COURSES IN BASIC SCIENCES

Theoretical course requirement:

From the list of courses given below, the student should study at least one, as part of the requirements for the Master's degree.

Industrial Engineering and Management
096327 Nonlinear Models in Operations Research
096575 Non-Cooperative Games
097334 Integer Programming
098311 Optimization 1
098413 Stochastic Processes
098414 Theory of Statistics
098416* Theory of Probability

Mathematics
106156 Mathematical Logic
106173 Game Theory
106349 Advanced Probability
106380* Modern Algebra 1
106393* Matrix Theory
106396* Graph Theory
106383 Algebraic Topology
108324 Elements of Modern Analysis for Electrical Engineering
108327 Functional Analysis for Electrical Engineering

Computer Science
236308* Algebraic graph theory and combinatorial designs
236313* Complexity Theory
236359 Algorithms 2
236374 Probabilistic Methods and Algorithms
236508* Cryptography and Complexity
236518 Communication Complexity

Physics
116031 Quantum Information Theory
117140 Math. Methods in Physics-Groups
118081* Theory of Gravitation or 118130 Introduction to General Relativity
118122 Quantum Mechanics 3
118128 Advanced Solid State Physics or 118138 Graduate Solid State
118132 Quantum Field Theory 1
118137 Atom Photon Interactions

* Courses marked * will not be given 2016-2017