

Degree Plan

Degree : Bachelor

Faculty : Faculty of Engineering

Plan hrs : 160

Semester : 451

Dept : Industrial Engineering

Plan Type : Main

Edition : 3

Major :4359 Industrial Engineering

Gender : All

Council Session:

Deanship Session:

Faculty Session: 16

Dept Session: 14

Council Date:

Deanship Date:

Faculty Date: 24/04/22

Dept Date: 20/04/22

Group : إجبارية (33)

First Level				
code	Course Name	Hr.	requisite	Year.
CID 1101	Communication Skills	2	-	-
CSC 1102	Problem Solving in Computing	3	-	-
ELS 1101	English Language I	3	-	-
ISLS 1101	Islamic Culture between Authenticity and Contemporary	2	-	-
MATH 1101	Introduction to Mathematics	3	-	-
PHYS 1101	Fundamentals of Physics	3	-	-
Total			16	

Second Level				
code	Course Name	Hr.	requisite	Year.
ARAB 1101	Arabic Language Skills	2	-	-
CHEM 1101	Fundamentals of Chemistry	3	-	-
CSC 1103	Introduction to Programming	3	CSC 1102 - S	-
EDUF 1102	Critical Thinking Skills and its Modern Applications	3	-	-
ELS 1102	English Language II	3	ELS 1101 - S	-
MATH 1102	Differential Calculus	3	MATH 1101 - S	-
Total			17	

Third Level				
code	Course Name	Hr.	requisite	Year.
ISLS 1201	Moral and Cultural Values in Islam	2	ISLS 1101 - S	-
LANT 1203	Writing I	3	ELS 1102 - S	-
MATH 1205	Linear Algebra	3	MATH 1102 - S	-
MATH 1254	Engineering Mathematics	3	MATH 1102 - S	-
PHYS 1251	General Physics	4	PHYS 1101 - S	-
Total			15	

Fourth Level				
code	Course Name	Hr.	requisite	Year.
ELEN 1251	Fundamentals of Electrical Engineering	3	PHYS 1251 - S	-
LANT 1206	Writing II	3	LANT 1203 - S	-
MATH 1204	Ordinary Differential Equations	3	MATH 1254 - S	-
MATH 1255	Multivariable Calculus	3	MATH 1254 - S	-
STAT 1253	Statistics and Probability	3	MATH 1102 - S	-
Total			15	

Degree Plan

Degree : Bachelor

Faculty : Faculty of Engineering

Plan hrs : 160

Semester : 451

Dept : Industrial Engineering

Plan Type : Main

Edition : 3

Major : 4359 Industrial Engineering

Gender : All

Council Session:

Deanship Session:

Faculty Session: 16

Dept Session: 14

Council Date:

Deanship Date:

Faculty Date: 24/04/22

Dept Date: 20/04/22

Fifth Level				
code	Course Name	Hr.	requisite	Year.
CIEN 1201	Statics	2	PHYS 1251 - S	-
INEN 1301	Fundamentals of Design in Industrial Engineering	3	MATH 1204 - S LANT 1206 - S	-
INEN 1302	Engineering Economy	2	MATH 1205 - S	-
MCEN 1325	Materials Science and Engineering	3	CHEM 1101 - S MATH 1205 - S	-
STAT 1203	Operation Research I	3	MATH 1205 - S	-
STAT 1351	Engineering Statistics	3	STAT 1253 - S	-
Total			16	

Seventh Level				
code	Course Name	Hr.	requisite	Year.
ELEN 1406	Practical Engineering Essentials	1	-	-
INEN 1401	Work Environment and Human Factors	4	INEN 1306 - S	-
INEN 1402	Production Planning and Inventory Control	3	STAT 1203 - S	-
INEN 1403	Agile Project Management	3	INEN 1307 - S	-
STAT 1310	Operations Research II	3	STAT 1203 - S	-
Total			14	

Ninth Level				
code	Course Name	Hr.	requisite	Year.
INEN 1409	Lean manufacturing	3	INEN 1407 - S	-
INEN 1410	Facilities Planning and Material Handling	3	INEN 1402 - S	-
INEN 1411	Logistics and Supply Chains	4	INEN 1404 - S STAT 1310 - S	-
Total			10	

Sixth Level				
code	Course Name	Hr.	requisite	Year.
INEN 1303	Industrial information Analysis	3	STAT 1351 - S	-
INEN 1304	Occupational Safety and Health Engineering	3	CHEM 1101 - S	-
INEN 1305	Manufacturing Materials	3	MCEN 1325 - S	-
INEN 1306	Work Study	3	STAT 1351 - S	-
INEN 1307	Engineering Project Management	3	INEN 1302 - S	-
Total			15	

Eighth Level				
code	Course Name	Hr.	requisite	Year.
INEN 1404	Analytical Decision Making	3	INEN 1303 - S STAT 1310 - S	-
INEN 1405	Industrial Quality Control	3	STAT 1351 - S	-
INEN 1406	Automation and Integrated Manufacturing	3	INEN 1305 - S CIEN 1201 - S	-
INEN 1407	Budgeting and Financial Analysis	3	STAT 1351 - S	-
INEN 1408	Industrial Simulation	3	STAT 1310 - S	-
INEN 1498	Project	3	-	-
Total			18	

Tenth Level				
code	Course Name	Hr.	requisite	Year.
INEN 1412	Career Competence in Industrial Engineering	2	-	-
INEN 1495	Training	3	-	-
Total			5	

Degree Plan

Degree : Bachelor

Faculty : Faculty of Engineering

Plan hrs : 160

Semester : 451

Dept : Industrial Engineering

Plan Type : Main

Edition : 3

Major : 4359 Industrial Engineering

Gender : All

Council Session:

Deanship Session:

Faculty Session: 16

Dept Session: 14

Council Date:

Deanship Date:

Faculty Date: 24/04/22

Dept Date: 20/04/22

Group : إختيارية (3)

code	Course Name	Hr.	requisite	Year.
CIT 1251	Web Design	3	CSC 1103 - S	-
CSC 1251	Introduction to Artificial Intelligence Applications	3	CSC 1102 - S	-
Total		6		

code	Course Name	Hr.	requisite	Year.
EDUF 1251	Introduction to Scientific Research	2	-	-
Total		2		

code	Course Name	Hr.	requisite	Year.
FIN 1251		3	-	-
LAW 1203	Commercial Law	3	-	-
Total		6		

code	Course Name	Hr.	requisite	Year.
INEN 1413	Design and Analysis of Production Systems	3	INEN 1408 - S	-
INEN 1414	Maintainability and Reliability	3	INEN 1402 - S	-
INEN 1415	Logistics and Transportation Engineering	3	INEN 1402 - S	-
INEN 1416	Advanced Engineering Management	3	INEN 1403 - S	-
INEN 1417	Engineering Marketing	3	INEN 1403 - S	-
INEN 1418	Advanced engineering safety	3	INEN 1401 - S	-
INEN 1419	Machine Science	3	INEN 1404 - S	-
INEN 1420	Data Mining	3	INEN 1404 - S	-
INEN 1421	Total Quality Management	3	INEN 1405 - S	-
INEN 1422	Sustainability	3	INEN 1405 - S	-
INEN 1423	Industry 4.0	3	INEN 1402 - S	-
INEN 1424	Selected Topics in Industrial Engineering I	3	-	-
INEN 1425	Selected Topics in Industrial Engineering II	3	-	-
INEN 1426	Engineering Accounting	3	INEN 1404 - S	-
INEN 1427	Strategic Management	3	STAT 1310 - S	-
INEN 1428	Engineering Entrepreneurship	3	INEN 1407 - S	-
INEN 1429	Risk Analysis and Evaluation	3	INEN 1403 - S	-

code	Course Name	Hr.	requisite	Year.
ARAB 1102	Arabic Editing skills	3	-	-
LANT 1101	English Language Grammar	3	-	-
Total		6		

code	Course Name	Hr.	requisite	Year.
ISLS 1351		2	ISLS 1201 - S	-
ISLS 1352	History of the Kingdom of Saudi Arabia	2	-	-
Total		4		

Degree Plan

Degree : Bachelor

Faculty : Faculty of Engineering

Plan hrs : 160

Semester : 451

Dept : Industrial Engineering

Plan Type : Main

Edition : 3

Major : 4359 Industrial Engineering

Gender : All

Council Session:

Deanship Session:

Faculty Session: 16

Dept Session: 14

Council Date:

Deanship Date:

Faculty Date: 24/04/22

Dept Date: 20/04/22

code	Course Name	Hr.	requisite	Year.
INEN 1430	Quality in the Service Sectors	3	INEN 1405 - S	-
INEN 1431	Industrial Optimization with Quantum Experimental Techniques	3	INEN 1407 - S	-
INEN 1432	Robotics engineering	3	INEN 1406 - S	-
INEN 1433	Human Interaction with the Machine	3	INEN 1401 - S	-
INEN 1434	Statistical modeling	3	INEN 1408 - S	-
INEN 1435	Manufacturing Strategies	3	INEN 1406 - S	-
Total			69	