

MASTER OF ENGINEERING (STRUCTURE) - MKAE

Code	Courses	Credits
UNIVERSITY COURSES (6 credits)		
UABA0013	Principle of Engineering Management	3
UAPA0013	Research Methodology	3
CORE COURSES (24 credit) - Choose 8 courses from the list offered in the MKAE program. At least 2 courses must be chosen from each of Group A, B and C		
CORE GROUPS A (Choose 2 courses)		
MKAE1013	Advanced Structural Analysis	3
MKAE1143	Finite Element Method	3
MKAE1163	Theory of Plate and Shell	3
MKAE1173	Structural Dynamics	3
MKAE1133	Advanced Mechanics of Materials	3
MKAE1203	Structural Reliability	3
CORE GROUPS B (Choose 2 courses)		
MKAE1073	Advanced Design of Steel Structures	3
MKAE1083	Advanced Design of Reinforced Concrete	3
MKAE1183	Design of Pre stressed Concrete	3
MKAE1193	Design of Precast Concrete	3
MKAJ1033	Advanced Foundation Engineering	3
CORE GROUPS C (Choose 2 courses)		
MKAE1043	Advanced Construction Materials	3
MKAE1153	Concrete Technology	3
MKAE1033	Structural Assessment & Repairs	3
MKAE1103	Experimental Method & Analysis	3
MKAE1053	Bridge Engineering	3
MKAE1093	Offshore Structures	3
MKAE1023	Analysis and Design of Structural System	3
MKAE1063	Tall Building System: Analysis and Design	3
MKAE1113	Earthquake & Wind Engineering	3
MKAE1123	Maintenance of Seismic Structures and Materials	3
MKAE1213	Fire Resistance of Structures	3
FREE ELECTIVE COURSES (6 credit)		
Choose any two (2) courses offered by other programmes, by other faculties, OR from the elective courses		
Master Project/ Disertasi (10 credits)		
MKAE1514	Master's Project I	4
MKAE1526	Master's Project II	6
TOTAL CREDITS		46

Duration of Study:

2 – 8 semester