

## Plan of Study: Bachelor of Science in Electrical and Electronics Engineering

| <b>Year I</b>          |   |                     |
|------------------------|---|---------------------|
| <b>Fall Semester</b>   |   | <b>15 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                         | <b>Credit Hours</b> |
| SOCS 102               | Omani Society                               | 3                   |
| ENGL 101               | Basic Academic English I                    | 3                   |
| MATH 199               | Calculus I                                  | 3                   |
| PHYS 170               | Fundamentals of Physics I                   | 3                   |
| PHYS 170L              | Introductory Physics Laboratory             | 1                   |
| ENGR 105               | Engineering Graphics                        | 2                   |
| <b>Spring Semester</b> |   | <b>17 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                         | <b>Credit Hours</b> |
| EECE 130               | Computers and Programming I                 | 3                   |
| EECE 130L              | Computers and Programming Laboratory        | 1                   |
| EECE 210               | Electric Circuits I                         | 3                   |
| ENGL 102E              | English for Engineering and Sciences I      | 3                   |
| ENGR 100               | Introduction to Engineering                 | 3                   |
| MATH 200               | Calculus II                                 | 3                   |
| ENGR 110               | Engineering Workshop                        | 1                   |
| <b>Summer Semester</b> |   | <b>6 Credits</b>    |
| <b>Code</b>            | <b>Course Title</b>                         | <b>Credit Hours</b> |
| ENGL 203E              | English for Engineering and Sciences II     | 3                   |
| MATH 205               | Calculus III                                | 3                   |
| <b>Year II</b>         |   |                     |
| <b>Fall Semester</b>   |   | <b>17 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                         | <b>Credit Hours</b> |
| EECE 211               | Electric Circuits II                        | 3                   |
| EECE 210L              | Electric Circuits Laboratory I              | 1                   |
| EECE 220               | Digital Systems Design                      | 3                   |
| EECE 230               | Computers and Programming II                | 3                   |
| EECE 222               | Discrete Mathematics for Engineers          | 3                   |
| PHYS 210               | Fundamentals of Physics II                  | 3                   |
| EECE 211L              | Electric Circuits Laboratory II             | 1                   |
| <b>Spring Semester</b> |   | <b>17 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                         | <b>Credit Hours</b> |
| EECE 212               | Basic Electronics                           | 3                   |
| EECE 212L              | Basic Electronics Laboratory                | 1                   |
| EECE 220L              | Digital Systems Laboratory                  | 1                   |
| EECE 221               | Microprocessor Systems                      | 3                   |
| MATH 250E              | Probability and Statistics                  | 3                   |
| MATH 210               | Differential Equations                      | 3                   |
| ENTR 200               | Entrepreneurship: Innovation and Creativity | 3                   |
| <b>Summer Semester</b> |   | <b>3 Credits</b>    |
| <b>Code</b>            | <b>Course Title</b>                         | <b>Credit Hours</b> |
| MATH 277               | Linear Algebra I                            | 3                   |
| <b>Year III</b>        |   |                     |
| <b>Fall Semester</b>   |   | <b>16 Credits</b>   |

| <b>Code</b>            | <b>Course Title</b>                                    | <b>Credit Hours</b> |
|------------------------|--|---------------------|
| EECE 221L              | Microprocessor Laboratory                              | 1                   |
| EECE 343               | Electromagnetic Field Theory                           | 3                   |
| EECE 350               | Fundamentals of Electric Power Engineering             | 3                   |
| ENGL 204               | Advanced English for Academic Purposes<br>and Research | 3                   |
| ENGR 300               | Engineering Economy                                    | 3                   |
| MATH 335               | Mathematics for Science and Engineering                | 3                   |
| <b>Spring Semester</b> |  | <b>16 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                                    | <b>Credit Hours</b> |
| ENGL 305               | Advanced English Language and<br>Communication Skills  | 3                   |
| EECE 340               | Signals and Systems                                    | 3                   |
| EECE 361               | Power Systems I  | 3                   |
| EECE 362               | Introduction to Electric machines                      | 3                   |
| EECE XXXL              | Major Elective Laboratory                              | 1                   |
| Code                   | Science Elective                                       | 3                   |
| <b>Summer Semester</b> |  | <b>0 Credits</b>    |
| <b>Code</b>            | <b>Course Title</b>                                    | <b>Credit Hours</b> |
| EECE 400               | Practical Training                                     | 0                   |
| <b>Year IV</b>         |  |                     |
| <b>Fall Semester</b>   |  | <b>16 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                                    | <b>Credit Hours</b> |
| EECE 401               | Final Year Project I                                   | 0                   |
| EECE 342               | Communication Systems                                  | 3                   |
| ARAB 101               | Academic Writing in Arabic                             | 3                   |
| EECE XXX               | Major Elective   | 3                   |
| EECE XXX               | Major Elective   | 3                   |
| EECE 360               | Control Systems  | 3                   |
| EECE XXXL              | Major Elective Laboratory                              | 1                   |
| <b>Spring Semester</b> |  | <b>15 Credits</b>   |
| <b>Code</b>            | <b>Course Title</b>                                    | <b>Credit Hours</b> |
| EECE 402               | Final Year Project II                                  | 3                   |
| EECE 461               | Instrumentation  | 3                   |
| EECE XXX               | Major Elective   | 3                   |
| EECE XXX               | Major Elective   | 3                   |
| XXX                    | General Elective                                       | 3                   |