

The list of modules and courses

MODULE	CODE	COURSE	PRINCIPAL LECTURER	P	V	S	UK	ECTS	STATUS
<b>Module 1</b>  MODULE COORDINATOR: <b>Prof. dr. sc. Dražen Vikić-Topić</b>	DSMK 101	<b>Synthesis of Natural Products and Design of Artificial Enzymes</b>	Prof. dr. sc. Leo Frkanec	8	0	2	<b>10</b>	<b>2,5</b>	O
	DSMK 102	<b>Methods in peptide, carbohydrate and nucleoside synthesis</b>	Prof. dr. sc. Biserka Žinić	6	0	0	<b>6</b>	<b>1,5</b>	O
	DSMK 103	<b>Physical organic Aspects of Medicinal Chemistry</b>	Izv. prof. dr. sc. Davor Margetić	6	0	2	<b>8</b>	<b>2,0</b>	O
	DSMK 104	<b>Computational Chemistry</b>	Prof. dr. sc. Sanja Tomić	7	0	1	<b>8</b>	<b>2,0</b>	O
	DSMK 105	<b>Modern Analytical Methods in Drug Discovery - Analysis and Structure Elucidation</b>	Prof. dr. sc. Dražen Vikić-Topić	6	2	0	<b>8</b>	<b>2,0</b>	O
<b>Module 2</b>  MODULE COORDINATOR: <b>prof. dr. sc. Milan Mesić</b>	DSMK 201	<b>Research and development of new drugs</b>	Prof. dr. sc. Radan Spaventi	4	0	0	<b>4</b>	<b>1,0</b>	O
	DSMK 202	<b>From genomics to target identification</b>	<u>D</u> r. sc. Mihajlo Banjac prof. dr. sc. Milan Mesić	4	0	0	<b>4</b>	<b>1,0</b>	O
	DSMK 203	<b>Medicinal Chemistry - from hit to candidate</b>	Prof. dr. sc. Milan Mesić	8	0	2	<b>10</b>	<b>2,5</b>	O
	DSMK 204	<b>Biological testing and profiling of new compounds - potential drugs</b>	Prof. dr. sc. Vesna Eraković Haber	4	2	2	<b>8</b>	<b>2,0</b>	O
	DSMK 205	<b>Drug optimization and candidate selection for preclinical studies</b>	Izv. prof. dr. sc. Sanja Koštrun	6	0	2	<b>8</b>	<b>2,0</b>	O
	DSMK 206	<b>Drug metabolism and pharmacokinetics</b>	Dr. sc. Jasna Padovan prof. dr. sc. Milan Mesić	4	0	2	<b>6</b>	<b>1,5</b>	O
	DSMK 207	<b>Pre-clinical and clinical development of new drugs</b>	Doc. dr. sc. Katarina Orešković	4	0	2	<b>6</b>	<b>1,5</b>	O
<b>Module 3</b>  MODULE COORDINATOR: <b>Doc. dr. sc. Ivana Munitić</b>	DSMK 301	<b>Methodology of scientific research</b>	Doc. dr. sc. Ivana Munitić	11	4	1	<b>16</b>	<b>2,5</b>	O
	DSMK 302	<b>Scientific research methodology in biomedicine</b>	Izv. prof. dr. sc. Marta Žuvić	16	0	4	<b>20</b>	<b>5,0</b>	O
	DSMK 303	<b>Intellectual property – protection for innovation</b>	Doc. dr. sc. Petra Karanikić	6	0	2	<b>8</b>	<b>1,0</b>	O
<b>Module 4</b>  MODULE COORDINATOR:	DSMK 401	<b>Design and synthesis of complex organic molecules</b>	Dr. sc. Goran Kragol Prof. dr. sc. Dražen Vikić-Topić	6	0	2	<b>8</b>	<b>2,0</b>	I
	DSMK 402	<b>Stereochemistry of drugs and asymmetric synthesis</b>	Dr. sc. Marin Roje Prof. dr. sc. Dražen Vikić-Topić	6	0	2	<b>8</b>	<b>2,0</b>	I

