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**Pangasinan State University**  
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**There are 366 courses offered by Pangasinan State University which are related to Sustainability**

Course	Notes
<b>BACHELOR OF TECHNOLOGY, LIVELIHOOD AND EDUCATION</b>	
Arts in daily Living	This course explores the fundamental principles, processes and practices anchored on arts and design to family and individual needs. It covers the knowledge, skills and attitudes in planning and creating handicraft products and, which also includes the task sheet and Job sheet of all output with specific criteria. It also focuses on all aspects of interior design, in order to create an environment for a structure, which may include a single-family home, government office and everything in between this focus on SGD 9-Industry, Innovation and Infrastructure.
Introduction to ICT 2 Specialization 2	The course deals with the discussion and application of the basic concepts, theories and principles on Computer System Servicing, Telecom (OSP) and Subscriber Line Installation (Copper Cable/POTS and DSL), Telecom OSP (Fiber Optic Installation), Broadband Installation (Fixed Installation Systems) and Contact Center Services (Based on CMO No. 78, s. 2017). This is an exploratory course that provides basic understanding on information and communication technology as used in TLE Education this focus on SDG 9- Industry, Innovation and Infrastructure.
Food and Nutrition	Food and Nutrition is a 3-unit course that covers the principles of food, nutrition, and meal management as applied to nutrition and food needs of families and individuals this focus on SDG-2-Zero Hunger and SDG 3- Good Health and Well-being.
Craft Design (Handicraft)	The course deals with the study of Philippine Handicrafts utilizing varied indigenous materials. Students are exposed to practical activities on needlecraft, shell craft, fiber craft, bamboo craft, etc. to allow them to develop their manipulative skills, workmanship, and creative abilities. It also includes practical activities on the construction of related crafts such as recycling of waste materials into valuable items. Emphasis on the acquisition of knowledge and skills to enable them to teach the same and to engage in a gainful pursuit this focus on SDG 8- Decent Work and Economic Growth and SDG 12- Responsible Consumption and Production
Fundamentals of Food Technology and Food Processing	This course intends to provide you with the basic knowledge of Food Science and Technology dealing with food components and their functions, food preservation techniques, food hygiene and sanitation this focus on SDG 2-Zero Hunger and SDG 3- Good Health and Well-being.
Introduction to Agri-Fishery Arts 2	This is an overview of Agri-Fishery Arts discipline including Agriculture, Agricultural Crop Production, Organic Farming, Livestock and Poultry Production, Fishing, Fish Culture, Fish Capture and Fish Preservation. Aquaculture and Aquaponics are also included in the course this focus on SDG 2- Zero Hunger and SDG 14-Life Below Water.
Marriage and Family Relations	The course aims to provide an in-depth understanding of marriage and family relations, as well as parenting and child-rearing styles that are important in achieving a better family life this focus on SDG 5- Gender Equality and SDG 3- Good Health and Well-being.



