



In His Name the Most High

**The program for Master of Science
In Aerospace Engineering-Aerospace Structures Design**

Course	Course no.	Min. units required
Advanced Mathematics 1	45510	3
Four courses from Table 1		12
Three courses from Table 2		9
MSc Thesis	45560	6
MSc Seminar or another course from Table 2	45600	2
Min. units required to complete the program		32

Table 1: Main Technical Courses

Course name	Course no.	Units
Continuum Mechanics	45520	3
Finite Element Method 1	45920	3
Advanced Structural Analysis	45905	3
Advanced Structural Design	45925	3

Table 2: Elective Technical Courses

Course name	Course no.	Units
Perturbations Theory	45525	3
Energy Methods	45530	3
Continuous System Vibrations	45531	3
Nonlinear Vibrations	45532	3
Advanced Dynamics	45545	3
Aeroelasticity	45910	3
Finite Elements 2	45921	3
Boundary Element Method	45923	3
Advanced Composite Materials	45930	3
Fracture, Fatigue & Creep	45935	3
Metallurgy in Manufacturing	45940	3
Advanced Machine Design	45945	3
Advanced Computational Dynamics	45946	3
Shell and Plate Theory	45947	3
Advanced Optimization	45950	3
Structural Dynamics	45955	3
Advanced Materials & Manufacturing Processes	45960	3
Viscoelasticity	45965	3
Jig and Fixture Design	45970	3
Fracture Mechanics	45975	3
Special Topics in Aerospace Structures	45999	3
Max. one course from:		
<ul style="list-style-type: none"> • other technical courses in the group, • technical courses in other groups, • any other course approved by the group. 		