

**BALIKESIR UNIVERSITY**  
**FACULTY OF ENGINEERING - ARCHITECTURE**  
**DEPARTMENT OF INDUSTRIAL ENGINEERING**  
**2015-2016 ACADEMIC YEAR UNDERGRADUATE CURRICULA**

1st SEMESTER								2nd SEMESTER							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
FIZ1101	PHYSICS - I	C	3	0	0	3	4	FIZ1201	PHYSICS - II	C	3	0	0	3	4
MAT1101	CALCULUS - I	C	3	1	0	3,5	4	MAT1202	CALCULUS - II	C	3	1	0	3,5	4
KIM1101	CHEMISTRY	C	3	0	0	3	4	BIL1202	INTRODUCTION TO ALGORITHMS AND PROGRAMMING	C	2	1	0	2,5	3
TRS1101	ENGINEERING DRAWINGS	C	2	2	0	3	4	IST1202	STATISTICS	C	2	1	0	2,5	4
EME1119	INTRODUCTION TO INDUSTRIAL ENGINEERING	C	3	0	0	3	4	EMT1220	LINEAR ALGEBRA	C	2	0	0	2	3
EMT1113	PROBABILITY	C	2	0	0	2	4	EMM1222	COMPUTER AIDED DRAWING (AutoCAD)	C	3	0	0	3	3
	TOTAL		16	3	0	17,5	24		TOTAL		15	3	0	16,5	21
AIT1101	Atatürk Principles and Turkish Revolution History - I	C	2	0	0	2	2	AIT1201	Atatürk Principles and Turkish Revolution History - II	C	2	0	0	2	2
TDI1101	Turkish Language - I	C	2	0	0	2	2	TDI1201	Turkish Language - II	C	2	0	0	2	2
*	Foreign Language - I	C	2	0	0	2	2	**	Foreign Language - II	C	2	0	0	2	2
									Summer Training (Independent Internship)	10 Workdays					3
GRAND TOTAL			22	3	0	23,5	30	GRAND TOTAL			21	3	0	22,5	30

3rd SEMESTER								4th SEMESTER							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EME2117	APPLIED STATISTICS	C	3	1	0	3,5	5	EME2202	DIFFERENTIAL EQUATIONS	C	3	1	0	3,5	5
EME2119	CALCULUS - III	C	3	1	0	3,5	5	EME2204	METHODS OF MANUFACTURING	C	2	1	0	2,5	3
EME2121	MECHANICS	C	3	0	0	3	5	EME2206	MATERIAL SCIENCES	C	2	0	0	2	3
EME2123	TOTAL QUALITY MANAGEMENT	C	2	0	0	2	3	EME2208	COMPUTER AIDED DESIGN (CAD)	C	2	0	0	2	3
EME2125	GENERAL ECONOMICS	C	2	0	0	2	3	EMT	TECHNICAL ELECTIVE	E	2	0	0	2	3
EMT	TECHNICAL ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
EMM	ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
EMM	ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
									Summer Training (Workshop Internship)	20 Workdays					4
	TOTAL		19	2	0	20	30		TOTAL		17	2	0	18	30

5th SEMESTER								6th SEMESTER							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EME3115	ERGONOMICS	C	3	0	0	3	6	EME3216	WORK STUDY	C	3	1	0	3,5	5
EME3117	SYSTEM SIMULATION	C	4	0	0	4	6	EME3218	FACILITY LAYOUT	C	3	0	0	3	5
EME3119	OPERATIONS RESEARCH - I	C	4	0	0	4	6	EME3220	OPERATIONS RESEARCH - II	C	3	1	0	3,5	6
EME3121	PRODUCTION PLANNING AND CONTROL	C	4	0	0	4	6	EME3222	COST ANALYSIS	C	3	0	0	3	4
EMM	ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
EMM	ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
									Summer Training (Business Internship)	20 Workdays					4
	TOTAL		19	0	0	19	30		TOTAL		16	2	0	17	30

7th SEMESTER								8th SEMESTER							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EME4121	OPERATIONS RESEARCH - III	C	3	0	0	3	5	EME4222	DECISION MAKING AND SUPPORT SOFTWARES	C	4	0	0	4	5
EME4123	PRODUCTIVITY ANALYSIS	C	3	0	0	3	5	EME4224	SYSTEM ANALYSIS	C	4	0	0	4	5
EME4125	ENGINEERING ECONOMICS	C	4	0	0	4	5	EME4226	GRADUATION PROJECT	C	0	4	0	2	8
EME4127	INDUSTRIAL ENGINEERING DESIGN	C	2	0	0	2	6	EMS	SOCIAL ELECTIVE	E	2	0	0	2	3
EMS	SOCIAL ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
EMM	ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
EMM	ELECTIVE	E	2	0	0	2	3	EMM	ELECTIVE	E	2	0	0	2	3
	TOTAL		18	0	0	18	30		TOTAL		16	4	0	18	30

\*YD1101 Foreign Language (English) - I  
\*YDA1101 Foreign Language (German) - I  
\*YDF1101 Foreign Language (French) - I

\*\*YD1201 Foreign Language (English) - II  
\*\*YDA1201 Foreign Language (German) - II  
\*\*YDF1201 Foreign Language (French) - II