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Child and adolescent Development	This covers a discussion on development stages, characteristics and milestones of children and adolescents as basis for understanding the family. It provides the theoretical foundations pertaining to the growth and development of infants, children and adolescents. These foundations will be applied within the context of the family. The course will focus on the individually of the infant, child and adolescent using a chronological approach this focus on SDG 4- Quality Education, and SDG 3- Good Health and Well Being.
<b>BACHELOR OF TECHNICAL-VOCATIONAL TEACHER EDUCATION MAJOR IN AUTOMOTIVE TECHNOLOGY MAJOR IN DRAFTING TECHNOLOGY MAJOR IN ELECTRICAL TECHNOLOGY MAJOR IN ELECTRONICS TECHNOLOGY MAJOR IN FOOD SERVICE MANAGEMENT MAJOR IN GARMENTS, FASHION AND DESIGN</b>	
Home Economics Literacy	Overview of the home economics discipline including philosophy, areas of specialization, role in societal development. It contents history, philosophy, areas specialization and careers, family and society, household resource and management is focus on SDG 1-No poverty, SDG 3- Good health and Well-being and SDG 12- Responsible consumption and Production
Entrepreneurship	This course dwells on basic entrepreneurial concepts and practices. It includes topics such as personal entrepreneurial concepts, environment, and market is focus on SDG 3- Good health and Well-being, SDG 11-Sustainable cities and Communities and SDG 12- Responsible consumption and Production.
Teaching Common Competencies in AFA	The students will learn the different competencies in Agri-Fishery track, including concepts that will develop knowledge, skills, and attitude to perform different tasks on the track chosen. It covers different exploratory courses of Agri-Fishery Arts to give prospective learner skills and knowledge on the track chosen is focus on SDG 2-Zero hunger, SDG 14- Life below water, and SDG 4-Quality Education.
Fabric and Garments Designing Techniques	The course deals with human proportion, figure sketching dress designing through line drawing and full application of colors. Helpful tips in creating a design will be given emphasis to enhance students' artistry and creativity. Fashion designing and forecasting will also serve as an additional learning experience to the course is focus on SDG 8- Decent work and economic growth, SDG 9- Industry, Innovation and Infrastructure, and SGD 4-Quality education
Basic Sewing Process	This introductory course in garments technology aimed to prepare the students and activities of the trade. It emphasizes the acquisition of mastery on the following: use and care and maintenance of tools and equipment; project planning, application of different stitches and construction processes; pattern drafting; preparing and cutting fabrics; and sewing of working clothes and a simple daily wear, particularly for adults is focus on SDG 4- Quality Education
Men's Garments Construction II	The course deals with the study of basic to advanced tailoring concepts It also emphasizes the acquisition and application of elaborate procedure, as well as technique in the solution of materials, drafting of the different of the patterns and construction details in assembling tailored garments is focus on SDG 8- Decent Work and Economic Growth.



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<p>Mass Production Techniques and Practices</p>	<p>This course deals with the practices involved in performing mass production operations, the quality assurance measures performed in a garment industry setting, and the incoming fabric inspection down to the final inspection of the finished garment prior to delivery. It also focuses on the optimization of the physical resources relative to the creation of goods and services. Included in the lessons are computations of worker's salary, explanation of worker's benefits and privileges, making work studies, shop layout and preparation of organizational charts, the proper way of dealing with customers and the principle involved on how to keep a client is focus on <b>SDG 9- Industry, Innovation and Infrastructure.</b></p>
<p>Occupational Safety and Health Practices</p>	<p>This course deals with the safety standards and procedures in the workshop as set by the industry and the school. It includes topics such as personal safety, safety precautions and practices, hazards anticipation, accident prevention, and administering first aid. It also develops and enhances the knowledge, skills and attitudes of students to perform this task is focus on <b>SDG 3- Good Health and Well-being</b></p>
<p>Introduction to ICT as an Exploratory Course</p>	<p>The course deals with the discussion and application of the basic concepts, theories and principles on Computer System Servicing, Telecom (OSP) and Subscriber Line Installation (Copper Cable/POTS and DSL), Telecom OSP (Fiber Optic Installation), Broadband Installation (Fixed Installation Systems) and Contact Center Services (Based on CMO No. 78, s. 2017). This is an exploratory course that provides basic understanding on information and communication technology as used in TLE Education. This course also introduces BTVTEd students to the basic concepts, theories, and principles on the different specializations they may take in their course. Specifically, this course will give an overview on Technical Drafting, Illustration and 2D Animation. It also establishes the basic of Medical Transcription, Digital Media Production and Web Application is focus on <b>SDG 9- Industry, Innovation and Infrastructure and SDG 4-Quality Education.</b></p>
<p>Food Processing, Packaging and Labelling</p>	<p>This is a course that deals with the principles of food preservation. Actual learning experience in preserving fruits and vegetables, fish, meat and poultry are provided for the acquisition of skills. Fundamental principles, and methods of studying microorganisms including microbiological aspects of spoilage and food sanitation are essential components of the course especially as they relate to food preservation is focus on <b>SDG 12- Responsible Consumption and Production and SDG 2- Zero Hunger</b></p>
<p>Culinary Arts</p>	<p>This provides the students with knowledge and skills in quantity cooking of different courses of meals. It emphasizes artistic preparation and presentation of dishes being served during special occasions and functions in various international cuisines as well as Filipino dishes. Construction, conversion, standardization of recipes and aspects of sanitation and work simplification are additional learning experiences to the course is focus on <b>SDG 3- Good Health and Well-being and SDG 12- Responsible Consumption and production.</b></p>



