



## **Bachelor of Science in Electrical Engineering (BSEE)**

### **First Year – First Semester**

|                          |         |
|--------------------------|---------|
| Algebra and Trigonometry | 3 units |
| Calculus 1               | 3 units |
| General Chemistry        | 4 units |
| Computer Aided Drafting  | 3 units |
| Physics 1                | 4 units |
| English 1                | 3 units |
| Analytic Geometry        | 3 units |

### **First Year – 2<sup>nd</sup> Semester**

|                                  |         |
|----------------------------------|---------|
| Calculus 2                       | 3 units |
| Physics 2                        | 4 units |
| Heuristics                       | 3 units |
| The Computers                    | 3 units |
| Computer Programming 1 (VB.Net)  | 2 units |
| Material Science and Engineering | 3 units |
| First Aid                        | 2 units |

### **Second Year – First Semester**

|   |         |
|---|---------|
| Differential Equations                                  | 3 units |
| Circuits 1 (DC Circuits)                                | 4 units |
| Electronics 1 (Electronic Devices by Floyd and Malvino) | 4 units |
| Engineering Mechanics Statics                           | 3 units |
| Engineering Economy                                     | 3 units |
| Computer Programming 2 (C#.Net)                         | 2 units |

### **Second Year – 2<sup>nd</sup> Semester**

|   |         |
|---|---------|
| Circuits 2 (AC Circuits)                                | 4 units |
| Electronics 2 (Electronic Devices by Floyd and Malvino) | 4 units |
| Thermodynamics 1  | 2 units |
| Electromagnetics  | 4 units |
| Engineering Management                                  | 2 units |
| English 2   | 3 units |

**Third Year – First Semester**

|  |         |
|--|---------|
| Numerical Methods and Analysis                                 | 3 units |
| Industrial Electronics   | 4 units |
| Digital Design: Logic Circuit and Computer Applications (Mano) | 4 units |
| Networking   | 4 units |
| Electrical Machines 1  | 2 units |
| Filipino 1   | 3 units |

**Third Year – Second Semester**

|                                       |         |
|---------------------------------------|---------|
| Microprocessor Systems                | 2 units |
| Electrical Apparatus and Devices      | 3 units |
| Electrical Machines 2                 | 4 units |
| Basic Occupational Safety and Health  | 3 units |
| Fluid Mechanics                       | 2 units |
| Environmental Science and Engineering | 2 units |
| EE Law Codes and Professional Ethics  | 2 units |
| Feedback Control Systems              | 2 units |

**Fourth Year – First Semester**

|  |         |
|--|---------|
| Material Science and Engineering                       | 2 units |
| Electrical Standards and Practices                     | 1 units |
| Electrical Systems and Illumination Engineering Design | 5 units |
| Solar Power Plant                                      | 4 units |
| Seminars and Workshop 1                                | 1 units |
| Motor Controls (Computer and/or Electronics)           | 4 units |
| Instrumentation and Controls                           | 3 units |
| Art Appreciation (Guitar Music)                        | 3 units |

**Fourth Year – Second Semester**

|  |         |
|--|---------|
| Power System Analysis                          | 4 units |
| Fundamentals of Power Plant Engineering Design | 1 units |
| Distribution Systems and Substation Design     | 3 units |
| Design Applications 1                          | 1 units |
| Seminars and Workshop 2                        | 1 units |
| Filipino 2                                     | 3 units |
| English 3                                      | 3 units |
| On the Job Training 1 (OJT)                    | 2 units |
| Art Appreciation (Movies)                      | 3 units |

**Total Units** **165 units**

## **FASCILITIES AND TECHNOLOGIES**

Microsoft University is known for its Engineering lifelike structure and methods that empowers students to be prepared for their future job and qualifications. The University also became popular for its years of inventions for CodeBase Electronics (CB).

## **WHAT IS CODEBASE ELECTRONICS?**

CodeBase Electronics lets you design projects easily and can be understood by anyone. It focuses on computer interfaces to basic electronics that can create circuitry in a vast way even in advance. It is the analogy to understand binary systems (1 or 0).

## **SOFTWARES**

WinBubble (Customized and Tweak Windows Easily), Windows Registry  
Scour (Fastest and True Search Engine), VB.NET and Fastest Algorithm  
Desktop Cities (upgrade to Windows OS), VB.NET or C#.NET  
Lawrence Spreadsheet Technology, VB.NET or C#.NET  
Notepad Coder, VB.NET or C#.NET  
Complete CAD, VB.NET or C#.NET  
Client-Server Technology

## **HARDWARE**

Switched mode Power Supply, Battery charger with auto-stop diode, Emergency Lighting, No Power Alarm Zero, Remote I/O Technology, No Power Alarm Logger, Power Line Monitoring Systems (PLMS), Computerized Water Level Monitoring, Fuse Monitoring, Battery Monitoring, Solar Monitoring, Computerized Temperature Logger Detection and Train Logger

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