

## Curricular Structure and Course Cycle

<b>Semester I</b>		
<b>Course Code</b>	<b>Course Description</b>	<b>Credit Hours</b>
MSE 511	Introduction to Environmental and Sanitary Engineering.	3
MSE 512	Water Pollution Control Engineering	3
MSE 513	Public Health and Sanitation	3
MSE 514	Non-Sewer Sanitation System	3
	Elective I	3
		15
<b>Semester II</b>		
<b>Course Code</b>	<b>Course Description</b>	<b>Credit Hours</b>
MSE 551	Emergency Sanitation	3
MSE 552	Research Methodology in Sanitary Engineering	3
MSE 553	Engineering Design for Sanitary Structures	3
	Prescribed Course	3
	Elective II	3
		15
<b>Semester III</b>		
<b>Course Code</b>	<b>Course Description</b>	<b>Credit Hours</b>
MSE 611	Urban Drainage and Sewerage System	3
MSE 612	Engineering Project Management	3
MSE 613	Sanitation Financing	3
MSE 614	Environmental Impact Analysis	2
MSE 615	Project Work	4
		15
<b>Semester IV</b>		
<b>Course Code</b>	<b>Course Description</b>	<b>Credit Hours</b>
MSE 691	Research Thesis	15

**Note:** Students will write a thesis in the fourth semester. However, the thesis work must start from the beginning of third semester, which is in the form of Project.

### **Elective courses**

Initially, the following courses have been identified as electives, offering students the opportunity to specialize in their preferred field of study. These courses allow students to delve into in-depth topics such as sanitation, wastewater treatment, water supply systems, and environmental health, enabling them to align their studies with their career goals. By acquiring specialized knowledge and skills in high-demand areas like water and sanitation management, public health, and environmental engineering, students are better prepared for their desired careers. The university may offer additional elective options, subject to approval by the Subject Committee and the Dean.

<b>Elective I</b>	
<b>Course Code</b>	<b>Course Title</b>
MSE 541	Behaviour Change and Advocacy
MSE 542	Sanitation Services and Technology
MSE 543	Advanced Air Pollution Control Technology
MSE 544	Urban and Rural Systems and Sustainability

<b>Elective II</b>	
<b>Course Code</b>	<b>Course Title</b>
MSE 581	Advanced Sanitary Engineering
MSE 582	Governance in Sanitation
MSE 583	Sustainable Urban Water Environment
MSE 584	Sustainable Solid and Hazardous Waste Management

<b>Prescribed Course</b>	
<b>Course Code</b>	<b>Course Title</b>
MSE 561	Seminar