
English-taught MSc in Electrical Engineer

Name of degree programme: MSc in Electrical Engineer

Academic level of degree: Masters

Qualification obtained: (Electrical Engineer)

Duration of degree programme: 4 semesters

Necessary no. credits for degree: 180 credits

Curriculum (beginning in **Autumn** semester) *(For description of courses please click course code)*

Compulsory courses:

Neptun code of course	Name of course	lessons / week	seminars / week	Laboratory / week	assessment type	credit points	semester
GKNM_INTA067	Computational Intelligence	2	2	0	v	5	2
GKNM_MSTA004	Mathematical Models and Methods	2	2	0	v	5	2
KGNM_NETA006	Environmental Management	2	0	0	v	4	2
GKNM_AUTA009	Electric Machines and Drives	2	0	0	v	5	2
GKNM_TATA025	Circuit Design	2	2	0	v	5	2
GKNM_MSTA024	Stochastic Processes	2	2	0	v	4	1
GKNM_TATA019	Coding Theory	4	0	0	v	5	1
KGNM_NETA025	Business Planning and Controlling	1	2	0	v	5	1
GKNM_AUTA011	Automatic Controls	2	0	0	v	5	1
GKNM_MSTA003	Numerical Analysis	2	2	0	v	5	1
GKNM_TATA021	Mobile Communications and Smart Networking	4	0	0	v	5	1
GKNM_FKTA012	Nanoelectronics	2	0	0	v	3	3

GKNM_TATA028	Optical Telecommunications	4	0	0	v	5	3
KGNM_MMTA056	Advanced Project Management	2	0	0	v	4	3
GKNM_TATA022	Project 1	0	0	2	f	5	1
GKNM_AUTA012	Project 1	0	0	2	f	5	1
GKNM_TATA027	Project 2	0	0	2	f	5	2
GKNM_AUTA013	Project 2	0	0	2	f	5	2
GKNM_TATA098	Thesis Consultation I. (Master Programme)	0	0	0	f	15	3
GKNM_AUTA098	Thesis Consultation I. (Master Programme)	0	0	0	f	15	3
GKNM_TATA099	Thesis Consultation II. (Master Programme)	0	0	0	f	15	4
GKNM_AUTA099	Thesis Consultation II. (Master Programme)	0	0	0	f	15	4

Hungarian Language (compulsory)

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

Free optional courses

15 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
	GKNM_TATA024	Digital Audio and Video Broadcasting	2	0	2	v	5
	GKNM_AUTA015	Robot Controls	2	0	0	v	5
	GKNM_TATA046	Information Security	2	0	2	v	5
	GKNM_AUTA029	Design of Virtual Instrument	2	0	1	v	5
	GKNM_AUTA037	Powertrains of Electric and Hybrid Vehicles	2	0	1	v	5
	GKNM_TATA051	Cloud Computing	2	0	2	f	5
	GKNM_INTA056	Logic	2	2	0	v	5
	GKNM_MSTA002	Theory of Algorithms	2	2	0	v	5
	AJNM_ATT011	Materials Science	2	2	0	v	5
	AJNM_JFTA001	Core elements of whole vehicle engineering	2	0	0	f	5

* 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)

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

Programme supervisor: Prof. Lencse Gábor



CV: <https://admissions.sze.hu/images/cv/CV%20with%20photo%20-%20G%C3%A1bor%20Lencse.pdf>

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