COURSE LIST

HOST UNIVERSITY	**Rīgas Tehniskā universitāte**
SEMESTER IN THE DEGREE PROGRAMME	**All**
CLUSTER PROGRAMME	**All**
SEASON	**All**
TEACHING LANGUAGE	**All**
DOCUMENT CREATED ON	**19/11/2026**

262 course(s) · 1 346.0 ECTS in total

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
DE0297	Adaptive Data Processing Systems	English	Spring	3.0
BM0994	Advanced Mechatronic Systems for Human-Centred Engineering (TEDS semester module III)	—	Spring	3.0
DE0915	Algorithmization and Programming of Solutions	English	Fall	8.0
DE0275	Algorithms and Methods of Programming	English	Spring	3.0
DIP108	Algoritmization practice	—	Fall, Spring	3.0
MTM516	Analysis and Optimization of Machines, Structures and Technological Processes	English	Fall	4.0
DE0276	Applied System Software	English	Spring	3.0
AAR303	Architectural Design III	—	Fall, Spring	12.0
AAP702	Architectural Design IV	—	Fall	4.5
MTH303	Automatization of calculation of construction durability	English	Spring	4.0
RDE001	Bachelor Thesis	English, Latviešu	Fall, Spring	15.0
DE0294	Bachelor Thesis 1	English	Fall, Spring	3.0
DE0294-2	Bachelor Thesis 2	English	Fall, Spring	12.0
AAP001	Bachelor Thesis A	—	Fall	15.0
DIM703	Basic chapters of elementary mathematics	English	Fall	3.0
BRC202	Basic Course of Architecture	English	Fall	5.0
BRC303	Basic Course of Geotechnics	English	Fall	6.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
HPS120	Basics of Communication	English, Latviešu	Fall, Spring	3.0
DE0034	Basics of Computer Control	English	Fall	4.0
RDE718	Basics of Integrated Photonics	English, Latviešu	Fall	6.0
IDA700	Basics of Occupational Safety	English	Fall, Spring	2.0
MRA312	Basics of Production Automation	English	Spring	4.0
MRA253	Basics of Technical Design	English	Fall	3.0
MAB267	Basis of Automated Designing - SolidWorks	English	Spring	3.0
MEE412	Biomaterials	—	Spring	3.0
EVA709	Biotechnologies	English	Fall	6.0
BMT713	Building Materials, Properties and Application	English	Fall	9.0
BBK308	Building Structures	English	Fall, Spring	9.0
IVZ883	Business Intelligence Technologies	English	Spring	3.0
ICA301	Civil defence	English, Latviešu	Fall, Spring	2.0
IV0759	Civil Protection	—	Fall, Spring	2.0
BM0979	Cloud-Based CAD Collaboration with SolidWorks (TEDS semester module II)	English	Spring	5.0
MTH503	Computer Aided Analysis of Mechanical Systems of Machines	English	Fall	6.0
BTG731	Computer Aided Architectural Design	—	Fall, Spring	3.0
MAB269	Computer Design in Mechanical and Instrumental Engeneering	English	Fall	4.5
MTM119	Computer Graphics (Advanced course for Mechanical Engineers)	—	Spring	5.0
TRL534	Computer network monitoring, diagnostics and maintenance	English, Latviešu	Spring	4.0
TRL244	Computer Networks	English, Latviešu	Spring	3.0
DE0016	Computer Organization and Assembly Language	English	Fall	4.0
RTR105	Computer Studies (basic course)	English, Latviešu	Fall	5.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
TRT441	Computer Technologies in Research	English, Latviešu	Fall, Spring	4.0
RAE202	Computer technologies in telecommunications	English, Latviešu	Fall	5.0
RAE473	Computer Technologies in Telecommunications (master)	English, Latviešu	Spring	4.0
MTH304	Computer-Aided Analysis of Mechanical Systems of Machines	—	—	5.0
IBO703	Computer-based Project Management	English	Spring	6.0
RTR207	Computerization of Mathematical Tasks in Electrical Engineering	English, Latviešu	Spring	4.0
BBR750	Construction Methods and Technology	English	Fall, Spring	9.0
MTH306	Construction of Machines and Mechanisms	English, Latviešu	Spring	4.0
EEI706	Control fundamentals of critical infrastructures	English	Fall	6.0
TRL342	Cryptography and data security technologies	English	Fall	6.0
DMI746	Cybersecurity solutions in high performance computing environment	English	Fall	6.0
