Princess Sumaya University for Technology
جامعة الأميرة سمية للتكنولوجيا

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Guidance Plan for Bachelor's Degree in Communications Engineering \ Internet of Things for year 2026 - 2027

First Year

First Semester

Course No.	Course Title	Cr. Hrs.
20132	Calculus (1)	3
20140	Basic Concepts in Chemistry	1
20141	Physics (1)	3
31112	Arabic Language Communication Skills	3
31122	English Language Communication Skills	3
31151	National Education	3
31162	Leadership and Societal Responsibility	**1**
	Total	**17**

Second Semester

Course No.	Course Title	Cr. Hrs.
11103	Structured Programming	3
11151	Structured Programming Lab	1
20133	Calculus (2)	3
20134	Discrete Mathematics (1)	3
20142	Physics (2)	3
20150	Physics Lab	1
	Elective University Requirements	3
	Total	**17**

Second Year

First Semester

Course No.	Course Title	Cr. Hrs.
20231	Calculus (3)	3
20232	Engineering Mathematics (1)	3
20234	Linear Algebra	3
21219	Engineering Workshop	1
21221	Electric Circuits (1)	3
22271	**Artificial Intelligence and Data Analytics in Engineering**	**3**
	Total	**16**

Second Semester

Course No.	Course Title	Cr. Hrs.
21218	Engineering Drawing Lab	1
21222	Electric Circuits (2)	3
21229	Electric Circuits Lab	1
21233	Electronics Circuits Fundamentals	3
22241	Digital Logic Design	3
22242	Object-Oriented Laboratory for IoT	1
31251	Military Science	3
	Total	**15**

Third Year

First Semester

Course No.	Course Title	Cr. Hrs.
20331	Engineering Mathematics (2)	3
20335	Applied Probability and Statistics	3
21319	Electronic Circuits Fundamental Lab	1
27353	Signals and Systems	3
24301	**Modeling & Simulation in Engineering Applications**	**3**
21318	**Computer-Aided Engineering Design Workshop**	**1**
27332	**Introduction to IoT**	**1**
	Total	**15**

Second Semester

Course No.	Course Title	Cr. Hrs.
11325	Database Fundamentals	3
22348	Digital Logic Lab	1
27321	Electromagnetics (1)	3
27351	Internet of Things programming and applications	3
27355	Communication Principles	3
31256	Entrepreneurship and Innovation	1
	Total	**14**

Fourth Year

First Semester

Course No.	Course Title	Cr. Hrs.
24471	Automatic Control	3
27420	Wireless and Mobile Communications	3
27441	IoT Security and Privacy	3
27442	Internet of Things Security Lab	1
27450	Antennas and Waves Propagation	3
27456	Communications Lab	1
27401	**Industry Apprenticeship Practicum**	**3**
	Total	**17**

Second Semester

Course No.	Course Title	Cr. Hrs.
27430	IoT Middleware Platforms	3
27451	Communication Networks	3
27452	Communication Networks Lab	1
27470	IoT Sensor Networks	3
27471	IoT Sensor Networks Lab	1
31375	Life Skills	**1**
24401	**Engineering Innovation & Tech Entrepreneurship**	**3**
	Total	**15**

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Fifth Year

First Semester

Course No.	Course Title	Cr. Hrs.
27520	Mobile Communications & Wireless IoT Lab	1
27550	Digital Signal Processing	3
27551	Wireless IoT	3
27591	Senior Design Project (1)	1
	Elective Program Requirements	3
	Elective University Requirements	**3**
22572	**Machine Learning & Artificial Intelligence**	**3**
	Total	**17**

Second Semester

Course No.	Course Title	Cr. Hrs.
27570	Fog Computing for IoT	3
27592	Senior Design Project (2)	2
	Elective Program Requirements	6
27412	**Engineering Economics & Digital Application**	**3**
	Total	**14**