



Alanya Alaaddin Keykubat Üniversitesi

RAFET KAYIS FACULTY OF ENGINEERING

DEPARTMENT OF INDUSTRIAL ENGINEERING

ENDÜSTRİ MÜHENDİSLİĞİ

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
BIL 101	USE OF INFORMATION TECHNOLOGIES	1+1+0	Compulsory	2
END 101	INTRODUCTION TO INDUSTRIAL ENGINEERING	1+0+0	Compulsory	3
ETK 101	ENGINEERING ETHICS	1+0+0	Compulsory	2
FIZ 101	PHYSICS I	3+0+0	Compulsory	4
FIZ 101L	PHYSICS I LABORATORY	0+0+1	Compulsory	1
ING 101	ENGLISH I	2+0+0	Compulsory	2
KIM 101	CHEMISTRY	3+0+0	Compulsory	4
MAT 101	MATHEMATICS I	4+0+0	Compulsory	5
RES 103	TECHNICAL DRAWING	1+2+0	Compulsory	5
TDB 101	TURKISH LANGUAGE I	2+0+0	Compulsory	2
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
BIL 102	INTRODUCTION TO SCIENTIFIC PROGRAMMING	2+2+0	Compulsory	4
EKO 132	ECONOMY	3+0+0	Compulsory	5
END 104	MANAGEMENT AND ORGANIZATION	2+0+0	Compulsory	3
END 108	PRODUCTION METHODS	2+0+0	Compulsory	4
FIZ 102	PHYSICS II	3+0+0	Compulsory	4
FIZ 102L	PHYSICS II LABORATORY	0+0+1	Compulsory	1
ING 102	ENGLISH II	2+0+0	Compulsory	2
MAT 102	MATHEMATICS II	4+0+0	Compulsory	5
TDB 102	TURKISH LANGUAGE II	2+0+0	Compulsory	2
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ATA 101	ATATURK'S PRINCIPLES AND REVOLUTION HISTORY I	2+0+0	Compulsory	2
BIL 205	DATABASE SYSTEMS AND MANAGEMENT	2+2+0	Compulsory	4
END 203	PRODUCTION TECHNOLOGIES	2+0+0	Compulsory	4
ISM 201	PROBABILITY THEORY	3+0+0	Compulsory	5
MAT 108	LINEAR ALGEBRA	3+0+0	Compulsory	4
MEK 205	ENGINEERING MECHANICS	3+0+0	Compulsory	5
3.YY-SGS-ITB	3RD SEMESTER SPORTS AND FINE ARTS	2+0+0	Elective	2
3.YY-TB	3. SEMESTER ELECTIVE COURSE GROUP (TB)	3+0+0	Elective	4
Total ECTS				30

Course Groups				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
END 211	REPORT WRITING AND PRESENTATION TECHNIQUES	3+0+0	Elective	4
END 213	ELECTRICAL MACHINES	3+0+0	Elective	4
END 215	MACHINERY AND MATERIAL INFORMATION	3+0+0	Elective	4
KRP 101	CAREER PLANNING	2+0+0	Elective	2
MAT 201	NUMERICAL METHODS	3+0+0	Elective	4
SGS 101	HISTORY OF ART	2+0+0	Elective	2
SGS 103	HISTORY AND PHILOSOPHY OF SCIENCE	2+0+0	Elective	2
SGS 105	DISASTER CONSCIOUSNESS	2+0+0	Elective	2
SGS 107	EFFECTIVE AND GOOD SPEECH	2+0+0	Elective	2
SGS 109	BASIC FIRST AID AND EMERGENCY EDUCATION	2+0+0	Elective	2
SGS 111	ARCHERY	2+0+0	Elective	2
SGS 113	BOXING, KARATE AND TAEKWONDO	2+0+0	Elective	2
SGS 115	FOOTBALL	2+0+0	Elective	2
SGS 117	VOLLEYBALL	2+0+0	Elective	2
SGS 119	BASKETBALL	2+0+0	Elective	2
SGS 121	TENNIS	2+0+0	Elective	2
SGS 123	TABLE TENNIS	2+0+0	Elective	2
SGS 125	FOLK DANCES	2+0+0	Elective	2
SGS 127	MUSIC CULTURE	2+0+0	Elective	2
SGS 129	PICTURE	2+0+0	Elective	2
SGS 130	DIGITAL DESIGN	2+0+0	Compulsory	2
SGS 131	THEATER AND CINEMA	2+0+0	Elective	2

