

MD 627 710 Bioinformatics and big data analysis, 2 credits (1-3-4), First semester, 2023 (2566)

WK	Date	Time	No.	Topics	Lecturers	Hr
1	21 Jun 23	13.00-13.30	Orientat	Course orientation	Wises	1
		13.30-14.30	Binf 1	Bioinformatics in Post-Genomics Era	Viraphong	1
		14.30-17.00	Binf 2	Functional genomics	Viraphong	1
2	28-Jun-23	13.00-1400	Binf 3	Primers and probes design	Wises	1
		14.00-17.00	Lab 2	PCR primer and probe design	WN	3
3	5-Jul-23	13.00-1400	Binf 3	Analysis of DNA-Protein sequences	Surasak	1
		14.00-17.00	Binf 4	Analysis of DNA & protein sequences	Surasak	3
4	12-Jul-23	13.00-1400	Binf 5	Structural genomics	Sorujisiri	1
		14.00-17.00	Lab 3	Practice in Structural genomics	Sorujisiri	3
5	19-Jul-23	13.00-1400	Binf 6	Data retrieval from public database	Sakawrat	1
		14.00-17.00	Lab 4	Searching and retrieval of biological data	Sakawrat	3
6	26-Jul-23	13.00-14.00	Binf 7	Free software in bioinformatics	Wises	1
		14.00-17.00	Lab 5	Free software available in internet	Wises	3
7	2-Aug-23			Buddish holiday		
8	9-Aug-23	13.00-14.00	Binf 8	Phylogenetic analysis	Kiatchai	1
		14.00-17.00	Lab 6	Practice in Phylogenetic analysis	Kiatchai	3
9	16-Aug-23	13.00-14.00	Binf 9	whole genome analysis analysis I	Kiatchai	1
		14.00-17.00	Lab 7	Practice in whole genome analysis I	Kiatchai	3
10	23-Aug-23	13.00-14.00	Binf 10	whole genome analysis analysis II	Kiatchai	1
		14.00-17.00	Lab 8	Practice in whole genome analysis II	Kiatchai	3
11	30-Aug-23	13.00-14.00	Binf 11	RNA sequencing analysis	A.Arpon	1
		14.00-17.00	Lab 9	Practice in RNA sequencing analysis	A.Arpon	3
12	6-Sep-23	13.00-15.00	Binf 12	Chromosome microarray	Kitti	2
13	13-Sep-23	13.00-15.00	Binf 13	Genome-wide-associate study	Umaporn	2
14	20-Sep-23	13.00-14.00	Binf 14	Pharmacogenomics	Wichittra	2
		14.00-17.00	Lab 11			
15	27-Sep-23	13.00-15.00	Binf 15	Microbiome analysis	Attawit	1
				Practice in Microbiome analysis	Attawit/team	3
16	4-Oct-23	13.00-14.00	Binf 16	proteomic analysis	Jutharop	1
		14.00-17.00	Lab 10	Practice in proteomic analysis	Jutharop	3
17	11-Oct-23	13.00-15.00	Binf 17	System biology	Wises	2
18	18-Oct-23	13.00-15.30	Exam	Final examination	Wises	2.5
Lecture and final examination room is at #3501, 5th floor อาคารเรียนรวม					Lecture	18
WN=Wises, KS=Kittipan, KF= Kiatchai, SK=Sakaorat, UY=Umaporn,					Lab	36
SC= Sorujisiri, KaS=Kanin, SA=Sirinart, CP=Chonlatip,					Orientation	1
WP=Wisitsak					Total class hr.	55.5