

ELEC 621 NUMERICAL TECHNIQUES IN ELECTROMAGNETICS

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Time Table for ELEC 621 Numerical Techniques in Electromagnetics 2005

| Date | Day | Room | From | To | # hrs | L# | Topic |
|----------|-----|----------|-------|-------|-------|----|---|
| 08 Sept. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 01 | Theoretical Foundations |
| 13 Sept. | Tue | | | | | | No lecture (Travel) |
| 15 Sept. | Thu | | | | | | No lecture (Travel) |
| 20 Sept. | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 02 | Huygens' Principle and Maxwell's Eqs |
| 20 Sept. | Tue | MAC D114 | 17:30 | 19:00 | 1.5 h | 03 | Wave Equations and Propagation |
| 22 Sept. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 04 | Scalar and Vector Potentials |
| 22 Sept. | Thu | MAC D114 | 17:30 | 19:00 | 1.5 h | 05 | Green's Functions |
| 27 Sept. | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 06 | Method of Moments 1 |
| 27 Sept. | Tue | MAC D114 | 17:30 | 19:00 | 1.5 h | 07 | Method of Moments 2 |
| 29 Sept. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 08 | Finite Differences Frequency Domain 1 |
| 29 Sept. | Thu | MAC D114 | 17:30 | 19:00 | 1.5 h | 09 | Finite Differences Frequency Domain 2 |
| 04 Oct. | Tue | | | | | | No lecture (Travel) |
| 06 Oct. | Thu | | | | | | No lecture (Travel) |
| 11 Oct. | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | | Midterm Examination (Open Book) |
| 13 Oct. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 10 | Finite Differences Time Domain 2D-1 |
| 13 Oct. | Thu | MAC D114 | 17:30 | 19:00 | 1.5 h | 11 | Finite Differences Time Domain 2D-2 |
| 18 Oct | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 12 | Finite Differences Time Domain 3D-1 |
| 20 Oct. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 13 | Finite Differences Time Domain 3D-2 |
| 25 Oct | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 14 | TLM-2D-1 |
| 27 Oct. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 15 | TLM-2D-2 |
| 01 Nov. | Tue | | | | | | No lecture (Travel) |
| 03 Nov. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 16 | TLM-3D 1 |
| 08 Nov. | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 17 | TLM-3D 2 |
| 10 Nov. | Thu | | | | | | Reading Break |
| 15 Nov. | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | | No lecture (Travel) |
| 17 Nov. | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | | No lecture (Travel) |
| 22 Nov | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 18 | Finite Element Methods 1 |
| 24 Nov | Thu | MAC D114 | 16:00 | 17:30 | 1.5 h | 19 | Finite Element Methods 2 |
| 24 Nov. | Thu | MAC D114 | 17:30 | 19:00 | 1.5 h | 20 | Spectral Domain Methods 1 |
| 29 Nov. | Tue | MAC D114 | 16:00 | 17:30 | 1.5 h | 21 | Spectral Domain Methods 2 |
| 29 Nov. | Tue | MAC D114 | 17:30 | 19:00 | 1.5 h | 22 | Student Project Presentations |
| 01 Dec | Thu | MAC D114 | 16:00 | 19:00 | 3.0 h | | Final Examination (Open Book) |