DE0292	Data Models in Database Systems	English	Fall	3.0
DE0283	Database Management Systems	English	Spring	6.0
BTG131	Descriptive Geometry and Engineering Graphics	English, Latviešu	Fall	3.0
RDE410	Design and maintenance of telecommunications networks	English, Latviešu	Fall	6.0
BTG712	Designing with 3D CAD and BIM	English	Fall, Spring	6.0
BMT402	Diagnostics of Buildings	English	Fall, Spring	6.0
BM0993	Digital Collaboration in CAD (TEDS semester module II)	—	Spring	5.0
RAE362	Digital devices and systems	English, Latviešu	Spring	4.0
RAE701	Digital devices of telecommunications systems	English, Latviešu	Spring	6.0
RAE261	Digital Electronics and Computer Architecture	English, Latviešu	Fall	5.0
RDE713	Digital optical communication systems	English, Latviešu	Spring	6.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
RAE306	Digital switching systems	Latviešu	Fall	6.0
RAE472	Digital Switching Systems (master)	English, Latviešu	Fall	4.0
DE0132	Discrete Mathematics	—	Spring	5.0
DE0133	Discrete Structures of Computer Science	English	Fall	5.0
RAE359	Distributed systems in telecommunications	Latviešu	Spring	4.0
ATM301	Drawing III	—	Fall, Spring	6.0
MTH502	Dynamics and Control of Machines	English	Fall	6.0
VAS011	Ecodesign and Life Cycle Analysis	English	Spring	9.0
EEE226	Electrical Engineering and Electronics	English, Latviešu	Fall	3.0
EEM731	Electrical Systems in Architecture	Latviešu	Fall, Spring	3.0
RRE102	Electricity and Magnetism	English, Latviešu	Spring	3.0
MRA353	Electro, Pneumo and Hydro automatics	—	Fall	4.0
REA204	Electron Devices	English, Latviešu	Fall	5.0
MRA322	Electronic Equipment of Production Automation	English	Fall	4.0
RDE709	Electronics and telecommunications measurements	English, Latviešu	Spring	6.0
MAB217	Elements of Machine and Apparatus	English	Fall	3.0
MAB218	Elements of Machine and Apparatus (study project)	English	Fall	3.0
RAE541	Encoding and Encryption	English, Latviešu	Fall	6.0
EVA708	Energy Efficiency and Energy Audit of Buildings	English	Spring	6.0
MAT372	Engineering Machinery, Equipment and Tool	English	Fall	6.0
MTH206	Engineering Measurements and Experiments	English, Latviešu	Fall	3.0
MTM205	Engineering Mechanics Problems	—	Spring	4.0
DST717	Engineering systems security	English	Fall	6.0
IVZ845	Enterprise Management	English, Latviešu	Fall, Spring	6.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
DA0055	Environment and Climate Roadmap	English, Latviešu	Fall, Spring	2.0
EAS722	Environmental policy and economics	English	Fall	7.5
HFL432	Ethics	English, Latviešu	Fall, Spring	3.0
MMP510	Experimental Mechanics and Technical Diagnostics	English	Fall	6.0
MTH413	Fatigue and Damages of Materials of Mechanical Engineering Constructions	English	Fall	4.0
RDE419	Fibre optic transmission system	English, Latviešu	Fall	8.0
MMP519	Finite and Boundary Element Methods	English	Fall, Spring	6.0
MMI101	Fluid Mechanics (Sem 3)	English, Latviešu	Fall, Spring	3.0
MMP535	Fracture Theory	—	Fall, Spring	4.0
RTR806	Fundamentals of AC Circuits	English, Latviešu	Spring	5.0
DE0144	Fundamentals of Artificial Intelligence	English	Spring	5.0
TRT215	Fundamentals of Circuit Theory	English, Latviešu	Spring	5.0
MMP101	Fundamentals of Computer Science	English	Fall	5.0
DE0136	Fundamentals of Computer Simulation and Modelling	English	Fall	5.0
DE0299	Fundamentals of Computer Systems Design	English	Spring	3.0
RTR805	Fundamentals of DC Circuits	English, Latviešu	Spring	3.0
MAB370	Fundamentals of Design	English	Fall	4.5
IUV101	Fundamentals of Law	English	Fall, Spring	3.0
IAS727	Fundamentals of Logistics	English	Spring	3.0
REA103	Fundamentals of Materials Science	English, Latviešu	Fall	3.0
BBM301	Fundamentals of Mechanics	—	Fall, Spring	6.0
HSP377	General Sociology	English, Latviešu	Fall, Spring	3.0
IAS706	Global Markets and Supply Chains	English	Spring	3.0

