

Scheme of Studies

MSc Urban Infrastructure Engineering

Group-A: Core Courses

Course Code	Course Title	Credit Hours
UIE 5801	Water Supply Systems	3
UIE 5802	Sewerage Systems	3
UIE 5811	Application of GIS/RS for Urban Infrastructure Planning & Management	3
CE 5144	Solid Waste Management	3
ME 5398	Research Methodology*	3

* Research Methodology is mandatory for Plan-A only

Group-B: Optional Courses (Minimum two courses for Plan-A and four courses for Plan-B)

Course Code	Course Title	Credit Hours
CE 5117	Engineering Contracts & Tendering Process (Mandatory for Plan-B students)	3
UIE 5807	Urban Watershed Management	3
UIE 5814	Energy and Water Conservation Planning & Management	3
UIE 5818	Water, Sanitation and Hygiene in Emergencies	3
UIE 5805	Intelligent Transportation Systems	3
UIE 5806	Urban Traffic Management	3
UIE 5810	Transportation Planning	3
UIE 5816	Vehicular Traffic Flow Dynamics	3
UIE 5817	Pedestrian Traffic Flow Dynamics	3
UIE 5820	Application of Computational Tools in Research	3

Scheme of Studies

MSc Urban Infrastructure Engineering

UIE 5804	Computer-Aided Infrastructure Design, Construction & Management	3
UIE 5808	Infrastructure Condition Assessment	3
UIE 5809	Infrastructure Asset Management	3
UIE 5815	Dynamics of Urban Infrastructure Systems	3
UIP 5819	Sustainable Urban Infrastructure Planning & Management	3
UIE 5803	Operation and Maintenance of Bridges and Building Infrastructure	3
UIE 5812	Disaster Preparedness & Management	3
UIP 5824	Quantitative Methods & Statistics in Planning	3
UIE 5819	Advanced Statistics and Data Analysis*	3
UIE 5821	Climate Resilient Infrastructure	3
UIE 5890	Special Topics	3

A student may take maximum one course for Plan-A and two courses for Plan-B from other relevant programs with approval of the HoD

* UIP 5824 is pre-requisite for UIE 5819

Master Thesis

Course Code	Course Title	Credit Hours
UIE 5899	Master Thesis	6

Scheme of Studies

MSc Urban Infrastructure Planning & Management

Group-A: Core Courses

Course Code	Course Title	Credit Hours
UIP 5817	Urban Housing	3
UIP 5819	Sustainable Urban Infrastructure Planning & Management	3
UIE 5811	Application of GIS/RS for Urban Infrastructure Planning & Management	3
UIP 5826	Utility Financing & Service Delivery	3
ME 5398	Research Methodology*	3

* Research Methodology is mandatory for Plan-A only

Group-B: Optional Courses (Minimum two courses for Plan-A and four courses for Plan-B)

Course Code	Course Title	Credit Hours
CE 5117	Engineering Contracts & Tendering Process (Mandatory for Plan-B students)	3
UIP 5815	Land use Regulation & Enforcement	3
UIP 5816	Census Data Analysis & Policy Making	3
UIP 5818	Urban Economics & Real Estate Markets	3
UIP 5820	Infrastructure Utilities Planning	3
UIP 5821	Urban Development & Design	3
UIP 5822	Urban & Regional Planning	3
UIP 5823	Environmental Laws & Policy Making	3
UIP 5824	Quantitative Methods & Statistics in Planning	3
UIP 5825	Financing of Infrastructure Projects	3
UIP 5827	Urbanization and Urban Sprawl	3

Scheme of Studies

MSc Urban Infrastructure Planning & Management

UIE 5818	Water, Sanitation and Hygiene in Emergencies	3
UIE 5815	Dynamics of Urban Infrastructure Systems	3
UIE 5812	Disaster Preparedness & Management	3
UIE 5819	Advanced Statistics and Data Analysis*	3
UIE 5821	Climate Resilient Infrastructure	3
UIP 5890	Special Topics	3
A student may take maximum one course for Plan-A and two courses for Plan-B from other relevant programs with approval of the HoD		

* UIP 5824 is pre-requisite for UIE 5819

Master Thesis

Course Code	Course Title	Credit Hours
UIP 5899	Master Thesis	6