

School Course : BACHELOR OF SCIENCE IN COMPUTER
: 1112 ENGINEERING

Year

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

First Year

First Semester

Subject

Description CreditedUnits Pre-requisite Co-

requisite MATH 2033 Plane and Spherical Trigonometry 3 none none

PHIL 1013 Logic 3 none none

ENSC 2012 Engineering Drawing 1 2 none none

ENGL 1013 Study and Thinking Skills in English 3 none none

CHEM 2035 General Chemistry (4/1) 5 none none

FILI 1013 Komunikasyon sa Akademikong Filipino 3 none none

MATH 2013 College Algebra 3 none none

NSTP 1013 CWTS
1013

Civic Welfare Training Service 1 3 none none

ROTC 1013 Reserved Officer Training Corps 1 3 none none

PHED 1

PHED 1022 Physical Fitness and Self-Testing Activities -
Aerobic Dance

2 none none

PHED 1072 Physical Fitness and Self-Testing Activities-Qi-
gong

2 none none

PHED 1102 Physical Fitness and Self-Testing Activities-
Pilates

2 none none

PHED 1032 Physical Fitness and Self-Testing Activities-
Gymnastics

2 none none

PHED 1052 Physical Fitness and Self-Testing Activities-TaiChi 2 none none

PHED 1082 Physical Fitness and Self-Testing Activities-
Orienteering

2 none none

PHED 1112 Physical Fitness and Self-Testing Activities-Muay-
Thai

2 none none

PHED 1012 Physical Fitness and Self-Testing Activities -
Physical Fitness

2 none none

PHED 1042 Physical Fitness and Self-Testing Activities-Yoga 2 none none

PHED 1062 Physical Fitness and Self-Testing Activities-
Wushu

2 none none

PHED 1092 Physical Fitness and Self-Testing Activities-
Adapted PE

2 none none

Second Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite HUMA 1013 Introduction to the Humanities 3 none none

ENSC 2032 Engineering Drawing 2 with CAD 2 ENSC 2012 - Engineering Drawing 1 none

MATH 2122 Advanced Algebra 2 MATH 2013 - College Algebra none

ENGL 1023 Writing in the Discipline 3 ENGL

1013 - Study English

and Thinking Skills in

none

NASC 2054 College Physics 1 4 MATH

2013 - College Algebra MATH 2033 - Plane Trigonometry

and Spherical

none

MATH 2042 Analytic Geometry 2 MATH

2013 - College Algebra MATH 2033 - Plane Trigonometry

and Spherical

none

FILI 1023 Pagbasa at Pagsulat Tungo sa Pananaliksik 3 FILI

1013 - Komunikasyon Filipino

sa Akademikong

none

MATH 2052 Solid Mensuration 2 MATH

2013 - College Algebra none

MATH 2033

- Plane and Spherical
Trigonometry

NSTP 1023CWTS

1023

Civic Welfare Training Service 2 3 CWTS

1013 - Civic 1

Welfare Training Service

none

ROTC 1023 Reserved Officer Training Corps 2 3 ROTC

1013 - Reserved 1

Officer Training Corps

none

PHED 2

PHED 1122 Rhythmic Activities-Social Dance 2 none none

PHED 1152 Rhythmic Activities-Foreign Folk Dance 2 none none

PHED 1182 Rhythmic Activities-Cheer Dance 2 none none

PHED 1212 Rhythmic Activities-Contemporary Dance 2 none none

PHED 1132 Rhythmic Activities-Modern Jazz 2 none none

PHED 1162 Rhythmic Activities-Belly Dance 2 none none

PHED 1192 Rhythmic Activities-Basic and Officiating Arnis
(for BPE)

2 none none

PHED 1222 Rhythmic Activities-Social Recreation 2 none none

PHED 1142 Rhythmic Activities-Philippine Folk Dance 2 none none

PHED 1172 Rhythmic Activities-Creative Dance 2 none none

PHED 1202 Rhythmic Activities-Adapted PE 2 none none

Summer Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite No List of Subject(s) yet for this Year Level and Semester... Second Year

First Semester

Subject

Code Description CreditedUnits Pre-requisite Co-

requisite SOCI 1013 Sosyolohiya, Kultura at Pagpapamilya 3 none none

COEN 3313 Discrete Mathematics 3 MATH 2013 - College Algebra none

HIST 1013 Heyograpiya at Kasaysayan ng Pilipinas 3 none none

MATH 2074 Differential Calculus 4 MATH 2122 - Advanced Algebra

MATH 2042 - Analytic Geometry MATH 2052 - Solid Mensuration
none

COEN 3322 Computer Fundamentals and Programming 2 none none

NASC 2064 College Physics 2 (Lec & Lab) 4 NASC 2054 - College Physics 1 none

ENGL 1103 Technical Communication 3 ENGL 1023 - Writing in the Discipline none

PHED 3

PHED 1242 Individual/Dual/Combative Sports-Table Tennis 2 none none

PHED 1272 Individual/Dual/Combative Sports-Judo Karate 2 none none

PHED 1302 Individual/Dual/Combative Sports-Dart 2 none none

PHED 1252 Individual/Dual/Combative Sports-Badminton 2 none none

PHED 1282 Individual/Dual/Combative Sports-Swimming 2 none none

PHED 1312 Individual/Dual/Combative Sports-Adapted PE 2 none none

PHED 1232 Individual/Dual/Combative Sports-Arnis 2 none none

PHED 1262 Individual/Dual/Combative Sports-Lawn Tennis 2 none none

PHED 1292 Individual/Dual/Combative Sports-Rifle Shooting 2 none none

PHED 1322 Individual/Dual/Combative Sports-Sports Judo 2 none none

Second Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite POSC 1013 Politics and Governance with Philippine
Constitution

3 none none

STAT 2053 Statistics and Probability 3 MATH 2013 - College Algebra none

HIST 1023 Buhay, Mga Gawain at Sinulat ni Rizal 3 none none

PSYC 1013 General Psychology 3 none none

MATH 2094 Integral Calculus 4 MATH 2074 - Differential Calculus none

LITE 1013 Philippine Literature 3 none none

COEN 3054 Data Structures and Algorithm Analysis 4 COEN

3322 - Computer Programming

Fundamentals and

none

COEN 3332 Computer Hardware and Fundamentals 2 none none

PHED 4

PHED 1342 Team Sports-Softball 2 none none

PHED 1372 Team Sports-Handball 2 none none

PHED 1412 Team Sports-Adapted PE 2 none none

PHED 1352 Team Sports-Basketball 2 none none

PHED 1382 Team Sports-Sepak Takraw 2 none none

PHED 1332 Team Sports-Volleyball 2 none none

PHED 1362 Team Sports-Soccer/Futsal 2 none none

PHED 1402 Team Sports-Table Tennis(Basic and Official
Table Tennis for BPE)

2 none none

Summer Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite No List of Subject(s) yet for this Year Level and Semester... Third Year

First Semester

Subject

Code Description CreditedUnits Pre-requisite Co-

requisite MATH 2103 Elementary Differential Equations 3 MATH 2094 - Integral Calculus none

COEN 3114 Computer System Organization with Assembly
Language

4 COEN

3054 - Data Analysis
Structures and Algorithm

none
ECON 1013 Basic Economics with Taxation and Agrarian
Reform

³ MATH 2013 - College Algebra none

COEN 3064 Circuits 1 ⁴ NASC 2064 - College Physics 2 (Lec & Lab)
MATH 2094 - Integral Calculus
none

COEN 3344 Electronics Devices and Circuits 4 none none

ENSC 2063 Engineering Economy 3 none none

ENSC 2043 Static of Rigid Bodies 3 NASC 2054 - College Physics 1 MATH 2094 - Integral Calculus
none

COEN 3351 Computer Engineering Drafting and Design 1 none none

Second Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite ENSC 2083 Dynamics of Rigid Bodies 3 ENSC 2043 - Static of Rigid Bodies none
COEN 3363 Advanced Engineering Mathematics for
Computer Engineering

³ MATH
2103 - Elementary Equations
Differential

none

COEN 3094 Circuits 2 ⁴ COEN 3064 - Circuits 1 none

ENSC 2103 Mechanics of Deformable Bodies 3 ENSC 2043 - Static of Rigid Bodies none