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MSE201	Heat Study	English	Fall	4.0
BSG361	Heat Transfer in Building Constructions	English	Fall	6.0
AAR201	History of Architecture I	—	Fall, Spring	9.0
AAR302	History of Architecture II	—	Fall, Spring	9.0
RDE717	Hybrid Optical Fibre-Wireless Communication and Networking	English, Latviešu	Fall	6.0
MSE305	Hydro- and Gas Dynamics	English	Fall	4.0
MTM406	In Biological Systems Rooted Robots	English	Spring	4.0
SDD701	Innovative product development and entrepreneurship	English, Latviešu	Fall, Spring	6.0
SD0003	Innovative product development and entrepreneurship (Computer science)	—	Spring	6.0
VAS012	Intersectoral and Interdisciplinary Research Methods	English	Spring	6.0
BTG704	Introduction to Civil Engineering Drawing and Design	English	Spring	6.0
DE0010	Introduction to Cmputer Architecture	—	Fall	4.0
RTR107	Introduction to computer and algorithms	English, Latviešu	Spring	3.0
DMI745	Introduction to Cybersecurity	English	Fall	4.0
RDE710	Introduction to Electronics and Telecommunications Branch	English, Latviešu	Fall	6.0
DE0332	Introduction to Image Processing	English	Spring	3.0
BM0978	Introduction to Mechanical Engineering Design (TEDS semester module I)	English	Spring	5.0
MTM702	Introduction to Mechanics of Textile Materials	English	Spring	3.0
DE0012	Introduction to Operations Research	English	Spring	4.0
DE0027	Introduction to Study Field	English	Fall	1.0
MTM117	Introduction to the Field of Study	English	Fall	1.0
BM0647	Investigation and Testing of Structural Elements of Buildings	English, Latviešu	Fall	3.0
VIL168	Latvian for Foreign Students	English	Fall	4.0
VSL711	Latvian for Foreign Students (Computer Science)	—	Fall, Spring	2.0

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MAT123	LEAN Manufacturing Technologies	English	Spring	3.0
MTH507	Lifting and Transporting Machines	English	Fall	6.0
MTH301	Machine Dynamics and Strength	English	Fall	3.0
MAT377	Machining Theory and Processes	English	Fall	4.5
RAE713	Management of Telecommunications Projects	English, Latviešu	Spring	6.0
EAS002	Master Thesis	English	Fall, Spring	30.0
RDE002	Master Thesis (TEM)	English, Latviešu	Fall, Spring	30.0
MMM201	Material Science	English	Fall	3.0
DMF101	Mathematics	English, Latviešu	Fall, Spring	13.0
DE0028	Mathematics 1	English	Fall, Spring	6.0
DE0028-2	Mathematics 2	—	Fall, Spring	7.0
BM0996	Mechanical Design Project (TEDS semester Master module V)	—	Spring	15.0
BM0977	Mechanical Design Project (TEDS semester module V)	English	Spring	15.0
MTH412	Mechanical Engineering Constructions	English	Fall	4.0
MTM326	Mechanical Vibration and Acoustics	English, Latviešu	Spring	4.0
MMP169	Mechanics	English, Latviešu	Spring	4.0
MMP343	Mechanics of Composite and Elastic Materials	English	Fall, Spring	3.0
MMP532	Mechanics of Composite Materials	English	Fall	6.0
MMP302	Mechanics of Deformable Firm Bodies	English	Fall	4.0
BM0980	Mechatronics for Human-Centred Devices (TEDS semester module III)	English	Spring	3.0
RDE715	Metaphotonics in Telecommunications	English, Latviešu	Spring	6.0
MTH302	Methodology and Technique of Design	English, Latviešu	Spring	4.0
MRA320	Methods and Technology of Process Control	English	Spring	4.0
DE0301	Methods of Systems Theory	English	Fall	3.0

