CAD/CAM Specialization - Structure of the Study Program

Spring semester

Course	Credits	Institute / Department
Differential Equations	3	Institute of Mathematics, Department of Analysis
Theory of Elasticity	3	Institute of Mechanics
Materials Science	3	Institute of Materials Sciences and Technology, Department of Mechanical Technology
Engineering Fluid Mechaqnics and Heat Transfer	3	Institute of Energy Engineering and Chemical Machinery, Department of Fluid and Heat Engineering
Environmental Management	3	Institute of Energy Engineering and Chemical Machinery, Department of Chemical Machinery
Project Management	3	Faculty of Economics
Machine Structures and Design	3	Institute of Machine and Product Design
Manufacturing Processes and Systems	3	Institute of Manufacturing Science
Measurement, Signal Processing and Electronics	3	Institute of Electrical and Electronic Engineering
Materials Handling Machines and Systems	3	Institute of Logistics
Methodical Design	3	Institute of Machine Tools and Mechatronics, Department of Machine Tools
Logistic Systems	3	Institute of Logistics
Computer Aided Process Planning	3	Institute of Materials Sciences and Technology, Department of Mechanical Technology
Materials Selection	3	Institute of Materials Sciences and Technology, Department of Mechanical Technology
Project B	3	Institute of Machine Tools and Mechatronics, Department of Machine Tools / Institute of Materials Sciences and Technology, Department of Mechanical Technology
Degree Thesis B	15	Institute of Machine Tools and Mechatronics, Department of Machine Tools / Institute of Materials Sciences and Technology, Department of Mechanical Technology

Autumn semester

Course	Credits	Institute / Department
Probability Theory	3	Institute of Mathematics, Department of Applied Mathematics
Modern Physics	3	Institute of Physics
Mechanical Vibrations	3	Institute of Mechanics
Industrial Quality Assurance	4	Institute of Manufacturing Science
Advanced Materials Processing	3	Institute of Materials Sciences and Technology, Department of Mechanical Technology
Automated Machine Tools	3	Institute of Machine Tools and Mechatronics, Department of Machine Tools
Professional Practice	2	Institute of Machine Tools and Mechatronics, Department of Machine Tools
iCAD Systems 1	4	Institute of Machine Tools and Mechatronics, Department of Machine Tools
Metal Forming	4	Institute of Materials Sciences and Technology, Department of Mechanical Technology
iCAD Systems 2	4	Institute of Machine Tools and Mechatronic,s Department of Machine Tools
NC Programming	3	Institute of Machine Tools and Mechatronics, Department of Machine Tools
Simulation of Manufacturing Devices	3	Institute of Machine Tools and Mechatronics, Department of Machine Tools
Design (as opt.)	3	Institute of Machine and Product Design
Mechatronical Modelling (as opt.)	3	Institute of Machine Tools and Mechatronics, Robert Bosch Department of Mechatronics
Project A	3	Institute of Machine Tools and Mechatronics, Department of Machine Tools / Institute of Materials Sciences and Technology, Department of Mechanical Technology
Degree Thesis A	15	Institute of Machine Tools and Mechatronics, Department of Machine Tools / Institute of Materials Sciences and Technology, Department of Mechanical Technology