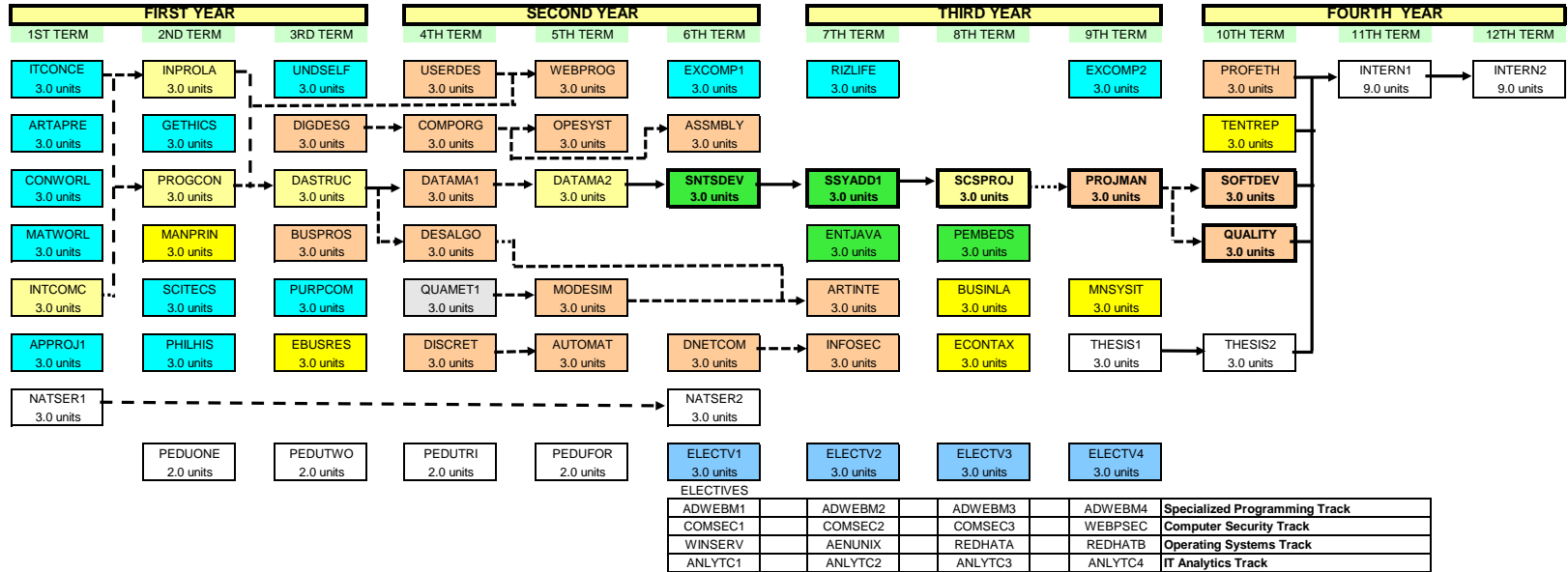




BACHELOR OF SCIENCE IN COMPUTER SCIENCE BSCS-SS With Specialization in SOFTWARE SYSTEMS

2019-2020



Other electives may include Cognitive Science, Data Science, Virtual/Augmented Reality and Robotics and Cyber-Physical Computing

197
UNITS

21

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Note: courses in heavily outlined boxes are under Project-Based Learning (PBL)



BACHELOR OF SCIENCE IN COMPUTER SCIENCE

BSCS-SS

With Specialization in SOFTWARE SYSTEMS

2019-2020

GENERAL EDUCATION		
ARTAPRE	ART APPRECIATION	3 units
GETHICS	ETHICS	3 units
PURPCOM	PURPOSIVE COMMUNICATION	3 units
CONWORL	THE CONTEMPORARY WORLD	3 units
MATWORL	MATHEMATICS IN THE MODERN WORLD	3 units
PHILHIS	READINGS IN PHILIPPINE HISTORY	3 units
SCITECS	SCIENCE, TECHNOLOGY & SOCIETY	3 units
UNDELF	UNDERSTANDING THE SELF	3 units
RIZLIFE	THE LIFE AND WORKS OF RIZAL	3 units
		27 units

GE ELECTIVES		
ITCONCE	IT CONCEPTS (Introduction to ICT with IT Infrastructure)	3 units
EXCOMP2	EXTENSIVE COMPETENCY COMMUNICATION PROGRAM	3 units
APPROJ1	APPLIED PROJECT 1	3 units
		9 units

