Math 651 - Methods of Applied Math I - Fall 2015

TF 1:00 pm –2:25 pm
Location: King 341

Instructor Catalin Turc (catalin.c.turc@njit.edu)
Office: Cullimore 625, Phone (973) 596-5378
Office hours: TF 11:30-1:00 or by appointment
WEB: https://njit.edu/cct21/

Course Information and policies:

- **Text:** Advanced Mathematical Methods for Scientists and Engineers: Asymptotic Methods and Perturbation Theory, by Carl Bender and Steven Orszag, and class notes

- **Course Overview:**
  1. Homogeneous and inhomogeneous ODEs
  2. Laplace’s equation
  3. Heat equation
  4. Wave equation
  5. Transform methods
  6. Green’s functions

- **Homework:** Homework problems will be assigned and collected bi-weekly.

- **Exams and Grading:** There will be one midterm and a final exam. The final grade will consist of 30% homework, 30% midterm, and 40% final exam.