

New INDUSTRIAL ENGINEERING Curriculum - starting from Spring 2016-2017

Yr.	Sem.	Ref Code	Course Code	Full Course Title	Course Category	Credit				Prerequisite	Department Council Decision	EMU TOTAL	ECTS
						Lec	Lab	Tut	Tot				
1	1	26711	CHEM101	General Chemistry	AC	4	1	0	4			19	6
		26712	PHYS101	Physics - I	FC	4	1	0	4				6
		26713	MATH151	Calculus - I	FC	4	0	1	4				6
		26714	ENGL191	Communication in English - I	UC	3	0	1	3				5
		26715	IENG112	Introduction to Industrial Engineering	AC	4	1	0	4				7
	2	26721	CMPE110	Fundamentals of Computing and Programming	UC	4	1	0	4			18	7
		26722	PHYS102	Physics - II	FC	4	1	0	4	PHYS101			6
		26723	MATH152	Calculus - II	FC	4	0	1	4	MATH 151			6
		26724	ENGL192	Communication in English - II	UC	3	0	1	3	ENGL191			5
		26725	MATH163	Discrete Mathematics	AC	3	0	1	3				6
2	3	26731	EENG225	Fundamentals of Electrical Engineering	AC	3	1	0	3	PHYS102		18	4
		26732	MENG231	Engineering Mechanics	AC	3	0	1	3	MATH151, PHYS101			5
		26733	MATH241	Linear Algebra & Ordinary Differential Equ.s	AC	4	0	1	4	MATH151			6
		26734	HIST280/ TUSL181	History of Turkish Reforms /Turkish as a Second Language	UC	2	0	0	2				2
		26735	MENG104	Engineering Graphics	AC	2	3	0	3				7
		26736	ECON231	Fundamentals of Economics	AC	3	0	1	3				4
		26739	IENG210	Industrial Training - I	AC	0	0	1	0	IENG112			1
	4	26741	MENG244	Fundamentals of Thermodynamics	AC	3	0	1	3			19	5
		26742	MGMT201	Principles of Management	AC	3	0	0	3				4
		26743	ACCT203	Cost Accounting for Managerial Decision Making	AC	3	0	1	3				4
26744		ENGL201	Communication Skills	AC	3	0	0	3	ENGL192		6		
26746		IENG263	Materials and Manufacturing Processes	AC	4	1	0	4	CHEM101	MATH241 (C)	6		
3	5	26751	MATH322	Probability and Statistical Methods	AC	3	0	1	3	MATH151		18	6
		26752	UE - I	Restricted UE - I (IENG355-Ethics in Eng.)	UE	3	0	0	3				4
		26753	IENG313	Operations Research - I	AC	4	1	0	4	IENG212, MATH241			6
		26754	IENG323	Engineering Economy	AC	4	1	0	4				6
		26755	IENG372	Information Systems and Technology	AC	4	1	0	4	MGMT201			6
		26759	IENG310	Industrial Training - II	AC	0	0	1	0		IENG210 (C), all freshman courses must be completed		1
	6	26761	AE - I	Area Elective - I	AE	3	0	1	3			18	6
		26762	IENG301	Fundamentals of Work Study and Ergonomics	AC	4	1	0	4		IENG263 (C), Submission of IENG210		7
		26763	IENG314	Operations Research - II	AC	4	1	0	4	MATH322	IENG313 (C)		6
		26764	IENG332	Production Planning - I	AC	4	1	0	4	IENG212, MATH322			6
26765		IENG385	Statistical Applications in Engineering	AC	3	0	1	3		MATH322 (C)	6		
4	7	26771	UE - II	UE - II (Soci./Psyc./Comm./Lang.)	UE	3	0	0	3			19	3
		26772	AE - II	Area Elective - II	AE	3	0	1	3				5
		26773	IENG431	Production Planning - II	AC	4	1	0	4	IENG332			6
		26774	IENG441	Facilities Planning and Design	AC	4	1	0	4	IENG301	IENG332 (C)		6
		26775	IENG461	Systems Modeling and Simulation	AC	4	1	0	4	MATH322	IENG385 (C)		6
		26776	IENG490	Introduction to Manufacturing and Service Systems Design	FC	1	0	1	1	DC*	IENG310 (C), one semester prior to IENG492		3
		26779	IENG410	Industrial Training - III	FC	0	0	1	0	DC**	IENG310 (C), 3 out of 5		1
	8	26781	UE - III	University Elective - III	UE	3	0	0	3			16	3
26782		AE - III	Area Elective - III	AE	3	0	1	3			6		
26783		AE - IV	Area Elective - IV	AE	3	0	1	3			6		
26784		IENG484	Quality Engineering	AC	4	1	0	4	MATH322, IENG385		6		
26785		IENG492	Manufacturing and Service Systems Design Project	FC	3	0	1	3	IENG490, DC***	IENG410 (C), IENG441(C), 3 out of 5 for the last/5 out of 5 before the last semester	8		
26789	IENG444	Seminars on Manufacturing and Service Systems	AC	2	0	0	0		in the last Spring semester before graduation	1			
47 Courses											145	240	

(*) : Department Consent

(**) : Submission of IENG310 report is sufficient. IENG301, IENG313, IENG323, IENG332, IENG372

(***) : Submission of IENG410 report is sufficient. IENG314, IENG323, IENG372, IENG431, IENG461