



In His Name the Most High

**The program for Master of Science
In Aerospace Engineering-Propulsion**

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
Viscous Flow	45405	3
Computational Fluid Dynamics 1	45830	3
Gas Dynamics 1	45615	3
Advanced Fuel and Combustion	45610	3

Table 2: Elective Technical Courses

Course name	Course no.	Units
Advanced Turbomachinery	45620	3
Advanced Thermodynamics	45605	3
Radiation Heat Transfer	45641	3
Two Phase Flow		3
Advanced Propulsion Principles	45645	3
Gas Dynamics 2	45616	3
Combustion Instability	45630	3
Advanced Heat Transfer	45640	3
Subsonic Aerodynamics	45815	3
Unsteady Aerodynamics	45820	3
Supersonic Aerodynamics	45816	3
Hypersonic Aerodynamics	45817	3
Helicopter Aerodynamics	45402	3
Nonlinear System Analysis	45748	3
Turbulence	45810	3
Acoustics	45635	3
Turbulence Simulation	45813	3
Grid Generation Methods	45825	3
Computational Fluid Dynamics 2	45831	3
Finite Element Methods in Fluids	45832	3
Numerical Turbomachinery		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. 		