CODE	COURSE (LINK TO ITS DESCRIPTION)	TEACHING LANGUAGES	SEASONS	ECTS
DE0222	Microwave Devices & Equipment	English, Latviešu	Fall	5.0
—	Microwave Devices and Equipment	—	Fall	4.5
RDE716	Microwave Photonics Devices and Systems	English, Latviešu	Spring	9.0
RDE703	Microwave telecommunications systems	English, Latviešu	Fall	7.0
RAE556	Mobile Communications Systems	English, Latviešu	Spring	5.0
RDE711	Mobile network architecture	English, Latviešu	Spring	6.0
TRL415	Network Databases and Databanks	English, Latviešu	Fall	5.0
TRL326	Network Reliability	English, Latviešu	Spring	4.0
MMP215	Nonlinear Dynamics: Introduction	English	Fall	3.0
MMP533	Nonlinear Mechanics of Materials	English	Fall, Spring	4.0
MTH504	Numerical Analysis for Research of Dynamics of Machines	English	Fall, Spring	6.0
MTM341	Numerical Analysis in Engineering Mechanics	English	Fall	3.0
DE0278	Numerical Methods	English	Fall	3.0
DE0008	Object-Oriented Programming	English	Spring	4.0
DE0013	Operating Systems	English	Fall	4.0
MTM408	Optimization Methods	English	Fall	6.0
IAS734	Organisation of International Purchasing Process	English	Spring	6.0
AAP306	Outdoor Furniture	—	Fall	3.0
ATM204	Painting	—	Fall, Spring	6.0
HSP446	Pedagogy	English, Latviešu	Fall, Spring	3.0
MFA101	Physics	English, Latviešu	Spring	9.0
DA0101	Physics 1	—	Fall, Spring	5.0
DA0101-2	Physics 2	English	Fall, Spring	4.0
RDE417	Physics of Optical Information Processing	English, Latviešu	Fall	6.0

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MFB101	Physics_1	English	Fall, Spring	9.0
HSP379	Political System of Latvia	English, Latviešu	Fall, Spring	3.0
DE0288	Politology	—	Fall, Spring	3.0
BĢE725	Practical Geodesy	English	Fall, Spring	9.0
HFL433	Presentation Skills	English, Latviešu	Fall, Spring	3.0
BM0992	Principles of Mechanical Engineering Design (TEDS Semester Module I)	English	Spring	5.0
DMS212	Probability theory and mathematical statistic	English, Latviešu	Fall, Spring	3.0
DE0916	Probability, Random Processes and Statistics for Engineers	—	Spring	6.0
DE0917	Programming Languages	English	Fall	5.0
DPI401	Programming of Processes	English	Spring	6.0
HSP484	Psychology	English, Latviešu	Fall, Spring	3.0
IKI708	Quality Technologies and Management	English	Spring	6.0
RDE714	Quantum Communication	English, Latviešu	Spring	9.0
TRT313	Real-Time Communication Systems (study project)	Latviešu	Fall	3.0
BMT403	Reinforcement of Structures	English	Spring	3.0
DOP715	Reliability of information systems	English	Fall	4.0
EAS723	Renewable energy sources	English	Fall	6.0
RDE425	Research Seminars	English, Latviešu	Fall, Spring	6.0
RDE705	Research seminars in the field of telecommunications	English, Latviešu	Fall, Spring	6.0
MMP219	Resistance of Materials (for mechanical engineering). Part 2.	English, Latviešu	Spring	7.0
BTB729	Roads and Bridges	English	Fall, Spring	6.0
MTM208	Robot Kinematics	English	Spring	4.0
MTH505	Rotary Machines	English	Spring	6.0

