Schedule for 2310506

BIOINFORMATICS I (3 credits)

First semester (2019)

Time: TH, FR 14.00 - 16.00

Room: COM2, MVRH Co-ordinator: Teerapong

Topic	Lect	Prac	Date	Instructor
Introduction to Bioinformatics	1	1	16-Aug	Teerapong
2. Databases		_		
2.1 Data banks of biological information	2	2	22, 23 Aug	Thanyada
2.2 Retrieval of information and data mining	1	1	29-Aug	Thanyada
2.3 Submitting sequences to the databases	1	1	30-Aug	Thanyada
3. Sequence analysis I				
3.1 Sequence alignment	2	2	5, 6 Sep	Teerapong
3.2 Databases searching	1	1	12-Sep	Teerapong
3.3 Phylogenetic analysis	1	1	13-Sep	Anchittha
4. Sequence analysis II				
4.1 Identification of gene structures	2	2	19, 20 Sep	Rath
4.2 Protein sequence analysis	2	2	26, 27 Sep	Surasak
5. Structure analysis				
5.1 Molecular modeling	1	1	4-Oct	Thanyada
Mid-term ex	amination:			ļ
5. Structure analysis				
5.1 Molecular modeling	1	1	17-Oct	Thanyada
5.2 Prediction of protein tertiary structure by	2	2	18, 24 Oct	Thanyada
homology modeling				
5.3 Computer simulation	4	4	25, 31 Oct, 1, 7	Thanyada
			Nov	
5.4 Protein design	3	3	8, 14, 15 Nov	Surasak
6. Gene expression and genome analysis (High-throughput				
data analysis)				
6.1 Genome sequencing and annotation	2	2	21, 22 Nov	Teerapong
6.2 Analysis of high throughput expression data	2	2	28, 29 Nov	Teerapong
Final exar	mination:		<u> </u>	