COEN 3374 Electronics Circuits Analysis and Design 4 COEN

3344 - Electronics Circuits
Devices and

none

COEN 3134 Logic Circuits and Switching Theory 4 COEN

3344 - Electronics Circuits
Devices and

none

ENSC 2112 Environmental Engineering 2 CHEM 2035 - General Chemistry (4/1) none
COEN 3493 Numerical Methods for Engineering with Programming Applications

³ none none

Summer Semester

Subject Description CreditedUnits Pre-requisite Co-

Code requisite COEN 4012 Practicum 1 ² NASC

2064 - College Physics 2 (Lec & Lab) COEN 3322 - Computer Programming

Fundamentals and

MATH 2074 - Differential Calculus COEN 3313 - Discrete Mathematics HIST 1013 - Heyograpiya Pilipinas
at Kasaysayan ng

SOCI 1013 - Sosyolohiya, Pagpapamilya
Kultura at

ENGL 1103 - Technical Communication HIST 1023 - Buhay, Rizal
Mga Gawain at Sinulat ni

COEN 3332 - Computer Fundamentals
Hardware and

COEN 3054 - Data Analysis
Structures and Algorithm

PSYC 1013 - General Psychology MATH 2094 - Integral Calculus LITE 1013 - Philippine Literature POSC 1013 - Politics
Philippine and Constitution
Governance with

STAT 2053 - Statistics and Probability

none

Fourth Year

First Semester

Subject

Code Description CreditedUnits Pre-requisite Co-

requisite COEN 3174 Advanced Logic Circuits Design 4 COEN

3134 - Logic Theory
Circuits and Switching

none

COEN 3394 Microprocessor Systems 4 COEN

3134 - Logic Circuits and Switching Theory COEN 3114 - Computer with Assembly System Language
Organization

none

COEN 3153 Principle of Communication 3 COEN

3094 - Circuits 2 COEN 3374 - Electronics Design
Circuits Analysis and

none

COEN 3204 Digital Signal Processing 4 COEN

3363 - Advanced for Computer Engineering Engineering
Mathematics

none

COEN 4153 Methods of Engineering Research 3 none none

COEN 3164 Control System 4 COEN
3094 - Circuits 2 COEN 3374 - Electronics Design
Circuits Analysis and

none

COEN 3382 Computer Engineering Safety Management 2 none none

Second Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite COEN 3253 Design Project 1 3 COEN 3394 - Microprocessor Systems none

COEN 3414 Operating Systems 4 COEN

3114 - Computer with Assembly System Language

Organization

none

ENSC 2073 Engineering Management 3 none none

BSCOE- ELEC1

BSCOE ELECTIVE 1 3 none none

COEN 3193 Data Communications 3 COEN 3153 - Principle of Communication none

COEN 3404 Computer Systems Architecture 4 COEN - Advanced Logic Circuits Design none

3174 COEN 3114 - Computer with Assembly System Language

Organization

Summer Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite COEN 4022 Practicum 2 2 none none

Fifth Year

First Semester

Subject

Code Description CreditedUnits Pre-requisite Co-

requisite COEN 3423 Computer Systems Administration 3 none none

COEN 3453 Computer Project Management 3 none none

COEN 3273 Design Project 2 3 COEN 3253 - Design Project 1 none

COEN 3433 Systems Analysis and Design 3 none none

BSCOE- ELEC2

BSCOE ELECTIVE 2 3 none none

COEN 3444 Object Oriented Programming 4 COEN

3054 - Data Analysis

Structures and Algorithm

none

Second Semester Subject

Code Description CreditedUnits Pre-requisite Co-

requisite COEN 3291 Computer Seminar and Field Trips 1 none none

COEN 3463 Software Engineering 3 COEN

3054 - Data Analysis

Structures and Algorithm

none

COEN 3212 Computer Engineering Ethics and Computer
Laws

2 none none

BSCOE- ELEC3

BSCOE ELECTIVE 3 3 none none

COEN 3473 Computer Technopreneurship 3 none none

COEN 3284 Computer Networks 4 COEN 3193 - Data Communications none
BSCOE- ELEC4

BSCOE ELECTIVE 4 3 none none

COEN 3483 Total Quality Management in Computer
Engineering

3 none none

Summer Semester Subject

Description CreditedUnits Pre-requisite Co-
Code

requisite *No List of Subject(s) yet for this Year Level and Semester...*