



Study Plan for Bachelor's Degree in Electronics Engineering for year 2021-2022

The Bachelor's Degree in Electronics Engineering awarded at Princess Sumaya University for Technology after the successful completion of 160 Credit Hours distributed as follows:-

University Requirements (27 CHs)

1. Compulsory Requirements (18 CHs)

| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|--|--------------|------------------------|------------|
| 11100 | Computer Skills (Remedial) | 0 | | |
| 31021 | Arabic Language Communication Skills (Remedial) | 0 | | |
| 31022 | English Language Communication Skills (Remedial) | 0 | | |
| 31112 | Arabic Language Communication Skills | 3 | 31021 | |
| 31122 | English Language Communication Skills | 3 | 31022 | |
| 31151 | National Education | 3 | | |
| 31160 | Leadership and Societal Responsibility | 0 | | |
| 31251 | Military Science | 3 | | |
| 31254 | Entrepreneurship and Innovation | 3 | Finish 60 Credit Hours | |
| 31374 | Life Skills | 3 | Finish 60 Credit Hours | |

2. Elective Requirements (9 CHs)

| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|---|--------------|--------------|------------|
| 20251 | History of Science | 3 | | |
| 31100 | Sports and Health | 3 | | |
| 31130 | Foreign languages | 3 | | |
| 31152 | Arabic Islamic Civilization | 3 | | |
| 31211 | Arabic Literature | 3 | 31112 | |
| 31252 | Governance and Development | 3 | | |
| 31260 | Human Rights | 3 | | |
| 31261 | Introduction to Politics and Economic Science | 3 | | |
| 31264 | Introduction To Psychology | 3 | | |
| 31272 | Development and Environment | 3 | | |
| 31311 | Scientific Research Methods | 3 | | |
| 31351 | Contemporary Issues in the Arab World | 3 | | |
| 31352 | Jerusalem : History and Facts | 3 | | |
| 31362 | Philosophy and Critical Thinking | 3 | | |

School Requirements (30 CHs)

1. Compulsory Requirements (30 CHs)

| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|----------------------------|--------------|--------------|------------|
| 11103 | Structured Programming | 3 | 11100 | |
| 11151 | Structured Programming Lab | 1 | | 11103 |
| 20132 | Calculus (1) | 3 | | |
| 20133 | Calculus (2) | 3 | 20132 | |



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| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|--|--------------|------------------------|------------|
| 20140 | Basic Concepts in Chemistry | 1 | | |
| 20141 | Physics (1) | 3 | | |
| 20142 | Physics (2) | 3 | 20141 | |
| 20150 | Physics Lab | 1 | | 20142 |
| 20200 | Technical Writing and Communication Skills | 3 | 31112,31122 | |
| 20231 | Calculus (3) | 3 | 20133 | |
| 21218 | Engineering Drawing Lab | 1 | | |
| 21219 | Engineering Workshop | 1 | | |
| 23411 | Engineering Economics | 3 | Finish 99 Credit Hours | |
| 24411 | Engineering Ethics | 1 | Finish 99 Credit Hours | |

Program Requirements (103 CHs)

1. Compulsory Requirements (94 CHs)

| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|------------------------------------|--------------|-------------------------|------------|
| 20232 | Engineering Mathematics(1) | 3 | 20133 | |
| 20234 | Linear Algebra | 3 | | |
| 20331 | Engineering Mathematics(2) | 3 | 20231,20232 | |
| 20333 | Numerical Analysis | 3 | 20133 | |
| 20335 | Applied Probability and Statistics | 3 | 20231 | |
| 21221 | Electric Circuits (1) | 3 | 20142 | |
| 21222 | Electric Circuits (2) | 3 | 21221 | |
| 21229 | Electric Circuits Lab | 1 | | 21222 |
| 21231 | Electronics (1) | 3 | 21221 | |
| 21331 | Electronics (2) | 3 | 21231 | |
| 21332 | Digital Electronics | 3 | 21231 | |
| 21338 | Electronics Lab | 1 | 21229 | 21331 |
| 21339 | Digital Electronics Lab | 1 | 21229 | 21332 |
| 21431 | Communication Electronics | 3 | 21331,23357 | |
| 21432 | Optical Electronics | 3 | 21331 | |
| 21439 | Communication Electronics Lab | 1 | 21338 | 21431 |
| 21490 | Practical Training | 3 | Finish 99 Credit Hours | |
| 21531 | VLSI Circuits | 3 | 21332 | |
| 21572 | Industrial Electronics | 3 | 24471 | |
| 21574 | Medical Electronics | 3 | 21331 | |
| 21579 | Industrial Electronics Lab | 1 | 21338 | 21572 |
| 21591 | Senior Project (1) | 1 | Finish 120 Credit Hours | |
| 21592 | Senior Project (2) | 2 | 21591 | |
| 22241 | Digital Logic Design | 3 | | |
| 22348 | Digital Logic Lab | 1 | 22241 | |
| 22442 | Embedded Systems | 3 | 21231,21338,22241,22348 | |
| 23321 | Electromagnetics (1) | 3 | 20142,20331 | |
| 23351 | Signals and Systems | 3 | 20232,21222 | 23356 |



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| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|---|--------------|--------------|------------|
| 23356 | Programming Applications in Signals & Systems Lab | 1 | | 23351 |
| 23357 | Communications (1) | 3 | 23351 | |
| 23452 | Communications (2) | 3 | 20335,23357 | |
| 23459 | Communications Lab | 1 | 21338 | 23452 |
| 23571 | Digital Signal Processing | 3 | 23351 | |
| 24322 | Instruments and Measurements | 3 | 21222,21231 | |
| 24329 | Instruments and Measurements Lab | 1 | 21229 | 24322 |
| 24361 | Electric Machines (1) | 3 | 21222,23321 | |
| 24467 | Power Electronics | 3 | 21331,24361 | |
| 24471 | Automatic Control | 3 | 23351 | |
| 24479 | Automatic Control Lab | 1 | | 24471 |

2. Elective Requirements (9 CHs)

| Course Number | Course Title | Credit Hours | Prerequisite | Concurrent |
|---------------|--|--------------|--------------|------------|
| 11206 | Object Oriented Programming | 3 | 11103 | |
| 20242 | Materials Physics and Chemistry for Engineers | 3 | 20132,20142 | |
| 21533 | RF Microelectronics | 3 | 21331,23357 | |
| 21534 | Mixed Signal IC Design | 3 | 21331 | |
| 21535 | Solid State Electronics | 3 | 21231 | |
| 21536 | Analog IC Design | 3 | 21331 | |
| 21573 | Image Processing | 3 | 23351 | |
| 21581 | Special Topics in Electronics Engineering | 3 | | |
| 22320 | Computer Architecture (1) | 3 | 22241 | |
| 22344 | Microprocessors | 3 | 21231,22241 | |
| 22582 | Special Topics in Computer Engineering (1) | 3 | | |
| 23582 | Special Topics in Communications Engineering (1) | 3 | | |
| 24573 | Digital Control | 3 | 24471 | |
| 24583 | Special Topics in Power And Energy Engineering | 3 | | |
| 25593 | Special Topics in Network Security Engineering (1) | 3 | | |