

Schedule for 2310505

BIOCHEM TRANS ENV (3 credits)

Second semester (2022)

Time: WE 09.00 - 10.00, TH 08.00 - 10.00

Co-ordinator: Alisa

Room: SCI10 We 503 ; TH 519

Topic	Hrs.	Date	Instructor
Introduction	1	Jan 12	Alisa
1. Sources of pollutants and toxic compounds			
2. Fate and transport of pollutants to environment and targets	3	Jan 13, 19	Alisa
3. Impact of toxic compounds to environmental targets & human responses	3	Jan 20, 26	Alisa
4. Metabolic pathways and pathway diversity for detoxification in	5	Jan 27, Feb 2, 3	Alisa
5. Cometabolism of various substrates & Enzyme diversity and their environmental significance			Alisa
6. Biodegradation of environmental contaminants	9	Feb 9, 10, 17, 23, 24, March 2	Alisa
Mid-term examination สอบ 7 - 13 Mar 2023; 7 มี.ค. 2566 เวลา 8:30-11:30 น.			
7. Bioremediation: Types & Factors affecting bioremediation	6	March 16, 17, 23, 24	Alisa
8. Bioremediation implementation	3	March 30, 31	Alisa
9. Phytoremediation	6	April 7, 20, 21, 27	Saowarath
10. Genetically-designed microorganisms for bioremediation: basis and implementation for toxic waste treatment	4	April 28, May 5	Saowarath
Final examination สอบ 8 - 19 May 2023; 8 พ.ค. 2566 เวลา 13:00-16:00 น.			