



Study plan of “Biosystems Machinery and Technologies” study program
(full time study program)

No.	Code	Course title	Volume, credit points	Volume, ECTS	Evaluation form	1. year		2. year		3. year	
						1. sem.	2. sem.	3. sem.	4. sem.	5. sem.	6. sem.
<i>A – Compulsory courses</i>			84	126							
1.	Mate3025	Engineering Mathematics I	2	3	E	2					
2.	Mate3026	Engineering Mathematics II	2	3	E		2				
3.	Mate3027	Engineering Mathematics III	2	3	E			2			
4.	Mate3028	Engineering Mathematics IV	2	3	E				2		
5.	Fizi3003	Physics for Engineers I	2	3	IA	2					
6.	Fizi3004	Physics for Engineers II	2	3	IA		2				
7.	Fizi3005	Physics for Engineers III	2	3	E			2			
8.	Ķīmi3019	Chemistry	2	3	E		2				
9.	MašZ3041	Engineering Graphics with AutoCad	4	6	IA	4					
10.	MašZ4067	Computer Aided Engineering Design with SolidWorks	4	6	IA				4		
11.	EeTk3001	Electrical Engineering and Electronics I	2	3	IA		2				
12.	EeTk3002	Electrical Engineering and Electronics II	2	3	E			2			
13.	EeTk4001	Embedded Programming for Engineers	4	6	IA			4			
14.	MašZ4063	Metrology and Tolerances	2	3	E			2			
15.	MašZ4068	Applied Mechanics I	4	6	IA				4		
16.	MašZ4069	Applied Mechanics II	4	6	E					4	
17.	Ener4040	Heat Engineering	4	6	IA			4			

18.	MašZ3039	Hydraulics and Pneumatics IB	2	3	I		2				
19.	MašZ3040	Hydraulics and Pneumatics IIB	2	3	E			2			
20.	MašZ4071	Mechatronics	4	6	E					4	
21.	MašZ3038	Materials and Materials Processing	4	6	E		4				
22.	MašZ4065	Manufacturing Engineering and Quality Management I	2	3	IA			2			
23.	MašZ4066	Manufacturing Engineering and Quality Management II	2	3	IA						2
24.	MašZ4072	Research Methodology in Biosystems Machinery I	2	3	IA	2					
25.	MašZ4073	Research Methodology in Biosystems Machinery II	2	3	IA						2
26.	Citi4016	Labour and Civil Protection	2	3	E	2					
27.	VidZ3006	Ecology and Environmental Protection	2	3	IA		2				
28.	Valo3028	Latvian Language	4	6	IA	4					
29.	MašZ4074	Bachelor Thesis	10	15							10
B – Elective courses			28	42							
30.	VidE3001	Agricultural Technologies and Machinery I	2	3	IA	2					
31.	VidE3002	Agricultural Technologies and Machinery II	2	3	IA				2		
32.	MatZ3068	Wood Processing Technologies and Machinery	4	6	IA		4				
33.	TraZ4062	Vehicles Technologies and Mobile Robots	4	6	IA						4
34.	PārZ4063	Food Technologies and Equipment	4	6	E				4		
35.	EeTk4003	Industrial Automation	4	6	E				4		
36.	Ener4041	Renewable Energy and Energy Economy	4	6	E					4	

37.	VadZ4086	Entrepreneurship for engineers	2	3	IA						2
38.	Psih3006	Engineering Psychology	2	3	E	2					
39.	MašZ4070	Modeling of Dynamic Systems	4	6	E				4		
C – Elective courses			8	12							
40.	LauZ4279	Introduction in Crop Production	2	3	IA					2	
41.	LauZ4280	Integrated and Biological Crop Production	2	3	IA					2	
42.	LauZ4277	Integrated and Biological Horticulture	2	3	IA					2	
43.	LauZ4278	Introduction in Animal Husbandry	2	3	IA					2	
44.	LauZ3135	Biological Livestock Husbandry	2	3	IA					2	
45.	VidZ4017	Waste Management	2	3	E					2	
46.	EeTk4002	Design of Microcontroller Systems	2	3	I					2	
47.	MašZ4064	Technology in Machine Building	4	6	IA					4	
Total			120	180							

Evolution form:

I – Theoretical test (successful / unsuccessful), IA – Theoretical test with Mark-up, E – Exam, KD – Course Work, CP – Course Project.