Instructor : G. Sharan         Winter semester 2013

Aim of the course is to make students capable of solving first order linear
differential equations of ordinary kind.

Pedagogy : hands-on calculations on EXCEL and lab workouts.

Reading : ODE text download from net

Topics :

1. Ordinary differential equations – definition, occurrence, why needed

2. ODE first order, linear
   - exponential growth, decay, constant rate decay – evaporation and
     seepage from
     farm pond. - write rate equations, solve, graph
   - diffusion of new gadgets in a village of 100 households modeled as first order
     process driven by potential difference. Solve, draw graph, interpret
   - body weight gain hogs - Solve, draw graph, interpret

Attendance :

Basically it is assumed that student is interested in learning and hence in
attending classes. Those not attending will miss out on learning. Attendance sheet is not used to record attendance each day. But consequences of not attending - failure in exam - is the consequence.