Dr. sc. Goran Kragol	DSMK 403	<b>Chemistry of nucleosides and nucleotides</b>	Prof. dr. sc. Biserka Žinić	6	0	2	<b>8</b>	<b>2,0</b>	
	DSMK 404	<b>Chemistry of macrolide compounds</b>	Izv. prof. dr. sc. Sulejman Alihodžić	6	0	2	<b>8</b>	<b>2,0</b>	
	DSMK 405	<b>Special methods in organic synthesis</b>	Izv. prof. dr. sc. Davor Margetić	6	0	2	<b>8</b>	<b>2,0</b>	
	DSMK 406	<b>Asymmetric organocatalytic transformations</b>	Dr. sc. Matija Gredičak Prof. dr. sc. Dražen Vikić-Topić	6	2	0	<b>8</b>	<b>2,0</b>	
Module 5 MODULE COORDINATOR: Prof. dr. sc. Ivo Piantanida	DSMK 501	<b>Supramolecular and bioorganic chemistry</b>	Prof. dr. sc. Mladen Žinić	6	0	2	<b>8</b>	<b>2,0</b>	
	DSMK 502	<b>Mechanism of action and pharmacologic potential of small DNA/RNA binders</b>	Prof. dr. sc. Ivo Piantanida	6	0	2	<b>8</b>	<b>2,0</b>	
	DSMK 503	<b>Synthesis and function of peptide, proteins and their conjugates</b>	Dr. sc. Ivanka Jerić Prof. dr. sc. Ivo Piantanida	7	0	1	<b>8</b>	<b>2,0</b>	
	DSMK 504	<b>Preparation, analysis and application of oligonucleotides</b>	Prof. dr. sc. Biserka Žinić	7	0	1	<b>8</b>	<b>2,0</b>	
	DSMK 505	<b>The other side of metabolism</b>	Dr. sc. Lidija Varga-Defterdarović Prof. dr. sc. Ivo Piantanida	7	0	1	<b>8</b>	<b>2,0</b>	
Module 6 MODULE COORDINATOR: Prof. dr. sc. Dražen Vikić – Topić	DSMK 601	<b>Organic spectroscopy I</b>	Prof.dr.sc. Dražen Vikić - Topić	6	4	0	<b>10</b>	<b>2,5</b>	
	DSMK 602	<b>Organic spectroscopy II</b>	Prof. dr.sc. Ivo Piantanida	6	4	0	<b>10</b>	<b>2,5</b>	
	DSMK 603	<b>Laboratory in analytical chemistry for medicinal chemists</b>	Izv. prof. dr.sc. Vesna Gabelica Marković	2	8	0	<b>10</b>	<b>2,5</b>	
	DSMK 604	<b>Chemometrics</b>	Prof. dr.sc. Sanja Tomić	8	1	1	<b>10</b>	<b>2,5</b>	
Module 7 MODULE COORDINATOR: Prof. dr. sc. Krešimir Pavelić	DSMK 701	<b>Basic genetic recombinant methods in personalized medicine</b>	Doc. dr. sc. Elitza Markova - Car	2	5	3	<b>10</b>	<b>2,5</b>	
	DSMK 702	<b>Nanomedicine</b>	Prof.dr.sc. Krešimir Pavelić	4	4	2	<b>10</b>	<b>2,5</b>	
	DSMK 703	<b>Systems biomedicine</b>	Izv. prof. dr.sc. Sandra Kraljević Pavelić	4	3	3	<b>10</b>	<b>2,5</b>	
	DSMK 704	<b>Proteomics in personalized medicine</b>	Prof. dr. sc. Đuro Josić	6	0	4	<b>10</b>	<b>2,5</b>	
	DSMK 705	<b>Pharmacology and mechanisms of drugs actions</b>	Doc. dr.sc. Mirela Sedić	7	4	1	<b>12</b>	<b>3,0</b>	

	DSMK 706	Personalized medicine	Prof. dr.sc. Krešimir Pavelić	4	0	8	12	3,0	I
<b>Module 8</b>	DSMK 801	Immune response to viruses	Doc. dr. sc. Ivana Munitić	6	0	2	8	2,0	I
MODULE COORDINATOR: <b>Doc. dr. sc. Igor Jurak</b>	DSMK 802	Autophagy	Doc. dr. sc. Igor Jurak	6	0	2	8	2,0	I
	DSMK 803	High-throughput methods for analysing host-pathogen interactions	Doc. dr. sc. Berislav Lisnić	6	2	0	8	2,0	I
	DSMK 804	Crosstalk between hemostasis and immune defence mechanisms	Doc. dr. sc. Antonija Jurak Begonja	6	0	2	8	2,0	I
	DSMK 805	Host and pathogen adaptation mechanisms	Doc. dr. sc. Igor Jurak	8	0	0	8	2,0	I
<b>Module 9</b>	DSM 201	Basics of molecular biology	Prof. dr. sc. Anđelka Radojčić Badovinac	16	0	4	20	5,5	I
MODULE COORDINATOR: <b>Prof. dr. sc. Anđelka Radojčić Badovinac</b>	DSM 202	Signal transduction	Prof. dr. sc. Siniša Volarević	8	0	4	12	3,0	I
	DSM 203	Protein transport and degradation	Prof. dr. sc. Pero Lučin	8	0	0	8	2,0	I
<b>Module 10</b>	DSM 1401	Viral hemorrhagic fevers	Prof. dr. sc. Alemka Markotić	10	2	3	15	2,0	I
MODULE COORDINATOR: <b>Prof. dr. sc. Maja Abram</b>	DSM 1402	Biofilm	Prof. dr. sc. Brigita Tićac	8	0	4	12	3,0	I
	DSM 1403	Cellular microbiology	Prof. dr. sc. Maja Abram	8	0	4	12	3,0	I
	DSM 1404	Molecular mechanisms in pathogenesis of septic shock	Prof. dr. sc. Damir Muhvić	10	0	0	10	2,5	I
<b>Module 11</b>	DSM 1601	Biology of herpes viruses	Prof. dr. sc. Stipan Jonjić	5	0	7	12	3,0	I
MODULE COORDINATOR: <b>Prof. dr. sc. Stipan Jonjić</b>	DSM 1602	Immunity to viruses	Prof. dr. sc. Astrid Krmpotić	4	2	4	10	2,5	I
	DSM 1603	Intrauterine infections of the central nervous system	Prof. dr. sc. Jelena Tomac	4	0	4	8	2,0	I

P = lectures; V = laboratory; S = seminars; UK = total hours

STATUS: O = obligatory course; I = elective course