



Semester	Credits	h/week	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10
1 st semester	31 credits	27 h/week	Mathematics A1 4/2/0/e/6 BMETE90AX00	Physics 1 3/1/0/e/4 BMETE11AX21	Foundation of computer science 2/2/0/e/5 BMEVISZAA05	Digital design 1 3/1/1/e/6 BMEVIAA04	Basics of programming 1 2/2/2/m/7 BMEVHIAA01	English 1 0/4/0/m/3 BMEGT63EE1				
2 nd semester	30 credits	26 h/week	Mathematics A2 4/2/0/m/6 BMETE90AX26	Physics 2 2/1/0/e/4 BMETE11AX22	Signals and systems 1 3/2/0/e/6 BMEVHVA00	Digital design 2 3/1/0/e/5 BMEVIAA02	Basics of programming 2 2/0/2/m/6 BMEVIAAA01	English 2 0/4/0/m/3 BMEGT63EE2	Mathematics A1 Mathematics A2 Comprehensive exam TE90AX16			
3 rd semester	30 credits	26 h/week	Mathematics A3 2/1/0/e/4 BMETE90AX09	Mathematics A4 2/2/0/e/4 BMETE90AX51	Electronics technology and materials 3/0/2/m/6 BMEVIETAB00	Signals and systems 2 3/3/0/e/6 BMEVHVA01	Electrotechnics 3/0/1/m/5 BMEVIEAB00	Electronics 1 2/2/0/e/5 BMEVHIA02				
4 th semester	29 credits	25 h/week	Informatics 1 4/0/0/m/4 BMEVHIA08	Informatics 2 3/0/1/e/5 BMEVIAUB01	Measurement technology 3/2/0/m/5 BMEVIMIA01	Infocommunication 2/2/0/e/5 BMEVITMA03	Control engineering 2/1/1/e/5 BMEVHIA05	Power engineering 2/1/1/e/5 BMEVIEAB01				
5 th semester	32 credits	26 h/week	Introduction to electromagnetic fields 2/1/0/e/4 BMEVHVA03	Laboratory 1 0/0/3/m/4 BMEVIMIA12	Electronics 2 4/1/0/m/5 BMEVIAUC05	Study specialization subject 2/1/0/e/4 3x	Training Project Laboratory 0/0/2/m/3 BMEVI**AL02	Management and business economics 4/0/0/m/4 BMEGT20AA01				
6 th semester	31 credits	26 h/week	Microelectronics 2/0/2/e/5 BMEVIEAB00	Laboratory 2 0/0/4/m/5 BMEVIMIA13	Free elective 2/0/0/e/2	Study specialization subject 2/1/0/e/4	Study specialization laboratory 0/0/3/m/4	Project laboratory 0/0/4/m/5 BMEVI**AL03	Business law 2/0/0/m/2 BMEGT55A001	Micro- and macroeconomics 4/0/0/e/4 BMEGT30AA001		
7 th semester	27 credits	22 h/week	Free elective 2/0/0/m/2 4x	Human & economic science elective 2/0/0/m/2 2x BMEGT*****	BSc thesis project 0/10/0/m/15 BMEVI**AT01	PROJECT subjects Topics of the project subjects must be related the study specialization block. Training laboratory, Project Laboratory and BSc Thesis project can only be taken in a fixed order.		THESIS WORK enrollment conditions - at least 174 credits are completed (up to 10 credits free elective) - all courses of the first four semesters are completed - all specialization courses are completed (up to the 6th semester)				

Semester structure:

- registration (1w)
- classes (14w)
 - lectures
 - classroom practices
 - lab. practices
 - quizzes
 - midterms
 - homework assignments
- resits (1w)
 - midterm retakes
 - late homework submission
 - early exams
 RESTRICTIONS APPLY
- exams (20d)
 - RESTRICTIONS APPLY

DISCLAIMER:
this document is for information purposes only and has no contractual value. Its content is subject to change without notice.

THESIS DEFENSE
Organized during the last exam period in front of a committee. Includes presentation of thesis work, its discussion and oral exam in one specialization subject. Written comprehensive final exam is required in advance

SPECIALIZATION
Enrollment conditions:
 • at least 90 credits are complete
 • all courses of the first and second semesters are completed
 • at least 20 credits of the third semester are completed
 • Mathematics comprehensive exam is completed
 • Specialization prerequisite subject is completed
 The number of students must exceed a certain threshold.

SUSTAINABLE ELECTRIC ENERGISTICS (prerequisite course: Power Engineering, BMEVIEAB01)

Electric power transmission 2/1/0/e/4 BMEVIEAC00	Electrical machines and applications 2/1/0/e/4 BMEVIEAC01	Electrical equipment and insulations 2/1/0/e/4 BMEVIEAC02	Control of electric drives 2/1/0/e/4 BMEVIEAC04	Sustainable electric energetics laboratory 0/0/3/m/4 BMEVIEAC07
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EMBEDDED AND CONTROL SYSTEMS (prerequisite course: Control Engineering, BMEVHIA05)

Embedded and ambient systems 2/1/0/e/4 BMEVIMIA06	Industrial control 2/1/0/e/4 BMEVHIA03	Microcontroller based systems 2/1/0/e/4 BMEVIAUC06	Embedded operating systems and client apps. 2/1/0/e/4 BMEVIAUC07	Microcontroller Laboratory Exercises. 0/0/3/m/4 BMEVIAUC08
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INFOCOMMUNIATION SYSTEMS (prerequisite course: Infocommunication, BMEVITMA03)

Space Technology 2/1/0/e/4 BMEVHVA05	Network Technologies and Applications 2/1/0/e/4 BMEVITMA05	Mobile Comm. Systems 2/1/0/e/4 BMEVHIA04	High Frequency System Techniques 2/1/0/e/4 BMEVHVA04	Radio Systems and Applications lab. 0/0/3/m/4 BMEVHVA06
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SUBJECT LEGEND

weekly contact hours
 - lectures/
 - classroom practices/
 - laboratory practices

number of similar subjects OR study specialization block (if applicable)
 m – mid-semester mark
 e – exam

Subject title
 3/1/1/m/5
 BMECode

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

subject code
 as in the Neptun course management system

SUBJECT TYPES

- Fundamentals in natural sciences
- Core engineering knowledge
- Specialization studies
- Economics & humanities
- Free electives
- Prerequisite for specialization