

## English-taught BSc in Vehicle Engineering

**Name of degree programme:** Bachelor in Vehicle Engineering (BSc)

**Academic level of degree:** Bachelors

**Qualification obtained:** Vehicle Engineer

**Duration of degree programme:** 7 semesters

**Necessary no. credits for degree:** 210 credits

***Obligatory 6-week industrial internship. Can be fulfilled in home country or in Hungary.***

**Curriculum** (beginning in Autumn semester)

*(For description of courses please click course code)*

### Compulsory courses:

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type	credit points	semester
1.	<a href="#">AJNB_JFTA015</a>	Capstone Project 1.	1	0	v	5	1
2.	<a href="#">AJNB_JFTA016</a>	Technical Reading and Writing	1	1	f	2	1
3.	<a href="#">GKNB_AMTA018</a>	Measurement and Data Processing	1	1	f	2	1
4.	<a href="#">GKNB_AMTA019</a>	Solid Mechanics 1.	2	2	f	6	1
5.	<a href="#">GKNB_FKTA037</a>	Engineering Physics	1	1	f	3	1
6.	<a href="#">GKNB_MGTA081</a>	Technical Drawing	2	3	f	7	1
7.	<a href="#">GKNB_MSTA052</a>	Basic Informatics	1	1	f	2	1
8.	<a href="#">GKNB_MSTA053</a>	Calculus 1.	1	1	f	3	1
9.	<a href="#">AJNB_ATTA017</a>	Materials Science Fundamentals	1	2	f	4	2
10.	<a href="#">AJNB_JFTA017</a>	Thermofluids 1.	2	2	f	6	2
11.	<a href="#">AJNB_JFTA018</a>	Capstone Project 2.	1	0	v	5	2
12.	<a href="#">GKNB_AMTA020</a>	Solid Mechanics 2.	2	2	f	5	2
13.	<a href="#">GKNB_AUTA047</a>	Electrics and Electronics 1	1	1	f	2	2
14.	<a href="#">GKNB_MGTA082</a>	Machine Elements 1.	1	1	f	3	2
15.	<a href="#">GKNB_MSTA054</a>	Calculus 2.	1	1	f	3	2
16.	<a href="#">GKNB_MSTA055</a>	Basic Programming	1	1	f	2	2
17.	<a href="#">AJNB_ATTA018</a>	Material- and Manufacturing Technology 1.	1	1	f	3	3
18.	<a href="#">AJNB_JFTA019</a>	Thermofluids 2.	1	2	f	4	3
19.	<a href="#">AJNB_JFTA020</a>	Capstone Project 3.	1	0	v	5	3
20.	<a href="#">GKNB_AMTA021</a>	Solid Mechanics 3.	2	3	f	7	3
21.	<a href="#">GKNB_AUTA048</a>	Electrics and Electronics 2	1	1	f	3	3
22.	<a href="#">GKNB_MGTA083</a>	Machine Elements 2.	2	2	f	5	3
23.	<a href="#">GKNB_MSTA056</a>	Calculus 3	1	1	f	3	3
24.	<a href="#">AJNB_ATTA019</a>	Material- and Manufacturing Technology 2.	2	0	f	5	4
25.	<a href="#">AJNB_BMTA049</a>	Machine Design and Tribology	2	3	f	7	4
26.	<a href="#">AJNB_JFTA021</a>	Thermofluids 3.	2	3	f	7	4