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Industrial Sewing Machine Operation Repair and Maintenance	<p>This course deals with the knowledge of industrial equipment used in garment manufacturing, their care and maintenance, parts and functions, preparation for operation, stitch adjustments, cleaning and lubrication, trouble shooting and repair</p> <p>It also focuses on the sewing fundamentals, techniques and practices Projects includes machines stitches advance construction processes and garments construction is focus on SDG 5- Gender Equality and SDG 12-Responsible consumption and production.</p>
Intro to Agriculture and Fisheries	<p>This is an overview of Agri-Fishery discipline including Agriculture, Agricultural Crop Production, Organic Farming, Livestock, and Poultry Production, Fishing, Fish Culture, Fish capture, and Fish preservation. Aquaculture and Aquaponics are also included in the course.</p>
Food Selection, Preparation and Baking	<p>This course is designed to introduce the students the basic principles of food preparation including the understanding of food and kitchen safety and sanitation practices, chemistry of foods and cooking processes, food costs and budgeting, food identification, basic culinary terminology and techniques, proper use of kitchen tools and equipment, food quality checkpoints during production and government regulations affecting food and the consumer. Food labs and demonstration play a significant role in the course.</p>
Meal Management	<p>This course is design to provide food that will ensure the physical and mental growth of the person, his social development and well-being with a reasonable expenditure of available resources. The course also deals with the principles of planning, procurement, preparation, storage and service nutritious and adequate meals for the family, and for special occasions emphasis on economy, sanitation, nutrition, and aesthetics.</p>
International Cuisine 1 (Asian and Mediterranean)	<p>It deals with the preparation of international dishes in different countries specifically in Asian and Mediterranean that are usually served for various occasions and functions. It also includes popular, oriental as well as western cuisines commonly patronized by guest/clients. Appropriate service and presentations of the various international dishes will be an integral part of the course.</p>
Advance Baking (Cakes and Pastries)	<p>This course deals with baking both for home and commercial purposes. It emphasizes the baking of breads, pastries, cookies, and cakes, and cake decoration. It will also provide skills to students for baking opportunities.</p>
Food and Beverages Services	<p>Principle in food servicing particularly in school and industry, are the main components of this course. Also included are the practical experiences in menu planning, purchasing, food preparation, food service, record keeping, cost control, sanitation, and safety, kitchen lay-out and e equipment, personnel management and also in food and beverages industry.</p>
Bartending and Bar Management	<p>This course is designed to enhance the knowledge, skills and attitude of a bartenders/barista in cleaning bar areas operating bar, preparing and mixing cocktails in accordance with industry standards. It also covers basic, common and core competencies in Bartending NCII.</p>
Catering Services Management	<p>Principles of management in food servicing, particularly in schools, are the main components of the course. Also included</p>



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	are the practical experiences in menu planning, purchasing, food preparation, food service, record keeping, cost control, sanitation and safety, kitchen layout and equipment and personnel management. Online activities in catering service management to serve as practicum in order to develop the students' managerial skills.
Garments Designing and Construction 1	This course deals with the basic know how in assembling basic to casual garment designs. The students are expected to come up with simple projects like blouse with or without collar and sleeves, skirts and one-piece dress is focus on SDG 5- Gender Equality and SDG 12- Responsible Consumption and Production
Garments Designing and Construction 2	This course deals with the construction of industrial pattern using standard body measurements, interpreting designs and thru application in the production pattern with applicable notation and the process involved in making manual markers is focus on SDG 5- Gender Equality and SDG 12- Responsible Consumption and Production
Garments Costing, Testing, Packaging and Merchandizing	This course deals with the basic know how to apply methods of costing to a garment; testing and quality inspection; folding and packaging of garments and; know the qualities of a good merchandizer. SDG 8: Decent Work and Economic Growth
Pattern Grading and Marker Making	This course deals with the construction of industrial pattern using standard body measurements, interpreting designs and thru application in the production pattern with applicable notation and the process involved in making manual markers. SDG 8: Decent Work and Economic Growth and SDG 12: Responsible consumption and production
<b>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</b>	
Human Computer Interaction	Human-computer interaction is an interdisciplinary field that integrates theories and methodologies from computer science, cognitive psychology, design, and many other areas. The course is intended to introduce the student to the basic concepts of human-computer interaction. It will cover the basic theory and methods that exist in the
Mathematics in the Modern World	This course deals with the nature of mathematics, appreciation of its practical, intellectual, and aesthetic dimensions, and application of mathematical tools in daily life. The course begins with an introduction to the nature of mathematics as an exploration of patterns (in nature and the environment) and as application of inductive and deductive reasoning. By exploring these topics, students are encourage to go beyond the typical understanding of mathematics as merely a set of formula but as source of aesthetics in patterns of nature, for example, and a rich language in itself( and of science) govern by logic and reasoning. The course then proceeds to survey ways in which mathematics provides a tool for understanding and dealing of various aspects of present-day living, such as managing personal finances, making social choices, appreciating geometric designs, understanding codes used in data transmission and security, and dividing limited resources fairly. These aspects will provide opportunities for actually doing mathematics in a broad range of exercise that bring out the various dimensions of mathematics as a way of knowing, and test the students' understanding and capacity(CMO No.n20, series of 2013)





