Faculty of Building Services, Hydro and Environmental Engineering
Warsaw University of Technology

Environment Protection Engineering (EPE)
MSc degree program

Year 1		Year 2	
Semester 1	**Semester 2**	**Semester 3**	**Semester 4**
Searching and Sharing of Knowledge (HES) (30T; 2 ECTS)	**Geostatistics** (30L, 15T; 3 ECTS)	**Environmental Physics** (30L, 15C; 3 ECTS)	**Land Reclamation and Development** (15L, 15Lab, 15P; 3 ECTS)
Sustainable Development and Management (HES) (15L, 30P; 3 ECTS)	**Air Pollution Control** (30L, 15P; 3 ECTS)	**Global Climate Change** (30L, 15C; 3 ECTS)	**Environmental Risk Assessment** (30L, 15Lab; 3 ECTS)
Reliability, safety and risk of engineering systems (30T; 2 ECTS)	**Biological Techniques for Environmental Monitoring** (30L, 15Lab; 3 ECTS)	**Pro-ecological Technologies** (15L, 30P; 3 ECTS)	**Alternative Energy Sources** (15L, 30P; 3 ECTS)
Computational Methods in Environmental Engineering (30L, 15C; 3 ECTS)	**Environmental Chemistry II** (30L, 30Lab; 4 ECTS)	**Introduction to Remote Sensing of Environment** (15L, 30C; 3 ECTS)	**Energy Systems Modelling and Optimizationt** (30L, 15C; 3 ECTS)
Environmental Fluid Mechanics (30L, 15C; 3 ECTS)	**Scientific Programming and Data Analysis** (60C; 4 ECTS)	**Elective Courses** (90 hours.; 6 ECTS)	**Elective Courses** (90 hours.; 6 ECTS)
Surface Water Protection (30L, 15P; 3 ECTS)	**Spatial Data Analysis** (15L, 30C; 3 ECTS)	**Diploma Seminar** (15T; 1 ECTS)	
Principles of Soil Diagnostic Techniques (15L, 15P, 15C; 3 ECTS)	**Groundwater Protection** (15L, 30P; 3 ECTS)	**Internship** (4 weeks; 6 ECTS)	
Acquisition and Management of Environmental Data (30L, 15C; 3 ECTS)	**Municipal Solid Waste Treatment Technology** (30L, 15P; 3 ECTS)	**MSc Diploma** (20 ECTS)	
Monitoring of Environment (15L, 15P; 2 ECTS)	**rrigation and Drainage** (15L, 30P; 3 ECTS)		
Applied Climatology (30L, 15C; 3 ECTS)			
Total ECTS in semester: 27 **Total hours in semester: 405**	**Total ECTS in semester: 29** **Total hours in semester: 435**	**Total ECTS in semester: 32** **Total hours in semester: 285**	**Total ECTS in semester: 32** **Total hours in semester: 285**

LEGEND:
L = Lecture
T = Tutorials
Lab = Laboratory
P = Project

HES Courses
(Number of hours in semester Type of classes; ECTS)

Core Courses
(Number of hours in semester Type of classes; ECTS)

Elective Courses
(Number of hours in semester Type of classes; ECTS)

Elective Courses (*2 of 8*)	**Elective Courses (*2 of 7*)**
Forecasting of Meteorological Hazards (15L, 30P; 3 ECTS)	**Advanced Chemical Wastewater Treatment Methods** (15L, 30Lab; 3 ECTS)
Biological Hazards and Biodeterioration in Environmental Engineering (15L, 30T; 3 ECTS)	**Advanced Biological Methods of Wastewater Treatment** (15L, 30T; 3 ECTS)
Odour Abatement Techniques (15L, 15Lab, 15P; 3 ECTS)	**Elements of Circular Economy in Environmental Engineering** (15L, 30P; 3 ECTS)
Environment Protection in Transport Systems (15L, 15T, 15P; 3 ECTS)	**Rationalization of Heat and Energy Use** (15L, 30P; 3 ECTS)
Data Bases (15L, 30C; 3 ECTS)	**Remote Sensing Imagery Processing** (15L, 30C; 3 ECTS)
Energy Audit of Buildings and Industry (15L, 30P; 3 ECTS)	**Urban Climate - Adaptation and Planning** (15L, 30P; 3 ECTS)
Integrated Waste Management in Urban Areas (15L, 30P; 3 ECTS)	**Planning and Management of Water Resources Systems** (15L, 30P; 3 ECTS)
Water safety planning (15L, 30T; 3 ECTS)	