1.	Field of study	Computer Science
2.	Academic year of entry	2017/2018 (summer term), 2018/2019 (summer term)
3.	Level of qualifications/degree	second-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time

Module: Activation of application on computing cluster

Module code: 08-IN-IIN-S2-UANKO

1. Number of the ECTS credits: 2

2. Learning outcomes of the module

code	description	learning outcomes of the programme	level of competence (scale 1-5)
UANKO _K_1	Student understands the need of constant education and is aware of responsibility for his own work and work of his team.	K_2_A_I_K01 K_2_A_I_K03	1 1
UANKO _K_2	Student should possess the skill to solve physical and technical problems independently, or in a team using acquired knowledge and practical skills.	K_2_A_I_K03	1
UANKO _U_1	Student can compile and activate application parallel on the computing cluster.	K_2_A_I_U14	1
UANKO _U_2	Student can create parallel tasks (distributed job). Performs problem graduation – activation of application on a cluster.	K_2_A_I_U03 K_2_A_I_U14	1 1
UANKO _W_1	Student has knowledge in the field of computing clusters and technology of their construction. Can discuss systems of files used in clusters, can compare clusters. Student knows the basic constructions in parallel programming.	K_2_A_I_W04 K_2_A_I_W07	1 1

3. Module description

Description	Aim of classes in this module is presenting the basic concepts of computing clusters functioning. The idea of computing cluster and difference of cluster and the idea of workstation are discussed. During the classes, the teacher explains clusters division according to their purpose and according to architecture. Features of cluster software are discussed.
Prerequisites	

4. Assessment of the learning outcomes of the module

code	type	description	learning outcomes of the module
UANKO _w_1	Control tests	Checking level of preparation for work using the computing cluster.	UANKO _U_1, UANKO _U_2, UANKO _W_1
UANKO _w_2	Group project	Executing a project covering issue of activating application on the computing cluster.	UANKO _K_1, UANKO _K_2, UANKO _U_1, UANKO _U_2

5. Forms of teaching

code	form of teaching			required hours of student's own work		assessment of the learning outcomes of the module
	type	description (including teaching methods)	number of hours	description	number of hours	
UANKO _fs_1	laboratory classes	Detailed preparation of the students to solve tasks indicating procedure methodology, indicating sequence of proceedings.	30	Realization of the program in virtual environment at home or using the computers made available by the Department to students for individual work.	30	UANKO _w_1, UANKO _w_2