

PhD program in Hydrology (2013)

The total minimum required number of credits:	104 credits
- Coursework:	24 credits
+ Basic courses:	12 credits
• Required:	06 credits
• Elective:	06/18 credits
+ Advanced foreign languages for academic purposes:	04 credits
+ Advanced courses:	06/12 credits
+ Overview:	02 credits
- Research	
- PhD Thesis:	80 credits

Available curriculum :

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I	Part 1. Coursework						
I.1	Basic courses						
I.1.1	Required		6				
1	HMO8032	Systems analysis	3	15	15	15	
2	HMO8039	Modern hydrological problems	3	15	15	15	
I.1.2	Elective		6/18				
3	HMO8033	Water hazards and mitigation measures	3	15	15	15	
4	HMO8034	Integrated river basin management	3	15	15	15	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
5	HMO8035	Policies for development of water resource and renewable energy	3	15	15	15	
6	HMO8036	Water quality management and mitigation measures for water resource pollution	3	15	15	15	
7	HMO8037	Development of GIS technologies in hydraulic /hydrological problems	3	15	15	15	
	HMO8038	Hydrology of special media	3	15	15	15	
I.2	Advanced foreign languages for academic purposes (<i>choose one of languages below</i>):		4				
8	ENG 8001	English	4	0	0	60	
	RUS 8001	Russian	4	0	0	60	
	FRE 8001	French	4	0	0	60	
	WES 8001	German	4	0	0	60	
	CHI 8001	Chinese	4	0	0	60	
I.3	Advanced courses		6/12				
9	HMO8040	Climate change impacts on water resource and water related disasters	3	15	15	15	
10	HMO8041	Watershed soil losses and river deformation	3	15	15	15	
11	HMO8042	Improvement of hydrological/hydraulic models and forecast technologies	3	15	15	15	
12	HMO8043	Reservoir system	3	15	15	15	
I.4	Overview		2				
13	HMO8031	Overview	2	0	0	30	
II	Part 2. Research (research planning, publishing ...)						
III	Part 3. Doctoral Thesis						
14	HMO9002	Doctoral Thesis	80				

No	Code	Subjects	Credits	Credit hours			Prerequisite
				<i>Lecture</i>	<i>Practice</i>	<i>Self-study</i>	
		Total	104				