MSc in Applied Design – Curriculum Chart

Term 1

Courses	Credits	Code	Prerequisites	Type
Advanced Mathematics 1	3	۱۴۱۸۲۲۲	-	R
Continuum Mechanics	3	۱۴۱۸۲۲۳	-	R
Advanced Numerical Analysis	3	۱۴۱۸۲۲۴	-	E
Total Credits				

Term 2

Courses	Credits	Code	Prerequisites	Type
Elasticity Theory 1	3	1418199	-	C
Finite Elements Method 1	3	1418236	-	C
Advanced Vibrations	3	1418227	-	E
Selected Topics on Solids	3	1418354	-	E
Engineering Economics / Welding	3	1418237	-	E
Thermoelasticity	3	1418257	-	E
Theory of Plates and Shells 1	3	1418201	-	C
Impact on Composite Structures	3	1418354	-	E
Impact Mechanics 2	3	1418262	Impact Mechanics	E
Advanced Strength of Materials	3	1418297	-	E
Plasticity	3	1418228	-	E
Total Credits				

Term 3

Courses	Credits	Code	Prerequisites	Type
Impact Mechanics 1	3	1418089		E
Metal Shaping	3	1418090		E
Advanced Mechanics of Composite Materials	3	1418279		E
Creep-Fatigue Failure	3	1418229		E
Advanced Dynamics	3	1418226		E
Smart Materials	3	1418335		E
Total Credits				

Total Credits of Elective Courses: 12 Total Credits of Required Courses: 6

Total Credits of Core Courses: 6 Total Credits of Seminar: 2

Total Credits of Thesis: 6 Total Credits: 32

Course Types: C=Core R=Required E=Elective