LITERATURE		
EXCOMP1	LITERATURE	3 units
		3 units

PHYSICAL EDUCATION		
PEDUONE	PHYSICAL EDUCATION 1	2 units
PEDUTWO	PHYSICAL EDUCATION2	2 units
PEDUTRI	PHYSICAL EDUCATION 3	2 units
PEDUFOR	PHYSICAL EDUCATION 4	2 units
		8 units

NATIONAL SERVICE		
NATSER1	NATIONAL SERVICE1	3 units
NATSER2	NATIONAL SERVICE2	3 units
		6 units

INTERNSHIP		
INTERN1	INTERNSHIP 1	9 units
INTERN2	INTERNSHIP 2	9 units
		18 units

ADDITIONAL MATH REQUIREMENT		
QUAMET1	QUANTITATIVE METHODS 1	3 units
		3 units

COMMON COURSES		
INTCOMC	INTRODUCTION TO COMPUTING FOR CS / IT	3 units
PROGCON	PROGRAMMING CONCEPTS & LOGIC	3 units
INPROLA	INTRODUCTION TO PROGRAMMING & THEORIES	3 units
DASTRUC	DATA STRUCTURES	3 units
DATAMA2	DATABASE MANAGEMENT 2 and ADMINISTRATION	3 units
SCSPROJ	APPLIED PROJECT - SYSTEM PROTOTYPE	3 units
		18 units

PROFESSIONAL COURSES		
DIGDES	DIGITAL DESIGN	3 units
BUSPROS	BUSINESS PROCESS	3 units
USERDES	UI/UX DESIGN AND PROGRAMMING	3 units
COMPORG	COMPUTER ORGANIZATION & ARCHITECTURE	3 units
DATAMA1	DATABASE MANAGEMENT 1	3 units
DESALGO	DESIGN AND ALGORITHMS	3 units
DISCRET	DISCRETE MATHEMATICS	3 units
WEBPROG	WEB PROGRAMMING	3 units
OPESYST	OPERATING SYSTEMS	3 units
AUTOMAT	AUTOMATA THEORY	3 units
ASSEMBLY	ASSEMBLY LANGUAGE	3 units
MODESIM	MODELING AND SIMULATION	3 units
DNETCOM	NETWORK SECURITY, STORAGE & DATA COMMUNICATION	3 units
ARTINTE	ARTIFICIAL INTELLIGENCE	3 units
PROJMAN	PROJECT MANAGEMENT	3 units
SOFTDEV	SOFTWARE DEVELOPMENT	3 units
INFOSEC	INFORMATION SECURITY	3 units
QUALITY	SOFTWARE QUALITY MANAGEMENT	3 units
PROFETH	PROFESSIONAL ETHICS	3 units
		57 units

ADDITIONAL ELECTIVE TRACKS		
1. Cognitive Science		
2. Data Science		
3. Virtual / Augmented Reality		
4. Robotics and Cyber-Physical Computing		

ELECTIVES: SECURITY TRACK		
COMSEC1	COMPUTER SECURITY 1	3 units
COMSEC2	COMPUTER SECURITY 2	3 units
COMSEC3	COMPUTER SECURITY 3	3 units
WEBPSEC	WEB APPLICATION & PROGRAMMING SECURITY	3 units

AUGMENTED COURSES		
MANPRIN	MANAGEMENT PRINCIPLES	3 units
EBUSREC	BUSINESS AND RESEARCH WRITING	3 units
MNSYSIT	MANAGEMENT INFORMATION SYSTEMS & IT TRENDS	3 units
BUSINLA	BUSINESS LAW	3 units
ECONTAX	ECONOMICS AND TAXATION	3 units
TENTREP	TECHNOPRENEURSHIP	3 units
		18

SOFTWARE SYSTEMS SPECIALIZATION TRACK		
SNTSDEV	INTRODUCTION TO SYSTEMS AND DESIGN	3 units
SSYADD1	SYSTEMS ANALYSIS & DETAILED DESIGN	3 units
ENTJAVA	ENTERPRISE JAVA	3 units
PEMBEDS	PROGRAMMING EMBEDDED SYSTEMS	3 units
		12 units

THESIS		
THESIS1	THESIS WRITING 1	3 units
THESIS1	THESIS WRITING 2 AND PRESENTATION	3 units
		6 units

