



**ASIA
PACIFIC
COLLEGE**

SCHOOL OF COMPUTING & INFORMATION TECHNOLOGIES

PROSPECTUS

SCHOOL YEAR 2022-2023

ASSOCIATE IN COMPUTER TECHNOLOGY (ACT)

Recognized by the Commission on Higher Education (CHED) as “Center of Excellence in I.T. Education”, the School of Computing and Information Technologies (SoCIT) blends system concepts, application-oriented laboratory experiences, strong industry partnerships internship to give students a complete and holistic approach to I.T. learning.

Graduates of SoCIT can find at least entry-level positions in leading IT companies, as well as various job opportunities for any IT-related positions in the IT industry.

APC Vision

Asia Pacific College envisions itself to be the preferred Higher Education Institution bridging academe and industry with its programs founded on the concepts and applications of IT, guided by the core values of integrity, industry, and innovation that works.

APC Mission

Asia Pacific College, powered by education and industry professionals as faculty and a balanced curriculum, aims to provide business and the information and communications technology industry in the Philippines and in the global community life.

APC Graduate Attributes

Solution Provider	Applies knowledge, concepts, theories, and industry-based skills in order to identify, solve, and recommend solutions aligned to the goals of its users and the organization to which they operate Develops ideas and solutions with creativity and innovation, and with appropriate considerations to ethical, cultural, and environmental factors
Committed	Fulfills commitments, made to one's self and the organization, beyond expectations Copes with the demands of goals, commitments, and responsibilities even when faced with unexpected situations
IT Enabled	Uses innovative methods and appropriate technologies to perform tasks effectively and efficiently
Professional	Understands the needs of customers and audiences, as well as the intent and spirit of their requirements, in order to respond appropriately in verbal and nonverbal forms
Team Player	Functions effectively as an individual and as a member of diverse teams in multidisciplinary settings by respecting and recognizing individual and cultural differences and strengths Encourages, motivates, and inspires others to perform, cooperate, and achieve team goals
Good Communicator	Communicates effectively and ethically using the English language
Ethical Professional	Understands social and ethical responsibilities
Contributor to Nation Building	Recognizes the needs of society, and contributes ideas to address societal concerns and issues for the betterment of the nation and its citizens
Lifelong Learner	Recognizes the fast-paced demands of the industry, allowing one to formulate personal goals aligned to organizational goals in order to determine plans of action to improve one's performance and capability; possesses the ability to engage in independent and life-long learning in the broadest context of technological change; determines one's developmental needs through self-assessment

ASSOCIATE IN COMPUTER TECHNOLOGY

The Associate in Computer Technology (ACT) is a 2-year degree program that provides specialized computing and information technology tracks equipping graduates with the required skills and competencies catering to the needs of industry.

The curriculum covers role-based learning where students will use industry-based content, be able to earn certifications, work with industry-level hands-on exercises using latest technologies, and be mentored by highly qualified faculty and industry practitioners.

By completing an industry-based project, students apply and extend their knowledge and understanding by exposing them to work in a professional environment.

While the majority of student work is done on independent basis, there are opportunities to develop teamwork skills with group-based projects throughout the program.

ACT Graduate Outcomes

A01	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional;
A02	Effectively communicate orally and in writing using both English and Filipino;
A03	Work effectively either independently or as a member of a team;
A04	Knowledge and understanding of information security issues in relation to the design, development and use of information systems
A05	Act in recognition of professional, social, and ethical responsibility;
A06	Preserve and promote “ <i>Filipino historical and cultural heritage</i> ” (based on RA 7722)
A07	Assist in analysis of complex problems;
A08	Apply modern computing technologies to solve problems
A09	Develop computing solutions

Performance Indicators

ACT Graduate Attributes		Performance Indicators (PI)
A	Knowledge for Solving Computing Problems	Completed and successfully defended an application as capstone project that addresses a specified computing problem
		Applied best practices and standards in creating applications
B	Problem Analysis	Documented software and hardware requirements specifications following computing industry standards
		Completed and successfully defended a computer-based systems analysis.

