

## MSc in Industrial Toxicology and Risk Assessment, program curriculum (English program)

<b>Total curriculum credits</b>		<b>43 credits</b>
Duration 2 years		
<b>Curriculum structure</b>		
<b>Coursework credit</b>		<b>25 credits</b>
Required courses	17 credits	
Elective courses	8 credits	
<b>Thesis credit</b>		<b>18 credits</b>

### Courses offered

#### Foundation courses

For an applicant who does not hold a bachelor degree in Environmental Science must take below foundation courses and complete them for S or U grading or under the judgment of curriculum board.

2308500 Applied Environmental Toxicology	3(3-0-9)
2308502 Environmental and Community Impact Assessment	3(3-0-9)
2308508 Detection of Industrial Pollutants and Monitoring to Community Effects	3(3-0-9)

#### Required courses 17 credits

2308520 Applied Toxicology for Industrial Environment	3(3-0-9)
2308521 Applied Ecotoxicology for Industry	2(2-0-6)
2308522 Risk Assessment for Industrial Environment	3(3-0-9)
2308601 Research Methodology	2(2-0-6)
2308602 Analysis of Industrial Toxic Agents	1(0-3-0)
2308701 Seminar I	S/U
2308702 Seminar II	S/U

#### Required courses by choosing 2 of 3 courses below

2308504 Environmental Sanitation	3(3-0-9)
2308506 Essential Epidemiology for Environmental Scientists	3(3-0-9)
2308509 Toxicological Hazards in Industrial Environment	3(3-0-9)

#### Elective courses 8 credits

2308501 Exposure Evaluation and Control in Work Environment	3(3-0-9)
2308503 Current Issues in Environmental Management	3(3-0-9)
2308505 Social Impact Assessment for Environmental Scientists	3(2-3-4)
2308507 Journal Club in Chemical Safety and Toxicology	1(1-0-3)
2308510 Air Pollution Management	3(3-0-9)

2308511	Noise and Vibration Control	3(3-0-9)
2308512	Wastewater Research and Innovation	3(3-0-9)
2308513	Advance Solid Waste Management	3(3-0-9)
2308514	Hazardous Waste Management	3(3-0-9)
2308523	Aquatic Toxicology and Risk Assessment	3(3-0-9)
2308526	Risk Communication and Perception	3(2-3-4)
2308527	Advanced Industrial Pollutant Toxic Impact Assessment	2(2-0-6)
2308528	Environmental Modelling and Application	3(3-0-9)
2308558	Applied Biostatistics for occupational Health, Safety and Environment	3(2-2-8)
2308560	Hazard and Emergency Management in Workplace	3(3-0-9)
2308603	Special Topics in Industrial Toxicology	2(2-0-6)

In addition to the above courses, students may take other graduate courses of the Department of Environmental Science with the approval of the curriculum board.

#### Thesis

2308813	Thesis	18 credits
---------	--------	------------

#### Study plan

Year 1, first semester		credits
2308500	Applied Environmental Toxicology <sup>1</sup>	S/U
2308502	Environmental and Community Impact Assessment <sup>1</sup>	S/U
2308508	Detection of Industrial Pollutants and Monitoring to Community Effects <sup>1</sup>	S/U
2308520	Applied Toxicology for Industrial Environment	3
2308701	Seminar 1	S/U
2308xxx	Required course	3
<b>total</b>		<b>6</b>
Year 1, second semester		
2308521	Applied Ecotoxicology for Industry	2
2308522	Risk Assessment for Industrial Environment	3
2308601	Research Methodology	2
2308602	Analysis of Industrial Toxic Agents	1
2308702	Seminar 2	S/U
2308xxx	Required course	3
2308xxx	Elective course	3
<b>Total</b>		<b>14</b>
Year 2, first semester		

2308xxx	Elective course	5
2308813	Thesis	6
<b>Total</b>		<b>11</b>
<b>Year 2, second semester</b>		
2308813	Thesis	12
<b>Total</b>		<b><u>12</u></b>
<b>Total credits of the program</b>		<b><u>43</u></b>

<sup>1</sup> Foundation courses for students who did not hold a bachelor degree in Environmental Science or do not have sufficient essential knowledge judged by the faculty program committee. These courses are grading for S or U.