

RIGA TECHNICAL UNIVERSITY

Faculty of Transport and Mechanical Engineering

Aviation Institute

Foreign Students Department

STUDY PROGRAM (international students)

Profile:	Aviation Transport
Study programme:	Bachelor
Duration of studies	4.0 years
Number of credits:	161 Credit Point (CP)
Previous education:	Secondary education
Degree:	Bachelor of Engineering Sciences in Aviation Transport
Qualification	Aircrafts System Technical Maintenance or Aircrafts Avionic System Technical Maintenance

RTU program code AMCA0

A.	COMPULSORY COURSES	75 CP
1. DMF101	Mathematics	9 CP
2. IET103	Economics	2 CP
3. HPS120	Basics of Communication	2 CP
4. TAE107	Introduction to Aviation Branch	2 CP
5. HVD101	The English Language	2 CP
6. HVD230	The English Language	1 CP
7. TAK205	Supplementary Mathematics (Aviation Transport)	2 CP
8. DMS212	Theory of Probability and Mathematical Statistics	2 CP
9. MFB101	Physics	6 CP
10. MMP101	Computer Science (basic course)	3 CP
11. BTG131	Descriptive Geometry and Engineering Drawing	2 CP
12. TAA206	Fundamentals of Electronic Engineering	2 CP
13. TAA104	Fundamentals of Electrical Engineering	4 CP
14. TAS207	Materials and Hardware	4 CP
15. TAA103	Digital Techniques Electronic Instrument Systems	3 CP
16. TAE304	Aviation Legislation	2 CP
17. TAE203	Organization and Ensuring of Aircraft Operation	2 CP
18. TAE315	A Human Factor	2 CP
19. TAK230	Aviation Technical English	2 CP
20. VIL168	Latvian Language	2 CP
21. IDA117	Basics of Occupational Safety	1 CP
22. TAE518	Ergonomics and Work Safety in Air Transport	2 CP
23. TAE314	Safety of Aircraft Flights	2 CP
24. MAB215	General Metrology	3 CP
25. MTM202	Theoretical Mechanics	3 CP
26. MMP107	Strength of Materials	3 CP
27. TAS209	Mechanics of Airframes (Study Project)	2 CP

28. TAK433	Aircraft and Engine Structure and Strength (Study Project)	2 CP
29. TAE443	Aircraft and Power Plant Maintenance (Study Project)	2 CP
30. TAS215	Technical Mechanics	4 CP
31. TAA437	Measurements in Avionics Devices and Systems	3 CP
32. TAA216	Circuits and the Signals of the Devices of Avionics	2 CP
33. TAA215	Digital Techniques Electronic Instrument Systems (Study Project)	2 CP
34. TAA258	Aircraft Electrical and Power Supply Systems (Study Project)	2 CP
35. TAA260	The Technical Maintenance of the Aircraft Electrical Devices (Study Project)	2 CP
B.	LIMITED CHOICE	42 CP
1.	Specialized courses	40 CP
1.1. TAS100	Fundamentals of Aerodynamics	2 CP
1.2. TAS219	Aerohydrodynamics	3 CP
1.3. TAE307	Theory of Aircraft Engines	3 CP
1.4. TAE306	Structure and Strength of Aviation Gas Turbine Engines	4 CP
1.5. TAS212	Mechanics of Airframes	4 CP
1.6. TAE515	Engineering Diagnostic of an Aircraft	3 CP
1.7. TAS308	Fundamentals of Aircraft Manufacturing Technology	3 CP
1.8. TAS304	Construction Mechanics	3 CP
1.9. TAD521	Civil Aviation Engines	3 CP
1.10. TAK502	Aircraft of Civil Aviation	3 CP
1.11. TAL425	Aerodynamics of Aircrafts	2 CP
1.12. TAA515	Aircraft Aviation and Radio Electronic Equipment	3 CP
1.13. TAK402	Aircraft Strength	4 CP
1.14. TAE211	Fluid and Gas Systems of Aircraft	2 CP
1.15. TAE431	Technical Operation of Aircraft and Engines	3 CP
1.16. TAK302	Vehicle Loading, Safe - Life and Inspection	2 CP
1.17. TAK526	Structure Peculiarities of Modern Aircraft	2 CP
1.18. TAE209	A Propeller	2 CP
1.19. TAD325	Heat Technics and Thermodynamics	2 CP
1.20. TAD212	Structure of a Piston Engine	3 CP
1.21. TAK201	Design of Special Vehicles of Aviation	2 CP
1.22. TAK423	Transmission of a ground Vehicle	3 CP
1.23. TAD311	Fundamentals of Automatics	2 CP
1.24. TAK203	Helicopter Systems	3 CP
1.25. TAS105	Helicopter Aerodynamics	2 CP
1.26. TAK103	Helicopter Structure	5 CP
1.27. TAK431	Light Aircraft Conceptual Design	2 CP
1.28. TAK430	Light Aircraft Structure Strength Analysis	2 CP
1.29. TAS412	Experimental Aerodynamics and Aerodynamic Calculations	2 CP
1.30. TAS218	Certification and Standards on Aviation Transport	2 CP
1.31. TAK432	Aircraft Conceptual Design	2 CP
1.32. TAK305	Aircraft Airframe and Systems	2 CP
1.33. TAS211	Computer Methods of Aerodynamic and Strength Calculations	2 CP
1.34. TAS220	Construction Units and Details Designing	2 CP

