

## Courses belonging to Master's programme in Industrial Ecology, 90 ECTS

The program is for students with previous education 4 and 5 years, (Dipl. Ing.).

The program consist of 60 ECTS credits courses plus thesis 30 ECTS credits, total minimum of 90 ECTS credits.

### Obligatory and Optional Master Courses

Name	SEM.	ECTS		
<b>OBLIGATORY</b>				
<b>1. Introduction Industrial Ecology</b>	<b>1</b>	<b>6</b>	Prof. dr. Šefko Šikalo, Prof. dr. Nils Brandt, KTH	Lec. 12h, Sem. 8h, Project, S. visit 4h
<b>2. Ecology</b>	<b>1</b>	<b>6</b>	Prof. dr. Sulejman Redžić, Prof. dr. Fredrik Gröndahl, KTH	Lec. 21h, Tut. 4h, Field work 8h
<b>3. Environmental Management</b>	<b>1</b>	<b>6</b>	Prof. dr. Lennart Nilson, KTH, dr. Ibrahim Busuladžić	Lec. 10h, Sem. 12h
<b>4. Environmental System Analysis</b>	<b>1</b>	<b>6</b>	Prof. dr. Mugdim Pašić, Prof. dr. Sead Delalić, Prof. dr. Sabit Begić, Prof. dr. Ronald Wennersten, KTH	Lec. 16h, Tut. 8h, Lab. 6h
<b>5. Risk Management</b>	<b>1</b>	<b>6</b>	Prof. dr. Aleksandar Knežević, Prof. dr. Izet Bijelonja, Prof. dr. Ronald Wennersten, KTH	Lec. 16h, Tut. 15h
<b>sum</b>		<b>30</b>		
<b>6. Waste Management</b>	<b>2</b>	<b>6</b>	Docent dr. Adisa Vučina, Docent dr. Majda Čohodar, Prof. dr. Monika Ohlsson, KTH	Lec. 18h; S. visit 4; Assignments 4; Project work
<b>7. Cleaner Production</b>	<b>2</b>	<b>6</b>	Prof. dr. Ejub Džaferović, Prof. dr. Izet Smajević, Docent dr. Zora Pilić, Prof. dr. Lennart Nilson, KTH	Lec. 14h, Sem. 9 h
<b>8. Research Methodology and Theory of Science</b>	<b>2</b>	<b>6</b>	Prof. dr. Vlatko Doleček, Prof. dr. Izet Smajević, Prof. dr. Ronald Wennersten, KTH	Lec. 12h, Sem. 8 h
<b>9. Environmental Technology</b>	<b>2</b>	<b>6</b>	Prof. dr. Šefko Šikalo, Prof. Per Olof Persson, KTH	Lec. 24h, Sem. 12h
<b>ELECTIVE COURSES (1 course)</b>				
<b>10. Sustainable Energy Technology</b>	<b>2</b>	<b>6</b>	Prof. dr. Alija Lekić, Prof. dr. Mujo Hebibović, Lecturer MSc. Nijaz Delalić, Prof. dr. Ronald Wennersten, KTH	Lec. 10h, Tut. 10h, S. visit 4h
<b>11. Environmental Modelling: Chem. Phys. Fundamentals</b>	<b>2</b>	<b>6</b>	Prof. dr. Rajfa Musemić, Docent dr. Aida Šapčanin, Prof. dr. Maria Malmström, KTH	Lec. 24h; Tut. 24h; S. visit 4h
<b>sum</b>		<b>60</b>		
<b>Thesis 30 ECTS</b>	<b>3</b>	<b>30</b>		5-6 months
<b>Total minimum ECTS</b>		<b>90</b>		

### Year 2/Semester 1 - Master's thesis work, 30 ECTS credits

After completing the course work block, every student starts to work with a thesis project. The thesis project may be carried out either in an academic environment in a public or in an industrial setting. Students are highly recommended to try to find relevant thesis project related to important sustainability topics in their home countries.