

1st YEAR FALL SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|--|-----------|----------|-----------|-----------|
| OD 107 | CAREER PLANNING | 1 | 0 | 1 | 2 |
| OD 113 | TURKISH I | 2 | 0 | 2 | 2 |
| OD 117 | ADVANCED ENGLISH I | 3 | 0 | 3 | 4 |
| TM 101 | PHYSICS I | 3 | 1 | 3,5 | 5 |
| TM 105 | MATHEMATICS I | 4 | 0 | 4 | 5 |
| TM 107 | GENERAL CHEMISTRY | 3 | 1 | 3,5 | 5 |
| AE 101 | INTRODUCTION TO AERONAUTICAL ENGINEERING | 2 | 0 | 2 | 3 |
| AE 103 | COMPUTER AIDED ENGINEERING DRAWING I | 2 | 2 | 3 | 4 |
| TOTAL | | 20 | 4 | 22 | 30 |

1st YEAR SPRING SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|---|-----------|----------|-----------|-----------|
| OD 114 | TURKISH II | 2 | 0 | 2 | 2 |
| OD 118 | ADVANCED ENGLISH II | 3 | 0 | 3 | 4 |
| TM 102 | PHYSICS II | 3 | 1 | 3,5 | 5 |
| TM 106 | MATHEMATICS II | 4 | 0 | 4 | 5 |
| AE 102 | INTRODUCTION TO ASTRONAUTICAL ENGINEERING | 2 | 0 | 2 | 2 |
| AE 104 | COMPUTER AIDED ENGINEERING DRAWING II | 2 | 2 | 3 | 4 |
| AE 106 | STATICS | 3 | 0 | 3 | 4 |
| AE 108 | COMPUTER PROGRAMMING | 2 | 1 | 2,5 | 4 |
| TOTAL | | 21 | 4 | 23 | 30 |

2nd YEAR FALL SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|---|-----------|----------|-----------|-----------|
| TM 201 | DIFFERENTIAL EQUATIONS | 3 | 0 | 3 | 5 |
| AE 201 | STRENGTH OF MATERIALS I | 3 | 0 | 3 | 5 |
| AE 203 | THERMODYNAMICS I | 3 | 0 | 3 | 5 |
| AE 205 | MATERIALS SCIENCE | 3 | 0 | 3 | 5 |
| AE 207 | FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS | 3 | 0 | 3 | 3 |
| AE 209 | DYNAMICS | 3 | 0 | 3 | 5 |
| AE 211 | TECHNICAL ENGLISH | 2 | 0 | 2 | 2 |
| TOTAL | | 21 | 0 | 21 | 30 |

2nd YEAR SPRING SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|-------------------------|-----------|----------|-------------|-----------|
| TM 202 | ENGINEERING MATHEMATICS | 3 | 0 | 3 | 5 |
| TM 204 | NUMERICAL ANALYSIS | 3 | 0 | 3 | 4 |
| AE 202 | STRENGTH OF MATERIALS I | 3 | 0 | 3 | 5 |
| AE 204 | THERMODYNAMICS II | 3 | 0 | 3 | 5 |
| AE 206 | FLUID MECHANICS I | 3 | 0 | 3 | 4 |
| AE 208 | AUTOMATIC CONTROL I | 3 | 1 | 3,5 | 5 |
| AE 210 | BUSINESS ENGLISH | 2 | 0 | 2 | 2 |
| TOTAL | | 20 | 1 | 20,5 | 30 |

3rd YEAR FALL SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|------------------------|-----------|----------|-------------|-----------|
| AE 301 | AERODYNAMICS | 3 | 2 | 4 | 5 |
| AE 303 | FLIGHT MECHANICS | 3 | 0 | 3 | 4 |
| AE 305 | AEROSPACE STRUCTURES | 3 | 0 | 3 | 4 |
| AE 307 | MEASUREMENT TECHNIQUES | 3 | 0 | 3 | 3 |
| AE 309 | FLUID MECHANICS II | 3 | 0 | 3 | 4 |
| AE 311 | AUTOMATIC CONTROL II | 2 | 1 | 2,5 | 3 |
| | TECHNICAL ELECTIVE I | 3 | 0 | 3 | 4 |
| | GENERAL ELECTIVE I | 2 | 0 | 2 | 3 |
| TOTAL | | 22 | 3 | 23,5 | 30 |

