

English-taught BSc in Vehicle Engineering

Name of degree programme: Vehicle Engineering

Academic level of degree: BSc

Qualification obtained: Vehicle Engineering (BSc)

Duration of degree programme: 7 semesters

Necessary no. credits for degree: 210

Curriculum (beginning in the autumn semester)

Compulsory courses:

Nr.	Neptun code of course	Name of course	le ss o n s/ w ee k	se m in ar s/ w ee k	la b s/ w ee k	as se ss me nt ty p e	cr e di t p oi nt s	se m es te r
1.	AJNB_JFTA015	Capstone Project 1.	1	0	3	v	5	1
2.	AJNB_JFTA016	Technical Reading and Writing	1	1	0	f	2	1
3.	GKNB_AMTA018	Measurement and Data Processing	1	0	1	f	2	1
4.	GKNB_AMTA019	Solid Mechanics 1.	2	2	2	f	6	1
5.	GKNB_FKTA037	Engineering Physics	1	1	1	f	3	1
6.	GKNB_MGTA081	Technical Drawing	2	2	2	f	7	1
7.	GKNB_MSTA052	Basic Informatics	1	1	0	f	2	1
8.	GKNB_MSTA053	Calculus 1.	1	1	1	f	3	1
9.	AJNB_ATT017	Materials Science Fundamentals	1	2	1	f	4	2
10.	AJNB_JFTA017	Thermofluids 1.	1	2	2	f	6	2
11.	AJNB_JFTA018	Capstone Project 2.	1	0	3	v	5	2
12.	GKNB_AMTA020	Solid Mechanics 2.	1	2	2	f	5	2
13.	GKNB_AUTA047	Electrics and Electronics 1	1	0	1	f	2	2
14.	GKNB_MGTA082	Machine Elements 1.	1	1	1	f	3	2
15.	GKNB_MSTA054	Calculus 2.	1	1	1	f	3	2
16.	GKNB_MSTA055	Basic Programming	1	1	0	f	2	2
17.	AJNB_ATT018	Material- and Manufacturing Technology 1.	1	1	1	f	3	3
18.	AJNB_JFTA019	Thermofluids 2.	1	1	2	f	4	3
19.	AJNB_JFTA020	Capstone Project 3.	1	0	4	v	5	3

20	GKNB_AMTA021	Solid Mechanics 3.	2	2	3	f	7	3
21	GKNB_AUTA048	Electrics and Electronics 2	1	0	2	f	3	3
22	GKNB_MGTA083	Machine Elements 2.	1	2	2	f	5	3
23	GKNB_MSTA056	Calculus 3	1	1	1	f	3	3
24	AJNB_ATT019	Material- and Manufacturing Technology 2.	2	2	1	f	5	4
25	AJNB_BMTA049	Machine Design and Tribology	2	2	3	f	7	4
26	AJNB_JFTA021	Thermofluids 3.	2	3	2	f	7	4
27	AJNB_JFTA022	Capstone Project 4.	1	0	4	v	5	4
28	GKNB_AMTA022	Solid Mechanics 4.	1	1	1	f	3	4
29	KGNB_MMTA110	Economy and Quality Management	1	1	1	f	3	4
30	AJNB_BMTA050	Systemic Engineering of Vehicle Powertrain Design	2	2	3	f	8	5
31	AJNB_JFTA023	Engineering Acoustics	1	1	1	f	4	5
32	AJNB_JFTA024	Capstone project 5.	1	0	3	v	5	5
33	GKNB_AUTA049	Control Systems	1	1	3	f	5	5
34	GKNB_TATA062	Information Management and Telecommunication	1	1	1	f	3	5
35	KGNB_MMTA111	Project Management and Leadership 1.	1	2	2	f	5	5
36	AJNB_BMTA051	Capstone project 6.	1	0	3	v	5	6
37	AJNB_JFTA025	Systemic Engineering of Vehicle Design	2	3	4	f	10	6
38	AJNB_KMTA033	Sustainability	1	1	0	f	3	6
39	GKNB_MSTA057	Artificial Intelligence and autonomous vehicles	2	2	2	f	6	6
40	KGNB_MMTA112	Project Management and Leadership 2 .	2	2	2	f	6	6
41	AJNB_BMTA052	Thesis Consultation (Bachelor Programme)	0	0	0	f	15	7
42	AJNB_JFTA026	Portfolio	0	0	2	f	5	7

Hungarian Language (compulsory)

Nr.	Neptun code of course	Name of course	less ons / week	semi nars / week	asse ssm ent type *	cr ed it po int s
1	AJNB_BMTA056	Student Support I.	0	1	a	0

2	AJNB_BMTA057	Student Support II.	0	1	a	0
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Professional mentor consultation

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type *	credits
1	KGNB_NOKA036	Hungarian Language & Culture 1	0	3	a	0
2	KGNB_NOKA037	Hungarian Language & Culture 2	0	3	a	0

Physical education

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type *	credits
1	TKNB_TSKA001	Physical education/swimming	0	2	a	0
2	TKNB_TSKA002	Physical education/Power	0	2	a	0
3	TKNB_TSKA003	Physical education/Fitness	0	2	a	0
4	TKNB_TSKA004	Physical education/Sport skills	0	2	a	0

Free optional courses

10 credit points should be obtained from this group of courses.

Nr.	Neptun code of course	Name of course	le ss o n s/ w ee k	se m in ar s/ w ee k	la b s/ w ee k	as se ss m e nt ty p e	cr e di t p oi nt s	se m es ter
1.	GKNB_FKTA023	History of Physics	3	0	0	v	4	
2.	GKNB_INTA023	Programming basics	2	2	0	v	5	
3.	GKNB_MSTA023	Technical Calculations	2	2	0	v	5	
4.	KGNB_NOKA023	Exchange Course 3.	0	0	0	f	4	
5.	KGNB_VKTA006	Soft skills and leadership essentials	2	2	0	v	5	
6.	KGNB_VKTA018	Introduction to the Innovation and Research Communication I.	0	0	0	f	5	
7.	KGNB_VKTA019	Introduction to the Innovation and Research Communication II.	0	0	0	f	5	
8.	MKNB_DSTA001	Design culture	2	0	0	v	2	

*** type of assessment**

f - evaluation based on student's performance and work during the semester

v - evaluation based on student's exam grade in a 5-grade system: excellent (5) – good (4) – satisfactory (3) – passed (2) – fail (1)

Programme supervisor: Dr. Tóth-Nagy Csaba

Photo of Programme supervisor:



CV of Programme supervisor:

<https://admissions.sze.hu/images/cv/CV%20Toth-Nagy,%20Csaba,%202023Octobre18.pdf>

Details of thesis and final exams on: https://bmt.sze.hu/en_GB/information-about-final-exam

Information about admission procedure: <http://admissions.sze.hu/>

Programme mentor: Dr. Tóth-Nagy Csaba