	
Room: 503 SCI10			
Topic	Hrs.	Date	Instructor
1. Review on Carbohydrates 2. Introduction to Carbohydrate Biotechnology : From Agricultural Products to Carbohydrates of Industrial and Medicinal Importance	2	8, 9 Aug	Kittikhun (ตามเดิม)
3. Enzymatic Production of Carbohydrates and Glycosides : Glycosyl Hydrolases and Glycosyl Transferases	2	15, 16 Aug	Kittikhun (ตามเดิม)
4. Carbohydrate Characterization & Analysis	4	22, 23, 29, 30 Aug	Manchumas
5. Functional Carbohydrates : Structure, production, properties, and applications (Starch; Oligosac: MOS, IMO, Gentio-OS, Cyclodextrins; Disac: Trehalose, Maltose, Maltitol, Nigerose; Monosac: Glucose, Fructose) 5.1 Starch and Related Saccharides 5.2 Fructose Related Saccharides (FOS,Glycosylsucrose, Palatinose, GOS, Lactosucrose)	5	5, 6, 12, 13, 19 Sep	Karan
Mid-term examination: สอบ 23 - 27 Sep 2024; 26 ก.ย. 2567 เวลา 13:00-15:00 น.			
5.3 Chitin-Chitosan and Other Low-digestible Saccharides (XOS, Manno-OS)	4	10, 11, 17, 18 Oct	Rath
6. Glycobiology and Glycoconjugates - Concepts of Glycobiology - Glycosylation and Disease - Glycoconjugates and recognition	6	24, 25, 31 Oct, 1, 7, 8 Nov	Kittikhun (ตามเดิม)
7. Future Prospects: Carbohydrate Drug Design & Carbohydrate based Vaccines : Glycomics and Glycobiology : Functional Carbohydrates	3	14, 15, 21 Nov	Manchumas
Final-term examination: สอบ 25 Nov - 9 Dec 2024; 25 พ.ย. 2567 เวลา 13:00-15:00 น.			