

1 <sup>st</sup> semester 31 credits 28 h/week	Calculus 1 for informaticians 4/2/0/e/6 BME TE90AX21	Physics 1i 2/1/0/e/4 BME TE11AX23	Introduction to the theory of computing 1 2/2/0/e/5 BME VI SZA03	Digital design 2/1/2/e/6 BME VI MIA02	Basics of programming 1 2/2/2/m/7 BME VI EEA00	English 1 0/4/0/m/3 BME GT63EE11	<b>DISCLAIMER:</b> this document is for information purposes only and has no contractual value. Its content is subject to change without notice.	
2 <sup>nd</sup> semester 32 credits 27 h/week	Calculus 2 for informaticians 4/2/0/m/6 BME TE90AX22	Physics 2i 2/1/0/e/4 BME TE11AX24	Introduction to the theory of computing 2 2/2/0/e/5 BME VI SZA04	System modeling 2/1/0/m/4 BME VI MIA00	Programming 2 2/0/2/m/6 BME VI IIA03	Computer architectures 2/1/0/e/4 BME VI HIA02	English 2 0/4/0/m/3 BME GT63EE12	Calculus 1 Calculus 2 Comprehensive exam TE90AX20
3 <sup>rd</sup> semester 31 credits 25 h/week	Probability theory 2/2/0/e/5 BME VI SZAB02	Coding technology 3/0/0/e/4 BME VI HIA00	Databases 2/1/1/e/5 BME VI TMA04	Communication networks 1 2/0/1/m/4 BME VI HIA01	Programming 3 2/0/2/m/5 BME VI IIA00	Software engineering 3/0/0/e/4 BME VI IIA01	System theory 2/2/0/m/4 BME VI HVA00	<b>STUDY SPECIALIZATION</b> Training laboratory, Project Laboratory and BSc Thesis work can only be taken in a fixed order.  Specialization Enrollment conditions: • at least 90 credits are completed • ALL courses of the first and second semesters are completed • at least 20 credits are completed from the third semester • Calculus Comprehensive exam is completed
4 <sup>th</sup> semester 29 credits 24 h/week	Theory of algorithms 2/2/0/e/5 BME VI SZAB03	Operating systems 3/0/1/e/5 BME VI MIA00	Computer graphics 3/0/0/m/3 BME VI IIA07	Communication networks 2 2/0/1/e/4 BME VI TMA01	Software techniques 2/0/2/e/5 BME VI UAB00	Software project laboratory 0/0/2/m/3 BME VI IIA06	Management and business economics 4/0/0/m/4 BME GT20AA01	
5 <sup>th</sup> semester 29 credits 25 h/week	Technology of IT devices 2/0/1/m/4 BME VI EEA00	Mobile- and web-based software 2/0/2/e/5 BME VI UAC00	Artificial intelligence 3/0/0/m/3 BME VI MIA010	Study specialization subject 2/1/0/e/4 2x	Training Project Laboratory 0/0/3/m/3 BME VI **AL00	Micro- and macroeconomics 4/0/0/e/4 BME GT30AA01	Business law 2/0/0/m/2 BME GT55AA01	
6 <sup>th</sup> semester 29 credits 24 h/week	IT security 3/0/0/m/3 BME VI HIA01	Management of information systems 2/0/1/m/4 BME VI TMA02	Study specialization subject 2/1/0/e/4 2x	Study specialization laboratory 1 0/0/2/m/3	Project laboratory 0/0/4/m/5 BME VI **AL01	Free elective 4/0/0/e/4	Human & economic science elective 2/0/0/m/2 BME GT****	<b>THESIS PROJECT</b> enrollment conditions • at least 174 credits are completed (up to 10 credits free electives) • All courses of the first four semesters are completed • all specialization courses are completed (up to the 6th semester)
7 <sup>th</sup> semester 29 credits 23 h/week	Embedded information systems 2/1/0/m/3 BME VI MIA00	Study specialization laboratory 2 0/0/2/m/3	BSc thesis project 0/10/0/m/15 BME VI **AT00	Free elective 2/0/0/m/2 3x	Human & economic science elective 2/0/0/m/2 BME GT****	<b>THESIS DEFENCE</b> Organized in the last exam period in front of a committee. Includes presentation of thesis work, discussions and oral exam in one specialization subjects. Written comprehensive final exam is required in advance.		

<b>SOFTWARE ENGINEERING</b>					
Data-driven systems 2/1/0/e/4 BME VI UAC01	Object-oriented software design 2/1/0/e/4 BME VI IIA00	Integration & verification techniques 2/1/0/e/4 BME VI MIA04	Client side technologies 2/1/0/e/4 BME VI UAC02	Software development laboratory 1 0/0/2/m/3 BME VI UAC09	Software development laboratory 2 0/0/2/m/3 BME VI UAD01
<b>INFOCOMMUNICATIONS</b>					
Mobile communication networks 2/1/0/e/4 BME VI HIA00	Building and operation of networks 2/1/0/e/4 BME VI TMA00	Media applications & networks in practice 2/1/0/e/4 BME VI HIA02	Networked resource platforms & apps 2/1/0/e/4 BME VI TMA03	Infocommunication laboratory 1 0/0/2/m/3 BME VI TMA08	Infocommunication laboratory 2 0/0/2/m/3 BME VI HIA02

**Legend**

- Orange box: Fundamentals in sciences
- Light orange box: Core engineering knowledge
- Blue box: Specialization studies
- Light blue box: Economics & humanities
- Grey box: Free electives

**Course title**  
3/1/1/m/5  
BM CourseCode

**weekly contact hours**  
(lectures/classroom practice/lab. practice)  
3x

**credit value**  
according to ECTS – 1 credit represents 30 work hours

**requirement**  
m – mid-semester mark  
e – exam

**number of similar subjects**  
3x

**subject code**  
(as in the Neptun system)