SGS 133	HEALTHY LIFESTYLE	2+0+0	Elective	2
SGS 135	NUTRITION	2+0+0	Elective	2
SGS 137	MEDIA LITERACY	2+0+0	Elective	2
SGS 139	MATHEMATICAL AESTHETICS	2+0+0	Elective	2
SGS 143	BASIC PHOTOGRAPHY	2+0+0	Elective	2
SGS 145	SURFING	2+0+0	Elective	2
SGS 147	MYTHOLOGY	2+0+0	Elective	2
SGS 149	ANCIENT CITIES	2+0+0	Elective	2
SGS 151	SOCIOLOGY	2+0+0	Elective	2
SGS 153	PHILOSOPHY	2+0+0	Elective	2
SGS 155	TREKKING	2+0+0	Elective	2
SGS 161	ANCIENT DNA: THE TRAIL OF THE PAST	2+0+0	Elective	2
SGS 163	GENETIC HERITAGE	2+0+0	Elective	2
SGS 165	MODERN GENETIC APPLICATIONS: GENE CLONING	2+0+0	Elective	2

4.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ATA 102	ATATURK'S PRINCIPLES AND REVOLUTION HISTORY II	2+0+0	Compulsory	2
END 202	STATISTICAL THEORY AND APPLICATIONS	2+2+0	Compulsory	5
END 206	SYSTEM ANALYSIS AND DESIGN	3+0+0	Compulsory	5
ISM 206	COST ACCOUNTING	2+1+0	Compulsory	4
MAL 102	MATERIAL SCIENCE	3+0+0	Compulsory	4
MAT 202	DIFFERENTIAL EQUATIONS	4+0+0	Compulsory	5
4.YY-TM	FOURTH SEMESTER ELECTIVE COURSE (TM)	3+0+0	Elective	5

Total ECTS **30**

Course Groups

BIL 202	PROGRAMMING TECHNIQUES AND LANGUAGES	2+2+0	Elective	5
END 220	DECISION SUPPORT SYSTEMS	3+3+0+0	Elective	5
END 222	INFORMATION SYSTEM	3+0+0	Elective	5
END 224	E-COMMERCE DESIGN	3+0+0	Elective	5
TER 202	THERMODYNAMICS	3+0+0	Elective	5

5.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
END 301	OPERATIONS RESEARCH I	2+2+0	Compulsory	6
END 309	PRODUCTION PLANNING AND CONTROL	3+0+0	Compulsory	6
END 300	INDUSTRIAL ENGINEERING INTERNSHIP I	0+0+0	Compulsory	2
END 303	QUALITY MANAGEMENT	3+0+0	Compulsory	5
END 305	ENGINEERING ECONOMICS	3+0+0	Compulsory	5
ISM 307	HUMAN RESOURCES MANAGEMENT	3+0+0	Compulsory	4
5.YY-ITB	5TH SEMESTER ELECTIVE COURSE GROUP (ITB)	3+0+0	Elective	4

Total ECTS **32**

Course Groups

END 321	GENERAL ACCOUNTING	3+0+0	Elective	4
END 443	ENTREPRENEURSHIP	3+0+0	Elective	4
END 313	BUSINESS FINANCE	3+0+0	Elective	4
END 315	BUSINESS PLANNING	3+0+0	Elective	4
END 317	BUSINESS PSYCHOLOGY	3+0+0	Elective	4
END 319	BUSINESS LAW	3+0+0	Elective	4
END 441	TECHNOLOGY AND R&D	3+0+0	Elective	4

