

BSc in Engineering

180 ECTS programs, with an emphasis on preparation for graduate studies at MSc level

	Financial Engineering	Engineering Management	Biomedical Engineering	Mechatronics Engineering	Mechanical Engineering
1 st semester	T-101-STA1 Calculus I	T-101-STA1 Calculus I	T-101-STA1 Calculus I	T-101-STA1 Calculus I	T-101-STA1 Calculus I
	T-102-EDL1 Physics I	T-102-EDL1 Physics I	T-102-EDL1 Physics I	T-102-EDL1 Physics I	T-102-EDL1 Physics I
1 st semester	T-204-EFNA Chemistry	T-204-EFNA Chemistry	T-204-EFNA Chemistry	T-204-EFNA Chemistry	T-204-EFNA Chemistry
	AT FOR 1003 Programming in Matlab	AT FOR 1003 Programming in Matlab	AT FOR 1003 Programming in Matlab	AT FOR 1003 Programming in Matlab	AT FOR 1003 Programming in Matlab
2 nd semester	T-102-VERK Intro to Engineering Design / CAD	T-102-VERK Intro to Engineering Design / CAD	T-102-VERK Intro to Engineering Design / CAD	T-102-VERK Intro to Engineering Design / CAD	T-102-VERK Intro to Engineering Design / CAD
	T-201-STA2 Calculus II	T-201-STA2 Calculus II	T-201-STA2 Calculus II	T-201-STA2 Calculus II	T-201-STA2 Calculus II
2 nd semester	T-202-EDL2 Physics II	T-202-EDL2 Physics II	T-202-EDL2 Physics II	T-202-EDL2 Physics II	T-202-EDL2 Physics II
	T-211-LINA Linear Algebra	T-211-LINA Linear Algebra	T-211-LINA Linear Algebra	T-211-LINA Linear Algebra	T-211-LINA Linear Algebra
2 nd semester	T-101-INNF Introduction to Fin. Engineering	T-106-REVE Engineering Management	T-106-LIFV Molecular and Cell Biology	T-106-BURD Statics and Mechanics	T-106-BURD Statics and Mechanics
	X-204-STOF Entrepreneurship and New Ventures	X-204-STOF Entrepreneurship and New Ventures	X-204-STOF Entrepreneurship and New Ventures	X-204-STOF Entrepreneurship and New Ventures	X-204-STOF Entrepreneurship and New Ventures
3 rd semester	T-301-MATH Mathematics III	T-301-MATH Mathematics III	T-301-MATH Mathematics III	T-301-MATH Mathematics III	T-301-MATH Mathematics III
	T-303-VERD Securities	T-512-FRBI Prod. and Inventory Management	T-206-LIFE Physiology I	T-534-AFLF Classical Dynamics	T-534-AFLF Classical Dynamics
3 rd semester	T-208-FOR2 Programming in C++	T-208-FOR2 Programming in C++	T-307-HEIL Physics III	T-208-FOR2 Programming in C++	T-208-FOR2 Programming in C++
	T-302-TOLF Statistics I	T-302-TOLF Statistics I	T-306-RAS1 Analog Circuit Analysis	T-306-RAS1 Analog Circuit Analysis	T-306-RAS1 Analog Circuit Analysis
3 rd semester	T-316-GAVI Data Processing	T-316-GAVI Data Processing	T-316-STAF Digital Electronics	T-316-RAS2 Analog Circuit Design	T-316-LABB Measurement Systems
	T-406-TOLU Numerical Analysis	T-406-TOLU Numerical Analysis	T-609-LAEK Medical Imaging	T-406-TOLU Numerical Analysis	T-406-TOLU Numerical Analysis
4 th semester	T-606-PROB Probability and Stochastic Processes	T-606-PROB Probability and Stochastic Processes	T-509-RAFT Electronics	T-509-RAFT Electronics	T-507-VARM Thermodynamics
	T-403-ADGE Operation Research Elective - 12 week	T-403-ADGE Operation Research Elective - 12 week	T-306-MERK Signals and Systems	T-306-MERK Signals and Systems	T-407-EFNI Materials Science
4 th semester	T-305-PRMA Project Management	T-305-PRMA Project Management	T-106-BURD Statics and Mechanics	T-401-VELH Machine Elements	T-401-VELH Machine Elements
	T-105-HAGF Economics	T-105-HAGF Economics	T-305-PRMA Project Management	T-305-PRMA Project Management	T-305-PRMA Project Management
5 th semester	T-501-REGL Feedback Control Systems	T-501-REGL Feedback Control Systems	T-302-TOLF Statistics I	T-302-TOLF Statistics I	T-302-TOLF Statistics I
	T-503-AFLE Derivatives	T-501-FINA Introduction to Finance	T-501-REGL Feedback Control Systems	T-501-REGL Feedback Control Systems	T-501-REGL Feedback Control Systems
5 th semester	T-536-RENN Fluid Dynamics	Elective - 12 week	T-208-FOR2 Programming in C++	T-411-MECH Mechatronics I	T-536-RENN Fluid Dynamics
	T-516-CORP Corporate Finance for Engineering	T-502-HERM Simulation	Elective - 12 week	Elective - 12 week	Elective - 12 week
6 th semester	Elective - 12 week	Elective - 12 week	Elective - 3 week	Elective - 3 week	Elective - 3 week
	Elective - 12 week	Elective - 12 week	T-306-LIFE Physiology II	T-407-EFNI Materials Science	T-606-HEAT Heat Transfer
6 th semester	Elective - 12 week	T-507-VARM Thermodynamics	T-406-TOLU Numerical Analysis	T-401-VELH Machine Elements	**Numerical Fluid Flow / FEM
	Elective - 3 week	Elective - 3 week	T-510-MALI Instruments and Vital Signs	*Mechatronics II/Thermodynamics	Elective - 12 week
6 th semester	Elective - 3 week	Elective - 3 week	Elective - 12 week	Elective - 12 week	Elective - 12 week
	Elective - 3 week	Elective - 3 week	Elective - 3 week	Elective - 3 week	Elective - 3 week

* Students in their 6th semester in Mechatronics Engineering must take either T-535-MECH Mechatronics II or T-507-VARM Thermodynamics

** Students in their 6th semester in Mechanical Engineering must take either T-606-NUFF Numerical Fluid Flow and Heat Transfer or T-844-FEMM Finite Element Analysis in Engineering

Three week course, taught at the end of the semester