3rd YEAR SPRING SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|------------------------------------|-----------|----------|-----------|-----------|
| AE 302 | COMPRESSIBLE AERODYNAMICS | 4 | 0 | 4 | 5 |
| AE 304 | FLIGHT STABILITY AND CONTROL | 3 | 0 | 3 | 5 |
| AE 306 | EXPERIMENTAL ENGINEERING | 1 | 2 | 2 | 3 |
| AE 308 | HEAT TRANSFER | 3 | 0 | 3 | 4 |
| AE 310 | INTRODUCTION TO PROPULSION SYSTEMS | 3 | 0 | 3 | 5 |
| | TECHNICAL ELECTIVE II | 3 | 0 | 3 | 4 |
| | TECHNICAL ELECTIVE III | 3 | 0 | 3 | 4 |
| TOTAL | | 20 | 2 | 21 | 30 |

4th YEAR FALL SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|--|-----------|----------|-----------|-----------|
| OD 111 | ATATURK PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I | 2 | 0 | 2 | 2 |
| AE 401 | AIRCRAFT DESIGN I | 2 | 4 | 4 | 8 |
| AE 403 | ASTRODİNAMİK | 2 | 2 | 3 | 6 |
| AE 405 | ROCKET PROPULSION | 3 | 0 | 3 | 6 |
| | TECHNICAL ELECTIVE IV | 3 | 0 | 3 | 4 |
| | TECHNICAL ELECTIVE V | 3 | 0 | 3 | 4 |
| TOTAL | | 15 | 6 | 18 | 30 |

4th YEAR SPRING SEMESTER

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|--------------|---|-----------|----------|-----------|-----------|
| OD112 | ATATURK PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II | 2 | 0 | 2 | 2 |
| AE 402 | AIRCRAFT DESIGN II | 2 | 4 | 4 | 8 |
| AE 404 | GRADUATION PROJECT | 0 | 2 | 1 | 5 |
| | GENERAL ELECTIVE II | 2 | 0 | 2 | 3 |
| | TECHNICAL ELECTIVE VI | 3 | 0 | 3 | 4 |
| | TECHNICAL ELECTIVE VII | 3 | 0 | 3 | 4 |
| | TECHNICAL ELECTIVE VIII | 3 | 0 | 3 | 4 |
| TOTAL | | 15 | 6 | 18 | 30 |

TECHNICAL ELECTIVE I

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|--|---|---|---|------|
| AE 321 | COMPLEX FUNCTIONS THEORY | 3 | 0 | 3 | 4 |
| AE 323 | INTRODUCTION TO MODELLING AND SIMULATION | 3 | 0 | 3 | 4 |
| AE 325 | ENGINEERING SYSTEMS MODELING | 3 | 0 | 3 | 4 |
| AE 329 | SPACE PHYSICS | 3 | 0 | 3 | 4 |
| AE 333 | DYNAMIC SYSTEMS AND CONTROL | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE II

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|--------------------------------------|---|---|---|------|
| AE 320 | INTRODUCTION TO ASTRONOMY | 3 | 0 | 3 | 4 |
| AE 322 | AVIONIC SYSTEMS | 3 | 0 | 3 | 4 |
| AE 324 | INTRODUCTION TOR ROTARY WING SYSTEMS | 3 | 0 | 3 | 4 |
| AE 326 | ELECTROKINETIC FLOW THEORY | 3 | 0 | 3 | 4 |
| AE 338 | AEROSPACE MATERIALS | 3 | 0 | 3 | 4 |
| AE 340 | FRACTURE MECHANICS | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE III

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|------------------------------|---|---|---|------|
| AE 328 | ADVANCED DYNAMICS | 3 | 0 | 3 | 4 |
| AE 330 | COMPOSITE MATERIALS | 3 | 0 | 3 | 4 |
| AE 332 | MACHINE LEARNING | 3 | 0 | 3 | 4 |
| AE 334 | MICROELECTROMECHANIC SYSTEMS | 3 | 0 | 3 | 4 |
| AE 336 | INTRODUCTION TO OPTIMIZATION | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE IV

