

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
MATH 533	Selected Topics in Applied Mathematics	2	3	0	0	3	7

Prerequisites	
Admission Requirements	

Language of Instruction	English
Course Type	Elective
Course Level	Masters Degree
Objective	Introducing the fundamental problems and their solution methods of applied mathematics
Content	Sacling, ODE, Perturbation anlaysis, Calculus of variations, Sturm-Liouville problems, Integral equalities, Green functions, Equilibrium equalities, Integral transformations, Wave propagation
References	J. David Logan, Applied Mathematics, Wiley, 2006 Lawrence Sirovich, Introduction to Applied Mathematics, Springer, 1988

Theory Topics

Week	Weekly Contents
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