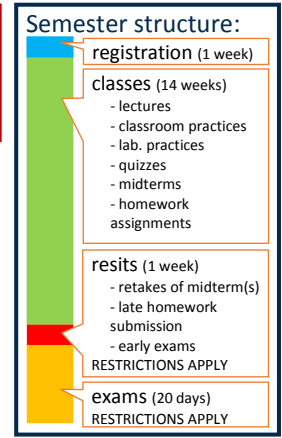


1 st semester 29 credits 24 h/week	System optimization 4/0/0/e/4 BMEVISZMA02	Formal methods 3/0/0/m/4 BMEVIMIMA07	Main specialization subject 2/1/0/e/4 3x	Secondary specialization subject 2/1/0/e/4	Project laboratory 1 0/0/5/m/5 BMEVI**ML00	DISCLAIMER: this roadmap is for information purposes only, without contractual value. Content is subject to change without notice. MINIMAL NUMBER OF APPLICANTS REQUIRED		
2 nd semester 33 credits 27 h/week	Applied algebra and mathematical logic 4/0/0/e/4 BMETE90MX57	Information theory 3/0/0/m/4 BMEVISZMA03	Languages and automata 3/0/0/m/4 BMEVISZMA04	Main specialization subject 2/1/0/e/4 2x	Main specialization laboratory 0/0/3/m/4		Secondary specialization subject 2/1/0/e/4	Project laboratory 2 0/0/5/m/5 BMEVI**ML01
3 rd semester 30 credits 22 h/week 3x	Free elective 2/0/0/m/2	Main specialization laboratory 0/0/3/m/4	Secondary specialization subject 2/1/0/e/4	Secondary specialization lab. 0/0/3/m/4	MSc Diploma Thesis Design 1 0/5/0/m/10 BMEVI**MT00		Mandatory human & economic science elective 2/0/0/m/2 BMEGT*****	Free elective (Smart City secondary specialization) 2/0/0/m/2
4 th semester 28 credits 18 h/week	Engineering management 4/0/0/e/4 BMEVITMMB03	Mandatory human & economic science elective 2/0/0/m/2 2x BMEGT*****	MSc Diploma Thesis Design 2 0/10/0/m/20 BMEVI**MT01	THESIS DEFENSE SESSION Organized during the last exam period. Includes presentation of thesis work, discussion, oral exam in two subjects. Conditions for admission apply.				



Main specialization	APPLIED INFORMATICS	SW development methods & paradigms 2/1/0/e/4 BMEVIAUMA00	Distributed systems & domain-specific modeling 2/1/0/e/4 BMEVIAUMA01	Service oriented system integration 2/1/0/e/4 BMEVIAUMA04	Business intelligence 2/1/0/e/4 BMEVIAUMA02	Software and systems verification 2/1/0/e/4 BMEVIMIMA01	Distributed systems laboratory 0/0/3/m/4 BMEVIAUMA03	Business intelligence laboratory 0/0/3/m/4 BMEVIAUMB00
	INTERNET ARCHITECTURE AND SERVICES	Internet ecosystem and its evolution 2/1/0/e/4 BMEVITMMA00	Agile network service development 2/1/0/e/4 BMEVITMMA01	Cloud networking 2/1/0/e/4 BMEVITMMA02	Modeling seminar for engineers 2/1/0/e/4 BMEVITMMA03	Internet services and applications 2/1/0/e/4 BMEVITMMA04	Infocommunication services laboratory 1 0/0/3/m/4 BMEVIHIMA04	Infocommunication services laboratory 2 0/0/3/m/4 BMEVITMMB00

REMARK
The datasheet of some specialization subjects may include prerequisites. Especially in the case of laboratories that are followed by and based on the knowledge of specialization subjects.

REMARKS:
Project lab. and MSc thesis topics must be related to the main or secondary specialization. One subject in the common subjects block and two subjects from the advanced mathematics block are determined by the main specialization. Subjects from remaining specialization blocks can be selected as free electives.

Secondary specialization	SMART CITY		CLOUD AND PARALLEL SYSTEMS	
	Sensor networks and applications 2/1/0/e/4 BMEVITMMA09	Intelligent traffic systems 2/1/0/e/4 BMEVITMMA10	Cloud computing 2/1/0/m/4 BMEVIAUMA05	High performance parallel computing 2/1/0/e/4 BMEVIAUMA06
	Human-machine interface 2/1/0/e/4 BMEVITMMA11	Smart city laboratory 0/0/2/m/2 BMEVITMMB04	GPGPU applications 2/1/0/e/4 BMEVIAUMA07	Parallel programming laboratory 0/0/3/m/4 BMEVIAUMA08

SUBJECT LEGEND

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

number of similar subjects OR specialization block

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

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

requirement
m – mid-semester mark
e – exam

subject code as in the Neptun course management system

SUBJECT TYPES

- Fundamentals in natural sciences
- Secondary specialization studies
- Main specialization studies
- Economics & humanities
- Free electives
- Common courses

PRE-REQUISITES
Project Laboratory 1., Project Laboratory 2., Diploma Thesis Design 1., Diploma Thesis Design 2. can only be taken one after the other having completed the credits of the previous subject .

The prerequisite of the admission of Diploma Thesis Design 2

- Completing 84 credits according to the study plan
- Completing the credits of the following subjects
 - Applied algebra and mathematical logic (BMETE90MX57)
 - System optimization (BMEVISZMA02)
 - Languages and automata (BMEVISZMA04)
 - Information theory (BMEVISZMA03)
 - Formal methods (BMEVIMIMA07)
 - Diploma Thesis Design 1 (BMEVI**MT00)