6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
END 304	SYSTEM SIMULATION	2+2+0	Compulsory	5
END 306	BUSINESS STUDY AND ERGONOMICS	3+0+0	Compulsory	5
END 302	OPERATIONS RESEARCH II	2+2+0	Compulsory	6
END 308	PROJECT MANAGEMENT	3+0+0	Compulsory	5
END 310	FACILITY PLANNING	3+0+0	Compulsory	5
6.YY-ITB	6TH SEMESTER ELECTIVE COURSE GROUP (ITB)	3+0+0	Elective	4

Total ECTS **30**

Course Groups

END 414	BUSINESS LAW	3+0+0	Elective	4
END 314	ENTERPRISE INFORMATION MANAGEMENT	3+0+0	Elective	4
END 316	QUALITY ASSURANCE SYSTEM	3+0+0	Elective	4
END 436	INNOVATION MANAGEMENT	3+0+0	Elective	4
ISM 306	COMMERCIAL LAW	3+0+0	Elective	4

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
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END 400	INDUSTRIAL ENGINEERING INTERNSHIP II	0+0+0	Compulsory	3
END 403	INDUSTRIAL ENGINEERING DESIGN	0+2+0	Compulsory	4
ISG 401	OCCUPATIONAL HEALTH AND SAFETY I	2+0+0	Compulsory	2
7.YY-ITB	7TH SEMESTER ELECTIVE COURSE GROUP (ITB)	3+0+0	Elective	4
7.YY-MT	7TH SEMESTER ELECTIVE COURSE GROUP (MT)	3+0+0	Elective	5

Total ECTS 18

Course Groups

END 411	LOGISTICS MANAGEMENT	3+0+0	Elective	5
END 413	LEAN MANUFACTURING	3+0+0	Elective	5
END 415	NONLINEAR PROGRAMMING	3+0+0	Elective	5
END 417	COMPUTER INTEGRATED MANUFACTURING	3+0+0	Elective	5
END 419	MATHEMATICAL MODELING APPLICATIONS	3+0+0	Elective	5
END 421	ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS	3+0+0	Elective	5
END 423	STATISTICAL PREDICTION METHODS	3+0+0	Elective	5
END 425	PLANNING CONTROL AND PRINCIPLES	3+0+0	Elective	5
END 427	DECISION THEORY	3+0+0	Elective	5
END 429	SERVICE SYSTEMS MANAGEMENT	3+0+0	Elective	5
END 431	FLEXIBLE MANUFACTURING SYSTEMS	3+0+0	Elective	5
END 433	PRODUCTIVITY ANALYSIS	3+0+0	Elective	5
END 435	PROBABILISTIC MODEL BUILDING	3+0+0	Elective	5
END 437	MAINTENANCE PLANNING	3+0+0	Elective	5
END 439	MARKETING AND SALES	3+0+0	Elective	4
END 441	STRATEGIC PLANNING	3+0+0	Elective	5
END 445	TIME SERIES	3+0+0	Elective	5
END 447	STOCHASTIC PROBLEMS	3+0+0	Elective	5
END 449	ADVANCED EXCEL APPLICATIONS	3+0+0	Elective	5

8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
END 492	GRADUATION PROJECT	0+4+0	Compulsory	8
ISG 402	OCCUPATIONAL HEALTH AND SAFETY II	1+0+0	Compulsory	1
8.YY-ITB	8TH SEMESTER ELECTIVE COURSE GROUP (ITB)	3+0+0	Elective	4
8.YY-MT	8TH SEMESTER ELECTIVE COURSE GROUP (MT)	3+0+0	Elective	5
8.YY-SGS-ITB	8. SEMESTER SPORTS AND FINE ARTS ELECTIVE COURSE GROUP (ITB)	2+0+0	Elective	2

