### BACHELOR OF ENGINEERING (ELECTRICAL & ELECTRONIC) WITH BACHELOR OF MATHS AND COMPUTER SCIENCE (Computer Science Major)

#### YEAR 1

**S1**
- ELEC ENG 1009 Electrical & Electronic Engineering IA (3 units)
- PHYSICS 1100 Physics IA (3 units)
- COMP SCI 1201 Introduction to Programming for Engineers (3 units)
- MATHS 1011 Mathematics IA (3 units)

**S2**
- ELEC ENG 1010 Electrical & Electronic Engineering IB (3 units)
- PHYSICS 1200 Physics IB (3 units)
- COMP SCI 1202 Object-Oriented Programming for Engineers (3 units)
- MATHS 1012 Mathematics IB (3 units)

#### YEAR 2

**S1**
- ELEC ENG 2011 Circuit Analysis (3 units)
- COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units)
- ELEC ENG 2008 Electronics (3 units)
- MATHS 2201 Engineering Mathematics IIA (3 units)

**S2**
- COMP SCI 2000 Computer Systems (3 units)
- ELEC ENG 2007 Signals & Systems (3 units)
- ELEC ENG 2009 Engineering Electromagnetics (3 units)
- MATHS 2202 Engineering Mathematics IIB (3 units)

#### YEAR 3

**S1**
- ELEC ENG 3018 RF Engineering (3 units)
- ELEC ENG 3021 Electric Energy Systems (3 units)
- ELEC ENG 3033 Signal Processing (3 units)
- ELEC ENG 3027 Control (3 units)

**S2**
- ELEC ENG 3024 Project Management for Electrical Engineering (3 units)
- ELEC ENG 3028 Digital Systems (3 units)
- ELEC ENG 3034 Telecommunications Principles (3 units)
- ELEC ENG 3031 Power Systems (3 units)

#### YEAR 4

**S1**
- Level II or III COMP SCI Elective Course (3 units)*
- Level II or III COMP SCI Elective Course (3 units)*
- Level II or III COMP SCI Elective Course (3 units)*
- Level III COMP SCI Elective Course (3 units)*

*course not available in 2014
<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>SEMESTER 2</th>
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<tbody>
<tr>
<td><strong>COMP SCI 3001 Computer Networks &amp; Applications (3 units)</strong></td>
<td><strong>COMP SCI 3004 Operating Systems (3 units)</strong></td>
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<tr>
<td><strong>COMP SCI 3005 Computer Architecture (3 units)</strong></td>
<td><strong>ELEC ENG 4054 Telecommunications Systems (3 units)</strong></td>
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<td><strong>ELEC ENG 4063 Communications (3 units)</strong></td>
<td><strong>ELEC ENG 4061 Image Processing (3 units)</strong></td>
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<td><strong>ELEC ENG 4058 Power Quality &amp; Condition Monitoring (3 units)</strong></td>
<td><strong>ELEC ENG 4062 Distributed Generation Technologies (3 units)</strong></td>
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<tr>
<td><strong>ELEC ENG 4057 RF Systems (3 units)^</strong></td>
<td><strong>PURE MTH 3018 Coding &amp; Cryptology III (3 units)^</strong></td>
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*Level II or III Computer Science courses may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in summer school.