

Course and Program Outcomes Matrix

Course Code	Course Name	Program Outcomes												
		1	2	3	4	5	6	7	8	9	10	11	12	13
1st Year - 1st Semester														
PHY101	General Physics I	-	-	-	-	-	-	-	-	-	-	4	-	3
CHM101	General Chemistry I	-	-	-	-	-	-	-	3	3	3	-	-	1
MTH101	Mathematics I	2	2	3	3	4	4	5	5	4	5	4	5	3
ENG101	English I	5	2	-	2	-	-	-	-	-	-	-	-	1
IND 101	Fundamentals of Industrial Engineering	5	3	3	4	4	5	4	3	4	5	5	4	3
YİT101	Turkish for Foreign Students I	1	2	4	5	-	3	-	-	-	-	-	-	-
CHC100	Cyprus History and Culture	-	-	-	-	-	-	-	-	-	-	4	-	3
CAM101	Campus Orientation	-	-	-	-	-	-	-	-	-	-	4	-	5
1st Year - 2nd Semester														
PHY102	General Physics II	-	-	-	-	-	-	-	-	-	-	4	-	3
MTH102	Mathematics II	2	2	3	3	4	4	5	5	4	5	4	5	3
ECC 103	Engineering Drawing	5	2	-	2	-	-	-	-	-	-	-	-	1
ENG 102	English II	5	2	2	1	4	1	-	-	-	-	-	-	-
YİT102	Turkish for Foreign Students II	1	3	3	5	-	3	-	-	-	-	-	-	-
TUR 102	Turkish Language II	-	-	-	-	-	-	-	-	-	-	4	-	3
CAR122	Career Planning	-	-	-	-	-	-	-	-	-	-	4	-	3
IND 102	Information Technologies for Industrial Engineering	2	2	3	3	4	4	5	5	4	5	4	5	3
2nd Year - 1st Semester														
AIT 101	Atatürk Principles and the History of Turkish Revolution I	4	4	3	4	-	-	-	-	-	-	-	-	-
AIT 103	Principles of Atatürk and the History of Turkish Revolution I	-	4	5	4	4	-	-	-	-	-	-	-	5
ECC 101	Introduction to Computers and Programming	5	3	3	2	3	1	-	-	-	-	-	-	-
IND 201	Elements of Linear Algebra	5	3	3	4	4	5	4	3	4	5	5	4	3
IND 203	Statistics I	2	2	3	3	4	4	5	5	4	5	4	5	3
IND 205	Production & Operations Management I	5	3	3	4	4	5	4	3	4	5	5	4	3
2nd Year - 2nd Semester														
AIT 104	Principles of Atatürk and the History of Turkish Revolution II	1	3	3	5	1	2	-	-	-	-	-	-	-

ECC 108	Object Oriented Programming	3	3	4	4	4	-	-	-	-	5	5	4	5
IND 202	Graphing & Optimization Principles	2	2	3	3	4	4	5	5	4	5	4	5	3
IND 204	Statistics II	2	2	3	3	4	4	5	5	4	5	4	5	3
IND 206	Production & Operations Management II	2	2	3	3	4	4	5	5	4	5	4	5	3
IND 208	Factory Internship	5	5	5	5	5	5	5	5	5	5	5	5	4
NTE	Non-Technical Elective	2	2	1	2	2	3	3	3	2	4	3	4	3
3rd Year - 1st Semester														
IND 301	Analysis of Service Systems	5	4	3	4	3	3	-	-	-	5	4	4	4
IND 303	Operational Research I	4	4	4	3	3	4	5	5	5	5	5	5	5
IND 31X	Technical Elective	5	4	4	5	4	5	4	5	3	4	5	5	4
IND 31X	Technical Elective	5	4	4	5	4	5	4	5	3	4	5	5	4
NTE	Non-Technical Elective	2	2	1	2	2	3	3	3	2	4	3	4	3
3rd Year - 2nd Semester														
IND 302	Entrepreneurship & Innovation	1	5	2	3	-	2	-	-	-	-	-	-	-
IND 304	Operational Research I	4	5	2	4	4	-	-	-	-	-	5	5	4
IND 31X	Technical Elective	3	3	3	3	4	5	4	5	3	4	5	5	4
IND 31X	Technical Elective	5	4	4	5	4	5	4	5	3	4	5	5	4
NTE	Nontechnical Elective	2	2	1	2	2	3	3	3	2	4	3	4	3
IND 306	Service Internship	5	5	5	5	5	5	5	5	5	5	5	5	4
4th Year - 1st Semester														
IND 401	Transforming Ideas to Projects	5	3	3	4	4	5	4	3	4	5	5	4	3
IND 403	Auditing Productivity	2	2	3	3	4	4	5	5	4	5	4	5	3
IND 41X	Technical Elective	5	4	4	5	4	5	4	5	3	4	5	5	4
IND 41X	Technical Elective	3	3	3	3	4	5	4	5	3	4	5	5	4
NTE	Non-Technical Elective	2	2	1	2	2	3	3	3	2	4	3	4	3
4th Year - 2nd Semester														
IND 402	Strategy of Quality	5	3	3	4	4	5	4	3	4	5	5	4	3
IND 404	Designing the Factory	2	2	3	3	4	4	5	5	4	5	4	5	3
IND 41X	Technical Elective	5	4	4	5	4	5	4	5	3	4	5	5	4
IND 41X	Technical Elective	5	4	4	5	4	5	4	5	3	4	5	5	4
NTE	Non-Technical Elective	2	2	1	2	2	3	3	3	2	4	3	4	3
IND 400	Graduation Project	-	-	-	-	-	-	-	-	-	-	4	-	3

