

Najjad Zeenni Faculty of Engineering

Advisory Plan for Industrial Engineering / Dual Studies Students

Study Year 1					
Semester: Fall-Winter					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1810101	Mathematics for Engineers I	3			
1810102	Physics	3			
1810103	Fundamentals of Electrical Engineering I	3			
1810104	Fundamentals of Electrical Engineering lab I		1		
1810105	Engineering Workshop and Safety	1	1		
1800002	Low intermediate English	2			
1800012	Communication skills	2			

1800001	Basics of Business Administration	2			
1810190	Practice I		3		
Total credits:		16	5		

Study Year 1					
Semester: Spring-Summer					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1810106	Mathematics for Engineers II	3		1810101	
1810107	Fundamentals of Electrical Engineering II	3		1810103	
1810108	Fundamentals of Electrical Engineering II Lab		1		
1810114	Physics Lab		1	1810102	
1840101	Introduction to Industrial Engineering	2			
1840102	Chemistry	2			
1810111	Informatics 1	2			
1810112	Informatics I Lab		1		
1800003	Intermediate English	2		1800002	
1830251	Principles of Marketing	2		1800001	
1810191	Practice II		3	1810190	

Total credits:	16	6
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Study Year 2					
Semester: Fall-Winter					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1810201	Mathematics for Engineers III	3		1810106	
1840203	Chemistry Lab		1	1840102	
1840204	Thermodynamics & Heat Transfer	3			
1840217	Maintenance Management	2			
1840205	Statics	2			
1800004	Upper-Intermediate English	2		1800003	
1840206	Electronics	2		1810108	
1810204	Informatics II	2		1810111	
1810205	Informatics II lab		1		
1810290	Practice III		3	1810191	
Total credits:		16	5		

Study Year 2					
Semester: Spring-Summer					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1840209	Engineering Materials (Metallurgy)	2			

1840208	Manufacturing Technology I	3			
1810230	Instrumentation and Measurement	3			
1810231	Instrumentation and Measurement Lab		1		
1840232	Dynamics	2			
1810301	Electrical Workshop I	1	1		
1840219	Engineering Drawing & Machine Elements Design	2	1		
1800010	Advanced English	2		1800004	
1810291	Practice IV		3	1810290	
Total credits:		15	6		

Study Year 3					
Semester: Fall-Winter					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1810323	Electrical Machines	3			
1840310	Electronics Lab		1		
1840311	Mechanics of Materials	2			
1840312	Sustainability (Environment, Recycling, Alt. Energy)	2			
1810330	Control Systems I	3			

1840313	Manufacturing Technology I Lab		1	1840208	
1840314	Fluid Mechanics	2			
1810011	Entrepreneurship	2			
	Elective Course	2			
1810390	Practice V		3	1810291	
Total credits:		16	5		

Study Year 3					
Semester: Spring-Summer					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1840315	Factory Layout & Organization Planning	2			
1830305	Project Management	2			
1830301	Production & Operations Management	2			
1830302	Human Resource Management	2			
1810324	Electrical Machines Lab		1		
1840333	Advanced Machine Design	3			
1840307	Quality Control	2			
1840353	Cost Accounting	2			
1810391	Practice VI		3	1810390	
Total credits:		15	4		

Study Year 4					
Semester: Fall-Winter					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		
1840428	Operations Research & Optimization	3			
1810309	Numerical Engineering Analysis	2			
1840421	Manufacturing Technology II	2		1840208	
180007X	University Requirement I	2			
180007X	University Requirement II	2			
1840424	Engineering Economy	2			
1810402	Introduction to Graduation Project	3		Consent of Department	
1810490	Project I		3	Consent of Department	
Total credits:		16	3		

Study Year 4					
Semester: Spring-Summer					
Course		Credits		Prerequisite(s)	Instructor(s)
No.	Title	Theory	Practice		

1840434	Management Information Systems	3			
1840425	Total Quality Management	3			
1840422	Manufacturing Technology II Lab		1		
1840416	Pneumatics & Hydraulics	3			
1840426	Special Topics in Industrial Engineering	3			
1831402	International Supply Chain Management	2			
180007X	University Requirement III	2			
1810491	Project 2		3	1810490	
Total credits:		16			