Master Degree in Environmental Process Engineering

1st year

Fall Semester

Courses	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Water Chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
Atmospheric Pollution	4	2	1h30	1h30		45h00	55h00	40%	60%
Fluid-Fluid Unit Operations (extraction, distillation, absorption, and stripping)	6	3	3h00	1h30		67h30	82h30	40%	60%
Heat Exchangers	4	2	1h30	1h30		45h00	55h00	40%	60%
Lab Work for Water Chemistry	2	1			1h30	22h30	27h30	100%	
Lab Work for Fluid-Fluid Unit Operations	2	1			1h30	22h30	27h30	100%	
Lab Work for Heat Exchangers	2	1			1h30	22h30	27h30	100%	
Process Engineering Simulators	3	2	1h30		1h00	37h30	37h30	40%	60%
Elective Subject 1	1	1	1h30			22h30	2h30		100%
Elective Subject 2	1	1	1h30			22h30	2h30		100%
Technical English and Terminology.	1	1	1h30			22h30	2h30		100%
Total	**30**	**17**	**13h30**	**6h00**	**5h30**	**375h00**	**375h00**		

Spring Semester

Courses	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Drinking Water Production	6	3	3h00	1h30		67h30	82h30	40%	60%
Solid Waste Management and Treatment	4	2	1h30	1h30		45h00	55h00	40%	60%
Adsorption Processes and Membrane Separation	4	2	1h30	1h30		45h00	55h00	40%	60%
Physico-Chemical Treatment of Wastewater	4	2	1h30	1h30		45h00	55h00	40%	60%
Porous and Dispersed Media	3	2	1h30	1h00		37h30	37h30	40%	60%
Lab Work for Water Treatment and Adsorption Processes and Membrane Separation	2	1			1h30	22h30	27h30	100%	
Treatment and Conditioning of Process Water	4	2	1h30	1h30		45h00	55h00	40%	60%
Elective Subject 3	1	1	1h30			22h30	2h30		100%
Elective Subject 4	1	1	1h30			22h30	2h30		100%
Compliance with Standards and Rules of Ethics and Integrity.	1	1	1h30			22h30	2h30		100%
Total	**30**	**17**	**15h00**	**8h30**	**1h30**	**375h00**	**375h00**		

2nd year

Spring Semester

Courses	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Theoretical Foundations and Biological Treatment of Wastewater	4	2	1h30	1h30		45h00	55h00	40%	60%
Treatment of Gaseous Effluents	4	2	1h30	1h30		45h00	55h00	40%	60%
Technical Thermodynamics	4	2	1h30	1h30		45h00	55h00	40%	60%
Multiphase Reactors and Bioreactors	6	3	3h00	1h30		67h30	82h30	40%	60%
Lab Work for Biological Wastewater Treatment/Bioreactors	2	1			1h30	22h30	27h30	100%	
Process Intensification	2	1	1h30			22h30	27h30		100%
Treatment of Polluted Soils	2	1	1h30			22h30	27h30		100%
Experimental Design	3	2	1h30		1h00	37h30	37h30	40%	60%
Elective Subject 5	1	1	1h30			22h30	2h30		100%
Elective Subject 6.	1	1	1h30			22h30	2h30		100%
Documentary Research and Thesis Design.	1	1	1h30			22h30	2h30		100%
Total	**30**	**17**	**16h30**	**6h00**	**2h30**	**375h00**	**375h00**		

Spring Semester of the 2nd year is dedicated to thesis and dissertation.