Interactive CEMMETU Courses 2016

Program Details

22 February

SIEMENS NX Basics
Tutor: ATIF EMRE OFLUOĞLU
Time: 18:00-20:00   **Room:** D119
Material:

- User interface and controls
- 2D and 3D drawing techniques
- Mesh and export drawings to MATLAB

23 February

Introduction to MATLAB
Tutor: HÜSEYİN BOYACI
Time: 18:00-19:00   **Room:** D119
Material:

- MATLAB basics, useful commands, function and script definitions
- Plotting options
- Access files via MATLAB and data handling
- Efficient coding and MEX format
- Introduction to GUI

24 February

Using Preconditioned Codes
Tutor: BARIŞCAN KARAOSMANOGLU
Time: 18:00-19:00   **Room:** D119
Material:

- Essentials about preconditioners
- MLFMA programs with preconditioners
- Essential parameters of preconditioners

25 February

Using Genetic Algorithms Codes
Tutor: CAN ÖNOL
Time: 18:00-19:00   **Room:** D119
Material:

- GA parameters and their effects on the behavior of GA performance
- Types of selection, crossover and elitism mechanisms of GA
- Hints for more effective interactions between GA and MLFMA instead of black-box interactions: use of lookup tables, accuracy of MLFMA as a parameter of GA, use of GA with AMLFMA

26 February

How to Use CEMMETU Programs
Tutor: BARIŞCAN KARAOSMANOĞLU
Time: 18:00-20:00   **Room:** D119
Material:

- Essential parameters of MLFMA programs (How to select inputs? What they mean? What are the outputs?)
- Essential parameters of field calculators and plotting results
- MLFMA and calculator versions (PEC, dielectric, short description of formulations)
- Essentials about MEX
- Accuracy controlling (mesh convergence, equivalence theorem, symmetry)

BRING YOUR COMPUTERS WITH MATLAB AND SIEMENS NX ON THEM