1067-R1-1796   **Yajun Yang*** (`yangy@farmingdale.edu`), Department of Mathematics, Farmingdale State College of SUNY, 2350 Broadhollow Rd, Farmingdale, NY 11735. *Making Differential Equations More Relevant to Electrical Engineering Technology Students.*

The Department of Mathematics at Farmingdale State College offers a mathematics sequence for the students in Electrical Engineering Technology (EET) programs. The last course in the sequence is Advanced Mathematical Analysis. The topics of the course range from Infinite Series, Taylor Series, Fourier series, to First and Second Order Differential Equations and Applications, Laplace Transform. To make the course content relevant to my students, I use electrical circuits such as RL and RLC circuits to introduce topics of elementary ODE. I encourage the students to bring in electrical engineering problems from their EET classes. As a result, we analyze electrical systems to derive systems of differential equations, which is not part of the syllabus. I will present a sample of the student projects of real-world electrical engineering problems. (Received September 21, 2010)