

**SYSTEMS BIOLOGY, master program**

ACADEMIC CALANDER for Spring, 2021  
2 semester

Tvirtinu/Approved.....  
VU MF Dekanas/Dean prof. A. Utkus  
2021 m. sausio mėn. 30 d.

Month	Day	Week day	Class time Starts	Class time ends	Course	Tuitor	Platform/Room	
February	4	IV	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	5	V	14	18	Science forum. Master thesis and Research proposal	O. Rukšėnas, A. Jakaitienė	Teams	
	8	I						
	9	II						
	10	III	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	11	IV	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	12	V	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	15	I	8	12	Mathematical modelling	J. Žilinskas		
	16	II			Day-off			
	17	III	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	18	IV	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	19	V	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	22	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
				16	18	Transcriptomics: intro	G. Alzbutas	Teams
	23	II	14	17	Transcriptomics: Single-cell transcriptomics methods	J. Nainys	Teams	
24	III	8	13	Mathematical modelling:diferencial equations	O. Štikonienė	Teams		
25	IV	8	12	Mathematical modelling:diferencial equations	O. Štikonienė	Teams		
26	V	8	12	Mathematical modelling:diferencial equations	O. Štikonienė	Teams		
March	1	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
	2	II	14	17	Transcriptomics: Single-cell transcriptomics methods	J. Nainys	Teams	
	3	III	8	12	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	4	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
	5	V	8	12	Mathematical modelling:diferencial equations	O. Štikonienė	Teams	
	8	I	8	12	Mathematical modelling	J. Žilinskas	Teams	

April	9	II	13	18	Transcriptomic data analysis with Python	R. Žilionis	Teams
	10	III	14	18	Transcriptomics data mining	E. Pranckeviciene	Teams
	11	IV			Day off		
	12	V	12	14	Transcriptomics data mining	E. Pranckeviciene	Teams
	15	I	8	12	Mathematical modelling	J. Žilinskas	Teams
	16	II	13	18	Transcriptomic data analysis with Python	R. Žilionis	Teams
	17	III	14	18	Transcriptomics data mining	E. Pranckeviciene	Teams
	18	IV	8	12	Mathematical modelling	J. Žilinskas	Teams
	19	V	8	12	Science forum: Mathematical modelling of DNA mechanics	D. Petkevičiūtė-Gerlach	Teams
	22	I	8	12	Mathematical modelling	J. Žilinskas	Teams
	23	II	13	17	Transcriptomic data analysis with Python	R. Žilionis	Teams
	24	III					
	25	IV	8	12	Mathematical modelling	J. Žilinskas	Teams
	26	V	8	12	Science forum: Mathematical modelling of DNA mechanics	D. Petkevičiūtė-Gerlach	Teams
	29	I					
	30	II					
	31	III			Easter (spring) holidays		
	1	IV					
	2	V					
	5	I			Easter		
	6	II	13	17	Transcriptomic data analysis with Python	R. Žilionis	Teams Teams
7	III	14	17	Transcriptomics: Research areas and objectives of transcriptomics	Ž. Kapustina		
8	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
9	V	10	17	Transcriptomics: Laboratory work I	Ž. Kapustina	Teams	
12	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
13	II						
14	III	14	17	Transcriptomics: Techniques and technologies in transcriptomics	Ž. Kapustina	Teams	
15	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
16	V	10	17	Transcriptomics: Laboratory work II	Ž. Kapustina	Teams	
19	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
20	II					Teams	
21	III	14	18	Transcriptomics: Sequencing one cell transcriptomics	Ž. Kapustina	Teams	