C	Design / Development of Solutions	Developed a solutions model based on user's requirements, with appropriate consideration to external factors
		Design and deploy an IT solution to end-users effectively
D	Modern Tool Usage	Used industry-based practices, techniques and tools
E	Individual and Team Work	Worked in a group to develop a project, and exhibited leadership skills in the team
		Created and presented a project plan as a team
F	Communication	Presented an IT project to non-technical stakeholders using the English language
G	Computing Professionalism and Social Responsibility	Presented an IT proposal with social relevance
		Presented an IT project that addresses professional, ethical, legal, security and social issues
H	Life-Long Learning	Participated in workshops, seminars and conferences related to one's specialization
		Demonstrated ability to pass relevant certifications
I	Customer-Oriented, Service-oriented and Committed Professional	Demonstrate ability to exceed customer expectations

The **ACT** program provides the appropriate training on two (2) particular career niches:

- **Full-Stack Development Track**
- **Cyber Security Blue Team Track**

Full-Stack Development Track

This specialization track provides a holistic perspective vital to a successful long-term career in software development.

The track aims to educate its students with the appropriate combination of theories, concepts and tools, carried out through the use of suitable methodology, human interaction and interface design, team management, and set of systems management procedures, in a useful setting appropriate for the resolution of real-world problems. This specialization teaches students to design and develop the front end (client-side) and back end (server side) of a web, mobile, and internet-of-things systems.

Graduates of ACT with specialization in Full-Stack Development become Software Developers, Application Specialists, Systems Analysts, Software / Systems Engineers, Coders/Programmers, Database Analysts & Developers, Systems Designers, Quality Assurance Specialists, Test Engineers, IT Architects, Consultants, Computer and Information Systems Managers, Information Security Analysts, and Project Managers.

ASSOCIATE IN COMPUTER TECHNOLOGY ACT FULL-STACK DEVELOPMENT TRACK

2022-2023

GENERAL EDUCATION		
PURPCOM	PURPOSIVE COMMUNICATION	3 units
MATWORL	MATHEMATICS IN THE MODERN WORLD	3 units
SCITECS	SCIENCE, TECHNOLOGY & SOCIETY	3 units
CONWORL	CONTEMPORARY WORLD	3 units
RIZLIFE	THE LIFE AND WORKS OF RIZAL	3 units
15 units		

COMMON COMPUTING COURSES		
INTCOMA	INTRODUCTION TO COMPUTING & IT CONCEPTS FOR ACT	3 units
PROGCON	PROGRAMMING CONCEPTS & LOGIC	3 units
INPROLA	INTRODUCTION TO PROGRAMMING & THEORIES	3 units
DASTRUC	DATA STRUCTURES	3 units
DATAMAN	DATABASE MANAGEMENT and ADMINISTRATION	3 units
15 units		

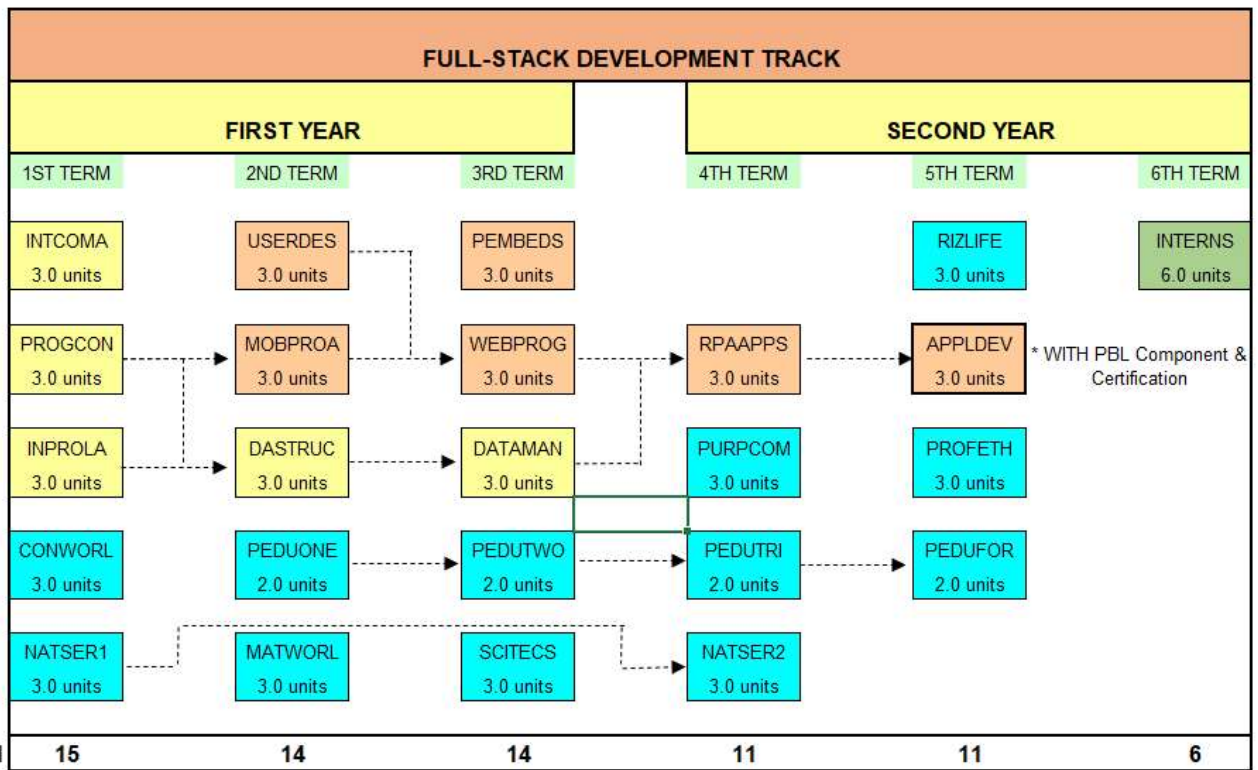
PROFESSIONAL ETHICS		
PROFETH	PROFESSIONAL ETHICS	3 units
3 units		

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

PROFESSIONAL TRACK		
USERDES	UI/UX DESIGN	3 units
WEBPROG	WEB PROGRAMMING	3 units
MOBPROA	MOBILE PROGRAMMING & APPLICATIONS	3 units
PEMBEDS	PROGRAMMING EMBEDDED SYSTEMS	3 units
RPAAPPS	RRPA APPLICATIONS	3 units
APPLDEV	APPLICATION DEVELOPMENT (With PBL Component & Certification)	3 units
18 units		

PROFESSIONAL ETHICS		
INTERNS	INTERNSHIP	6 units
6 units		



UNITS

Associate in Computer Technology	
FULL-STACK DEVELOPMENT TRACK	
Curriculum	
COURSE TITLE	UNITS
FIRST YEAR	
FIRST TRIMESTER	
Introduction to Computing and IT Concepts for ACT	3
Programming Concepts & Logic Formulation	3
Introduction to Programming & Theories	3
Contemporary World	3
National Service 1	3
	15
SECOND TRIMESTER	
User Interface / User Experience (UIUX) Design	3
Mobile Programming & Application	3
Data Structures	3
Physical Education 1	2
Mathematics in the Modern World	3
	14
THIRD TRIMESTER	
Web Programming	3
Programming Embedded Systems	3
Database Design, Management and Administration	3
Physical Education 2	2
Science, Technology & Society	3
	14
SECOND YEAR	
FIRST SEMESTER	
Robotics Process Automation (RPA) Applications	3
Purposive Communication	3
Physical Education 3	2
National Service 1	3
	11
SECOND TRIMESTER	
The Life and Works of Rizal	3
Application Development	3
Professional Ethics	3
Physical Education 4	2
	11

THIRD TRIMESTER	
Internship	6
	6

ASSOCIATE IN COMPUTER TECHNOLOGY Full-Stack Development Track			
COMMON COMPUTING COURSES			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
INTCOMA	Introduction to Computing & IT Concepts for ACT	None	This course deals with the dynamic and changing role of computing and information technology (IT) in the digital society and exposes students to the effective use of IT by analyzing its evolution, early adoption and current usage. It also explores and discusses future trends in the field of IT with emphasis on the latest issues that affects the local and global economy. The knowledge gained from this course will help students understand different approaches to information technology solutions and their greatest contribution and impact to the society. This course also prepares students for some industry certification exams.
INPROLA	Introduction to Programming & Theories	None	This course deepens the programming skills of students as they work with basic structures, object-oriented programming fundamentals and its application in implementing graphical user interfaces (GUIs).
PROGCON	Programming Concepts & Logic Formulation	None	This is an introductory course to computer programming, where the focus is on logic formulation. This course introduces students to the various ways of formulating algorithms that create solutions to given problems, through the construction of flowcharts and pseudocodes using appropriate notations. The flowcharts and pseudocodes developed in the course will then be converted to actual codes using a specific programming language.
DASTRUC	Data Structures	PROGCON, INPROLA	This course covers the design, analysis, and implementation of data structures to solve problems using the Python programming language. Topics include, but are not limited to, basic data structures such as arrays, linked lists, stacks, and queues; some advanced data structures such as trees and graphs; and the algorithms used to manipulate these structures such as recursion, search and sort.
DATAMAN	Database Design, Management and Administration	DASTRUC	This course will give the students the ability to evaluate a business situation and develop a database design and application. Database management and administration will also be discussed. Data access and manipulation is realized through Structured Query Language commands.
PROFESSIONAL COURSES			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
USERDES	UI/UX Design	None	This course focuses on imparting to the students effective User Interface and User Experience Design, and apply it in a project using a programming language.
WEBPROG	Web Programming	USERDES, MOBPROA	The course teaches students web programming using an industry defined framework, taking into account both the front-end and the back-end environments.
MOBPROA	Mobile Programming & Applications	PROGCON, INPROLA	This course focuses on building applications for mobile devices, considering both the front-end and back-end environments.
PEMBEDS	Information Security & Assurance	None	This course gives an introduction to develop applications for embedded systems using a microcontroller board.

RPAAPPS	Robotic Process Automation Applications	WEBPROG, DATAMAN	This course will teach students the use and application of an RPA tool for system development.
APPLDEV	Applications Development	RPAAPPS	This course integrates all learning experiences of the students by working on an industry-based project.
GENERAL EDUCATION			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
CONWORL	Contemporary World	None	This course introduces students to the contemporary world by examining the multifaceted phenomenon of globalization. Using the various disciplines of the social sciences, it examines the economic, social, political, technological, and other transformations that have created an increasing awareness of the interconnectedness of peoples and places around the globe. To this end, the course provides an overview of the various debates in global governance, development, and sustainability. Beyond exposing the student to the world outside the Philippines, it seeks to inculcate a sense of global citizenship and global ethical responsibility. This course includes mandatory topics on population education in the context of population and demography.
MATWORL	Mathematics in the Modern World	None	The course deals with interactions between science and technology and social, cultural, political, and economic contexts that shape and are shaped by them. (CMO No. 20, series of 2013). This interdisciplinary course engages students to confront the realities brought about by science and technology in society. Such realities pervade the personal, the public, and the global aspects of our living and are integral to human development. Scientific knowledge and technological development happen in the context of society with all its socio-political, cultural, economic, and philosophical underpinnings at play. This course seeks to instill reflective knowledge in the students that they are able to live the good life and display ethical decision making in the face of scientific and technological advancement.
SCITECS	Science, Technology and Society	None	The course deals with interactions between science and technology and social, cultural, political, and economic contexts that shape and are shaped by them. (CMO No. 20, series of 2013). This interdisciplinary course engages students to confront the realities brought about by science and technology in society. Such realities pervade the personal, the public, and the global aspects of our living and are integral to human development. Scientific knowledge and technological development happen in the context of society with all its socio-political, cultural, economic, and philosophical underpinnings at play. This course seeks to instill reflective knowledge in the students that they are able to live the good life and display ethical decision making in the face of scientific and technological advancement. This course includes mandatory topics on climate change and environmental awareness.
PURPCOM	Purposive Communication	None	Purposive Communication is a three-unit course that develops students' communicative competence and enhances their cultural and intercultural awareness through multimodal tasks that provide them opportunities for communicating effectively and appropriately to a multicultural audience in a local or global context. It equips students with tools for critical evaluation of a variety of texts and focuses on the power of language and the impact of images to emphasize the importance of conveying messages responsibly. The knowledge, skills, and insights that students gain from this course may be used in their

