

# Catalog of Postgraduate Programs and Curricula

## Curriculum for MSc(EVNG) (For students admitted in 2010-11)

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### Program Requirements for Master of Science (MSc) Program in Environmental Engineering

#### Credits

To complete a **minimum of 30 credits** of relevant coursework approved by the Program Director, including at least 15 credits of foundation courses from the list below.

#### Courses

1. Foundation courses (at least 15 credits)

CIVL	4460	<i>Process Design of Environmental Engineering Facilities</i>
IBTM	5330	<i>Energy Management in Buildings</i>
IBTM	5430	<i>Indoor Air Quality Technology and Management</i>
JEVE	5260 <sup>(1)</sup>	<i>Air Pollution Meteorology</i>
JEVE	5310 <sup>(2)</sup>	<i>Measurement of Air Pollutants</i>
JEVE	5320 <sup>(3)</sup>	<i>Water Quality and Assessment</i>
JEVE	5410	<i>Risk Assessment and Contaminated Land Cleanup</i>
JEVE	5420 <sup>(4)</sup>	<i>Biological Waste Treatment</i>
JEVE	5430 <sup>(5)</sup>	<i>Solid Waste Landfill Engineering Design</i>
JEVE	5460 <sup>(6)</sup>	<i>Design and Management of Physico/Chemical Processes of Environmental Engineering</i>
JEVE	5470	<i>Industrial Wastewater Treatment</i>
JEVE	5480	<i>Wastewater Treatment and Reuse</i>
JEVE	5490	<i>Modeling of Biological Treatment</i>
JEVE	5760	<i>Advanced Physico-Chemical Treatment Processes</i>
JEVE	5810	<i>Pollution Prevention and Cleaner Production</i>
JEVE	5820	<i>Energy, Environment and Sustainable Development</i>
JEVE	5900	<i>Carbon Management for Sustainable Environment</i>

2. Elective courses

Pre-approved elective course list will be made available to students at the beginning of every term.

3. Other courses

Subject to the recommendation from the Program Director and approval from the course instructor, students may take a maximum of 6 credits of CIVL courses at 4000-level to meet the graduation requirement.

#### Notes:

1. JEVE 5260 can be substituted by IBTM 5230, MECH 5260 or MESF 5260.
2. JEVE 5310 can be substituted by CENG 5310.
3. JEVE 5320 can be substituted by CENG 5320.
4. JEVE 5420 can be substituted by CIVL 5420.
5. JEVE 5430 can be substituted by CIVL 5460.
6. JEVE 5460 can be substituted by CIVL 5410.

*Study Load*

Part-time students may take a maximum of 9 credits in each term.

*Credit Transfer*

Subject to the approval of the Program Director and regulations of the University, a maximum of 9 credits can be transferred from other institutions to the MSc program.