

Course Structure Diagram with Course Credits

1 st Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
PHY101		General Physics I	3	2	4	5
CHM101		General Chemistry I	3	2	4	6
MTH101		Mathematics I	4	0	4	5
ENG101		English I	3	0	3	3
IND 101		Fundamentals of Industrial Engineering	4	0	3	5
YİT101		Turkish for Foreign Students I	2	0	2	2
CHC100		Cyprus History and Culture	2	0	2	2
CAM101		Campus Orientation	2	0	0	2
Total						30

1 st Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
PHY102		General Physics II	3	2	4	6
MTH102		Mathematics II	4	0	4	6
ECC 103		Engineering Drawing	2	2	3	5
ENG 102		English II	3	0	3	3
YİT102		Turkish for Foreign Students II	2	0	2	2
TUR 102		Turkish Language II	0	0		
CAR122		Career Planning	2	0	0	2
IND 102		Information Technologies for Industrial Engineering	4	0	3	6
Total						30

2 nd Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS

				Laboratory	Credits	
AIT 101		Atatürk Principles and the History of Turkish Revolution I	2	0	2	2
AIT 103		Principles of Atatürk and the History of Turkish Revolution I	2	0	2	2
ECC 101		Introduction to Computers and Programming	2	2	3	5
IND 201		Elements of Linear Algebra	4	0	3	6
IND 203		Statistics I	4	0	3	6
IND 205		Production & Operations Management I	4	0	3	6
NTE		Non-Technical Electives	3	0	3	5
Total						30

2nd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
AIT 104		Principles of Atatürk and the History of Turkish Revolution II	2	0	2	2
ECC 108		Object Oriented Programming	2	0	3	5
IND 202		Graphing & Optimization Principles	2	2	3	6
IND 204		Statistics II	4	0	3	6
IND 206		Production & Operations Management II	4	0	3	6
IND 208		Factory Internship	4	0	0	8
NTE		Non-Technical Elective	3	0	3	4
Total						37

3rd Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
IND 301		Analysis of Service Systems	4	0	4	7
IND 303		Operational Research I	4	0	4	7
IND 31X		Technical Elective	4	0	3	6

IND 31X		Technical Elective	4	0	3	6
NTE		Non-Technical Elective	3	0	3	4
Total						30

3 rd Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
IND 302		Entrepreneurship & Innovation	4	0	4	5
IND 304		Operational Research I	4	0	4	6
IND 31X		Technical Elective	4	0	3	6
IND 31X		Technical Elective	4	0	3	6
NTE		Nontechnical Elective	3	0	3	6
IND 306		Service Internship	0	0	0	7.5
Total						37

4 th Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
IND 401		Transforming Ideas to Projects	2	2	4	7
IND 403		Auditing Productivity	3	2	4	7
IND 41X		Technical Elective	3	0	3	6
IND 41X		Technical Elective	3	0	3	6
NTE		Non-Technical Elective	3	0	3	4
Total						30

4 th Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
IND 402		Strategy of Quality	4	0	4	4
IND 404		Designing the Factory	4	0	4	4

IND 41X		Technical Elective	4	0	3	4
IND 41X		Technical Elective	4	0	3	4
NTE		Non-Technical Elective	3	0	3	4
IND 400		Graduation Project	3	0	3	10
Total						30

Technical Elective Courses 31X

Elective Courses						
Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
IND 311		Safety & Occupational Management	3	0	3	4
IND 312		Lean Thinking	3	0	3	4
IND 313		Implementing Industry 4.0	3	0	3	4
IND 314		Decision Theory	3	0	3	4
IND 315		Forecasting	3	0	3	4
IND 316		Supply Chain & Logistics	3	0	3	4
MTH323		Numerical Analysis	3	0	3	4
BME 340		Modeling of Biological Systems	3	0	3	4
ECC 311		Management of Information Systems	3	0	3	5

Technical Elective Courses 41X

Elective Courses						
Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
IND 411		Six Sigma	2	2	3	4
IND 412		Digitalization & Industry 4.0	3	0	3	4
IND 413		Economic Principles in Industrial Engineering	3	0	3	4
IND 414		Scheduling	3	0	3	6
IND 415		Fuzzy Systems	3	0	3	6
IND 416		Advanced Operations Management	3	0	3	6

IND 417		Location Techniques & Problems	3	0	3	6
IND 434		Quality Engineering	3	0	3	6
EE 432		Mechatronics	3	0	3	6
EE 463		Image Processing	3	0	3	6
BME 448		Micro and Nano Technologies in Biomedical Engineering	3	0	3	5
BME 401		Instrumental Analysis	3	0	3	5
BME 431		Cardiac Mechanics	3	0	3	5
BME 441		Orthopedic Biomechanics	2	2	3	5
BME 446		Figure Analysis and Machine Vision	3	0	3	5
BME 435		Bioinformatics	3	0	3	5
EE 437		Robotics Systems	3	0	3	5
ISE 412		Health Information Management	3	0	3	5
ISE 413		Strategic Information Systems Management	3	0	3	5
ECC 412		Database Applications	3	0	3	5
PGE 436		Simulating of Geosystems	3	0	3	5
ME 426		Introduction to Finite Elements	3	0	3	6
ME 429		Computer Aided Design (CAD)	3	0	3	6
ECC 404		Artificial Neural Network	3	0	3	6

Non-Technical (Non Field-Related) Elective Courses

Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
MAN101		Introduction to Management	3	0	3	5
ECON101		Introduction to Economics	3	0	3	5
FRE101		French I	3	0	3	5
FRE102		French II	3	0	3	5

GER101		German I	3	0	3	5
GER102		German II	3	0	3	5
PHIL101		Introduction to Philosophy	3	0	3	5
HIST103		History of Civilization	3	0	3	5
POL101		Political Science I	3	0	3	5
SOC101		Sociology	3	0	3	5