			other academic endeavors, their chosen disciplines, and their future careers as they compose and produce relevant oral, written, audio-visual and/or web-based output for various purposes.
RIZLIFE	Life and Works of Rizal	None	A comprehensive study and analysis of the life and literary works of Jose Rizal with an emphasis on its impact and relevance to the upliftment of present Philippine society.
PROFESSIONAL ISSUES IN COMPUTING			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
PROFETH	Professional Ethics	None	This course focuses on the study of current ethical standards of business professionals. Participants engage in ethical and legal issues in a variety of settings that they may encounter in the course of their professional careers. Students examine ethical cases and present potential decisions according to ethical decision-making models.
PHYSICAL EDUCATION			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
PEDUONE	PE 1	None	A course exposing students to fundamental importance and application of physical fitness in skill execution as well as playing individual dual sports according to the rules.
PEDUTWO	PE 2	None	A course exposing students to the rudiments of social ballroom dancing, folk dances, modern dances and recreational dances. Students express their feelings and emotions through movements disciplined by rhythm.
PEDUTRI	PE 3	None	A course exposing students in playing team sports, in enhancing fundamental skills, and in basic rules of the game.
PEDUFOR	PE 4	None	A course exposing students to recreational activities in the form of Bowling and /or Ice skating held in areas offering recreational and amusement facilities outside of the school premises.
NATIONAL SERVICE TRAINING PROGRAM			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
NATSER1	National Service 1	None	National Service aims to develop camaraderie and fellowship by participating in various socio/ economic/ political events and projects.
NATSER2	National Service 2	NATSER1	National Service aims to develop camaraderie and fellowship by participating in various socio/ economic/ political events and projects.

Cyber Security – Blue Team Track

This specialization aims to produce graduates skilled in cybersecurity built on the industry skills standard in computer networking and security in the areas of operating systems, hardware network protocols, data structures, programming and scripting languages. This track focuses on cybersecurity blue teams who identify security flaws in systems, verify, assess and monitor the effectiveness of security measures.

Graduates of this specialization track become Cyber Security Professionals, Cyber Security Team Lead, Cyber Security Engineer, Cyber Security Analyst, Cyber Security Programmer, and Cyber Security Developer.

ASSOCIATE IN COMPUTER TECHNOLOGY ACT CYBERSECURITY BLUE TEAM TRACK

2022-2023

GENERAL EDUCATION		
PURPCOM	PURPOSIVE COMMUNICATION	3 units
MATWORL	MATHEMATICS IN THE MODERN WORLD	3 units
SCITECS	SCIENCE, TECHNOLOGY & SOCIETY	3 units
CONWORL	CONTEMPORARY WORLD	3 units
RIZLIFE	THE LIFE AND WORKS OF RIZAL	3 units
		15 units

COMMON COMPUTING COURSES		
INTCOMA	INTRODUCTION TO COMPUTING & IT CONCEPTS FOR ACT	3 units
PROGCON	PROGRAMMING CONCEPTS & LOGIC	3 units
INPROLA	INTRODUCTION TO PROGRAMMING & THEORIES	3 units
DASTRUC	DATA STRUCTURES	3 units
DATAMAN	DATABASE MANAGEMENT and ADMINISTRATION	3 units
		15 units