PROFESSIONAL ELECTIVES		
ELECTV1	ELECTIVE 1	3 units
ELECTV2	ELECTIVE2	3 units
ELECTV3	ELECTIVE 3	3 units
ELECTV4	ELECTIVE 4	3 units
		12 units

ELECTIVES: SPECIALIZED PROGRAMMING TRACK		
ADWEBM1	ADVANCE WEB-MOBILE 1	3 units
ADWEBM2	ADVANCE WEB - MOBILE 2	3 units
ADWEBM3	ADVANCE WEB-MOBILE 3	3 units
ADWEBM4	ADVANCE WEB - MOBILE 4: RUBY ON RAILS	3 units

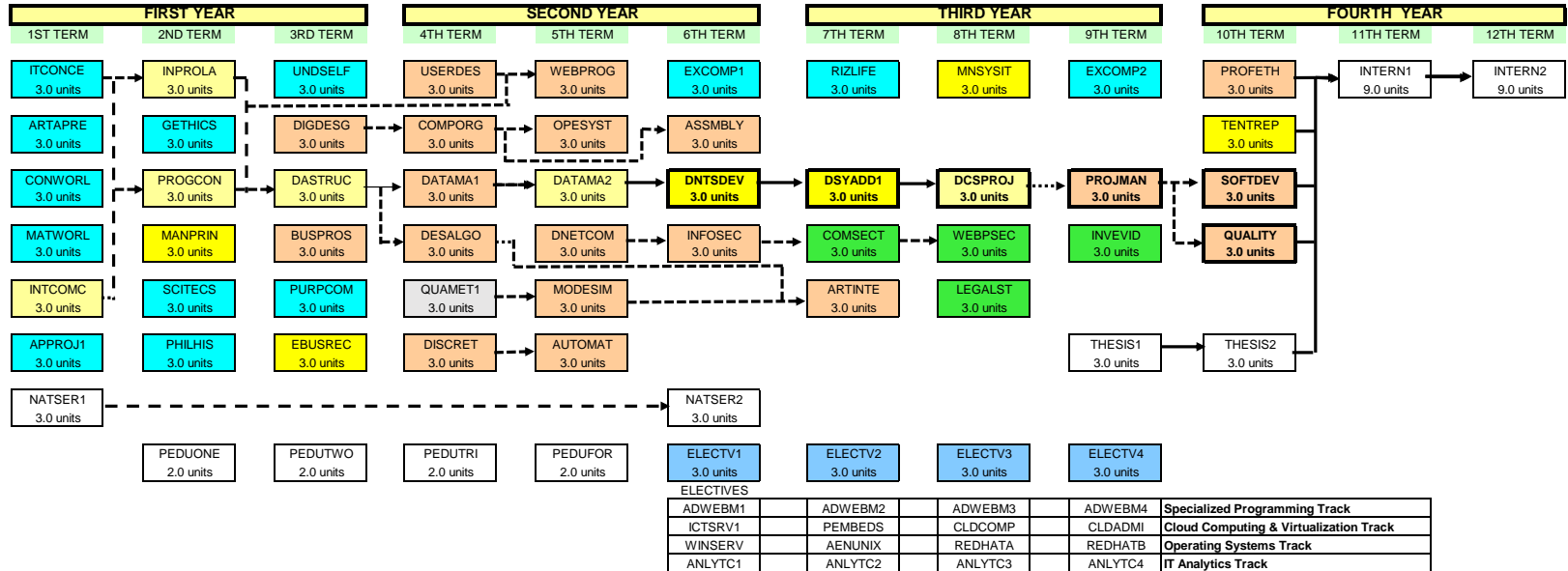
ELECTIVES: OPERATING SYSTEMS TRACK		
WINSERV	WINDOWS SERVER	3 units
AENUNIX	ADVANCED & ENTERPRISE UNIX	3 units
REDHATA	RED HAT TOPICS A	3 units
REDHATB	RED HAT TOPICS B	3 units

ELECTIVES: IT BUSINESS ANALYTICS TRACK		
ANLYTC1	FUNDAMENTALS OF BUSINESS ANALYTICS	3 units
ANLYTC2	FUNDAMENTALS OF ENTERPRISE DATA MANAGEMENT	3 units
ANLYTC3	FUNDAMENTALS OF ANALYTICS MODELING	3 units
ANLYTC4	ANALYTICS TECHNIQUES, TOOLS & APPLICATION	3 units



BACHELOR OF SCIENCE IN COMPUTER SCIENCE BSCS-SF With Specialization in CYBER SECURITY & FORENSICS

2019-2020



Other electives may include Cognitive Science, Data Science, Virtual/Augmented Reality and Robotics and Cyber-Physical Computing

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UNITS

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Note: courses in heavily outlined boxes are under Project-Based Learning (PBL)



BACHELOR OF SCIENCE IN COMPUTER SCIENCE

BSCS-SF

With Specialization Cyber Security & Forensics

2019-2020

GENERAL EDUCATION		
ARTAPRE	ART APPRECIATION	3 units
GETHICS	ETHICS	3 units
PURPCOM	PURPOSIVE COMMUNICATION	3 units
CONWORL	THE CONTEMPORARY WORLD	3 units
MATWORL	MATHEMATICS IN THE MODERN WORLD	3 units
PHILHIS	READINGS IN PHILIPPINE HISTORY	3 units
SCITECS	SCIENCE, TECHNOLOGY & SOCIETY	3 units
UNDESELF	UNDERSTANDING THE SELF	3 units
RIZLIFE	THE LIFE AND WORKS OF RIZAL	3 units
		27 units

GE ELECTIVES		
ITCONCE	IT CONCEPTS (Introduction to ICT with IT Infrastructure)	3 units
EXCOMP2	EXTENSIVE COMPETENCY COMMUNICATION PROGRAM	3 units
APPROJ1	APPLIED PROJECT 1	3 units
		9 units

LITERATURE		
EXCOMP1	LITERATURE	3 units
		3 units

PHYSICAL EDUCATION		
PEDUONE	PHYSICAL EDUCATION 1	2 units
PEDUTWO	PHYSICAL EDUCATION2	2 units
PEDUTRI	PHYSICAL EDUCATION 3	2 units
PEDUFOR	PHYSICAL EDUCATION 4	2 units
		8 units

NATIONAL SERVICE		
NATSER1	NATIONAL SERVICE1	3 units
NATSER2	NATIONAL SERVICE2	3 units
		6 units

INTERNSHIP		
INTERN1	INTERNSHIP 1	9 units
INTERN2	INTERNSHIP 2	9 units
		18 units

ADDITIONAL MATH REQUIREMENT		
QUAMET1	QUANTITATIVE METHODS 1	3 units
		3 units

COMMON COURSES		
INTCOMC	INTRODUCTION TO COMPUTING FOR CS / IT	3 units
PROGCON	PROGRAMMING CONCEPTS & LOGIC	3 units
INPROLA	INTRODUCTION TO PROGRAMMING & THEORIES	3 units
DASTRUC	DATA STRUCTURES	3 units
DATAMA2	DATABASE MANAGEMENT 2 and ADMINISTRATION	3 units
DCSPROJ	APPLIED PROJECT - SYSTEM PROTOTYPE	3 units
		18 units

PROFESSIONAL COURSES		
DIGDESG	DIGITAL DESIGN	3 units
BUSPROS	BUSINESS PROCESS	3 units
USERDES	UI/UX DESIGN AND PROGRAMMING	3 units
COMPORG	COMPUTER ORGANIZATION & ARCHITECTURE	3 units
DATAMA1	DATABASE MANAGEMENT 1	3 units
DESALGO	DESIGN AND ALGORITHMS	3 units
DISCRET	DISCRETE MATHEMATICS	3 units
WEBPROG	WEB PROGRAMMING	3 units
OPESYST	OPERATING SYSTEMS	3 units
AUTOMAT	AUTOMATA THEORY	3 units
ASSMBLY	ASSEMBLY LANGUAGE	3 units
MODESIM	MODELING AND SIMULATION	3 units
DNETCOM	NETWORK SECURITY, STORAGE & DATA COMMUNICATION	3 units
ARTINTE	ARTIFICIAL INTELLIGENCE	3 units
PROJMAN	PROJECT MANAGEMENT	3 units
SOFTDEV	SOFTWARE DEVELOPMENT	3 units
INFOSEC	INFORMATION SECURITY	3 units
QUALITY	SOFTWARE QUALITY MANAGEMENT	3 units
PROFETH	PROFESSIONAL ETHICS	3 units
		57 units

ADDITIONAL ELECTIVE TRACKS		
1. Cognitive Science		
2. Data Science		
3. Virtual / Augmented Reality		
4. Robotics and Cyber-Physical Computing		

ELECTIVES: CLOUD COMPUTING & VIRTUALIZATION TRACK		
ICTSRV1	ICT SERVICES MANAGEMENT	3 units
PEMBEDS	PROGRAMMING EMBEDDED SYSTEMS	3 units
CLDCOMP	CLOUD COMPUTING & VIRTUALIZATION	3 units
CLDADM1	CLOUD MANAGEMENT & ADMINISTRATION	3 units

AUGMENTED COURSES		
MANPRIN	MANAGEMENT PRINCIPLES	3 units
EBUSREC	BUSINESS & RESEARCH WRITING	3 units
MNSYSIT	MANAGEMENT INFORMATION SYSTEMS & IT TRENDS	3 units
DNTSDEV	INTRODUCTION TO SYSTEMS AND DESIGN	3 units
DSYADD1	SYSTEMS ANALYSIS & DETAILED DESIGN	3 units
TENTREP	TECHNOPRENEURSHIP	3 units
		24 units

CYBERSECURITY & FORENSICW SPECIALIZATION TRACK		
COMSECT	COMPUTER SECURITY	3 units
WEBPSEC	WEB PENETRATION SECURITY	3 units
LEGALST	LEGAL STUDIES (FORENSICS)	3 units
INVEIDT	PRINCIPLES OF INVESTIGATION & EVIDENCE HANDLING	3 units
		12 units

THESIS		
THESIS1	THESIS WRITING 1	3 units
THESIS1	THESIS WRITING 2 AND PRESENTATION	3 units
		6 units

PROFESSIONAL ELECTIVES		
ELECTV1	ELECTIVE 1	3 units
ELECTV2	ELECTIVE2	3 units
ELECTV3	ELECTIVE 3	3 units
ELECTV4	ELECTIVE 4	3 units
		12 units

ELECTIVES: SPECIALIZED PROGRAMMING TRACK		
ADWEBM1	ADVANCE WEB-MOBILE 1	3 units
ADWEBM2	ADVANCE WEB - MOBILE 2	3 units
ADWEBM3	ADVANCE WEB-MOBILE 3	3 units
ADWEBM4	ADVANCE WEB - MOBILE 4: RUBY ON RAILS	3 units

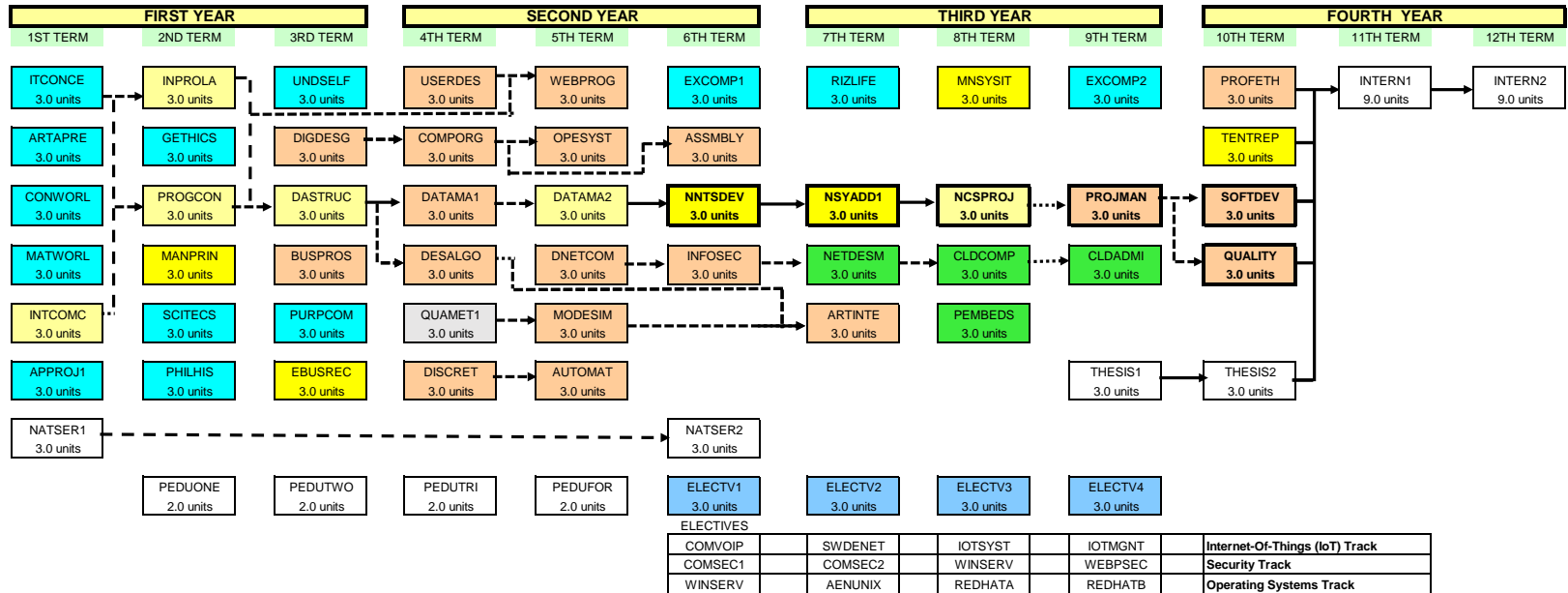
ELECTIVES: OPERATING SYSTEMS TRACK		
WINSERV	WINDOWS SERVER	3 units
AENUNIX	ADVANCED & ENTERPRISE UNIX	3 units
REDHATA	RED HAT TOPICS A	3 units
REDHATB	RED HAT TOPICS B	3 units