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DMI748	Secure e-commerce technologies	English	Fall	3.0
TRT203	Semiconductor devices	English, Latviešu	Fall	4.0
MTM411	Shock Theory	English	Fall	6.0
RAE553	Signalling systems and protocols	English, Latviešu	Spring	4.0
AAP303	Site and Infrastructure Development	—	Fall, Spring	3.0
EAS704	Socio-Economic Aspects of Energy Supply	English	Spring	6.0
HSP375	Sociology of Management	English, Latviešu	Fall, Spring	3.0
HSP376	Sociology of Personalities and Small Groups	English, Latviešu	Fall, Spring	3.0
DE0284	Software Engineering	English	Fall	3.0
DE0135	Software Evolution Technologies	English	Fall	5.0
DPI736	Software security	English	Fall	6.0
DE0290	Software testing technologies and principles	English	Fall	3.0
BBK458	Steel and Timber Structures	—	Fall, Spring	6.0
BBM717	Structural Analysis_in multiple parts	English	Fall, Spring	15.0
MAT104	Structures and properties of engineering materials	English	Spring	3.0
DIM208	Supplementary Mathematics (for mechanical engineering)	English	Fall	3.0
DIM205	Supplementary mathematics for electrical engineering	English, Latviešu	Fall	3.0
BM0995	Sustainability and Social Responsibility in Engineering Design (TEDS semester Master module IV)	—	Spring	2.0
BM0981	Sustainability and Social Responsibility in Engineering Design (TEDS semester module IV)	English	Spring	2.0
VAS010	Sustainable Industrial Processes and Technologies	English	Fall	6.0
DE0286	System Engineering	English	Fall	3.0
DE0285	Systems Analysis and Knowledge Acquisition	English	Fall	3.0
BBR752	Technical English for Civil Engineering	English	Spring	3.0

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MTM409	Technical System Vibration and Stability	English	Fall, Spring	6.0
MSE304	Technical Thermodynamics and Heat Exchange	English, Latviešu	Spring	4.0
BBR443	Technology of Building Repair Works	English	Fall	3.0
RAE348	Telecommunications and computer network	English, Latviešu	Spring	4.0
RAE475	Telecommunications and computer networks	English, Latviešu	Spring	8.0
RAE419	Telecommunications Marketing	English, Latviešu	Fall	3.0
RAE714	Telecommunications Network Management	English, Latviešu	Spring	9.0
RDE431	Telecommunications pricing policy	English, Latviešu	Fall	3.0
RAE411	Telecommunications Software	English, Latviešu	Fall	6.0
RDE708	Telecommunications Systems	English, Latviešu	Spring	9.0
RDE707	Telecommunications theory	English, Latviešu	Spring	9.0
RDE701	Telecommunications theory, special course	English, Latviešu	Spring	8.0
RAE700	Teletraffic theory	Latviešu	Fall	6.0
RAE555	Teletraffic Theory (master)	English, Latviešu	Fall	4.0
TRT273	The Basics of Control Theory	English, Latviešu	Spring	3.0
TRT461	The C Programming Language	English, Latviešu	Spring	3.0
BM0653	The Finite Element Method (General Course)	English, Latviešu	Fall	6.0
BKA306	The Finite Element Method (Introduction)	English	Spring	3.0
HVD108	The German Language	Latviešu, Deutsch	Fall, Spring	3.0
HVD226	The German Language-1	Latviešu, Deutsch	Fall, Spring	1.0
HFL337	The History of Latvian Culture	English	Fall, Spring	3.0

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DE0040	The Terminology Minimum in English	English, Latviešu	Fall, Spring	4.0
MTM201	Theoretical Mechanics (for mechanical engineers). Part 2	English, Latviešu	Fall	7.0
MSE541	Theory of Boundary Layer	English	Spring	4.0
MMP518	Theory of Elasticity,Viscoelasticity and Plasticity	English	Spring	4.0
MSE432	Thermodynamics and Gas Dynamics	English	Fall	4.0
RDE302	Transmission media	English, Latviešu	Spring	9.0
RDE706	Transmission systems	English, Latviešu	Spring	9.0
RDE432	Transmission systems, special course	English, Latviešu	Spring	6.0
HSP380	United Europe and Latvia	English, Latviešu	Fall, Spring	3.0
AAP305	Urban Design, basic principles	—	Fall, Spring	3.0
AAP708	Urban Livability	—	Fall	3.0
MTM514	Vehicle Mechanics	English	Spring	6.0
MMP539	Vibrotechnology and Vibromachines	English	Fall, Spring	6.0
BŪK325	Water Supply and Sewerage	English	Fall	3.0
	Total			**1 346.0**