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Algorithms & Complexity	This course covers the theory of automata and languages. It gives an understanding on the foundation of many branches of computer science, e.g. compilers, software engineering, concurrent systems, and many more. The finite automata and the languages they can describe will be studied as well as their limitations.
Programming Languages	This course introduces the students to the design principles of programming languages and the key paradigms used for developing applications in these languages. The course also covers the underlying software and hardware architecture required for the execution of programs written in those languages.
Software Engineering 2	This course introduces students to the different software development lifecycle (SDLC) phases used in developing, delivering, and maintaining software products. Students will also acquire basic software development skills and understand common terminology used in the software engineering profession. Students will also learn and practice using traditional coding standards/guidelines. Python software development libraries and debugging tools will be explored and used in projects to familiarize students with basic tasks involved in modifying, building, and testing software. The course will also lay the foundation for achieving academic and career success in Software Engineering.
Personality Development	This course provides an overview on different cutting - edge / emerging technologies that could be integrated and applied in developing an application. This also provides necessary information on how to systematically and professionally develop an application or software using web, mobile and emerging technologies with emphasis on requirements management, interface design, usability, testing, and development including ethical and legal considerations.
Domain Course 2 (Graphics & Visual Computing)	Graphics and Visual Computing is three unit course divided into 2 units for lecture and discussion and 1 unit for laboratory and practical exercises per week. The said course covers the discussion on the fundamentals of computer graphics, different drawing algorithms, graphics transformations, 3D graphics, basic rendering, and visualization.
Networks & Communications	This course provides an overview on different cutting - edge / emerging technologies that could be integrated and applied in developing an application. This also provides necessary information on how to systematically and professionally develop an application or software using web, mobile and emerging technologies with emphasis on requirements management, interface design, usability, testing, and development including ethical and legal considerations.
Domain Course 6 (Operations Research)	This course introduces students to mathematical modeling and optimization techniques for decision-making in business, engineering, and other fields. It covers a wide range of quantitative methods and algorithms used to analyze complex systems, allocate resources efficiently, and make informed decisions.



