

by Dr. H. Serhan Yavuz Week-1: Introduction

Introduction

- In this course, numerical solutions of some engineering problems is explained.
- The methods are programmed using MATLAB.

Syllabus

- Finding roots of nonlinear equations
- Solving linear algebraic system of equations
- Optimization
- Curve fitting and interpolation
- Numerical Differentiation
- Numerical Integration
- Solving Ordinary Differential Equations (ODE)

Recommended Books

- Steven C. Chapra and Raymond P. Canale, "Numerical Methods for Engineers", 7th Ed, McGraw-Hill, 2014.
- Abishek Gupta, "Numerical Methods using MATLAB", Apress, 2014.





Grading

2015-2016 Fall Semester

- Midterm : 30 % (12.11.2015, 13:00)
- Quiz (or Homework) : 30%
- Final exam: 40% (07.01.2016, 13:00)

This is not an easy class at all. You need to study systematically to pass this class.

Instructor

2015-2016 Fall Semester

Yrd.Doç.Dr. H. Serhan Yavuz

– Office : B407

- E-mail: <u>hsyavuz@ogu.edu.tr</u>
- Phone : (222) 239 37 50 / 3287

File Sharing

All the anouncements about the lecture and file sharings will be carried out on DYS system of ESOGU:

http://enf.ogu.edu.tr/golddys/

Any Question?

Do you have any extra question about the lecture?



End of the Introduction