

Ph.D. PROGRAM

| Code | Course Name | LANG | T | A | C | ECTS | E/C |
|--------|-----------------------|------|-----------|---|-----------|------------|-----|
| | Elective Course 1 | T | 3 | 0 | 3 | 10 | E |
| | Elective Course 2 | T | 3 | 0 | 3 | 10 | E |
| | Elective Course 3 | T | 3 | 0 | 3 | 10 | E |
| | Elective Course 4 | T | 3 | 0 | 3 | 10 | E |
| | Elective Course 5 | T | 3 | 0 | 3 | 10 | E |
| | Elective Course 6 | T | 3 | 0 | 3 | 10 | E |
| | Elective Course 7 | T | 3 | 0 | 3 | 10 | E |
| LEE603 | Seminar | T | 3 | 0 | 3 | 10 | C |
| LEE606 | Qualifying Exam | T | | | | 30 | C |
| LEE604 | Dissertation Proposal | T | | | | 30 | C |
| LEE605 | Dissertation | T | | | | 100 | C |
| | Total | | 24 | | 24 | 240 | |
| | Elective Course 1 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 2 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 3 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 4 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 5 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 6 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 7 | T | 3 | 0 | 3 | 7,5 | E |
| | Elective Course 8 | T | 3 | 0 | 3 | 7,5 | E |
| | | | | | | 300 | |

ELECTIVE COURSES

| Code | Course Name | LANG | T | A | C | ECTS | E/C |
|--------|---|------|---|---|---|------|-----|
| FBE509 | Advanced Engineering Mathematics | T | 3 | 0 | 3 | 10 | E |
| FBE511 | Measuring and Improving Job Performance | T | 3 | 0 | 3 | 10 | E |
| FBE516 | Fuzzy Logic and Applications in Engineering | T | 3 | 0 | 3 | 10 | E |
| FBE517 | Mathematical Modelling and Simulation | T | 3 | 0 | 3 | 10 | E |
| FBE518 | First Course in Optimization Theory | T | 3 | 0 | 3 | 10 | E |
| FBE519 | Applied Optimization | T | 3 | 0 | 3 | 10 | E |
| FBE609 | Thesis Select Topics | T | 3 | 0 | 3 | 10 | E |
| GNL601 | History and Philosophy of Science | T | 3 | 0 | 3 | 10 | E |
| GNL602 | Future Science | T | 3 | 0 | 3 | 10 | E |
| GNL603 | Critical and Analytical Thinking | T | 3 | 0 | 3 | 10 | E |
| GNL604 | Sages of Turkish-Islamic Culture | T | 3 | 0 | 3 | 10 | E |
| GNL605 | People, Society and Values | T | 3 | 0 | 3 | 10 | E |
| MAT601 | Fourier Analysis | T | 3 | 0 | 3 | 10 | E |
| MAT602 | Geometric Analysis | T | 3 | 0 | 3 | 10 | E |
| MAT603 | Harmonic Analysis | T | 3 | 0 | 3 | 10 | E |
| MAT604 | Selected Topics in Partial Differential Equations | T | 3 | 0 | 3 | 10 | E |
| MAT605 | Sobolev Spaces and Geometric Inequalities | T | 3 | 0 | 3 | 10 | E |
| MAT606 | Nonlinear Partial Differential Equations | T | 3 | 0 | 3 | 10 | E |
| MAT607 | Finite Element Methods for Partial Differential Equations | T | 3 | 0 | 3 | 10 | E |
| MAT608 | Numerical Methods for Fractional Differential Equations | T | 3 | 0 | 3 | 10 | E |
| MAT609 | Differentiable Manifolds | T | 3 | 0 | 3 | 10 | E |
| MAT610 | Banach Algebra | T | 3 | 0 | 3 | 10 | E |
| MAT611 | Matrix Transformations | T | 3 | 0 | 3 | 10 | E |
| MAT612 | Reguler Matrix Transformation | T | 3 | 0 | 3 | 10 | E |
| MAT613 | Sequence Spaces | T | 3 | 0 | 3 | 10 | E |
| MAT614 | Summability Theory and Applications | T | 3 | 0 | 3 | 10 | E |
| MAT615 | Linear Operator Theory and Applications on Hilbert Spaces | T | 3 | 0 | 3 | 10 | E |
| MAT616 | Discrete Mathematics | T | 3 | 0 | 3 | 10 | E |
| MAT617 | Univalent Function Theory | T | 3 | 0 | 3 | 10 | E |
| MAT618 | Variational Analysis | T | 3 | 0 | 3 | 10 | E |
| MAT619 | Boundary Element Method | T | 3 | 0 | 3 | 10 | E |
| PRJ600 | Advanced Topics in Scientific Project Preparation | T | 3 | 0 | 3 | 10 | E |

SCIENTIFIC PREPARATION COURSES

| Code | Course Name | LANG | T | A | C | ECTS | E/C |
|------|--|------|---|---|---|------|-----|
| | Undergraduate/graduate courses that is determined for student during the interview | | | | | | |