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|-----------------------------------|---|---|---|------|
| AE 421 | HELICOPTER THEORY | 3 | 0 | 3 | 4 |
| AE 423 | PROPERTIES OF MATERIALS MECHANICA | 3 | 0 | 3 | 4 |
| AE 425 | MECHANICAL VIBRATION | 3 | 0 | 3 | 4 |
| AE 427 | MICROFLUIDICS AND NANOFUIDICS | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE V

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|---|---|---|---|------|
| AE 429 | SIMULATION OF CONTINIUM SYSTEMS | 3 | 0 | 3 | 4 |
| AE 431 | AIRCRAFT INSTRUMENTS | 3 | 0 | 3 | 4 |
| AE 433 | SPACE SYSTEMS ROBOTICS | 3 | 0 | 3 | 4 |
| AE 435 | INTRODUCTION TO ARTIFICIAL INTELLIGENCE | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE VI

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|---------------------------------|---|---|---|------|
| AE 420 | INTRODUCCION TO ASTROPHYSICS | 3 | 0 | 3 | 4 |
| AE 422 | ASTROPHYSICAL FLUID DYNAMICS | 3 | 0 | 3 | 4 |
| AE 424 | BATTERY TECHNOLOGIES | 3 | 0 | 3 | 4 |
| AE 426 | MULTIVARIABLE CONTROL SYSTEMS | 3 | 0 | 3 | 4 |
| AE 428 | SIMULATION OF DYNAMICAL SYSTEMS | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE VII

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|--|---|---|---|------|
| AE 430 | INTRODUCTION TO NONLINEAR CONTROL | 3 | 0 | 3 | 4 |
| AE 432 | GUIDANCE, CONTROL AND NAVIGATION SYSTEMS | 3 | 0 | 3 | 4 |
| AE 434 | INTRODUCTION TO ROBOTICS | 3 | 0 | 3 | 4 |
| AE 436 | GENERAL THEORY OF RELATIVITY | 3 | 0 | 3 | 4 |
| AE 438 | CORROSION | 3 | 0 | 3 | 4 |

TECHNICAL ELECTIVE VIII

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|--------------------------------------|---|---|---|------|
| AE 440 | INTRODUCTION TO OPTIMAL CONTRO | 3 | 0 | 3 | 4 |
| AE 442 | AIRCRAFT SYSTEMS | 3 | 0 | 3 | 4 |
| AE 444 | SPACE MISSION ANALYSIS AND DESIGN | 3 | 0 | 3 | 4 |
| AE 446 | STRUCTURAL ANALYSIS AND DESIGN | 3 | 0 | 3 | 4 |
| AE 448 | STRUCTURAL AND MECHANICAL VIBRATIONS | 3 | 0 | 3 | 4 |

GENERAL ELECTIVE I

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|--------------------------------|---|---|---|------|
| GS 001 | RESEARCH METHODS | 2 | 0 | 2 | 3 |
| GS 003 | TECHNICAL COMMUNICATION | 2 | 0 | 2 | 3 |
| GS 005 | STRESS AND TIME MANAGEMENT | 2 | 0 | 2 | 3 |
| GS 007 | OCCUPATIONAL HEALTH AND SAFETY | 2 | 0 | 2 | 3 |
| GS 009 | PUBLIC ADMINISTRATION | 2 | 0 | 2 | 3 |
| GS 011 | VOLUNTEERING | 2 | 0 | 2 | 3 |
| GS 013 | ACADEMIC TURKISH | 2 | 0 | 2 | 3 |
| GS 015 | CREATIVE DRAMA AND IMPROVISION | 2 | 0 | 2 | 3 |
| GS 017 | HUMAN RESOURCES MANAGEMENT | 2 | 0 | 2 | 3 |
| GS 019 | FIRST AID | 2 | 0 | 2 | 3 |
| GS 021 | EMPLOYMENT LAW | 2 | 0 | 2 | 3 |
| GS 023 | ENTERPRISE RESOURCE PLANNING | 2 | 0 | 2 | 3 |
| GS 025 | HUMAN RIGHTS | 2 | 0 | 2 | 3 |
| GS 027 | ENTREPRENEURSHIP | 2 | 0 | 2 | 3 |
| GS 029 | ENGINEERING ETHICS | 2 | 0 | 2 | 3 |
| GS 031 | HISTORY OF SCIENCE | 2 | 0 | 2 | 3 |
| GS 033 | SOCIAL PSYCHOLOGY | 2 | 0 | 2 | 3 |
| GS 035 | COMMUNICATION | 2 | 0 | 2 | 3 |
| GS 037 | FINANCIAL LITERACY | 2 | 0 | 2 | 3 |
| GS 039 | SIGN LANGUAGE | 2 | 0 | 2 | 3 |
| GS 041 | DISASTER AND CRISIS MANAGEMENT | 2 | 0 | 2 | 3 |
| GS 043 | CITY AND SOCIETY | 2 | 0 | 2 | 3 |
| GS 045 | ENVIRONMENTAL PROTECTION | 2 | 0 | 2 | 3 |
| GS 047 | BEHAVIOR SCIENCE | 2 | 0 | 2 | 3 |

