Schedule for 2310451 (BBTech) (ปีสลับปี เว้น 2568)					
GENOMIC ANALYSIS FOR BI	OTECHN	OLOG	Y (3 credits)		
Second sem	ester	(2024	1)		
Time: MO 10.00-12.00 Room: MHVH 509/2			Co-ordinator: Kunlaya		
Time: FR 09.00 - 11.00 Room: SCI05 301					
Topic	Lect	Prac	Date	Instructor	
1. Course Orientation			Jan 6	Kunlaya	
Next-generation sequencing platforms Genome sequencing Processing of raw reads	4	4	Jan 6, 10, 13, 17	Pattana	
3. Genome assembly and genome annotation - Prediction of promoter, Transcription-Factor-binding site, Translation Initiation Site, and the ORF	4	4	Jan 20, 24, 27, 31	Pattana	
Microbiome Metagenomics and metatranscriptomics	4	4	Feb 3, 7, 10, 14	Kunlaya	
5. Detection of Sequence Polymorphism and the SNP Database	4	4	Feb 17, 21, 24, 28	Teerapong	
Mid-term examination: 3 M	ar 2025	8.30 am	n - 11.30 am	1	
6. Genome editing and applications	4	4	Mar 10, 14, 17, 21	Kunlaya	
7. High-throughput expression AnalysisRNA SequencingProcessing of raw reads	4	4	Mar 24, 28, 31 Apr 4	Teerapong	
8. Applications of genome analysis (Invited Lecutre/Assignment) - Guest Lecture 1 (9-11 am)	1	1	Apr 11 (9-11 am)	Kunlaya	
- Guest Lecture 2 (9-11 am)	1	1	Apr 18 (9-11 am)		
8. Applications of genome analysis (Discussion Pane/Group term projectl) - Understanding human genetic diseases/responses to drugs/bacterial pathogenicity - The impact of genomics on agriculture"	2	2 (SELF STUD Y)	Apr 21	Kunlaya, Pattana, Teerapong	
Final examination: 8 May	2025 8.	1 30 am -	-11.30 am	l	