YALOVA ÜNİVERSİTESİ

2024/2025 ACADEMIC YEAR CURRICULUM

FACULTY/SCHOOL/INSTITUTE	FACULTY OF ENGINEERING
DEPARTMENT/PROGRAM	INDUSTRIAL ENGINEERING

1st Year

1st Semester (FALL)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
TDB 101	Turkish Language 1	Z	2	0	2	2	Turkish
AİB 101	Atatürk's Principles and History of Reforms 1	Z	2	0	2	2	Turkish
YDB 151	Technical English 1	Z	2	0	2	2	English
MAT 101	Mathematics 1	Z	4	0	4	5	Turkish
FZK 103	Physics 1	Z	4	0	4	4	English
FZK 105	Physics Laboratory 1	Z	0	2	1	2	English
KMY 103	General Chemistry	Z	4	0	4	4	Turkish
END 107	Introduction to Computer Applications	Z	3	0	3	3	Turkish
END 151	Introduction to Industrial Engineering	Z	3	0	3	5	Turkish
	Total ECTS Required in the 1st Semester		24	2	25	29	

2nd Semester (SPRING)

KODU	COURSE NAME	C/E	T	P	C	ECTS	Language
TDB 102	Turkish Languag 2	Z	2	0	2	2	Turkish
AİB 102	Atatürk's Principles and History of Reforms 2	Z	2	0	2	2	Turkish
YDB 152	Technical English 2	Z	2	0	2	2	English
MAT 102	Mathematics 2	Z	4	0	4	5	Turkish
FZK 104	Physics 2	Z	4	0	4	4	English
KRY102	Career Planning	Z	0	2	1	2	Turkish
RES 102	Technical Drawing and Computer Applications	Z	2	2	3	4	Turkish
END 152	Introduction to Manufacturing	Z	2	0	2	3	English
MAT 210	Linear Algebra	Z	4	0	4	5	Turkish
ATE 101	Research Techniques	Z	2	0	2	2	Turkish
	Total ECTS Required in the 2nd Semester		24	4	26	31	

2nd Year

3rd Semester (FALL)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
END 203	Economics	Z	3	0	3	4	Turkish
BİL 251	Introduction to Computer Programming	Z	2	2	3	6	English
END 201	System Analysis	Z	2	0	2	3	Turkish
MAT 201	Differential Equations	Z	4	0	4	5	Turkish
END 253	Probability Theory	Z	4	0	4	6	Turkish
END2**	Department Elective Course-1 (BSD 1)	S	2	0	2	3	Turkish
ÜSD***	University (Social) Elective Course	S	2	0	2	3	
	Total ECTS Required in the 3rd Semester		19	2	20	30	

4rd Semester (SPRING)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
END 218	Management and Cost Accounting	Z	3	0	3	5	Turkish
END 210	Statistics	Z	4	0	4	6	Turkish
END 254	Ergonomics	Z	3	0	3	5	English
END 256	Management and Organization	Z	3	0	3	5	English
END 208	Database Management	Z	2	2	3	6	Turkish
END2**	Department Elective Course-2 (BSD 2)	S	2	0	2	3	Turkish
	Total ECTS Required in the 4th Semester		17	2	18	30	

3rd Year

5th Semester (FALL)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
END 305	Operations Research 1	Z	4	0	4	5	Turkish
END 353	Work Study	Z	3	0	3	4	English
END 351	Engineering Economics	Z	3	0	3	5	English
END 309	Labor Law for Industrial Engineers	Z	2	0	2	3	Turkish
END 360	Quality Planning and Control	Z	3	0	3	4	English
END 3**	Department Elective Course-3 (BSD 3)	S	3	0	3	5	Turkish
STJ 301	Internship 1	Z	0	0	0	2	
	Total ECTS Required in the 5th Semester		18	0	18	28	

6th Semester (SPRING)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
END 354	Operations Research 2	Z	4	0	4	5	English
END 304	System Simulation	Z	2	2	3	5	Turkish
END 308	Production Planning and Control	Z	3	0	3	5	Turkish
END 316	Computer-Integrated Manufacturing Systems	Z	3	0	3	5	Turkish
END 3**	Deparment Elective Course-1 (DEC 1)	S	3	0	3	5	English
END 3**	Department Elective Course-4 (BSD 4)	S	3	0	3	5	Turkish
STJ 302	Internship 2	Z	0	0	0	2	
	Total ECTS Required in the 6th Semester		18	2	19	32	

4th Year

7th Semester (FALL)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
END 451	Industrial Engineering Project	Z	2	0	2	3	English
İSG 401	Occupational Health and Safety 1	Z	2	0	2	2	Turkish
END 4**	Deparment Elective Course-2 (DEC 2)	S	3	0	3	5	English
END 4**	Department Elective Course-5 (BSD 5)	S	3	0	3	5	Turkish
END 4**	Department Elective Course-6 (BSD 6)	S	3	0	3	5	Turkish
END 4**	Department Elective Course-7 (BSD 7)	S	3	0	3	5	Turkish
END 4**	Department Elective Course-8 (BSD 8)	S	3	0	3	5	Turkish
STJ 401	Internship 3	Z	0	0	0	2	
	Total ECTS Required in the 7th Semester		19	0	19	32	