May	22	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
	23	V	10	17	Transcriptomics: Laboratory work III	Ž. Kapustina	Teams	
	26	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
					Transcriptomics: Lecture (Role gene expression studies) +		Teams	
	27	II	10	18	Practicals	G. Alzbutas		
	28	III	14	18	Transcriptomics: Seminar	Ž. Kapustina	Teams	
	29	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
	30	V	10	17	Transcriptomics: Laboratory work IV	Ž. Kapustina	Teams	
	3	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
					Transcriptomics: Lecture (Transcriptomics and metabolomics) +		Teams	
	4	II	10	18	Practicals	G. Alzbutas		
					Transcriptomics: Integrative analysis of transcriptomics and		Teams	
	5	III	10	18	proteomics data	G. Alzbutas		
	6	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
	7	V	10	14	Transcriptomics: Seminar	G. Alzbutas	Teams	
	10	I	8	12	Mathematical modelling	J. Žilinskas	Teams	
				13	18	Epigenomics	K. Daniūnaitė	Teams
	11	II	14	18	Science forum: Galaxy	E.Pranckeviciene	Teams	
	12	III	14	17	Science forum: Galaxy	E.Pranckeviciene	Teams	
	13	IV	8	12	Mathematical modelling	J. Žilinskas	Teams	
				13	18	Epigenomics	K. Daniūnaitė	Teams
	14	V	14	17	Science forum: Galaxy	E.Pranckeviciene	Teams	
	17	I	9	14	Epigenomics	K. Daniūnaitė	LSC/ Teams	
				16	18	Science forum: Image Analysis: Digital Image Fundamentals	A. Rasmusson	MIF3
	18	II	14	17	Science forum: Galaxy	E.Pranckeviciene	Teams	
19	III	14	17	Science forum: Galaxy	E.Pranckeviciene	Teams		
				Science forum: Image Analysis: Intensity Transformations + Color				
20	IV	15	18	Images	A. Rasmusson	MIF3		
21	V	9	17	Epigenomics	K. Daniūnaitė	LSC/ Teams		
24	I	9	14	Epigenomics	K. Daniūnaitė	LSC/ Teams		
			16	18	Science forum: Image Analysis: Filtering in image space	A. Rasmusson	MIF3	
25	II							

June	26	III						
	27	IV	10	18	Epigenomics (lab. works)	K. Daniūnaitė	LSC	
				15	18	Science forum: Image Analysis: Filtering in frequency space	A. Rasmusson	MIF3
	28	V	9	15	Epigenomics	K. Daniūnaitė	LSC/ Teams	
	31	I	16	18	Segmentation	A. Rasmusson	MIF3	
	1	II	10	18	Epigenomics (lab. works)	K. Daniūnaitė	LSC	
	2	III	10	18	Epigenomics	K. Daniūnaitė	LSC/ Teams	
	3	IV	15	18	Science forum: Image Analysis: Mathematical Morphology	A. Rasmusson	MIF3	
	4	V	9	15	Epigenomics	K. Daniūnaitė	LSC/ Teams	
					Science forum: Image Analysis: Component Labeling + Object			
	7	I	15	18	Recognition	A. Rasmusson	MIF3	
	8	II						
	9	III						
	10	IV						
	11	V						
	14	I						
	15	II						
	16	III						
	17	IV	14	18	Science forum. Research proposal presentation	O. Rukšėnas, A. Jakaitienė	Teams	
	18	V						
21	I							
22	II							
23	III							
24	IV			Day off				
25	V							

#### Abbreviations

LSC	Life sciences center, Saulėtekio str. 9
MF1	Faculty of Medicine, Čiurlionio str. 21/27
MF2	Faculty of Medicine, Santariškių str. 2
MIF1	Faculty of Mathematics and informatics, Naugarduko str. 24
MIF2	Faculty of Mathematics and informatics, Šaltinių str. 1A
MIF3	Faculty of Mathematics and informatics, Didlaukio str. 47
TFS	Thermo Fisher Scientific Baltics

NCI	National Cancer institute, Baublio str 3b
VPC	P.Baublio str. 5, Santariskiu
EVAF	Faculty of Economics and Business Administration, II building, Sauletekio str. 9
TBA	to be agreed