GENERAL ELECTIVE II

| COURSE CODE | COURSE NAME | T | U | K | ECTS |
|-------------|-------------------------------------|---|---|---|------|
| GS 002 | MEDIA AND COMMUNICATION | 2 | 0 | 2 | 3 |
| GS 004 | DICTION AND EFFECTIVE SPEAKING | 2 | 0 | 2 | 3 |
| GS 006 | BUSINESS ETHICS | 2 | 0 | 2 | 3 |
| GS 008 | KNOWLEDGE PROTOCOL | 2 | 0 | 2 | 3 |
| GS 010 | PRODUCTION MANAGEMENT | 2 | 0 | 2 | 3 |
| GS 012 | SOCIAL RESPONSIBILITY | 2 | 0 | 2 | 3 |
| GS 014 | ACADEMIC TURKISH II | 2 | 0 | 2 | 3 |
| GS 016 | CREATIVE DRAMA AND IMPROVISION | 2 | 0 | 2 | 3 |
| GS 018 | HUMAN RESOURCE MANAGEMENT | 2 | 0 | 2 | 3 |
| GS 020 | FIRST AID | 2 | 0 | 2 | 3 |
| GS 022 | EMPLOYMENT LAW | 2 | 0 | 2 | 3 |
| GS 024 | POLITICAL SCIENCES | 2 | 0 | 2 | 3 |
| GS 026 | SUSTAINABILITY | 2 | 0 | 2 | 3 |
| GS 028 | PROBLEM SOLVING AND DECISION MAKING | 2 | 0 | 2 | 3 |
| GS 030 | TECHNOLOGY ADDICTION | 2 | 0 | 2 | 3 |
| GS 032 | BUSINESS ADMINISTRATION | 2 | 0 | 2 | 3 |
| GS 034 | FACTORY ORGANIZATION | 2 | 0 | 2 | 3 |
| GS 036 | QUALITY MANAGEMENT SYSTEMS | 2 | 0 | 2 | 3 |
| GS 038 | TECHNOLOGY MANAGEMENT AND R&D | 2 | 0 | 2 | 3 |
| GS 040 | MARKETING | 2 | 0 | 2 | 3 |
| GS 042 | SERVICE MARKETING | 2 | 0 | 2 | 3 |
| GS 044 | E-COMMERCE | 2 | 0 | 2 | 3 |
| GS 046 | CURRENT ECONOMIC ISSUES | 2 | 0 | 2 | 3 |
| GS 048 | PUBLIC RELATIONS | 2 | 0 | 2 | 3 |
| GS 050 | SOCIOLOGY | 2 | 0 | 2 | 3 |
| GS 052 | GLOBALIZATION READINGS | 2 | 0 | 2 | 3 |
| GS 054 | PHOTOGRAPHY | 2 | 0 | 2 | 3 |
| GS 056 | PROJECT MANAGEMENT | 2 | 0 | 2 | 3 |
| GS 058 | INTRODUCTION TO BUSINESS SCIENCE | 2 | 0 | 2 | 3 |
| GS 060 | HEALTHY AND ACTIVE AGEING | 2 | 0 | 2 | 3 |
| GS 062 | SALES TECHNIQUES | 2 | 0 | 2 | 3 |