Technical (Field-Related) Elective Courses														
IND 311	Safety & Occupational Management	5	3	3	4	4	5	4	3	4	5	5	4	3
IND 312	Lean Thinking	5	3	3	4	4	5	4	3	4	5	5	4	3
IND 313	Implementing Industry 4.0	5	3	3	4	4	5	4	3	4	5	5	4	3
IND 314	Decision Theory	4	4	4	5	4	3	-	-	-	-	-	-	-
IND 315	Forecasting	3	3	3	3	3	-	-	-	-	-	-	-	-
IND 316	Supply Chain & Logistics	-	-	-	-	5	4	1	-	2	2	2	-	-
MTH323	Numerical Analysis	3	3	3	4	3	-	-	-	-	-	-	-	-
BME 340	Modeling of Biological Systems	4	4	4	4	4	-	2	-	-	-	-	-	-
ECC 311	Management of Information Systems	3	4	4	4	4	2	-	-	-	-	2	-	-
IND 411	Six Sigma	1	1	1	1	-	-	3	3	4	4	4	-	4
IND 412	Digitalization & Industry 4.0	3	-	3	4	-	-	-	-	-	-	-	-	-
IND 413	Economic Principles in Industrial Engineering	4	3	2	-	-	-	-	-	-	-	-	-	-
IND 414	Scheduling	4	3	4	3	-	-	-	-	-	-	-	-	-
IND 415	Fuzzy Systems	2	2	3	2	2	4	-	1	-	-	-	-	2
IND 416	Advanced Operations Management	3	3	4	3	4	3	-	-	-	-	2	-	-
IND 417	Location Techniques & Problems	3	3	4	3	4	3	-	-	-	-	2	-	-
IND 434	Quality Engineering	-	1	3	5	-	-	-	-	3	-	-	-	-
EE 432	Mechatronics	-	2	3	4	-	3	-	-	-	-	-	-	-
EE 463	Image Processing	-	5	4	-	-	4	-	-	-	-	-	-	-
BME 448	Micro and Nano Technologies in Biomedical Engineering	4	4	4	5	2	-	-	-	-	-	-	-	-
BME 401	Instrumental Analysis	4	5	-	3	1	-	-	-	-	-	-	-	-
BME 431	Cardiac Mechanics	3	3	3	3	3	-	-	-	-	-	-	-	-
BME 441	Orthopedic Biomechanics	4	3	4	4	-	-	-	-	-	-	-	-	-
BME 446	Figure Analysis and Machine Vision	3	4	4	4	3	2	1	1	2	3	2	-	3
BME 435	Bioinformatics	4	3	4	4	-	3	-	-	-	-	-	-	-
EE 437	Robotics Systems	1	3	3	4	-	-	-	-	-	-	-	-	-
ISE 412	Health Information Management	1	4	5	3	-	-	-	-	-	-	-	-	-
ISE 413	Strategic Information Systems Management	-	5	4	3	-	-	-	-	-	-	-	-	-
ECC 412	Database Applications	5	4	4	5	2	4	-	-	-	-	3	-	3

PGE 436	Simulating of Geosystems	3	4	4	4	4	3	-	-	-	-	2	-	-
ME 426	Introduction to Finite Elements	5	5	5	5	-	3	-	-	-	-	-	-	-
ME 429	Computer Aided Design (CAD)	4	4	4	-	-	-	-	-	-	-	-	-	-
ECC 404	Artificial Neural Network	4	4	-	4	-	-	-	-	-	-	-	-	-
Second Foreign Languages														
FRE101	French I	Please Select a Language												
FRE102	French II	Please Select a Language												
GER101	German I	Please Select a Language												
GER102	German II	Please Select a Language												

* 1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest