



# Guidance Plan

## First Year:

### First Semester

Course No.	Course Title	Cr.hr	Prerequisite
0300101	Calculus 1	3	---
0300121	General Physics 1	3	---
0302111	General Physics Lab 1	1	0300121*
0200105	Communication Skills (Arabic 1 )	3	0200150
0200106	Communication Skills (English 1 )	3	0200151
0905100	Engineering Workshops (1)	1	---
<b>Total</b>		14	

### Second Semester

Course No.	Course Title	Cr.hr	Prerequisite
0300102	Calculus 2	3	0300101
0300122	General Physics 2	3	0300121
0302112	General Physics Lab 2	1	0300122*
0300131	General Chemistry 1	3	---
0300133	General Chemistry Lab 1	1	0300131*
1501119	Programming for Engineers	3	---
0905103	Engineering Drawing	2	---
<b>Total</b>		16	

\* Co-requisite

\*\* **Practical training:** for a period of 8 weeks in an engineering entity after successful completion of 115 credit hours of program's requirements.

Update Date: 17/8/2021



## **Second Year:**

### **First Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904201	Engineering Mathematics	3	0300102
0904211	Electrical Circuits (1)	3	0300122
0904234	Digital Fundamentals	3	---
0904245	Electromagnetics (1)	3	0904201+ 0300122
0902100	Introduction to Eng. and Professional Ethics	1	---
0200104	National Education	3	---
<b>Total</b>		16	

### **Second Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904212	Electrical Circuits (2)	3	0904211
0904213	Electrical Circuits lab	1	0904212*
0904221	Electronics (1)	3	0904211
0904235	Digital Fundamentals lab	1	0904234
0905201	Advanced Engineering Mathematics	3	0300102
---	University requirement/elective	3	---
0200100	Military Sciences	3	---
<b>Total</b>		17	

\* **Co-requisite**

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### **Third Year:**

#### **First Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904300	Signals and Systems	3	0904211
0904306	Technical writing and communication skills	2	0200106
0904328	Electronics (2)	3	0904221
0904304	Numerical Analysis	3	0905201
0904329	Electronics lab	1	0904328*
0904345	Electromagnetics (2)	3	0904245
0904361	Electrical machines (1)	3	0904245+0904212
<b>Total</b>		18	

#### **Second Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904303	Probability and Random Variables	3	0904300
0904305	Electrical Engineering Software (1)	1	1501119
0904410	Microprocessors and Embedded Systems	3	0904234
0904411	Microprocessors and Embedded Systems lab	1	0904410*
0904456	Communication (1)	3	0904300
0904459	Electrical machines (2)	3	0904361
0904460	Electrical machines lab	1	0904459*
--	Free course	3	
<b>Total</b>		18	

\* Co-requisite

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### **Fourth Year:**

#### **First Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904403	Electrical Engineering Software (2)	1	0904305+0904459
0904428	Power Electronics	3	0904221+0904300
0904470	Control Theory	3	0904300
0904471	Control lab	1	0904470*
0904478	Communication (2)	3	0904456+0904303
0906402	Engineering economics and management	3	90 cr.hr.
---	University requirement/elective	3	---
<b>Total</b>		17	

#### **Second Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904444	**Practical training for electrical engineering	3	115 cr.hr.
0904429	Power Electronics Lab	1	0904428
0904462	Electrical power System analysis	3	0904361
0904484	Programmable logic control (PLC)	3	0904470
0904486	Programmable Logic Control (PLC) lab	1	0904484*
0904479	Communication lab	1	0904478*
0200111	Islamic Culture and Contemporary Issues	3	---
---	University requirement/elective	3	---
<b>Total</b>		18	

\* **Co-requisite**

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**Fifth Year:****First Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904420	Digital Electronics	3	0904328
0904427	Digital Electronics lab	1	0904420*
0904463	Electrical power system lab	1	0904462
0904541	project (1)	1	115 cr.hr.
0904524	Communication electronics	3	0904456+0904328
---	Specialization Requirement/elective	3	
---	University requirement/elective	3	---
<b>Total</b>		<b>15</b>	

**Second Semester**

Course No.	Course Title	Cr.hr	Prerequisite
0904556	Communication systems	3	0904478
0904542	Project (2)	2	0904541+0904444
-----	Specialization Requirement /elective	3	
-----	Specialization Requirement /elective	3	
<b>Total</b>		<b>11</b>	

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