

Schedule for 2310526 Foren Biochem

Forensic Biochemistry (2 credits)				
First semester (2025)				
	Time: Mon 9.00-11.00		Co-ordinator: Kunlaya	
	Room: SCI10 521			
Week	Topic	Lect hr	Date	Instructor
1	1. Introduction to Forensic Biochemistry	2	4-Aug-25	Kunlaya
2	2. Biological Evidence Collection and handling of material at the crime scene	2	18-Aug-25	Surachan
3	Forensic analysis of biological evidences (Forensic serology, Blood detection, Semen identification)	2	25-Aug-25	Hathaichanok
4	Short Tandem Repeat (STR) analysis Paternity Determination Y-chromosome analysis (X-STR, T-STR, mtDNA, analysis) SNPs for Human Identification	2	1-Sep-25	Hathaichanok
5	3. Forensic DNA analysis	4	8-Sep-25, นัดเพิ่ม 2 ชม	Kunlaya
	DNA sample preparation for forensic analysis			
	DNA Technologies used in Forensic Sciences			
	- PCR and Realtime PCR			
6	- Capillary Electrophoresis			
	- Next-Generation Sequencing			
7	4. Genome and Molecular Markers used in Forensic Science Mitochondrial DNA (mtDNA) Short Tandem repeats (STRs) Single nucleotide polymorphisms (SN)Ps DNA mehtylation	2	15-Sep-24	Kunlaya
8	Mid-term examination: 22 - 26 Sep 2025; 26 Sep 2025 13:00 - 15:00 น.			
9	Age assessment (DNA methylation, Telomere lenght, small RNA biomarker)	3	29-Sep-25, 6-Oct-25 (1h)	Kunlaya
10	6. Biochemical Techniques in toxic substance analysis	5	6-Oct-25 (1h), 20-Oct-25, 27-Oct-25	Karan
11	Enhanced chromatographic separation methods (GC, HPLC, Mass spectrometry)			
12	Detection of toxic substances in forensic samples	2	3-Nov-25	Phattaraporn
13	7. Ethical, and Regulatory Concerns in Forensic Biochemistry	2	10-Nov-25	Supakorn
14	Visit : Institute of Forensic Medicine, Police hospital	3 (9-12 am)	17-Nov-25	Kunlaya, Karan
15	Group Presentation	1	นัดเพิ่ม 1h	Kunlaya/Karan
16	Final-term examination: 24 Nov - 8 Dec 2025; 3 Dec 2025 08:30 - 10:30 น.			