I/O Course

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 – 2nd 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 – 2nd 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
Grid Control	4 units
Filipino 1	3 units

Third Year – Second Semester

Electronics 4 (CodeBase 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
Control and Monitoring Systems	4 units
Design Applications 1	1 units
Seminars and Workshop 1	1 units
Art Appreciation (Guitar Music)	3 units
English 3	3 units

Fourth Year – Second Semester

Design Applications 2	1 units
Seminars and Workshop 2	1 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

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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