

Schedule for 2310505
 BIOCHEM TRANS ENV (3 credits)
 Second semester (2019)

Time: WE 09.00 - 10.00, TH 08.00 - 10.00

Room: We 503 SCI10; TH 519

Co-ordinator: Alisa

Topic	Hrs.	Date	Instructor
Introduction	1	Jan 8	Alisa
1. Sources of pollutants and toxic compounds			
2. Fate and transport of pollutants to environment and targets	3	Jan 9, 22	Alisa
3. Impact of toxic compounds to environmental targets & human responses	3	Jan 23, 29	Alisa
4. Metabolic pathways and pathway diversity for detoxification in microorganisms	5	Jan 30, Feb 5, 6	Alisa
5. Cometabolism of various substrates & Enzyme diversity and their			Alisa
6. Biodegradation of environmental contaminants	9	Feb 12, 13, 19, 20, 26, 27	Suchart
Mid-term examination:			
7. Bioremediation: Types & Factors affecting bioremediation	6	March 11, 12, 18, 19	Alisa
8. Bioremediation implementation	3	March 25, 26	Alisa
9. Phytoremediation	6	April 1, 2, 8, 9	Saowarath
10. Genetically-designed microorganisms for bioremediation: basis and implementation for toxic waste treatment	6	April 22, 23, 29, 30	Suchart
Final examination:			

