

**Principles of medical biochemistry techniques (SIBB 504)**

**Credit 1 (1-0-2)**

**Tuesday: 9.00 – 11.00 am**

**10th Fl. Srisavarindira building**

**Course coordinator: Primana Punnakitikashem**

**Phone 02-419-9133, E-mail: primana.pun@mahidol.ac.th**

<b>Date</b>	<b>Topic</b>	<b>Lecturer</b>	<b>synchronous/asynchronous</b>
6 August 2024	Course introduction & Basic biochemistry techniques	Primana	synchronous/ live onsite
14 August 2024	Absorption spectrometry - Emission spectrometry	Kongtana, Chanatip	synchronous
20 August 2024	Chromatographic technique	Napatara	asynchronous
22 August 2024 (Thr)	High-performance liquid chromatography	Chayanon	synchronous
3 September 2024	Mass spectrometry	Sakda	synchronous
10 September 2024	Tissue culture technique	Kongtana	synchronous
17 September 2024	Tissue homogenization, Protein purification	Chayanon	synchronous
26 September 2024 (Thr)	Enzyme kinetics	Chayanon	synchronous
1 October 2024	<b>Exam I (1-8)</b>		

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<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Lecturer</b>	<b>synchronous/asynchronous</b>
1	8 October 2024	Molecular biology techniques I (Electrophoresis techniques, Western blotting)	Napatara	asynchronous
2	15 October 2024	Molecular biology techniques II (DNA extraction, quantification, cloning)	Napatara	asynchronous
3	22 October 2024	Molecular cytogenetics	Vorapan	asynchronous
4	29 October 2024	Flow cytometry	Primana/ Nathachit	synchronous
5	5 November 2024	Monoclonal antibody and its application	Napatara	asynchronous
6	12 November 2024	Polymerase chain reaction 10.00-11.00	Chatchawan	asynchronous/ live onsite
7	20 November 2024	Sequencing technique	Thidatip	synchronous
8	26 November 2024	Bioinformatics	Chayanon	synchronous
<b>9</b>	3 December 2024	<b>Exam II (1-8)</b>		