

Structure of postgraduate studies

Postgraduate studies in Advanced Composites and Robotics are organized as follows:

- One-year studies with total value of 60 ECTS
- Two-years studies with total value of 120 ECTS

Structure of one-year studies in advanced composites and robotics is given in the following Table 1:

Table 1. Structure of one-year studies in advanced composites and robotics

1. Year

Num. /mod.	Course	Credits	Winter semester	Summer semester
1.M1	Basic fixed	6	6	
2.M2	Basic fixed	6	6	
3.M3	Basic fixed	6	6	
4.M4	Specific elective 1	6	6	
5.M5	Specific elective 2	6	6	
6. M6	Basic fixed	6		6
7. M7	University's elective course 1	4		4
8. M8	Master's thesis	20		20
	Total Credits	60	30	30

For the Two-year studies students' tuition is with duration of two years, according to the model presented in the following Table 2:

Table 2. Structure of two-year studies in advanced composites and robotics

1. Year

Num. /mod.	Course	Credits	Winter semester	Summer semester
1.M1	Basic fixed	6	6	
2.M2	Basic fixed	6	6	
3.M3	Basic fixed	6	6	
4.M4	Specific elective 1	6	6	
5.M5	Specific elective 2	6	6	
6. M6	Basic fixed	6		6
7. M7	University's elective course 1	4		4
8. M8	Independent research	20		20
	Total Credits	60	30	30

2. Year

Num. /mod.	Course	Credits	Winter semester	Summer semester
9. M 9	Independent research	30	30	
10.M10	Master's thesis	30		30
	Total credits	60	30	30

Specificity of these studies is the combination of two research areas: Composites and Robotics. That's why it is decided these two areas to be included in the basic fixed part, so that the students could acquire knowledge and qualifications for research work in both areas. In the specific part, students would have a chance to choose one of the two study program for further specialization:

- One-year studies with total value of 60 ECTS
- Two-years studies with total value of 120 ECTS

The following knowledge modules that should qualify the student for successful attendance of tuition and research are defined:

- M1 Module is oriented of mechanical of composite anisotropic materials – one course valued with 6 credits
- M2 Module is oriented toward products, innovation and quality development – one course valued with 6 credits.
- M3 Module of basic knowledge in composite materials- one course valued with 6 credits.
- M4 Module for specific knowledge in composite materials one course valued with 6 credits (from 2 elective courses offered)
- M5 Module for specific knowledge in DOE and experiments, mathematical model in experiments – one course valued with 6 credits (from 3 elective courses offered)
- M6 Module for basic knowledge in Automatic and Robotics - one course valued with 6 credits.
- M7 Module for basic DOE - one course valued with 4 credits (from 3 elective courses offered)
- M8 Module for Master's Thesis with total value of 20 credits for One-year studies
- M8 and 9 Module for Independent research with total value of 20 +30 credits for Two-year studies
- M10 Module for Master's Thesis with total value of 30 credits for Two-year studies

For students with two-year studies there's more and more experimental studies and independent research parts. Modules from 1 to 7 are the same for both studies.