ELECTIVES: IT ANALYTICS TRACK		
ANLYTC1	FUNDAMENTALS OF BUSINESS ANALYTICS	3 units
ANLYTC2	FUNDAMENTALS OF ENTERPRISE DATA MANAGEMENT	3 units
ANLYTC3	FUNDAMENTALS OF ANALYTICS MODELING	3 units
ANLYTC4	ANALYTICS TECHNIQUES, TOOLS & APPLICATION	3 units



BACHELOR OF SCIENCE IN COMPUTER SCIENCE BSCS-NS With Specialization in NETWORK SYSTEMS

2019-2020



Other electives may include Cognitive Science, Data Science, Virtual/Augmented Reality and Robotics and Cyber-Physical Computing

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UNITS

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Note * courses in heavily outlined boxes are under Project-Based Learning (PBL)



BACHELOR OF SCIENCE IN COMPUTER SCIENCE

BSCS-NS

With Specialization in NETWORK SYSTEMS

2019-2020

GENERAL EDUCATION		
ARTAPRE	ART APPRECIATION	3 units
GETHICS	ETHICS	3 units
PURPCOM	PURPOSIVE COMMUNICATION	3 units
CONWORL	THE CONTEMPORARY WORLD	3 units
MATWORL	MATHEMATICS IN THE MODERN WORLD	3 units
PHILHIS	READINGS IN PHILIPPINE HISTORY	3 units
SCITECS	SCIENCE, TECHNOLOGY & SOCIETY	3 units
UNDESELF	UNDERSTANDING THE SELF	3 units
RIZLIFE	THE LIFE AND WORKS OF RIZAL	3 units
		27 units

GE ELECTIVES		
ITCONCE	IT CONCEPTS (Introduction to ICT with IT Infrastructure)	3 units
EXCOMP2	EXTENSIVE COMPETENCY COMMUNICATION PROGRAM	3 units
APPROJ1	APPLIED PROJECT 1	3 units
		9 units

LITERATURE		
EXCOMP1	LITERATURE	3 units
		3 units

PHYSICAL EDUCATION		
PEDUONE	PHYSICAL EDUCATION 1	2 units
PEDUTWO	PHYSICAL EDUCATION2	2 units
PEDUTRI	PHYSICAL EDUCATION 3	2 units
PEDUFOR	PHYSICAL EDUCATION 4	2 units
		8 units

NATIONAL SERVICE		
NATSER1	NATIONAL SERVICE1	3 units
NATSER2	NATIONAL SERVICE2	3 units
		6 units

INTERNSHIP		
INTERN1	INTERNSHIP 1	9 units
INTERN2	INTERNSHIP 2	9 units
		18 units

COMMON COURSES		
INTCOMC	INTRODUCTION TO COMPUTING FOR CS / IT	3 units
PROGCON	PROGRAMMING CONCEPTS & LOGIC	3 units
INPROLA	INTRODUCTION TO PROGRAMMING & THEORIES	3 units
DASTRUC	DATA STRUCTURES	3 units
DATAMA2	DATABASE MANAGEMENT 2 and ADMINISTRATION	3 units
NCSPROJ	APPLIED PROJECT - SYSTEM PROTOTYPE	3 units
		18 units

