ESE502 (Outline)

1. The Laplace Transform, HW1
2. Solving ordinary differential equations using laplace transforms, HW2
3. Fourier Series, HW3
4. Selected Review from 1, 2, 3, HW4, First Midterm Exam on 23rd Feb, 2005.
5. Solving partial differential equations using Fourier Series expansion, HW5, HW6
6. Vector Differential Calculus, HW7
7. Vector Integral Calculus, HW8, HW9
8. Selected Review from 4, 5, 6, HW10, Second Midterm Exam on 13th April, 2005.
9. Selected Topics from Complex Analysis
   (a) Analytic function of a complex variable, HW11
   (b) Complex Integration, HW12
   (c) Taylor’s Series and Laurent Series, Conformal Maps.
   Note: Topic 9 will not be included in the final exam.
10. Selected Review from topics 1 to 8 on May 2nd and May 4th, 2005.

Grading:

1. 8 best out of the first 10 homeworks: 40%
2. HW11, HW12: 8%
3. Midterm 1: 16%,
4. Midterm 2: 16%,
5. Final: 20%