# Engineering and Electronics Technology - 1500007019

# Diplomas

## Electronics – 1500004019

**General Education:**

| | | | |
|---|---|---|---|
| Area 1: | | Written Communication or Oral Communications | 3 |
| | | AND | |
| Area 2: | | | |
| MAT | 150 | College Algebra OR | 3 |
| MAT | 126 | Technical Algebra and Trigonometry | (3) |
| | | **Subtotal:** | **6** |

**Core:**

| | | | |
|---|---|---|---|
| ELT | 110 | Circuits I | 5 |
| ELT | 114 | Circuits II | 5 |
| ELT | 210 | Devices I | 4 |
| ELT | 120 | Digital I | 3 |
| CAD | 100 | Introduction to Computer Aided Design OR | 3 |
| | | Equivalent Course with Consent of Program Coordinator | (3-4) |
| | | Computer/Digital Literacy | 3 |
| ELT | 289 | Engineering and Electronics Technology Capstone Course | 1 |
| COED | 198 | Practicum OR | 1-2 |
| COE | 199 | Cooperative Education OR | (1-2) |
| | | Equivalent Course with Consent of Program Coordinator | (1-2 |
| | | **Subtotal:** | **25-27** |
| ELT | 214 | Devices II | 4 |
| ELT | 220 | Digital II | 3 |
| | | Technical Electives * | 13 |
| | | **Subtotal:** | **20** |
| | | **Total** | **51-53** |

* Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

## Industrial Electronics – 1500004079

**General Education:**

| | | | |
|---|---|---|---|
| Area 1: | | Written Communication or Oral Communications | 3 |
| | | AND | |
| Area 2: | | | |
| MAT | 150 | College Algebra OR | 3 |
| MAT | 126 | Technical Algebra and Trigonometry | (3) |
| | | **Subtotal:** | **6** |

**Core:**

| | | | |
|---|---|---|---|
| ELT | 110 | Circuits I | 5 |
| ELT | 114 | Circuits II | 5 |
| ELT | 210 | Devices I | 4 |
| ELT | 120 | Digital I | 3 |
| CAD | 100 | Introduction to Computer Aided Design OR | 3 |
| | | Equivalent Course with Consent of Program Coordinator | (3-4) |
| | | Computer/Digital Literacy | 3 |
| ELT | 289 | Engineering and Electronics Technology Capstone Course | 1 |
| COED | 198 | Practicum OR | 1-2 |
| COE | 199 | Cooperative Education OR | (1-2) |
| | | Equivalent Course with Consent of Program Coordinator | (1-2 |
| | | **Subtotal:** | **25-27** |

| | | | |
|---|---|---|---|
| ELT | 214 | Devices II | 4 |
| ELT | 220 | Digital II | 3 |
| ELT | 244 | Electrical Machinery and Controls OR | 4 |
| EET | 270 | Electrical Motor Controls I AND | (2) |
| EET | 271 | Electrical Motor Controls I Lab | (2) |
| ELT | 250 | Programmable Logic Controllers OR | 4 |
| EET | 276 | Programmable Logic Controllers AND | (2) |
| EET | 277 | Programmable Logic Controllers Lab | (2) |
| | | Technical Electives * | 9 |
| | | **Subtotal:** | **24** |
| | | **Total** | **55-57** |

* Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

## Communications – 1500004029

**General Education:**

| | | | |
|---|---|---|---|
| Area 1: | | Written Communication or Oral Communications | 3 |
| | | AND | |
| Area 2: | | | |
| MAT | 150 | College Algebra OR | 3 |
| MAT | 126 | Technical Algebra and Trigonometry | (3) |
| | | **Subtotal:** | **6** |

**Core:**

| | | | |
|---|---|---|---|
| ELT | 110 | Circuits I | 5 |
| ELT | 114 | Circuits II | 5 |
| ELT | 210 | Devices I | 4 |
| ELT | 120 | Digital I | 3 |
| CAD | 100 | Introduction to Computer Aided Design OR | 3 |
| | | Equivalent Course with Consent of Program Coordinator | (3-4) |
| | | Computer/Digital Literacy | 3 |
| ELT | 289 | Engineering and Electronics Technology Capstone Course | 1 |
| COED | 198 | Practicum OR | 1-2 |
| COE | 199 | Cooperative Education OR | (1-2) |
| | | Equivalent Course with Consent of Program Coordinator | (1-2 |
| | | **Subtotal:** | **25-27** |

| | | | |
|---|---|---|---|
| ELT | 214 | Devices II | 4 |
| ELT | 220 | Digital II | 3 |
| ELT | 240 | Communications Electronics | 6 |
| | | Technical Electives * | 11 |
| | | **Subtotal:** | **24** |
| | | **Total** | **55-57** |

* Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

## Computer Maintenance – 1500004049

**General Education:**

| | | | |
|---|---|---|---|
| Area 1: | | Written Communication or Oral Communications | 3 |
| | | AND | |
| Area 2: | | | |
| MAT | 150 | College Algebra OR | 3 |
| MAT | 126 | Technical Algebra and Trigonometry | (3) |
| | | **Subtotal:** | **6** |

**Core:**

| | | | |
|---|---|---|---|
| ELT | 110 | Circuits I | 5 |
| ELT | 114 | Circuits II | 5 |

| | | | |
|---|---|---|---|
| ELT | 210 | Devices I ..... 4 | |
| ELT | 120 | Digital I..... 3 | |
| CAD | 100 | Introduction to Computer Aided Design OR..... 3 | |
| | | Equivalent Course with Consent of Program Coordinator | (3-4) |
| | | Computer/Digital Literacy ..... 3 | |
| ELT | 289 | Engineering and Electronics Technology Capstone Course | 1 |
| COED | 198 | Practicum OR..... 1-2 | |
| COE | 199 | Cooperative Education OR.....(1-2) | |
| | | Equivalent Course with Consent of Program Coordinator | (1-2 |
| | | **Subtotal: 25-27** | |
| ELT | 234 | Computer Hardware Maintenance OR..... 3 | |
| IT | 105 | Computer Maintenance Essentials OR .....(3) | |
| ELT | 105 | Computer Maintenance Essentials.....(3) | |
| ELT | 232 | Computer Software Maintenance OR ..... 3 | |
| IT | 205 | Advanced Computer Maintenance OR.....(3) | |
| ELT | 205 | Advanced Computer Maintenance.....(3) | |
| ELT | 220 | Digital II..... 3 | |
| NIS | 160 | Networking Core Technologies OR..... 3 | |
| IT | 120 | Cisco Internetworking I OR.....(4) | |
| CIT | 160 | Data Communications and Networking.....(4) | |
| | | Technical Electives * ..... 9 | |
| | | **Subtotal: 21-22** | |
| | | **Total 52-55** | |

* Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

## Robotics and Automation – 1500004039

**General Education:**

| | | | |
|---|---|---|---|
| Area 1: | | Written Communication or Oral Communications..... 3 | |
| | | AND | |
| Area 2: | | | |
| MAT | 150 | College Algebra OR..... 3 | |
| MAT | 126 | Technical Algebra and Trigonometry.....(3) | |
| | | **Subtotal: 6** | |

**Core:**

| | | | |
|---|---|---|---|
| ELT | 110 | Circuits I..... 5 | |
| ELT | 114 | Circuits II..... 5 | |
| ELT | 210 | Devices I ..... 4 | |
| ELT | 120 | Digital I..... 3 | |
| CAD | 100 | Introduction to Computer Aided Design OR..... 3 | |
| | | Equivalent Course with Consent of Program Coordinator | (3-4) |
| | | Computer/Digital Literacy ..... 3 | |
| ELT | 289 | Engineering and Electronics Technology Capstone Course | 1 |
| COED | 198 | Practicum OR..... 1-2 | |
| COE | 199 | Cooperative Education OR.....(1-2) | |
| | | Equivalent Course with Consent of Program Coordinator | (1-2 |
| | | **Subtotal: 25-27** | |
| ELT | 118 | Manufacturing III: Computer Numerical Control OR .... 3 | |
| CMM | 132 | CAD/CAM/CNC .....(3) | |
| ELT | 265 | Applied Fluid Power..... 3 | |
| ELT | 260 | Robotics and Industrial Automation..... 5 | |
| ELT | 244 | Electrical Machinery and Controls OR ..... 4 | |
| EET | 270 | Electrical Motor Controls I AND.....(2) | |
| EET | 271 | Electrical Motor Controls I Lab .....(2) | |
| ELT | 250 | Programmable Logic Controllers OR..... 4 | |
| EET | 276 | Programmable Logic Controllers AND .....(2) | |

| | | | |
|---|---|---|---|
| EET | 277 | Programmable Logic Controllers Lab | (2) |
| | | Technical Electives * | 5 |
| | | **Subtotal:** | **24** |
| | | **Total** | **55-57** |

* Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.