

# Curriculum

## Master of Science (MSc) in Energy

MODUL	1	2	3	4	5	6	7
	AFRICAN AND GLOBAL CONTEXT	ENERGY SCIENCE AND ENGINEERING ENERGY POLICY	ENERGY ECONOMICS, POLICY, AND MANAGEMENT	ENERGY TECHNOLOGIES, SYSTEMS AND APPLICATIONS ENERGY TECHNOLOGIES A. TRANSITION MANAGEMENT	RESEARCH AND PROJECT MANAGEMENT	METHODS AND TOOLS	SKILLS
SEMESTER 4	Master Thesis						
SEMESTER 3		Ethics and Leadership	Energy Efficiency and Demand Side Management	Hybrid Systems		Instrumentation	Entrepreneurship and Intrapreneurship
				<i>Elective: Solar Thermal</i> <i>Elective: Solar Photovoltaic</i> <i>Elective: Wind Energy</i> <i>Elective: Hydro and Maritime Energy</i> <i>Elective: Bio-Energy</i> <i>Elective: Geothermal Energy</i>			
SEMESTER 3				Renewable Energy Policy and Planning		Externalities / Impact Analysis	
				<i>Elective: Development of Renewable Energy Systems (grid)</i> <i>Elective: Development of Renewable Energy Systems (non-grid)</i> <i>Elective: Rural Energy Supply</i> <i>Elective: Urban Energy Supply</i>			
SEMESTER 2	Human Rights and Gender	Energy Conversion and Storage	Energy Economy, Finance and Management	Energy for Sustainable Development	Research Methods for Energy Engineering	Externalities / Impact Analysis	Communication Marketing, Networking
		Material Science					
SEMESTER 2		Policy Analysis for Energy			Methods for Policy Research	Energy Modeling and Simulation for Policy Analysis	
SEMESTER 1	History of Africa	Introduction to Energy		Introduction to Energy	Project Design and Management	Introduction to Policy Analysis	Academic Writing
		Renewable Energy Technologies					
SEMESTER 1	African Energy Resources and Scenarios	Thermal Science and Engineering Applications					
		Energy for Sustainable Development					

■ Engineering Track
 ■ Policy Track
 ■ Common Across Tracks