

Recommended pass through the study plan

Name of the pass:

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Pass through the study plan: Společný 1. ročník (STM-A7B)

Branch of study guaranteed by the department: Common courses

Guarantor of the study branch:

Program of study: Software Engineering and Management

Type of study: Bachelor full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
A7B36ALG	Algorithmics	Z,ZK	6	2+2c	Z	P
A7B31ELI	Electrical engineering in informatics	Z,ZK	5	2+2c	Z	P
A7B01LAG	Linear Algebra	Z,ZK	6	2+2	Z	P
A7B01MAA	Mathematics Analyze	Z,ZK	8	4+2	Z	P
A7B14SAP	Computer Structures and Architectures	Z,ZK	6	2+2c	L	P
A7B14BPZS	Basic health and occupational safety regulations	Z	0	2+2j	Z	P

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
A7B14BP1	Safety in Electrical Engineering 1	Z	0	4+8j	Z,L	P
A7B01LOG	Logic	Z,ZK	4	2+2	L	P
A7B36OMO	Object Programming and Modeling	Z,ZK	6	2+2c	L	P
A7B01PST	Probability and Statistics	Z,ZK	4	2+1	L	P
A7B36PJV	Programming in Java	Z,ZK	6	2+2c	L	P
A7B14TEV	Expression of technical information	KZ	4	2+2c	L	P
A7B38UOS	Operating Systems - Introduction	Z,ZK	6	2+2c	L	P

List of groups of courses of this pass with the complete content of members of individual groups

List of courses of this pass:

Code	Name of the course	Completion	Credits
A7B01LAG	Linear Algebra The course covers introductory topics of linear algebra. They include matrices, matrix operations, inversion of matrices, vector spaces, bases and dimension and their applications to solving systems of linear equations. Vector spaces are presented over real numbers and GF(2). Eigenvalues and eigenvectors of matrices.	Z,ZK	6
A7B01LOG	Logic	Z,ZK	4
A7B01MAA	Mathematics Analyze This course is an introduction to differential and integral calculus. It covers basic properties of functions, limits of functions, derivative and its applications (graphing, Taylor polynomial) and definite/indefinite integral with its applications, sequences and series. At the end we also introduce calculus of more variables.	Z,ZK	8
A7B01PST	Probability and Statistics	Z,ZK	4
A7B14BP1	Safety in Electrical Engineering 1 The purpose of the course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. In this way the students receive qualification of instructed person that enables them to work on electrical equipment according to the Directive of the Dean No. 4/2009	Z	0
A7B14BPZS	Basic health and occupational safety regulations The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague, which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety regulations forms an integral and permanent part of qualification requirements. Directive of the Dean No. 1/2007. This program is obligatory.	Z	0
A7B14SAP	Computer Structures and Architectures Digital computer units and their structure, function and hardware implementation: ALU, control unit, memory system, inputs, outputs, data storage and transfer.	Z,ZK	6
A7B14TEV	Expression of technical information Students are guided through basic forms of ways for expression of technical information. Writing text, drawing graphs and speaking by presentations are also practically exercised. Two types of recipients are distinguished: amateurs and professionals.	KZ	4
A7B31ELI	Electrical engineering in informatics The subject is oriented on fundamentals of electrical engineering focused mainly on building blocks in computer technology. The content of the subject is built on elementary knowledge from secondary school. Seminars and exercises are devoted to the application and verification of knowledge presented in lectures.	Z,ZK	5
A7B36ALG	Algorithmics The course is an introduction into basics of algorithmic problem solving presented in close relation with practical parts of mathematics and computer science. Its core are data, their types, expressions, statements (exemplified by those at Java programming language), basics of programming techniques and data abstractions. The course does not involve topics concerning hardware, telecommunications or other programming languages or assemblers.	Z,ZK	6
A7B36OMO	Object Programming and Modeling Object-oriented approach to software development prevails in all of its three phases: analysis, design and implementation. The aim of this course is to give the students a firm understanding of basic concepts and notions of object theory and sketch its formal foundations.	Z,ZK	6
A7B36PJV	Programming in Java The aim of this course is to offer a good level of a acquaintance with Java programming namely object approach, graphical user interface, telecommunications, internet, multimedia and database connections.	Z,ZK	6
A7B38UOS	Operating Systems - Introduction Introduction into UNIX and MS Windows operating systems. Participants will become advanced users.	Z,ZK	6

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