

Master Programme „Power Engineering“



Nominal duration	2 years
Obligatory Courses	54 ECTS
Elective Courses	24 ECTS
Free Elective Courses	9 ECTS
Diploma Thesis and Diploma Seminar	33 ECTS
<i>Total</i>	<i>120 ECTS</i>

After finishing all courses and the diploma thesis a final oral examination has to be passed. The awarded degree is “Diplomingenieurin” or “Diplomingenieur” respectively. (This is a traditional title in German spoken countries equivalent to MSc.)

Courses are identified by a six digit number. Detailed information about courses can be found at <http://tuwis.tuwien.ac.at> by choosing “English”, “Lectures” and entering the course number in the field “Simple search”.

Type of courses: VO Lecture, VU Lecture with Exercise, UE Exercise, SE Seminar.

Hours: Weekly units during one semester (one unit 45 min, approx. 14 weeks per semester).

Compulsory Courses

The following semester schedule for compulsory courses is a recommendation, the courses can be taken in an individual sequence.

<i>First Semester</i>				
Number	Title	Type	Hours	ECTS
372.021	Electrical Drives	VU	3.0	4.5
372.024	Nonconventional Energy Conversion	VO	2.0	3.0
373.010	Energy Economics	VU	3.0	4.5
373.013	Power Systems	VU	3.0	4.5
372.033	Power Electronics	VU	2.0	3.0
376.013	Components in Automation	VO	2.0	3.0
376.012	Systems in Automation	VU	4.0	6.0

<i>Second Semester</i>				
Number	Title	Type	Hours	ECTS
372.025	Electrical Machines	VO	2.0	3.0
373.011	Energy Modelling and Analysis	VU	3.0	4.5
373.016	EMC and Power Quality	VU	2.0	3.0
374.000	High Voltage Technology	VO	2.0	3.0
372.022	Laboratory Exercises on Electrical Drives	UE	3.0	4.5

<i>Third Semester</i>				
Number	Title	Type	Hours	ECTS
372.015	EMC-optimized Circuit Design	UE	2.0	3.0
373.019	Power Supply Laboratory	UE	3.0	4.5

<i>Fourth Semester</i>				
Number	Title	Type	Hours	ECTS
-	Diploma Thesis			30.0
misc.	Diploma Thesis Seminar	SE	2.0	3.0

Elective Courses

Two of the following concentration blocks – consisting of a combination of VU and SE – must be chosen.

Elective Courses				
Number	Title	Type	Hours	ECTS
372.029	Electrical Drives, Concentration	VU	4.0	7.0
372.030	Seminar Electrical Drives	SE	3.0	5.0
376.014	Automation, Concentration	VU	4.0	7.0
376.015	Seminar Automation	SE	3.0	5.0
372.016	Power Electronics and EMC, Concentration	VU	4.0	7.0
372.017	Seminar Power Electronics and EMC	SE	3.0	5.0
373.014	Power Supply, Concentration	VU	4.0	7.0
373.015	Seminar Power Supply	SE	3.0	5.0
373.020	Energy Economics, Concentration	VU	4.0	7.0
373.012	Seminar Energy Economics	SE	3.0	5.0
372.032	Electrical Machines and Devices, Concentration	VU	4.0	7.0
372.026	Seminar Electrical Machines and Devices	SE	3.0	5.0

Free Elective Courses

Scientific courses of universities worldwide can be used for the required 9 ECTS of free elective courses. At least 4.5 ECTS of this course work must be in the field of soft skills.

Admission

Admission to this Master programme requires a bachelor degree in Electrical Engineering or in a closely related field. In the procedure of admission additional exams might be imposed on you, if the contents of your bachelor programme do not cover all prerequisites for the desired Master programme. Be aware that courses are held in German language!

Applications for admission are not submitted to the faculty but to the "Office of Studies and Records" of Vienna University of Technology. Information about the admission procedure and fees you can find at the Website

http://www.tuwien.ac.at/dienstleister/weitere/studien_und_pruefungsabteilung/
which contains a section in English for foreign students.