# UNIVERSITY OF SAN JOSE-RECOLETOS

COLLEGE OF INFORMATION, COMPUTER AND COMMUNICATIONS TECHNOLOGY
BASAK CAMPUS, CEBU CITY

### BACHELOR OF SCIENCE IN COMPUTER SCIENCE
### (EFFECTIVE 2015-2016)
### (Ladder type Curriculum-First two years)
### ASSOCIATE IN COMPUTER TECHNOLOGY (ACT)

| ID NO. | |
|---|---|
| NAME | |
| ADVISER | |
| BATCH NO. | |
| CONTACT NO./ E-MAIL AD | |

## FIRST YEAR — FIRST SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | COMP 1 | Introduction to Computing | 3 | None |
| | PROG1 | Computer Programming 1 | 3 | None |
| | MATH 1 | College Algebra | 3 | None |
| | MATH 2 | Plane Trigonometry | 3 | None |
| | ENGLISH 1 | Study and Thinking Skills | 3 | None |
| | REED 1 | Revelation and Faith | 3 | None |
| | PE 1 | Physical Fitness | 2 | None |
| | ROTC/CWTS 11 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 | None |
| | GUIDANCE 1 | Adjustment to College Life Phase 1 | 0 | None |
| | | | 23 | |

## FIRST YEAR — SECOND SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | DISCRETE 1 | Discrete Structures 1 | 3 | MATH 1 |
| | PROG2 | Computer Programming 2 | 3 | PROG1 |
| | WEB | Web Development | 3 | COMP 1 |
| | MATH 4 | Analytic Geometry | 3 | MATH1, MATH2 |
| | ENGLISH 2 | Writing in the Discipline | 3 | ENGLISH 1 |
| | REED 2 | Christology | 3 | REED 1 |
| | PE 2 | Rhythmic Activities | 2 | PE 1 |
| | ROTC/CWTS 12 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 | ROTC/CWTS 11 |
| | GUIDANCE 2 | Adjustment to College Life Phase 2 | 0 | GUIDANCE 1 |
| | | | 23 | |

## SECOND YEAR — FIRST SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | DISCRETE 2 | Discrete Structures 2 | 3 | DISCRETE 1 |
| | DATASTRUCT 1 | Data Structures and Algorithms | 3 | PROG2 |
| | DIGITAL | Digital Logic Design | 3 | COMP 1 |
| | MATH 6 | Differential Calculus | 3 | MATH 4 |
| | ENGLISH 3 | Speech Improvement & Oral Communication | 3 | ENGLISH 2 |
| | CHEM 1 | General Chemistry (Lec/Lab) | 3 | None |
| | REED 3 | Church and Sacraments | 3 | REED 2 |
| | PE 3 | Individual/Dual Sports/Games | 2 | PE 2 |
| | | | 23 | |

## SECOND YEAR — SECOND SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | ALGO | Analysis and Design of Algorithms | 3 | DISCRETE 1, DATASTRUCT 1 |
| | OOP | Object Oriented Programming | 3 | DATASTRUCT1 |
| | IM 1 | Information Management | 3 | DATASTRUCT1 |
| | COMP-ORG | Computer Organization and Architecture | 3 | DISCRETE 1, DATASTRUCT 1 |
| | MATH 7 | Statistics and Probabilities | 3 | None |
| | ENGLISH 4 | Philippine Literature | 3 | ENGLISH 2 |
| | REED 4 | Christian Morality | 3 | REED 3 |
| | PE 4 | Team Sports/Games | 2 | PE 3 |
| | | | 23 | |

## SUMMER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | QM | Quantitative Methods | 3 | MATH 7 |
| | SP | Social Issues and Professional Practice | 3 | None |
| | HCI | Human Computer Interaction | 3 | PROG 2 |
| | | | 9 | |

## THIRD YEAR — FIRST SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | AUTOMATA | Automata Theory and Formal Languages | 3 | ALGO |
| | NET 1 | Data Communications and Networking | 3 | PROG 2, DIGITAL |
| | CS ELEC 1 | CS Elective 1 | 3 | ALGO |
| | SOFTENG1 | Software Engineering 1 | 3 | IM1, OOP |
| | APPSDEV 1 | Applications Development and Emerging Technologies 1 | 3 | OOP |
| | OS | Operating Systems | 3 | COMP-ORG |
| | ACCTG A | Fundamentals of Accounting | 3 | None |
| | FILIPINO 1 | KomunikasyonsaAkademikong Filipino | 3 | none |
| | | | 24 | |

## THIRD YEAR — SECOND SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | PL | Programming Languages | 3 | DATASTRUCT 1 |
| | SOFTENG 2 | Software Engineering 2 | 3 | SOFTENG1 |
| | CS ELEC 2 | CS Elective 2 | 3 | OOP |
| | TECHNO | Technopreneurship | 3 | ENGL 3, 3rd YEAR STANDING |
| | RESEARCH | Methods of Research in Computing | 3 | SOFTENG 1 |
| | HUMANITIES 1 | Art Appreciation | 3 | None |
| | FILIPINO 2 | Pagbasa't Pagsulat tungosa Pananaliksik | 3 | FILIPINO 1 |
| | PHYS 1 | College Physics 1 (Lec/Lab) | 3 | None |
| | | | 24 | |

## SUMMER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | PRAC | Practicum | 3 | 4th YEAR STANDING |
| | | | 3 | |

## FOURTH YEAR — FIRST SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | POLSCI 1 | Phil.History, Government and Constitution | 3 | None |
| | CS ELEC 3 | CS Elective 3 | 3 | CS ELEC 2 |
| | THESIS 1 | CS Thesis Writing 1 | 3 | RESEARCH |
| | APPSDEV2 | Applications Development and Emerging Technologies 2 | 3 | APPSDEV 1 |
| | ITREVIEW | Certification Exam Review | 3 | 4th YEAR STANDING |
| | PHILO 1 | Logic | 3 | None |
| | ECON 1 | Economics with Taxation and Agrarian Reform | 3 | None |
| | SOCIO 1 | Society and Culture | 3 | None |
| | | | 24 | |

## FOURTH YEAR — SECOND SEMESTER

| FG | COURSE NO. | DESCRIPTION | UNITS | PREREQUISITES |
|---|---|---|---|---|
| | IAS | Information Assurance and Security | 3 | IM 1 |
| | THESIS 2 | CS Thesis Writing 2 | 3 | THESIS 1 |
| | SEMTOUR | Seminars and Tours | 3 | 4th YEAR STANDING |
| | PSYCHO 1 | General Psychology w/ Drug Addiction and Prevention | 3 | none |
| | RIZAL | Life, Works and Writings of Dr. Jose Rizal | 3 | None |
| | | | 15 | |

**IMPORTANT GUIDELINES:**

The student is NEVER ALLOWED to enroll in a subject without having finished/passed the subject's pre-requisites. The department may not give credit to subjects not taken in the proper order.

The student is eligible to enroll PRAC1, ITREVIEW and SEMTOUR after completing 70% of the total number of units (MAJOR COURSES) in the curriculum.

The student is required to render **full-time internship** in the summer term of third year.

| List of Electives | | Prerequisites |
|---|---|---|
| CS ELECTIVE 1 | Intelligent Systems | ALGO 1 |
| CS ELECTIVE 2 | Graphics and Visual Computing | OOP 1 |
| CS ELECTIVE 3 | Natural Language Processing | CS Elec 2 |