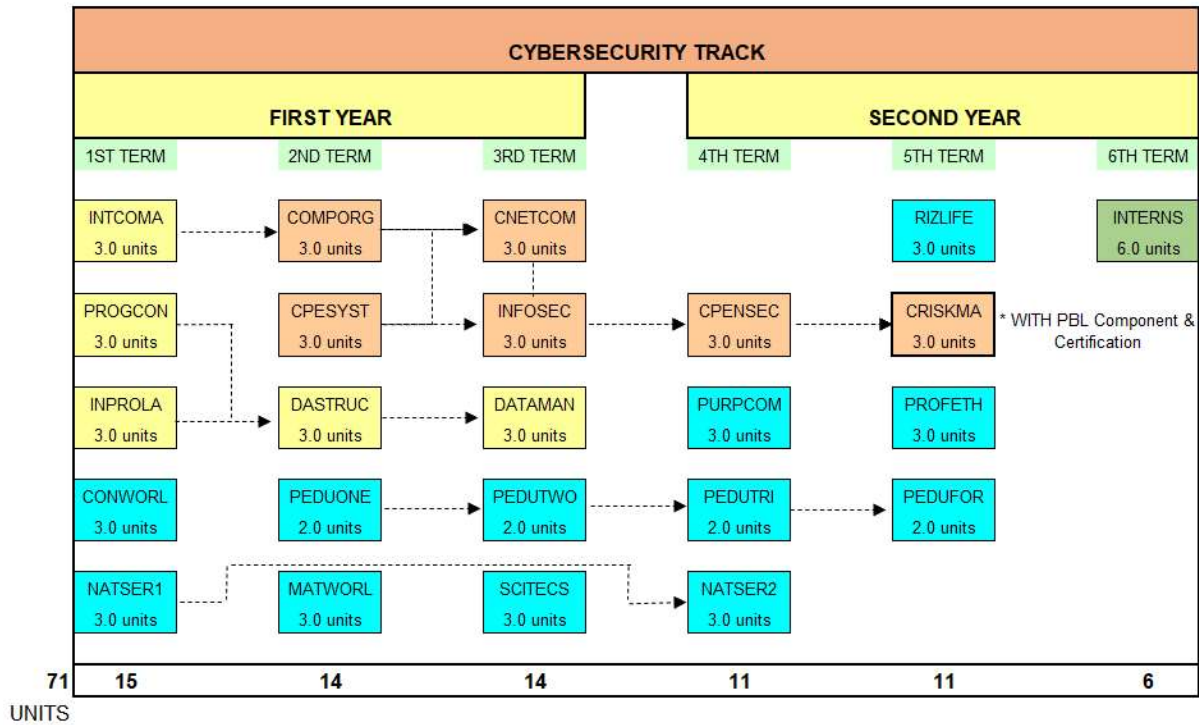
PROFESSIONAL ETHICS		
PROFETH	PROFESSIONAL ETHICS	3 units
		3 units

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

PROFESSIONAL TRACK		
COMPORG	COMPUTER ORGANIZATION & ARCHITECTURE	3 units
CPESYST	OPERATING SYSTEMS & CYBERSECURITY	3 units
CNETCOM	NETWORK, SECURITY, STORAGE & COMMUNICATIONS	3 units
INFOSEC	INFORMATION SECURITY & ASSURANCE	3 units
CPENSEC	PEN TEST, THREAT ANALYSIS & VULNERABILITY MANAGEMENT	3 units
CRISKMA	RISK MANAGEMENT, SECURITY AND SOFTWARE ENGINEERING	3 units
		18 units

NATIONAL SERVICE		
NATSER1	NATIONAL SERVICE 1	3 units
NATSER2	NATIONAL SERVICE 2	3 units
		6 units

PROFESSIONAL ETHICS		
INTERNS	INTERNSHIP	6 units
		6 units



Associate in Computer Technology	
CYBERSECURITY BLUE TEAM TRACK	
Curriculum	
COURSE TITLE	UNITS
FIRST YEAR	
FIRST TRIMESTER	
Introduction to Computing and IT Concepts for ACT	3
Programming Concepts & Logic Formulation	3
Introduction to Programming & Theories	3
Contemporary World	3
National Service 1	3
	15
SECOND TRIMESTER	
Computer Organization & Architecture	3
Operating Systems & Cybersecurity	3
Data Structures	3
Physical Education 1	2
Mathematics in the Modern World	3
	14
THIRD TRIMESTER	
Network, Security, Storage & Communications	3
Information Security & Assurance	3
Database Design, Management and Administration	3
Physical Education 2	2
Science, Technology & Society	3
	14
SECOND YEAR	
FIRST SEMESTER	
Pen Test, Threat Analysis & Vulnerable Management	3
Purposive Communication	3
Physical Education 3	2
National Service 1	3
	11
SECOND TRIMESTER	
The Life and Works of Rizal	3
Risk Management, Security & Software Engineering	3
Professional Ethics	3
Physical Education 4	2
	11

