

There is a possibility of subject/programme changes! In case of any questions about the subjects, please contact our coordinator (Erasmus@tsi.lv)

Autumn Semester (September – January) (2024-2025)

17.06.2024.

Bachelor level

Bachelor of Engineering Science in Aviation Engineering

Code	Name of Course	ETCS
1 year		
B-103-04	Higher Mathematics	6
B-455-03	Physics	6
C-142-04	Labour Safety, Civil Defence and Environment Protection	3
P-003-05	Technical Drawing	6
B-254-05	Foreign Language I	3
B-457-03	Introduction to Speciality	3
B-460-03	Basics of aviation business	3
2 year		
B-009-02	Materials Engineering	6
B-214-05	Technical Mechanics	6
B-295-05	Aviation English	3
B-136-04	Electronics Fundamental	3
B-438-03	Aircraft Engine Design and Control Systems	9
P-013-02	Aerodynamics and Flight Dynamics	6
3 year		
B-445-03	Human Factors	3
B-442-03	Flight Management	3
B-307-03	Global Navigation Systems	3
P-020-02	Aircraft Liquid-Gas Systems	6
P-233-02	Provision of the Technical Maintenance of Aircrafts	6
B-768-01	Non-destructive testing methods of aircraft structures	3
4 year		
B-433-03	Aircraft Maintenance Planning	6
B-447-03	Engineering Modelling and Simulation	6
B-449-03	Compliance Monitoring System	6
B-463-03	Reliability Engineering	6
B-432-03	Remotely Piloted Aircraft Systems	3

Bachelor of Engineering Sciences in Computer Engineering and Electronics

Code	Name of Course	ETCS
1 year		
B-009-03	Computer Systems Structure	6
B-103-06	Higher Mathematics	6
B-003-06	Programming	6
B-002-03	Physics	3
B-004-03	Introduction to Speciality	3

B-254-05	Foreign Language	3
C-142-04	Labour Safety, Civil Defence and Environment Protection	3
2 year		
B-005-04	Discrete Mathematics	6
B-023-03	Design of Digital Systems	6
B-735-01	Database Design Concepts	6
B-480-04	Computer Networks 1 (part 1)	6
B-764-01	Electronics and Microelectronics	6

Bachelor of Engineering Sciences in Robotics

Code	Name of Course	ETCS
P-004-05	Engineering and Computer Graphics	6
B-103-06	Higher Mathematics	6
B-003-06	Programming	6
B-002-03	Physics	3
B-401-03	Introduction to Robotics	3
B-254-05	Foreign Language	3
C-142-04	Labour Safety, Civil Defence and Environment Protection	3
2 year		
B-005-04	Discrete Mathematics	6
B-778-03	Metrology and the Fundamentals of Electrical Measurements	3
B-009-02	Materials Engineering	6
B-403-03	Electronic Devices in Robotics	6
B-404-03	Design Digital Circuits for Robotics	6
3 year		
B-214-05	Technical Mechanics	6
B-409-03	Power Electronics Devices	3
B-761-01	Theory of Automatic Control	6
B-408-03	Signal Processing Fundamentals	6
B-406-03	Robot Details and Mechanisms and Their Design	6
B-206-05	Project Management	3
4 year		
B-418-03	Local area and wireless networks	6
B-206-05	Project Management	3
B-420-03	Robotic device control. Course Project	3
B-560-03	Industrial Robots	6
B-039-03	Reliability Engineering	3
B-148-04	Business Communication in Professional Activities	3
B-743-01	Introduction to Scientific Research	3

Bachelor of Natural Sciences in Computer Science

Code	Name of Course	ETCS
1 year		
B-003-06	Programming	6

B-009-04	Computer Systems Structure	6
B-103-06	Higher Mathematics	6
B-733-01	Introduction to the speciality and digital skills	6
C-142-04	Labour Safety, Civil Defence and Environment Protection	3
B-254-05	Foreign Language	3
2 year		
B-005-04	Discrete Mathematics	6
B-006-04	Data Structures and Algorithms	6
B-735-01	Database Design Concepts	6
B-014-04	Object-Oriented Programming	6
B-177-04	Software Project Management	3
3 year		
B-738-01	Applied Numerical Methods	6
B-750-01	Software Engineering	6
B-751-01	Computer Networks	6
B-739-01	Data Science Fundamentals	6
B-740-01	Web Programming	6
4 year		
B-744-01	Cloud Computing & Internet of Things	6
B-148-04	Business Communication in the Professional Activities	3
B-177-04	Software Project Management	3
B-244-04	Functional Programming	3
B-748-01	Computer Graphics	6
B-306-04	Group project	3
B-743-01	Introduction to Scientific Research	3
B-742-01	Blockchain Technologies	6

