Curriculum

Master of Science (MSc) in Water

MODUL	1 AFRICAN AND GLOBAL CONTEXT	2 WATER FLOW ENGINEERING / WATER SCIENCE AND ENGINEERING	3 WATER QUALITY AND ENGINEERING	4 MANAGEMENT OF WATER RESOURCES	5 MANAGEMENT OF WATER USES	6 RESEARCH AND PROJECT MANAGEMENT	7 METHODS AND TOOLS	8 SKILLS
SEMESTER 4				Master Thesis				
SEMESTER 3		Hydrology		Water Economics	*Students choose two electives (Policy or Common Across Tracks)*: *Elective: Law and Policy of Water for Agriculture*; *Elective: Law and Policy of Water Quality and Sanitation*; *Elective: Water for Agriculture 1: Irrigation Techniques and Drainage*; *Elective: Water Quality and Sanitation 1: Water Quality and Environmental Health*		Physical Instrumentation and Measurement; Applied Numerical Analysis and Modeling; Geographical Information Systems; Policy Influencing and Conflict Management	Entrepreneurship and Intrapreneurship
				Soil Conservation	*Students choose two electives (Engineering or Common Across Tracks)*: *Elective: River Basin Management 1: Management of Extremes (Draughts and Flooding)*; *Elective: River Basin Management 2: Management of Transboundary Water Resources*; *Elective: Water for Agriculture 2: Irrigation Project Design*; *Elective: Water Quality and Sanitation 2: Networks versus Decentralized Solutions*			
SEMESTER 2	Human Rights and Gender	Hydraulics; Hydrogeology	Sanitation and Water Treatment	Soil Conservation; Policy Analysis for Water Resource Management		Research Methods for Water Engineering; Methods for Policy Research	Databases, Indicators, and Statistical Analysis; Geographical Information Systems	Communication Marketing, Networking
SEMESTER 1	History of Africa; African Water Resources and Scenarios	Fluid Mechanics; Hydrology; Fundamentals of Water Science and Engineering (Fluid Mechanics, Water Chemistry and Microbiology, Hydraulics)	Water Quality	Introduction to Integrated Water Resource Management		Project Design and Management	Introduction to Policy Analysis	Academic Writing

Engineering Track · Policy Track · Common Across Tracks