

Standard Master program in Hydrology

(Dated October 29th, 2015)

The total minimum required number of credits:	64 credits
- General courses (required):	07 credits
- Fundamental and core courses:	39 credits
+ Required:	15 credits
+ Elective:	24/57 credits
- Master thesis:	18 credits

Available curriculum

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I		General courses	7				
1	PHI 5001	<i>Philosophy</i>	3	30	15	0	
2	ENG5001	<i>General English</i>	4	30	30	0	
II		Fundamental and core courses	39				
II.1		Required	15				
3	ENG6001	<i>English for academic purposes</i>	3	15	15	15	ENG 5001
4	HMO6031	<i>Water Resource System Analysis</i>	3	15	15	15	
5	HMO6032	<i>Simulation of hydrological processes</i>	3	15	15	15	
6	HMO6039	<i>Seminar</i>	3	15	15	15	
7	HMO6040	<i>Advanced Flood Forecast</i>	3	15	15	15	
II.2		Elective	24/57				

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
8	HMO6033	<i>Open Channel Hydraulics</i>	3	15	15	15	
9	HMO6034	<i>Water Resource Planning and Management</i>	3	15	15	15	
10	HMO6035	<i>Land and water risks management</i>	3	15	15	15	
11	HMO6036	<i>Water Quality Modelling</i>	3	15	15	15	
12	HMO6037	<i>Ground water modeling</i>	3	15	15	15	
13	HMO6038	<i>Responses to climate change in water resource development</i>	3	15	15	15	
14	HMO6044	<i>Water quality risk and control</i>	3	15	15	15	
15	HMO6045	<i>Coastal and Estuarine Processes</i>	3	15	15	15	
16	HMO6041	<i>Computational Methods in Hydrology</i>	3	15	15	15	
17	HMO6042	<i>Flow Regulation and Hydropower for Reservoirs System</i>	3	15	15	15	
18	HMO6043	<i>Calculation of Probable Maximum Precipitation and Flood</i>	3	15	15	15	
19	HMO6003	<i>Climatology and Climate Change</i>	3	15	15	15	
20	HMO6048	<i>Urban Drainage Management</i>	3	15	15	15	
21	HMO6049	<i>Hydrology and Hydraulics</i>	3	15	15	15	
22	HMO6050	<i>Ocean wave dynamics</i>	1	15	15	15	
23	HMO6051	<i>Environmental Fluid Mechanics</i>	3	15	15	15	
24	HMO6052	<i>Computational Hydraulics</i>	3	15	15	15	
25	HMO6053	<i>Simulation of fluid flow</i>	3	15	15	15	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
26	HMO6054	<i>Sediment transportation</i>	3	15	15	15	
III	HMO7202	Master thesis	18				
		Total	64				