PROFESSIONAL COURSES		
DIGDESG	DIGITAL DESIGN	3 units
BUSPROS	BUSINESS PROCESS	3 units
USERDES	UI/UX DESIGN AND PROGRAMMING	3 units
COMPORG	COMPUTER ORGANIZATION & ARCHITECTURE	3 units
DATAMA1	DATABASE MANAGEMENT 1	3 units
DESALGO	DESIGN AND ALGORITHMS	3 units
DISCRET	DISCRETE MATHEMATICS	3 units
WEBPROG	WEB PROGRAMMING	3 units
OPESYST	OPERATING SYSTEMS	3 units
AUTOMAT	AUTOMATA THEORY	3 units
ASSMBLY	ASSEMBLY LANGUAGE	3 units
MODESIM	MODELING AND SIMULATION	3 units
DNETCOM	NETWORK SECURITY, STORAGE & DATA COMMUNICATION	3 units
ARTINTE	ARTIFICIAL INTELLIGENCE	3 units
PROJMAN	PROJECT MANAGEMENT	3 units
SOFTDEV	SOFTWARE DEVELOPMENT	3 units
INFOSEC	INFORMATION SECURITY	3 units
QUALITY	SOFTWARE QUALITY MANAGEMENT	3 units
PROFETH	PROFESSIONAL ETHICS	3 units
		57 units

ADDITIONAL MATH REQUIREMENT		
QUAMET1	QUANTITATIVE METHODS 1	3 units
		3 units

ADDITIONAL ELECTIVE TRACKS		
1. Cognitive Science		
2. Data Science		
3. Virtual / Augmented Reality		
4. Robotics and Cyber-Physical Computing		

AUGMENTED COURSES		
MANPRIN	MANAGEMENT PRINCIPLES	3 units
EBUSREC	BUSINESS & RESEARCH WRITING	3 units
MNSYSIT	MANAGEMENT INFORMATION SYSTEMS & IT TRENDS	3 units
NNTSDEV	INTRODUCTION TO SYSTEMS AND DESIGN	3 units
NSYADD1	SYSTEMS ANALYSIS & DETAILED DESIGN	3 units
TENTREP	TECHNOPRENEURSHIP	3 units
		18 units

NETWORK SYSTEMS SPECIALIZATION TRACK		
NETDESM	NETWORK DESIGN AND MANAGEMENT	3 units
CLDCOMP	CLOUD COMPUTING & VIRTUALIZATION	3 units
CLDADMI	CLOUD MANAGEMENT & ADMINISTRATION	3 units
PEMBEDS	PROGRAMMING EMBEDDED SYSTEMS	3 units
		12 units

THESIS		
THESIS1	THESIS WRITING 1	3 units
THESIS1	THESIS WRITING 2 AND PRESENTATION	3 units
		6 units

PROFESSIONAL ELECTIVES		
ELECTV1	ELECTIVE 1	3 units
ELECTV2	ELECTIVE2	3 units
ELECTV3	ELECTIVE 3	3 units
ELECTV4	ELECTIVE 4	3 units
		12 units

ELECTIVES: INTERNET OF THINGS TRACK		
COMVOIP	TELECOMMUNICATIONS & VOIP	3 units
SWDENET	SOFTWARE-DEFINED NETWORKS & VIRTUALIZATION	3 units
IOTSYST	INTERNET OF THINGS (EVERYTHING) SYSTEMS	3 units
IOTMGNT	INTERNET OF THINGS (EVERYTHING) MANAGEMENT	3 units

ELECTIVES: OPERATING SYSTEMS TRACK		
WINSERV	WINDOWS SERVER	3 units
AENUNIX	ADVANCED & ENTERPRISE UNIX	3 units
REDHATA	RED HAT TOPICS A	3 units
REDHATB	RED HAT TOPICS B	3 units

ELECTIVES: SECURITY TRACK		
COMSEC1	COMPUTER SECURITY 1	3 units
COMSEC2	COMPUTER SECURITY 2	3 units
COMSEC3	COMPUTER SECURITY 3	3 units
WEBPSEC	WEB APPLICATION & PROGRAMMING SECURITY	3 units