

**Institute of Construction Engineering**  
**Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)**

Program	Master's Program for the Day Division														
Group	None														
Class Type	Regular Class														
Special Program	None														
Curriculum Committee	Department Curriculum														
	College Curriculum														
	University Curriculum	112.05.29													
	Academic Affairs	112.05.29													
Graduation Credits /Study Duration	At least 30 credits required (plus 6 thesis credits), with a study period of 1-4 years; actual graduation credits based on the table below.														
Credit Load per Semester	The courses and credits required for each semester are determined by the respective departments (or institutes). However, during the first academic year, the total number of credits per semester must not be fewer than 6 credits and not exceed 18 credits.														
Required and Elective	Credits	Subject Category													
Required	8 Credits	Major Requirements (including Thesis)													
Elective	22 Credits	Major Elective													
Other Regulations															
Remarks	"Computer Course" means computer access is required (computer and internet usage fee).														
First Semester, First Year				Second Semester, First Year											
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours							
Major Required	M0J007	Seminar(1)	0/2		Major Required	M0J008	Seminar(2)	0/2							
Major Elective	M0JB23	Environmental Applied Geology	3/3		Major Elective	M0JA09	Nonlinear Behavior of Structures	3/3							
Major Elective	M0JA04	Advanced Reinforced Concrete	3/3		Major Elective	M0JA11	Advanced Structural Analysis	3/3							
Major Elective	M0JA06	Advanced Engineering Materials	3/3		Major Elective	M0JA14	Advanced Reinforced Concrete	3/3							
Major Elective	M0JA07	Applied Statistics	3/3		Major Elective	M0JA17	Advanced Asphalt Material	3/3							
Major Elective	M0JA24	Overseas Studies	2/2		Major Elective	M0JA20	Project Construction Management	3/3							
Major Elective	M0JA30	Advanced Material Mechanics	3/3		Major Elective	M0JA22	Structural Testing	3/3							
Major Elective	M0JA31	Advanced Topics in Environmental Engineering	3/3		Major Elective	M0JB06	Soil and Water Disaster Prevention Technique	3/3							
Major Elective	M0JB01	Advanced Soil Mechanics	3/3		Major Elective	M0JB10	In-situ Observation and Evaluation of Foundation Engineering	3/3							
Major Elective	M0JB02	Advanced Foundation Engineering	3/3		Major Elective	M0JB11	Reinforcement and Improvement of Soil	3/3							
Major Elective	M0JB03	Advanced Rock Mechanics	3/3		Major Elective	M0JB21	Shield Tunnel	3/3							
					Major Elective	M0JB22	Nondestructive Testing and Evaluation	3/3							
First Semester, Second Year				Second Semester, Second Year											
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours							

