

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	5	-	-	-	2	-	2	-	-	-	-	-	-
CHM101	General Chemistry I	5	5	4	3	3	3	3	3	-	2	3	-	2
MTH101	Calculus I	5	2	-	-	2	-	-	-	-	-	-	-	-
ENG101	Foreign Language I	-	-	-	-	-	-	-	-	-	-	-	5	-
ECC103	Technical Drawing I	2	2	3	2	2	-	-	-	-	-	-	-	-
MSN101	Introduction to Materials Science and Nanotechnology Engineering	2	4	3	3	3	4	2	5	5	3	2	-	5
CAM100	Campus Orientation	-	-	-	-	-	-	-	-	-	-	-	-	-
CHC100	Cyprus History and Culture	-	-	-	-	-	-	5	-	-	-	-	-	3
1st Year - 2nd Semester														
PHY102	General Physics II	5	-	-	-	2	-	2	-	-	-	-	-	-
CHM112	General Chemistry II	5	5	4	3	3	3	3	3	-	2	3	-	2
MTH102	Calculus II	5	2	-	-	2	-	-	-	-	-	-	-	-
ENG102	Foreign Language II	-	-	-	-	-	-	-	-	-	-	-	5	-
ECC101	Introduction to Computers and Programming	1	3	3	5	-	3	-	-	-	-	-	-	-
CHM122	Organic Chemistry	5	4	3	3	4	3	1	2	2	2	3	-	5
CAR100	Career Planning	-	-	-	-	-	-	-	-	-	-	-	-	5
2nd Year - 1st Semester														
MSN201	Material Science I	5	5	3	3	3	4	-	3	3	3	-	-	5
MSN203	Foundations of Nanotechnology	5	4	3	3	3	4	2	5	5	3	2	-	5
CHM201	Inorganic Chemistry	5	4	3	3	4	3	1	2	2	2	3	-	5
MSN205	Physical Chemistry and Thermodynamics	5	5	5	4	4	4	-	4	2	1	-	-	3
ENG201	Oral Communication Skills	-	-	-	-	-	-	-	-	-	-	5	-	-
MTH201	Differential Equations	5	3	4	4	2	-	-	-	-	-	-	-	1
YIT101	Turkish for Foreign Students I	-	-	-	-	-	-	5	-	-	-	-	5	5
TUR101	Turkish Language I	-	-	-	-	-	-	5	-	-	-	-	-	5
2nd Year - 2nd Semester														
MSN202	Material Science II	5	5	2	2	2	4	-	3	3	2	-	-	5

MSN204	Mechanics of Nanomaterials	5	5	2	2	2	4	-	3	3	2	-	-	5
MSN206	Materials for Biological and Medical Applications	5	5	4	4	4	5	2	3	3	2	1	-	5
MSN208	Nanomaterials	5	5	3	3	3	4	-	3	3	2	-	-	5
PHY201	Introduction to Quantum Physics	5	4	3	3	3	4	2	1	2	2	-	-	4
MSN200	Summer Practice I	3	3	4	4	5	5	3	4	5	5	4	1	5
YIT102	Turkish for Foreign Students II	-	-	-	-	-	-	5	-	-	-	-	5	5
TUR102	Turkish Language II	-	-	-	-	-	-	5	-	-	-	-	-	5
3rd Year - 1st Semester														
MSN301	Synthesis and Fabrication of Nanoengineering Systems	5	5	4	4	4	4	-	3	3	3	-	-	5
MSN303	Introduction to Solid State Chemistry	5	5	3	4	3	4	-	3	3	3	-	-	5
MSN305	Phase Transformations and Kinetics	5	5	4	4	4	4	-	3	3	3	-	-	5
MSN307	Crystallography of Materials	5	5	3	5	3	4	-	3	3	3	-	-	5
MSN309	Research Skills in Science	4	4	2	5	5	3	3	4	5	5	5	-	5
AIT101	Principles of Atatürk and the History of Turkish Revolution I	-	-	-	-	-	-	-	-	-	-	-	-	3
AIT103	Principles of Atatürk and the History of Turkish Revolution I	-	-	-	-	-	-	-	-	-	-	-	-	3
3rd Year - 2nd Semester														
MSN302	Materials Selection in Engineering Design	5	5	4	5	5	5	-	3	4	5	-	-	5
MSN304	Nanoengineering System Design	5	5	4	5	5	5	-	3	4	5	-	-	5
MSN306	Instrumental Methods for Material Science and Nanoengineering	5	5	4	5	5	5	-	3	4	5	-	-	5
MSN308	Composite Materials	5	5	4	4	3	3	-	3	4	4	-	-	5
TOSD-1	Nontechnical Electives													
MSN300	Summer Practice II	3	3	4	4	5	5	3	4	5	5	4	1	5
AIT102	Principles of Atatürk and the History of Turkish Revolution II	-	-	-	-	-	-	-	-	-	-	-	-	3
AIT104	Principles of Atatürk and the History of Turkish Revolution II	-	-	-	-	-	-	-	-	-	-	-	-	3
4th Year - 1st Semester														
MSN401	Characterization of Nanoengineering Systems	5	5	4	5	5	5	-	3	4	5	-	-	5

MSN403	Experimental Methods in Material Science	5	5	4	5	5	5	2	4	4	5	3	-	5
BSD-1	Elective Courses													
BSD-2	Elective Courses													
BSD-3	Elective Courses													
TOSD-2	Nontechnical Electives													
4th Year - 2nd Semester														
MSN400	Graduation Project													
BSD-4	Elective Courses													
BSD-5	Elective Courses													
BSD-6	Elective Courses													
TOSD-3	Nontechnical Electives													
Technical (Field-Related) Elective Courses														
MSN451	Surface science													
MSN452	Polymeric Engineering Materials													
MSN453	Introduction to Biomaterials													
MSN454	Materials Science of Energy Technologies													
MSN455	Fundamentals of Solar Cells													
MSN456	Materials Science of Thin Films													
MSN457	Micro and Nano Structural Materials and Devices													
MSN458	Advanced Technology Materials													
MSN459	Electrical, Dielectric, and Magnetic Properties of Engineering Materials													
ME453	Material Engineering													
ECC433	Heat Treatment													
EE432	Mechatronics													
ECC419	Image Processing													
BME448	Micro and Nano Technologies in Biomedical Engineering													
ECC427	Management for Engineering													
ECC426	Economics for Engineering													
Second Foreign Languages														
FRE101	French I	French												
FRE102	French II	French												

GER101	German I	German
GER102	German II	German
GRE101	Greek I	Greek

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