



**MECHANICAL ENGINEERING PhD Program (on MSc)**

<b>REMEDIAL COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
ME	211	Thermodynamics I	NC	
ME	241	Statics	NC	
ME	244	Dynamics	NC	
ME	246	Strength of Materials	NC	
ME	264	Materials Science for Mechanical Engineering	NC	
ME	324	Heat Transfer	NC	
ME	331	Fluid Mechanics	NC	
ME	343	Machine Elements I	NC	
ME	352	System Dynamics and Control	NC	
ME	445	Mechanical Vibrations	NC	
MATH	241	Differential Equations	NC	
<b>PROGRAM COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
ME	502	Engineering Analysis II	3	10
		Departmental Elective I	3	10
		Departmental Elective II	3	10
		Area Elective I	3	10
		Area Elective II	3	10
		Area Elective III	3	10
		Area Elective IV*	3	10
ME	690	PhD Seminar	NC	2
ME	691	Independent Study for Qualifying Exam	NC	30
ME	700	PhD Dissertation	NC	150
		<b>TOTAL</b>	<b>21</b>	<b>252</b>
<b>EXTRA/NON-DEGREE COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
		Extra/Non-degree	NC	

\* If a student did not take a research methods/methodologies course during MS work, he/she shall take one of the courses in Research Methodologies instead of Area Elective IV.

<b>Course Group</b>	<b>Description</b>
Departmental Elective I-II	Mechanical Engineering courses under the GSNAS
Area Elective I-IV	All GSNAS courses in the elective pool offered by all departments
Research Methodologies	PHYS 514, ESYE 501.
Extra/Non-degree	Optional non-credit (NC) courses that are not part of the program
Remedial Courses	Undergraduate level courses offered by department.