THIRD TRIMESTER	
Internship	6
	6

ASSOCIATE IN COMPUTER TECHNOLOGY Cybersecurity Blue Team Track			
COMMON COMPUTING COURSES			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
INTCOMA	Introduction to Computing & IT Concepts for ACT	None	This course deals with the dynamic and changing role of computing and information technology (IT) in the digital society and exposes students to the effective use of IT by analyzing its evolution, early adoption and current usage. It also explores and discusses future trends in the field of IT with emphasis on the latest issues that affects the local and global economy. The knowledge gained from this course will help students understand different approaches to information technology solutions and their greatest contribution and impact to the society. This course also prepares students for some industry certification exams.
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DATAMAN	Database Design, Management and Administration	DASTRUC	This course will give the students the ability to evaluate a business situation and develop a database design and application. Database management and administration will also be discussed. Data access and manipulation is realized through Structured Query Language commands.
PROFESSIONAL COURSES			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
COMPORG	Computer Organization & Architecture	INTCOMA	This course provides a solid theoretical foundation on the organization and architecture of modern digital computers. It discusses the various hardware structures, functions, and interactions of these components in performing and managing computer tasks.
CPESYST	Operating Systems & Cybersecurity	None	This course introduces the Linux Operating environment and its basic user level commands. Cybersecurity is introduced with its Security Tools, Protection and Security Management Models & Practices.
CNETCOM	Network, Security, Storage & Communications	COMPORG	This course provides the necessary knowledge on the technology, architecture and applications of data communications, networking, security and storage in

			recent times that meets business needs. Specific cases will be analyzed to learn from real-world scenarios on issues such as connectivity, reliability, speed, securing network connections, security assessments, securing technologies and platforms.
INFOSEC	Information Security & Assurance	CPESYST	This course primarily discusses the various domains of information security such as IT Security (hardware and software), physical security, operational security, risk management, laws and regulations related to security. Modules on security posture & control settings, cryptography, Access Management and Service will be discussed.
CPENSEC	Pen Test, Threat Analysis & Vulnerability Management	INFOSEC	This course primarily discusses ways on how to check, validate and fix web application vulnerabilities.
CRISKMA	Risk Management, Security and Software Engineering	CPENSEC	
GENERAL EDUCATION			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
CONWORLD	Contemporary World	None	This course introduces students to the contemporary world by examining the multifaceted phenomenon of globalization. Using the various disciplines of the social sciences, it examines the economic, social, political, technological, and other transformations that have created an increasing awareness of the interconnectedness of peoples and places around the globe. To this end, the course provides an overview of the various debates in global governance, development, and sustainability. Beyond exposing the student to the world outside the Philippines, it seeks to inculcate a sense of global citizenship and global ethical responsibility. This course includes mandatory topics on population education in the context of population and demography.
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			mandatory topics on climate change and environmental awareness.
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PROFESSIONAL ISSUES IN COMPUTING			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
PROFETH	Professional Ethics	None	This course focuses on the study of current ethical standards of business professionals. Participants engage in ethical and legal issues in a variety of settings that they may encounter in the course of their professional careers. Students examine ethical cases and present potential decisions according to ethical decision-making models.
PHYSICAL EDUCATION			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
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PEDUTWO	PE 2	None	A course exposing students to the rudiments of social ballroom dancing, folk dances, modern dances and recreational dances. Students express their feelings and emotions through movements disciplined by rhythm.
PEDUTRI	PE 3	None	A course exposing students in playing team sports, in enhancing fundamental skills, and in basic rules of the game.
PEDUFOR	PE 4	None	A course exposing students to recreational activities in the form of Bowling and /or Ice skating held in areas offering recreational and amusement facilities outside of the school premises.
NATIONAL SERVICE TRAINING PROGRAM			
COURSE CODE	SUBJECT	PRE-REQUISITE	DESCRIPTION
NATSER1	National Service 1	None	National Service aims to develop camaraderie and fellowship by participating in various socio/ economic/ political events and projects.
NATSER2	National Service 2	NATSER1	National Service aims to develop camaraderie and fellowship by participating in various socio/ economic/ political events and projects.