1.35. TAS309	Aircraft Propulsion System and System Design	2 CP
1.36. TAS310	Aircraft Testing	2 CP
1.37. TAS313	Aeroelasticity	2 CP
1.38. TAA415	Antennae and Propagation of Radio Waves	3 CP
1.39. TAA209	Aviation electrical machines and devices	3 CP
1.40. TAA701	Basics of Aviation Devices and Systems	2 CP
1.41. TAA408	Aviation Communication Systems and Nets	2 CP
1.42. TAA306	Devices and Systems of Airborne Computer	2 CP
1.43. TAK204	Human Life and Safety Providing Systems	2 CP
1.44. TAD213	Propulsion	2 CP
1.45. TAA207	Special Chapters of Electronic Engineering	2 CP
1.46. TAA208	Special Parts of Electrical Engineering	2 CP
1.47. TAA231	Aircraft Automatic Control Systems	3 CP
1.48. TAA211	Aircraft Electrical Systems	3 CP
1.49. TAA212	Electrical Power Supply Systems of Aircraft	2 CP
1.50. TAA409	Electric Drive of Aircraft Mechanisms	2 CP
1.51. TAA307	Maintenance of Aircraft Electronic Systems	3 CP
1.52. TAA419	The Aircraft Navigation and Pilotage Complex	3 CP
1.53. TAA501	The Aircraft Radio Location Systems	3 CP
1.54. TAA414	Aircraft Radio Navigation Systems	3 CP
1.55. TAA413	Devices and Systems of Control of Aircraft Power Plant	2 CP
1.56. TAA416	Radio Transmitters and Radio Receivers	4 CP
1.57. TAA107	Fundamentals of Communication Systems	2 CP
1.58. TAK222	Aircraft Aerodynamics, Structures and Systems	3 CP
1.59. TAA238	Functional Units of Aviation Electronics	2 CP
1.60. TAA308	Means of Aviation Telecommunication	3 CP
1.61. TAA254	Airfield Power Supply Devices and Systems	3 CP
1.62. TAA256	Airfield Lighting Systems	2 CP
1.63. TAA304	Air Traffic Control Radio Systems	3 CP
2.	Humanities/social and management courses	2 CP
2.1. HSP378	Politology	2 CP
2.2. ZSP379	Latvia's Political System	2 CP
2.3. HFL337	History and Culture of Latvia	2 CP
2.4. IUV101	Fundamentals of Law	2 CP
2.5. TAE221	Economics of Aviation Transport	2 CP
2.6. HFL336	Basic Ethics	2 CP
2.7. HFL330	Business Etiquette	2 CP
2.8. HSP489	Organizational Psychology	2 CP
C.	FREE CHOICE COURSES	6CP
D.	PRACTICE	26 CP
E.	FINAL EXAMINATION	12 CP
1. TAE012	Bachelor Thesis Including Project	12 CP
2. TAK012	Bachelor Thesis Including Project	12 CP
3. TAS012	Bachelor Thesis Including Project	12 CP
TOTAL:		161 CP

Department of Foreign Students
Director

I. Tipāns