Total ECTS 20

Course Groups

END 410	LEAN SIX SIGMA	3+0+0	Elective	4
END 412	SUPPLY CHAIN AND PURCHASING MANAGEMENT	3+0+0	Elective	5
END 422	STATISTICAL QUALITY CONTROL	2+2+0	Elective	5
END 434	HEURISTIC OPTIMIZATION	3+0+0	Elective	5
END 436	DATABASE APPLICATIONS	3+0+0	Elective	5
END 440	SCHEDULING	3+0+0	Elective	5
END 448	DESIGN	3+0+0	Elective	5
END 416	ENGINEERING ECONOMY APPLICATIONS	3+0+0	Elective	5
END 418	STRATEGIC MANAGEMENT	3+0+0	Elective	5
END 420	ADVANCED MANUFACTURING SYSTEMS	3+0+0	Elective	5
END 424	FUZZY LINEAR PROGRAMMING	3+0+0	Elective	5
END 426	BUSINESS RESOURCES PLANNING	3+0+0	Elective	5
END 428	FUZZY LOGIC	3+0+0	Elective	5
END 430	MULTI-CRITERIA DECISION MAKING	3+0+0	Elective	5
END 432	STOCK MANAGEMENT	3+0+0	Elective	5
END 438	INDUSTRIAL COMPUTER APPLICATIONS	3+0+0	Elective	5
MTH 442	PROCESS MANAGEMENT	3+0+0	Elective	4
MTH 444	EXPLORATORY DATA ANALYSIS AND DATA	3+0+0	Elective	5
SGS 101	HISTORY OF ART	2+0+0	Elective	2
SGS 103	HISTORY AND PHILOSOPHY OF SCIENCE	2+0+0	Elective	2
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SGS 107	EFFECTIVE AND GOOD SPEECH	2+0+0	Elective	2
SGS 109	BASIC FIRST AID AND EMERGENCY EDUCATION	2+0+0	Elective	2
SGS 111	ARCHERY	2+0+0	Elective	2
SGS 113	BOXING, KARATE AND TAEKWONDO	2+0+0	Elective	2
SGS 115	FOOTBALL	2+0+0	Elective	2
SGS 117	VOLLEYBALL	2+0+0	Elective	2
SGS 119	BASKETBALL	2+0+0	Elective	2
SGS 121	TENNIS	2+0+0	Elective	2
SGS 123	TABLE TENNIS	2+0+0	Elective	2
SGS 125	FOLK DANCES	2+0+0	Elective	2
SGS 127	MUSIC CULTURE	2+0+0	Elective	2
SGS 129	PICTURE	2+0+0	Elective	2

SGS 130	DIGITAL DESIGN	2+0+0	Compulsory	2
SGS 131	THEATER AND CINEMA	2+0+0	Elective	2
SGS 133	HEALTHY LIFESTYLE	2+0+0	Elective	2
SGS 135	NUTRITION	2+0+0	Elective	2
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SGS 139	MATHEMATICAL AESTHETICS	2+0+0	Elective	2
SGS 141	INDUSTRIAL DESIGN	2+0+0	Elective	2
SGS 143	BASIC PHOTOGRAPHY	2+0+0	Elective	2
SGS 145	SURFING	2+0+0	Elective	2
SGS 147	MYTHOLOGY	2+0+0	Elective	2
SGS 149	ANCIENT CITIES	2+0+0	Elective	2
SGS 151	SOCIOLOGY	2+0+0	Elective	2
SGS 153	PHILOSOPHY	2+0+0	Elective	2
SGS 155	TREKKING	2+0+0	Elective	2
SGS 161	ANCIENT DNA: THE TRAIL OF THE PAST	2+0+0	Elective	2
SGS 163	GENETIC HERITAGE	2+0+0	Elective	2
SGS 165	MODERN GENETIC APPLICATIONS: GENE CLONING	2+0+0	Elective	2