



# University of Naga

Online and Offline

## Bachelor of Science in Electronics Engineering (BSECE)

### 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
ECE Laws, Contracts, Ethics, Standards and Safety	3 units
Engineering Economics	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
Communications 1 (Principles of Communications Systems)	4 units
Electromagnetics	4 units
Engineering Management	2 units
English 2	3 units

### **Third Year – First Semester**

Electronics 3 (CodeBase Electronics 1: Zero)	4 units
Communications 2 (Principles of Communications Systems)	4 units
Digital Design: Logic Circuit and Computer Applications (Mano)	4 units
Networking	4 units
Transistor IC Electronics	4 units
Filipino 1	3 units

### **Third Year – Second Semester**

Electronics 4 (CodeBase Electronics 2: One)	4 units
Communications 3 (Transmission Lines and Antenna)	4 units
Communications 4 (Data Communications)	4 units
Solar Power Plant	4 units
Motor Controls (Computer and/or Electronics)	4 units
Filipino 2	3 units
Art Appreciation (Black and White Drawing)	3 units

### **Fourth Year – First Semester**

Environmental Science and Engineering	3 units
Instrumentation and Control Systems	4 units
Design Applications 1	1 units
Seminars and Workshop 1	1 units
Art Appreciation (Guitar Music)	3 units
Computational Communications Engineering 1 (Miller, Blake)	4 units
English 3	3 units

### **Fourth Year – Second Semester**

Design Applications 2	1 units
Seminars and Workshop 2	1 units
Computational Communications Engineering 2 (Miller, Blake)	4 units
Basic Electronics to Advanced (Grob, Boylestad and Roth)	4 units
Art Appreciation (Movies)	3 units
On the Job Training 1 (OJT)	3 units
English 4	3 units

## GEAS – Fifth Year

Microprocessor Systems	2 units
Engineering Mechanics (Statics)	3 units
Fundamentals of deformable bodies (Dynamics)	2 units
Thermodynamics 1	2 units
Engineering Economy	3 units
Industrial Electronics	4 units
Fluid Mechanics	2 units
On the Job Training 2 (OJT)	3 units

### **Total Units**

**188 units**

## FASCILITIES AND TECHNOLOGIES

University of Naga 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 understand 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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