8th Semester (SPRING)

CODE	COURSE NAME	C/E	T	P	C	ECTS	Language
END 492	Graduation Thesis	Z	0	2	1	4	English
İSG 402	Occupational Health and Safety 2	Z	2	0	2	2	Turkish
MUH 402	Entrepreneurship	Z	2	0	2	2	Turkish
END 4**	Deparment Elective Course-3 (DEC 3)	S	3	0	3	5	English
END 4**	Department Elective Course-9 (BSD 9)	S	3	0	3	5	Turkish
END 4**	Department Elective Course-10 (BSD 10)	S	3	0	3	5	Turkish
ÜSD ***	University (Social) Elective Course	S	2	0	2	3	Turkish
STJ 402	Internship 4	Z	0	0	0	2	
	Total ECTS Required in the 8th Semester		15	2	16	28	

Tüm yıllar için **Tüm Derslerden** alınması gereken toplam AKTS kredisi: **240**

2nd Year Elective Courses

3rd Semester Department Elective Courses (BSD 1)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 205	Machine Tools	2	0	2	3	Turkish
END 207	Materials and Processes in Manufacturing	2	0	2	3	Turkish

4th Semester Department Elective Courses (BSD 2)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 212	Work Psychology	2	0	2	3	Turkish
END 214	Behavioral Sciences	2	0	2	3	Turkish
END 216	Marketing Management	2	0	2	3	Turkish
İYB401	Work-Life Skills	2	0	2	3	

3rd Year Elective Courses

5th Semester Department Elective Courses (BSD 3)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 311	E-Commerce Applications	3	0	3	5	Turkish
END 319	Financial Management	3	0	3	5	Turkish
END 321	Management Information Systems	3	0	3	5	Turkish

6th Semester Department Elective Courses(BSD 4)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 325	Inventory Management	3	0	3	5	Turkish
END 327	Data Mining	3	0	3	5	Turkish
END 329	Blockchain Technologies	3	0	3	5	Turkish

6th Semester Department Elective Courses (DEC 1)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 356	Risk Management	3	0	3	5	English
END 358	Advanced Computer Programming	3	0	3	5	English

4th Year Elective Courses

7th and 8th Semester Elective Courses (BSD 5), (BSD 6), (BSD 7), (BSD 8), (BSD 9), (BSD 10)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 401	Artificial Intelligence and Expert Systems	3	0	3	5	Turkish
END 403	Facility Planning	3	0	3	5	Turkish
END 405	Customer Relationship Management	3	0	3	5	Turkish
END 415	Network Models	3	0	3	5	Turkish
END 417	Enterprise Resource Planning	3	0	3	5	Turkish
END 419	Total Productive Maintenance	3	0	3	5	Turkish
END 421	Supply Chain Management	3	0	3	5	Turkish
END 425	Analytical Methods in Marketing	3	0	3	5	Turkish
END 429	Machine Learning	3	0	3	5	Turkish
END 431	Principles of Corporate Governance	3	0	3	5	Turkish

CODE	COURSE NAME	T	P	C	ECTS	Language
END 402	Stochastic Processes	3	0	3	5	Turkish
END 408	Queueing Theory	3	0	3	5	Turkish
END 410	Fundamentals of Human Resources Management	3	0	3	5	Turkish
END 412	Fuzzy Logic	3	0	3	5	Turkish
END 414	Design of Experiments	3	0	3	5	Turkish
END 416	Flexible Manufacturing Systems	3	0	3	5	Turkish
END 418	Project Management	3	0	3	5	Turkish
END 420	Lean Manufacturing Systems	3	0	3	5	Turkish
END 422	Multi-criteria Decision Making	3	0	3	5	Turkish

7th and 8th Semester Elective Courses (DEC 2), (DEC3)

CODE	COURSE NAME	T	P	C	ECTS	Language
END 455	Modeling of Production Systems	3	0	3	5	English
END 457	Process Management	3	0	3	5	English
END 459	Decision Analysis	3	0	3	5	English

CODE	COURSE NAME	T	P	C	ECTS	Language
END 461	Maintenance Management	3	0	3	5	English
END 463	Strategic Management	3	0	3	5	English
END 465	Portfolio Management and Investment Analysis	3	0	3	5	English
END 467	R&D and Innovation Management	3	0	3	5	English

Abbreviations — **C/E:** Compulsory/Elective, **T:** Theoretical, **P:** Practical, **C:** Credits, **ECTS:** European Credit Transfer System, **BSD/DEC:** Department Elective Courses (in Turkish)/Department Elective Courses (in English)