

Schedule for 2310505
 BIOCHEM TRANS ENV (3 credits)
 Second semester (2020)

Time: WE 09.00 - 10.00, TH 08.00 - 10.00

Room: We 503-SC110; TH 519-เรียน online

Co-ordinator: Alisa

Topic	Hrs.	Date	Instructor
Introduction	1	Jan 20	Alisa
1. Sources of pollutants and toxic compounds			
2. Fate and transport of pollutants to environment and targets	3	Jan 21, 27	Alisa
3. Impact of toxic compounds to environmental targets & human responses	3	Jan 28 ,Feb 3	Alisa
4. Metabolic pathways and pathway diversity for detoxification in microorganisms	5	Feb 4, 10, 11	Alisa
5. Cometabolism of various substrates & Enzyme diversity and			Alisa
6. Biodegradation of environmental contaminants	9	Feb 17, 18, 24, 25 Mar 3, 4	Suchart
Mid-term examination:			
7. Bioremediation: Types & Factors affecting bioremediation	6	March 17, 18, 24, 25	Alisa
8. Bioremediation implementation	3	March 31, Apr 1	Alisa
9. Phytoremediation	6	April 7, 8, 21, 22	Saowarath
10. Genetically-designed microorganisms for bioremediation: basis and implementation for toxic waste treatment	6	April 28, 29, May 5, 6	Suchart
Final examination:			