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type	credit points	semester
27.	<a href="#">AJNB_JFTA022</a>	Capstone Project 4.	1	0	v	5	4
28.	<a href="#">GKNB_AMTA022</a>	Solid Mechanics 4.	1	1	f	3	4
29.	<a href="#">KGNB_MMTA110</a>	Economy and Quality Management	1	1	f	3	4
30.	<a href="#">AJNB_BMTA050</a>	Systemic Engineering of Vehicle Powertrain Design	3	3	f	8	5
31.	<a href="#">AJNB_JFTA023</a>	Engineering Acoustics	1	2	f	4	5
32.	<a href="#">AJNB_JFTA024</a>	Capstone project 5.	1	0	v	5	5
33.	<a href="#">GKNB_AUTA049</a>	Control Systems	2	2	f	5	5
34.	<a href="#">GKNB_TATA062</a>	Information Management and Telecommunication	1	1	f	3	5
35.	<a href="#">KGNB_MMTA111</a>	Project Management and Leadership 1.	1	2	f	5	5
36.	<a href="#">AJNB_BMTA051</a>	Capstone project 6.	1	0	v	5	6
37.	<a href="#">AJNB_JFTA025</a>	Systemic Engineering of Vehicle Design	3	4	f	10	6
38.	<a href="#">AJNB_KMTA033</a>	Sustainability	1	1	f	3	6
39.	<a href="#">GKNB_MSTA057</a>	Artificial Intelligence and autonomous vehicles	2	2	f	6	6
40.	<a href="#">KGNB_MMTA112</a>	Project Management and Leadership 2.	2	2	f	6	6
41.	<a href="#">AJNB_BMTA052</a>	Thesis Consultation	0	0	f	15	7
42.	<a href="#">AJNB_JFTA026</a>	Portfolio	0	0	f	5	7

### Hungarian Language (compulsory)

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type	credit points
1.	<a href="#">KGNB_NOKA036</a>	Hungarian Language and Culture 1.	0	3	a	0
2.	<a href="#">KGNB_NOKA037</a>	Hungarian Language and Culture 2.	0	3	a	0

### Physical education (compulsory)

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type	credit points
1.	<a href="#">TKNB_TSKA001</a>	Physical Education / Swimming	0	2	a	0
2.	<a href="#">TKNB_TSKA002</a>	Physical Education / Power	0	2	a	0
3.	<a href="#">TKNB_TSKA003</a>	Physical Education / Fitness	0	2	a	0
4.	<a href="#">TKNB_TSKA004</a>	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	lessons / week	seminars / week	assessment type	credit points
1.	<a href="#">AJNB_KMTA007</a>	Competency-based Project Management	2	0	v	4
2.	<a href="#">GKNB_FKTA023</a>	History of Physics	3	0	v	4
3.	<a href="#">GKNB_INTA023</a>	Programming basics	2	2	v	5

4.	<a href="#">GKNB_MSTA023</a>	Technical Calculations	2	2	v	5
5.	<a href="#">KGNB_MMTA042</a>	Project Management	0	2	b-5	4
6.	<a href="#">KGNB_NOKA023</a>	Exchange Course 3.	0	0	f	4
7.	<a href="#">KGNB_VKTA006</a>	Soft skills and leadership essentials	2	2	v	5
8.	<a href="#">MKNB_DSTA001</a>	Design culture	2	0	v	2

### Foreign Language Preparation (optional)

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type	credit points
1.	<a href="#">KGNB_NOKA012</a>	OECONOM Professional Language Prep Course I.	2	2	b-3	0
2.	<a href="#">KGNB_NOKA013</a>	OECONOM Professional Language Prep Course II.	2	2	b-3	0
3.	<a href="#">KGNB_NOKA014</a>	ORIGO General B2 Prep Course	2	2	b-3	0
4.	<a href="#">KGNB_NOKA015</a>	ORIGO General C1 Prep Course	2	2	b-3	0
5.	<a href="#">KGNB_NOKA016</a>	KITEX General B2 Prep Course	2	2	b-3	0
6.	<a href="#">KGNB_NOKA017</a>	KITEX General C1 Prep Course	2	2	f	0
7.	<a href="#">KGNB_NOKA018</a>	TELC General B2 Prep Course	2	2	b-3	0
8.	<a href="#">KGNB_NOKA019</a>	TELC General C1 Prep Course	2	2	f	0

#### \* 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 Barna Hanula



**Link to the supervisor's CV:** <https://admissions.sze.hu/images/cv/Hanula%20Barna.pdf>

Please find details of **thesis** and **final exams** on:

[https://ahjk.sze.hu/images/Szab%C3%A1lyzatok/English/AHJK%20Final%20Exam%20Regulations\\_EN.pdf](https://ahjk.sze.hu/images/Szab%C3%A1lyzatok/English/AHJK%20Final%20Exam%20Regulations_EN.pdf)

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