

Elective Courses of Applied Mathematics

Note: These Elective Courses will be offered on the availability of course instructors and the number of students registered for the course.

S. No.	Course Code	Course Title	Credit Hours
*Electives to be offered in second semester			
1	MTS-605	Optimization	03
2	MTS-606	Fluid Mechanics	03
3	MTS-607	Discrete Time Finance/ Discrete time pricing of derivative and securities	03
4	MTS-608	Stochastic Calculus & Black-Scholes Theory	03
5	MTS-609	Theory of group actions and group graphs/ Homological algebra	03
6	MTS-610	Cryptography	03
Electives to be offered in third semester			
7	MTS-611	Advanced Convex Analysis	03
8	MTS-612	Viscous Fluids	03
9	MTS-613	Asymptotic Methods	03
10	MTS-614	Error Correction and coding theory	03
11	MTS-615	Continuous Time Finance/Bond Market and Interest rate modeling	03
12	MTS-616	Theory of semigroups	03
13	MTS-617	Actuarial mathematics/Credit Risk modeling	03
14	MTS-618	Computational Methods in Fluid Dynamics	03
15	MTS-619	Stochastic differential equations	

16	MTS-620	Non-Newtonian Fluids	
17	MTS-621	Theory of Fluids	