

**FACULTY OF ENGINEERING**  
**Electrical and Computer Engineering**  
**Courses offered in the academic year 2016-2017**

|                | Semester I  |       |   | Semester II |       |   |
|----------------|-------------|-------|---|-------------|-------|---|
|                | Course Code | Units | Course Name                                     | Course Code | Units | Course Name                                     |
| <b>LEVEL 1</b> | ENGG1013    | 1     | Engineering Drawing and Computer Drafting       | ELEC1100    | 2     | Principles of Electrical Circuits               |
|                | UNIR1000    | 2     | Communication Skills                            | MATH1100    | 2     | Calculus & Linear Algebra                       |
|                | MATH1000    | 2     | Mathematical Foundations                        | ENGG1010    | 2     | Applied Mechanics                               |
|                | CHEM1020    | 2     | General Chemistry                               | ENGG1023    | 2     | Engineering Materials                           |
|                | COMP1500    | 2     | Introduction to Programming                     | UNIR1001    | 1     | Oman and Islamic Culture                        |
| <b>LEVEL 2</b> | ELEC2200    | 2     | Electrical and Electronic Circuit Analysis      | ELEC2013    | 2     | Signals & Systems                               |
|                | ELEC2113    | 2     | Instrumentation & Measurement                   | ELEC2300    | 2     | Electrical Energy Conversion & Utilisation      |
|                | COMP2101    | 2     | Introduction to Digital Systems                 | COMP2113    | 2     | Fundamentals of Computer Systems                |
|                | MATH2100    | 2     | Calculus & Statistics                           | UNIR2000    | 2     | Organisational Communications                   |
|                | UNIR2001    | 2     | Entrepreneurship                                | UNIR1002    | 1     | Arabic Language Skills                          |
| <b>LEVEL 3</b> | ELEC3000    | 2     | Control System Engineering                      | ELEC3500    | 2     | Power Electronics                               |
|                | ELEC3400    | 2     | Electronic Circuits                             | COMP3300    | 2     | Microprocessors & Microcontrollers              |
|                | ELEC3100    | 2     | Fundamentals of Electromagnetic Fields & Waves  | COMS3100    | 2     | Introduction to Communication Systems           |
|                | ENGG3700    | 2     | Numerical Analysis & Optimisation               | UNIR3000    | 2     | Research Methodology                            |
| <b>LEVEL 4</b> | ENGG4801A   | 2     | Thesis Project                                  | ENGG4801B   | 2     | Thesis Project                                  |
|                | ELEC4400    | 2     | Advanced Electronics & Power Electronics Design | ENGG4000    | 2     | Renewable & Sustainable Energy                  |
|                | ELEC4600    | 2     | Signal & Image Processing                       | COMS4100    | 2     | Advanced Digital Communication Theory & Systems |
|                | COMP4200    | 2     | Computer Systems Architecture                   | ELEC4300    | 2     | Power Systems Analysis                          |