

RIGA TECHNICAL UNIVERSITY

Faculty of Transport and Mechanical Engineering

Foreign Students Department

STUDY PROGRAM

(international students)

Profile:	Engineering Technology, Mechanics and Mechanical Engineering
Study programme:	Bachelor
Duration of studies	3 years
Number of credits:	120 Credit Points (CP) or 180 ECTS
Previous education:	General or Professional Secondary Education
Degree:	Bachelor of Engineering Sciences in Mechanical Engineering

RTU program code AMBM0

A. COMPULSORY COURSES

86 CP

1. DMF101	Mathematics	9 CP
2. MFB101	Physics	6 CP
3. MMP169	Mechanics	2 CP
4. EEE209	Electrical Engineering and Electronics (Part 1)	2 CP
5. ҚVҚ109	General Chemistry	2 CP
6. MAT104	Structures and Properties of Engineering Materials	2 CP
7. BTG131	Descriptive Geometry and Engineering Graphics	2 CP
8. MMP101	Computer Science (basic course)	3 CP
9. IET105	Economics	3 CP
10. IUV101	Fundamentals of Law	2 CP
11. ICA301	Civil Defense	1 CP
12. HFA101	Sport Activity	0.0
13. DIM208	Supplementary Mathematics (for mechanical engineering)	2 CP
14. DMS212	Probability Theory and Mathematical Statistics	2 CP
15. MAB114	Introduction to Study Field	1 CP
16. MTM201	Theoretical Mechanics (for mechanical engineering)	5 CP
17. MMP219	Strength of Materials (for mechanical engineering)	5 CP
18. MMM201	Material Science	2 CP
19. MSE201	Heat Study	2 CP
20. MKI290	Machine Component Design	3 CP
21. MTH206	Engineering Measurements and Experimentation	2 CP
22. MMI101	Fluid Mechanics	2 CP
23. MTM119	Computer Graphics (Advanced course for Mechanical Engineering)	3 CP
24. MTM341	Numerical Analysis in Engineering Mechanics	2 CP
25. MTM205	Engineer Mechanics Problems	3 CP
26. MSE305	Hydro- and Gas Dynamics	3 CP
27. MSE304	Technical Thermodynamics and Heat Exchange	3 CP
28. MTH302	Methodology and Technique of Design Works	3 CP
29. MTH301	Machine Dynamics and Strength	3 CP
30. MRA320	Methods and Technology of Process Control	3 CP
31. MRA353	Electro, Pneumo and Hydro Automatics	3 CP

B. LIMITED CHOICE

20 CP

B.1.	Specialized courses	13 CP	
1.1. MMP302	Mechanics of Deformable Solid Bodies		3 CP
1.2. MTH304	Computer Aided Analysis of Mechanical Systems of Machines (basic course)		3 CP
1.3. RRI311	Medicine Electronics		2 CP
1.4. MMK370	Physical Foundations of Electronics		3 CP
1.5. MMK233	Physical Materials Science		2 CP
1.6. MEE214	Introduction to Medical Engineering		3 CP
1.7. MSE322	Fuel Utilization Technology and Boiler Equipment		2 CP
1.8. MTH303	Automatization of Calculation of Construction Durability (basic course)		3 CP
1.9. MEE332	Medical Physics		3 CP
1.10. MEE311	Methods for Medical Equipment Manufacturing		2 CP
1.11. MTM326	Mechanical Vibration and Acoustics		3 CP
1.12. MMK435	Equipment of Micro Technology		2 CP
1.13. MMK371	Micro and Nanotechnologies		3 CP
1.14. MMP215	Nonlinear Dynamics. Introduction		2 CP
1.15. MRA322	Electronic Equipment of Production Automation		3 CP
1.16. MRA312	Basics of Production Automation		3 CP
1.17. MSE317	Industrial Furnaces		2 CP
1.18. MSE320	Heat Utilizing Equipment		2 CP
1.19. MSE387	Heat Energy Supply		2 CP
1.20. MSE323	Thermotechnical Measurements and Fundamentals of Automation		2 CP
1.21. MSE386	Thermal Electric Power Plants		2 CP
1.22. MSE316	Thermal Machines		2 CP
1.23. EEE101	Electricity and Magnetism		2 CP
1.24. MAB215	General Metrology		3 CP
1.25. MAB205	Basics of Production Engineering		2 CP
1.26. MMP343	Mechanics of Composite and Elastic Materials		2 CP
1.27. MEE331	Methods of Solids Analysis		3 CP
B.2.	Humanities and social sciences	4 CP	
2.1. HSP377	General Sociology		2 CP
2.2. HSP375	Sociology of Management		2 CP
2.3. HSP376	Sociology of Personalities and Small Groups		2 CP
2.4. HSP378	Politology		2 CP
2.5. HSP379	Political System of Latvia		2 CP
2.6. HFL337	History and Culture of Latvia		2 CP
2.7. HFL336	Basic Ethics		2 CP
2.8. HFL330	Business Etiquette		2 CP
2.9. HSP489	Organizational Psychology		2 CP
B.6.	Languages	3 CP	
6.1. VIL168	Latvian Language		3 CP
C.	FREE CHOICE COURSES	4 CP	
E.	FINAL EXAMINATION	10 CP	
1. MTM001	Bachelor Thesis		10 CP
2. MSE001	Bachelor Thesis		10 CP
	TOTAL:	120 CP	