Bachelor of Social Sciences in Management

Code	Name of Course	ECTS
1 year		
B-101-05	Microeconomics	6
B-248-04	Mathematics for Business	6
B-296-05	Introduction to Studies and Research	3
C-142-04	Labour Safety, Civil Defence and Environment Protection	3
B-058-05	Foreign Language	3
B-287-05	Business Psychology	6
B-492-03	Information Technologies 1	3
2 year		
B-110-05	Accounting	6
B-203-05	Human Resource Management	6
B-247-04	Statistics for Business and Finance	6
B-274-05	Business communications I	3
B-337-05	Operations Management	6
P-301-05	Fundamentals of Logistics	3
3 year		
B-111-05	Fundamentals of entrepreneurship	6
B-129-05	Insurance	3
B-250-05	English for Career Management	3

B-281-05	Digital Marketing	3
B-215-05	Risk management	6
B-689-01	Social Entrepreneurship	3
B-290-05	Sustainable economy	3

Bachelor in Transport and Business Logistics

Code	Name of Course	ECTS
1 year		
B-001-05	Higher Mathematics	6
B-101-05	Microeconomics	6
B-492-03	Information Technologies 1	3
C-142-04	Labour Safety, Civil Defence and Environment Protection	3
B-058-05	Foreign Language	3
B-287-05	Business Psychology	6
B-296-05	Introduction to Studies and Research	3
P-301-05	Fundamentals of Logistics	3
2 year		
B-006-05	Statistics	6
B-110-05	Accounting	6
B-111-05	Fundamentals of entrepreneurship	6
B-203-05	Human Resource Management	6
B-246-05	Professional English for Logistics	3
3 year		
B-129-05	Insurance	3
B-215-05	Risk management	6
B-314-05	Optimization Theories and Methods	3
P-216-05	Providers of Logistical Services	3
P-315-05	Purchases and Reserves Logistics	3
P-304-05	Cargo Studies	6
P-344-05	Procurement and resource management	6
4 year		
P-204-05	Logistics in International Business	6
P-342-05	Passenger Transportation	3
P-302-05	Transport Systems	3
B-310-05	International Commercial Law and Transport Law	3

Master level

Master of Social Sciences in Management

Code	Name of Course	ECTS
1 year		
M-355-05	Financial Management	6
M-339-05	Methods of Data Analysis and Business Forecasting	6
M-066-04	Information Systems and Technologies	6
M-358-05	Human Resources Management and Leadership	6
M-359-05	The Global Economy and International Business Environment	6
M-602-05	Academic English	3
2 year		
M-369-05	Study Project	3

C-142-04	Labour Safety, Civil Defence and Environment Protection	3
M-372-05	Change Management	6
M-311-05	Project Management and Financing	6
M-361-05	Corporate Governance and Social Responsibility	3
M-373-05	SMART administration	3

Master of Transport and Logistic

Code	Name of Course	ECTS
1 year		
M-300-05	Transport Policy of the EU and LR	3
M-302-05	Geography of Transport Systems	3
M-330-05	Transport Economics	6
M-339-05	Methods of Data Analysis and Business Forecasting	6
M-626-01	Digitalization in Transportation and Logistics	6
C-142-04	Labour Safety, Civil Defence and Environment Protection	3

Master of Engineering Science in Management of Information Systems

Code	Name of Course	ECTS
1 year		
M-066-04	Information Systems and Technologies	6
M-226-04	Modern Database Technologies	9
M-232-04	Business Intelligence and Data Visualisation	6
M-355-05	Financial Management	6

2 year		
M-400-01	Artificial Intelligence	6
M-343-01	Information Technology Audit	3
M-348-01	Information Systems Analysis & Design	6
M-245-04	Quality Models of Software and Information Systems (QM SIS)	6
M-346-01	Business Process Modelling and Analysis	6

Master of Engineering Sciences in Computer Engineering and Electronics

Code	Name of Course	ECTS
2 year		
M-212-04	Computer Vision and Image Processing	6
M-123-03	Microwave Circuits Design	6
M-400-01	Artificial Intelligence	6