### 100 Level – Computer Engineering

#### First Semester

* GST 111: Communication in English (2, C)
* MTH 101: Elementary Mathematics I: Algebra and Trigonometry (2, C)
* PHY 101: General Physics I: Mechanics (2, C)
* PHY 107: General Practical Physics I (1, C)
* CHM 107: General Practical Chemistry I (1, C)
* CHM 101: General Chemistry I (2, C)
* BUT-CPE 103: Introduction to Computer Programming (2, C)
* BUT-MTH 103: General Mathematics III (2, C)
* BUT-STA 112: Probability I (2, C)
* BUT-GST 107: Use of Library (1, C)
* BUT-ICT 131: CompTIA A+ (1, C)  
  **Total Units**: 18

#### Second Semester

* GST 112: Nigerian Peoples and Culture (2, C)
* MTH 102: Elementary Mathematics II: Calculus (2, C)
* PHY 102: General Physics II: Behaviour of Matter (2, C)
* PHY 108: General Practical Physics II (1, C)
* GET 102: Engineering Graphics and Solid Modelling I (2, C)
* CPE 112: Introduction to Computer Engineering (1, C)
* GET 101: Engineer in Society (1, C)
* CHM 102: General Chemistry II (2, C)
* CHM 108: General Practical Chemistry II (1, C)
* BUT-PHY 104: General Physics IV (2, C)
* BUT-ICT 132: CompTIA A+ 2 (1, C)  
  **Total Units**: 18

### 200 Level – Computer Engineering

#### First Semester

* ENT 211: Entrepreneurship and Innovation (2, C)
* GET 201: Applied Electricity I (3, C)
* GET 203: Engineering Graphics & Solid Modelling II (2, C)
* GET 205: Fundamentals of Fluid Mechanics (3, C)
* GET 209: Engineering Mathematics I (3, C)
* GET 211: Computing and Software Engineering (2, C)
* GET 207: Applied Mechanics (2, C)
* BUT-ICT 215: Robotics I (0, C)  
  BUT-GST 207: Life and Works of Olusegun Obasanjo I (0, C)  
  **Total Units**: 18

#### Second Semester

* GST 212: Philosophy, Logic and Human Existence (2, C)
* GET 202: Engineering Materials (3, C)
* GET 204: Students Workshop Practice (2, C)
* GET 206: Fundamentals of Thermodynamics (3, C)
* GET 210: Engineering Mathematics II (3, C)
* BUT-GET 204: Industrial Health & Safety (1, R)
* BUT-GET 208: Strength of Materials (2, C)
* BUT-ICT 216: Robotics 2 (0, C)  
  BUT-GST 208: Life and Works of Olusegun Obasanjo II (0, C)  
  **Total Units**: 17
* \*GET 299: SIWES 1: Students Work Experience Scheme(9 Weeks) (3, C)

### 300 Level – Computer Engineering (First Semester)

* ENG 301: Engineering Mathematics III (3, C)
* CEN 301: Software Development Techniques (2, C)
* CEN 303: Computer Logics (2, C)
* CEN 315: Operating Systems I (2, C)
* EEE 305: Electronics Engineering Lab. I (2, C)
* EEE 307: Electric Circuit Theory I (3, C)
* EEE 313: Basic Electrical Machines I (2, C)
* EEE 315: Electrical/Electronic Lab (1, R)
* TCE 301: Signals and Systems Analysis (2, C)
* TCE 303: Electromagnetic Fields Analysis (3, R)
* BUS 311: Introduction to Entrepreneurship Studies (2, C)
* ICT 323: Python Programming (2, R)  
  **Total Units**: 23

### 300 Level – Computer Engineering (Second Semester)

* ENG 302: Engineering Mathematics IV (3, C)
* CEN 304: Software Packages in Engineering (2, C)
* CEN 308: Digital Electronics (2, C)
* CEN 310: Computer Graphics & Animation (2, C)
* CEN 312: Introduction to Information and Communication (2, R)
* CEN 316: Computer Engineering Lab. II (1, R)
* EEE 308: Electronics Engineering II (2, C)
* TCE 302: Principles of Communication Engineering (2, C)
* TCE 304: Electromagnetic Waves Theory (2, C)
* GES 302: Introduction to Philosophy (2, R)
* ICT 324: Python Programming for Machine Learning I (1, C) **Total Units**: 21

### 400 Level – Computer Engineering (First Semester)

* BUS 411: Entrepreneurial Skills Development Studies (2, C)
* CEN 401: Computer Organization and Architecture (3, C)
* CEN 403: Data Communication and Computer Networks (2, C)
* CEN 407: Microcomputer Architecture and Programming (2, C)
* EEE 401: Digital Electronics (2, C)
* EEE 403: Power Electronics (2, C)
* EEE 415: Advance Electronics in Engineering (2, R)
* MEE 411: Research Methods in Engineering (2, R)
* EEE 405: Control Systems (3, C)
* ICT 423: Python Programming for Machine Learning 2 (Deep Learning) (1, C)

**Total Units**: 21

### 400 Level – Computer Engineering (Second Semester)

* ENG 402: Students' Industrial Work Experience (SIWES) II (6 Months) (6, C)

**Total Units:** 6

### 500 Level – Computer Engineering (First Semester)

* CEN 501: Digital System Design (2, C)
* CEN 503: Microprocessor System and Interfacing (2, C)
* CEN 509: Computer Security Techniques (2, E)
* CEN 511: Computer Software Engineering (2, C)
* EEE 509: Digital Signal Processing (2, E)
* MEE 505: Valuation of Engineering Systems (2, R)
* MEE 523: Operations Research (2, R)
* MEE 527: Engineering Management (2, R)
* TCE 511: Communication Systems (2, C)
* ICT 515: ISO 45001 Foundation and Lead Implementer (Occupational Health...) (1, C)

**Total Units: 19**

### 500 Level – Computer Engineering (Second Semester)

· CEN 502: Internet and Web Applications Technologies (2, C)

· CEN 504: Embedded Systems Design (2, C)

· CEN 506: Fuzzy Logic and Programming (2, R)

· CEN 508: Student Research Project (6, C)

· CEN 510: Special Topics in Computer Engineering (2, E)

· EEE 502: Reliability and Maintainability of Systems (2, C)

· EEE 512: Engineering Law (2, R)

· EEE 504: Digital Control Systems (2, CE

· ICT 516: Design Thinking (1, C)