**CATAGORY:**

**C Compulsory**  
**E Elective**

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**2015-2016 ACADEMIC YEAR UNDERGRADUATE ELECTIVE COURSE LIST**

3rd SEMESTER ELECTIVE COURSES								4th SEMESTER ELECTIVE COURSES							
TECHNICAL ELECTIVES								TECHNICAL ELECTIVES							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EMT2115	COMPUTER PROGRAMMING	E	2	0	0	2	3	EMT2218	BUSINESS MANAGEMENT	E	2	0	0	2	3
EMT2117	ARTIFICIAL INTELLIGENCE	E	2	0	0	2	3	EMT2220	SUSTAINABLE & CLEAN PRODUCTION	E	2	0	0	2	3
EMT2119	PROJECT MANAGEMENT TECHNIQUES	E	2	0	0	2	3	EMT2222	DATABASE MANAGEMENT SYSTEMS	E	2	0	0	2	3
EMT2121	PUBLIC RELATIONS	E	2	0	0	2	3	EMT2224	ADVANCED PROGRAMMING	E	2	0	0	2	3
EMT2125	INTRODUCTION TO SOCIAL BEHAVIOUR	E	2	0	0	2	3								
ELECTIVES								ELECTIVES							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EMM2113	THERMODYNAMICS	E	2	0	0	2	3	EMM2214	MACHINING	E	2	0	0	2	3
EMM2115	MANAGEMENT AND ORGANIZATION	E	2	0	0	2	3	EMM2216	ENERGY CONVERSION SYSTEMS	E	2	0	0	2	3
EMM2117	TECHNICAL ENGLISH	E	2	0	0	2	3	EMM2218	ELECTRIC & ELECTRONICS	E	2	0	0	2	3
EMM2119	PRODUCTION MANAGEMENT	E	2	0	0	2	3	EMM2222	FLEXIBILITY IN WORK LIFE	E	2	0	0	2	3
EMM2121	OFFICE SOFTWARE	E	2	0	0	2	3	EMM2224	BUSINESS ENGLISH	E	2	0	0	2	3
EMM2123	FUNDAMENTALS OF LAW	E	2	0	0	2	3	EMM2226	STRENGTH OF MATERIALS	E	2	0	0	2	3
EMM2125	INDUSTRIAL RELATIONS	E	2	0	0	2	3	EMM2228	COMPUTER AIDED ENGINEERING APPLICATIONS	E	2	0	0	2	3
EMM2127	COMPUTATIONAL MATHEMATICS	E	2	0	0	2	3	EMM2230	STATISTICAL QUALITY CONTROL	E	2	0	0	2	3
5th SEMESTER ELECTIVE COURSES								6th SEMESTER ELECTIVE COURSES							
ELECTIVES								ELECTIVES							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EMM3103	ADVANCED METHODS OF MANUFACTURING	E	2	0	0	2	3	EMM3202	AUTOMATIC CONTROL	E	2	0	0	2	3
EMM3105	CONTEMPORARY ORGANIZATIONAL THEORIES	E	2	0	0	2	3	EMM3204	INVENTORY CONTROL	E	2	0	0	2	3
EMM3107	ELECTRONICS & PLC PROGRAMMING	E	2	0	0	2	3	EMM3206	ENTERPRISE RESOURCE PLANNING	E	2	0	0	2	3
EMM3109	ESTIMATION AND TIME SERIES ANALYSIS	E	2	0	0	2	3	EMM3208	OPTIMIZATION TECHNIQUES	E	2	0	0	2	3
EMM3111	MARKETING MANAGEMENT	E	2	0	0	2	3	EMM3210	PSYCHOLOGY OF WORKING	E	2	0	0	2	3
EMM3113	RENEWABLE ENERGY SOURCES	E	2	0	0	2	3	EMM3212	QUALITY MANAGEMENT SYSTEMS	E	2	0	0	2	3
								EMM3214	INDUSTRIAL APPLICATIONS OF SIMULATIONS	E	2	0	0	2	3
7th SEMESTER ELECTIVE COURSES								8th SEMESTER ELECTIVE COURSES							
ELECTIVES								ELECTIVES							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EMM4111	SUPPLY CHAIN MANAGEMENT	E	2	0	0	2	3	EMM4202	LABOR HEALTH AND JOB SAFETY	E	2	0	0	2	3
EMM4113	MACHINE ELEMENTS	E	2	0	0	2	3	EMM4204	HUMAN RESOURCES MANAGEMENT	E	2	0	0	2	3
EMM4115	ENTREPRENEURSHIP	E	2	0	0	2	3	EMM4206	INTERNATIONAL ECONOMICS	E	2	0	0	2	3
EMM4117	MANAGEMENT INFORMATION SYSTEM	E	2	0	0	2	3	EMM4208	DESIGN AND ANALYSIS OF ASSEMBLY LINE	E	2	0	0	2	3
EMM4119	MATERIAL HANDLING SYSTEMS	E	2	0	0	2	3	EMM4210	DATA ENVELOPMENT ANALYSIS	E	2	0	0	2	3
EMM4121	LABOR LAW	E	2	0	0	2	3	EMM4212	DYNAMIC PROGRAMMING	E	2	0	0	2	3
EMM4123	STRATEGIC MANAGEMENT	E	2	0	0	2	3	EMM4214	DATA MINING	E	2	0	0	2	3
EMM4125	COMPUTER INTEGRATED MANUFACTURING	E	2	0	0	2	3	EMM4216	LEAN MANUFACTURING	E	2	0	0	2	3
EMM4127	DESIGN OF EXPERIMENTS	E	2	0	0	2	3	EMM4218	ENTREPRENEURSHIP AND PATENT RIGHT	S	2	0	0	2	3
ELECTIVES								ELECTIVES							
CODE	COURSE NAME	Category	T	A	L	C	ECTS	CODE	COURSE NAME	Category	T	A	L	C	ECTS
EMS4101	CULTURE OF MUSIC	S	2	0	0	2	3	EMS4202	AESTHETICS AND ART HISTORY	S	2	0	0	2	3
EMS4103	MARBLING	S	2	0	0	2	3	EMS4204	BASIC FIRST AID	S	2	0	0	2	3
								EMS4206	BRIDGE	S	2	0	0	2	3