

Schedule for 2310506 (ปีสลับปี เว้น 2566) (เปิดสลับปีกับ 555BBTech)				
BIOINFORMATICS I (3 credits)				
First semester (2024)				
Time: WE 10:00 - 12:00 Rm. TAB304			Co-ordinator: Teerapong	
Time: WE 13:00 - 15:00 Rm. Math508/1				
Topic	Lect	Prac	Date	Instructor
1. Introduction to Bioinformatics	1	1	7 Aug (M)	Teerapong
2. Databases				
2.1 Data banks of biological information	2	2	7 Aug (A), 14 Aug (M)	Pattana
2.2 Retrieval of information and data mining	1	1	14 Aug (A)	Pattana
2.3 Submitting sequences to the databases	1	1	21 Aug (M)	Pattana
3. Sequence analysis				
3.1 Sequence alignment	2	2	21 Aug (A), 28 Aug (M)	Teerapong
3.2 Databases searching	1	1	28 Aug (A)	Teerapong
3.3 Phylogenetic analysis	2	2	4-ก.ย.	Supitcha
4. Protein analysis				
4.1 Protein sequence analysis	2	2	11-ก.ย.	Veerasak
4.2 Molecular modeling	2	2	18-ก.ย.	Thanyada
Mid-term examination: สอบ 23 - 27 Sep 2024; 23-09-2024 13:00 - 16:00 น.				
4. Protein analysis (continued)				
4.3 Prediction of protein tertiary structure by homology modeling	2	2	9-ต.ค.	Thanyada
4.4 Computer simulation	3	3	16, 23 (M) Oct	Thanyada
4.5 Protein design	3	3	23 (A), 30 Oct	Thanyada
5. Gene and genome analysis				
5.1 Identification of gene structures	2	2	6-พ.ย.	Teerapong
5.2 Genome sequencing and annotation	2	2	13-พ.ย.	Teerapong
5.3 Analysis of high throughput expression data	2	2	20-พ.ย.	Teerapong
Final-term examination: สอบ 25 Nov - 9 Dec 2024; 27-11-2024 13:00 - 16:00 น.				