

# Postgraduate Study Programme

## Innovation and Industrial Engineering

Year 1.

Subject [abbreviation]	Guarantee department	Semester		Number of credits
		Winter 14 weeks	Summer 14 weeks	
<b><u>Obligatory subjects</u></b>				
Innovation Engineering	KST	2+2 ex		6
Principles of Product Design	KST	2+2 ex		5
Technical Communication	KST	2+2 cc		3
Engineering Materials	KMT	2+0 ex		3
Artificial Intelligence	KSA	2+2 ex		5
Industrial Engineering	KST		2+2 ex	6
Information Systems of Production Planning and Control (ISRPP)	KSA		2+2 ex	4
Experimental Methods (EXM)	KST		2+2 ex	4
Project I	KST		0+4 cc	3
Internship	KST		1 týden c	3
Field trip	KST		3 týdny c	5
<b><u>Obligatory eligible subjects – group 1<sup>1)</sup></u></b>				
CA Technology	KST	2+2 ex		4
Operation Analysis	KSA	2+2 ex		4
Programming Languages (PJ)	KSA			
<b><u>Obligatory eligible subjects – group 2<sup>2)</sup></u></b>				
Automatic Control Theory	KSA		2+2 ex	5
Programming and Servicing of CNC Machines	KSA			
Programmable Logic Systems	KSA			
summary of credits		30	30	<b>60</b>
summary of ex and cc		6ex, 1cc	4ex, 1cc	

### Abbreviation:

2+2	number of lectures and exercises weekly
ex	examination
cc	classified credit
c	credit

### Notes

<sup>1)</sup> Students choose one of the subjects according to the topic and the department of the Diploma Thesis.

# Postgraduate Study Programme

## Innovation and Industrial Engineering

## Year 2.

Subject [abbreviation]	Guarantee department	Semester		Number of credits
		Winter 14 weeks	Summer 10 weeks	
<b><u>Obligatory subjects</u></b>				
Digital Factory	KSA	2+2 ex		5
Additive Technology (ADIT)	KSA	2+2 ex		5
3D Digitization and Reverse Engineering	KSA	2+2 ex		4
Robots and Manipulators (ROBM)	KSR	2+2 ex		5
Project II	KST	0+4 cc		4
Diploma Thesis 1	Kat.	0+2 cc		2
Project Management (RIP)	KST		2+2 ex	4
Theory of Inventive Problem Solving	KST		2+2 ex	4
Teamwork Techniques	KST		1+1 cc	2
Diploma Thesis 2	Kat.		0+6 c	5
Diploma Thesis 3	Kat.		0+16 c	11
<b><u>Obligatory eligible subjects – group 3<sup>1)</sup></u></b>				
Metrology (MET)	KOM	2+2 ex		5
Calculations of Polymer and Composite Parts (VPKD)	KST			
<b><u>Obligatory eligible subjects – group 4<sup>1)</sup></u></b>				
Technical Diagnostics (TD)	KVM		2+2 ex	4
Instrumentation and Measurement Equipments	KTS			
summary of credits		30	30	<b>60</b>
summary of ex and cc		5ex,2cc	3ex,1cc	

### **Abbreviation:**

2+2	number of lectures and exercises weekly
ex	examination
cc	classified credit
c	credit

### **Notes**

<sup>1)</sup> Students choose one of the subjects according to the topic and the department of the Diploma Thesis.