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Thesis Writing 2	This course deals with the preparation of documents and system for final presentation. Tools for system evaluation are being discussed including the process on how to analyze the system. This subject also discussed how to write research extended abstract.
Introduction to Computing	This course provides an overview of the Computing Industry and Computing profession, including research and applications in different fields; an appreciation of computing in different fields such as Biology, Sociology, Environment and Gaming; an understanding of ACM requirements; an appreciation of the history of the computing; and knowledge of the key components of computer system (organization and architecture), malware, computer security, internet and internet protocols.
Fundamentals to Programming	<p>This is an introductory course in programming using Dev C++. It aims to develop skills and concepts that are essential to good programming practice and problem solving. It covers fundamental programming concepts of primitive data types, simple I/O, conditional statements, iterative structures, and static arrays. It also includes the different ways of formatting outputs. Fundamental to the software development practice is the ability to develop programs that uses appropriate constructs aside from achieving desired results to solve computing problems. This course also serves as a preparatory subject for Intermediate Programming.</p> <p style="text-align: center;">At the end of the course, the students are expected to be able to make judicious choices of programming constructs to solve computing problems using appropriate coding standards.</p>
Data Structures & Algorithm	This course covers analysis and design of fundamental data structures and engages students to use data structures as tools to algorithmically design efficient computer programs that will cope with the complexity of actual applications. It provides discussion on the concepts of algorithms and applications of different data structures such as stacks, queues, trees, graphs, lists, tables and heaps, binary search trees and hash tables.
Object Oriented Programming	This course provides the student with the fundamental understanding of object-oriented programming using Java language. It introduces the different concepts that are commonly associated with object-oriented programming. At the end of the course, the student is expected to implement object-oriented programs in Java as well as to demonstrate that mastery in implementing its concepts including classes, methods, inheritance hierarchies, polymorphism, encapsulation, information hiding, and data abstraction.
Software Engineering 1	Software Engineering 1 course provides an overview of the software engineering process. It consists of 2 lecture hours and 3 laboratory hours per week. This course provides the software engineering fundamentals, principles, and skills needed to design quality systems. The software engineering processes and techniques covered include requirements specification and design.



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<p>Computer Architecture and Organization</p>	<p>Computer Organization and Architecture is 3-unit course covering the aspects of computer systems such as the CPU, Memory, I/O and machine language programming. It consists of two (2) hours lecture and three (3) hours laboratory per week on the use of assembly language in programming at the machine level. This includes the Intel IA-32 processor architecture, assembly language directives, operators and program structures.</p>
<p>Automata Theory &amp; Formal Languages</p>	<p>Automata Theory and Formal Languages is a 3-unit course providing the foundation of many branches of computer science, e.g. compilers, software engineering, concurrent systems, etc. It consists of three (3) hours lecture per week on the different abstract machines (automatons) behavior and limitations. This leads to the understanding of the theoretical concepts (computation) of computers. This course is divided into 7 modules: 1a) mathematical foundations, 1b) languages, 2) finite automata, 3) DFAs with output, 4) regular expressions and regular languages, 5) context-free grammar, 6) pushdown automata, and 7) Turing machines.</p>
<p>Professional Elective 1</p>	<p>This is a basic course in Python Programming, a general-purpose programming language used in different programming domains. It focuses on dynamic data typing features, basic input/output functions; making decisions; performing repetitive tasks; tuples like lists, sets &amp; dictionaries and the methods over these tuples; functions-nested functions lambda functions; multi-threading; classes and modules. It also includes topics on databases using SQLite, and graphics programming using the tkinter module.</p>
<p>Operating Systems</p>	<p>This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, installation, administration, and required resources. The course will have an in-depth study on the function and features of two important operating systems: Microsoft Windows and Linux. The student will learn how the two operating systems are used by computer programmers, database administrators, and network administrators. Upon completion of this course, students will have an understanding of OS concepts, installation, and administration, using variety of operating systems.</p>
<p>Professional Elective 2</p>	<p>This course is designed for the scientific investigation of problems through modeling, simulation and analysis of physical properties on a computer. This computational science course focuses upon simple and intuitive computational models and methods. It will also use a Python programming language to program and execute the computational models and methods that will be discussed.</p>
<p>Domain Course 3 (Parallel &amp; Distributed Computing)</p>	<p>This course covers the discussion involving database systems and database management systems. Data modeling and ER modeling are covered in this course as well for database design purposes. The course covers a discussion of database systems, the nature of the data, data association, data semantic, cs and</p>





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	data models. Structured Query Language (SQL) would be used to implement data models for use in business application programs.
Domain Course 4 (Intelligent Systems)	This course will provide an understanding of the nature and application of intelligent systems. This aims to guide the learners to explore the ideas of the subject to some extent. The learners will also be able to explore essential theories and implementations of known AI methodologies for developing systems that demonstrate intelligent behavior.
Thesis 1	This course teaches thesis writing to culminating activity that generates an output useful in the development of solutions. This may be but not limited to application development that focuses on software engineering processes or application design focuses on effective testing procedure or a study on application development processes. It also includes title and proposal defenses to determine the working topic of the students. Format in the manuscript of the project is also presented to students.
Application Development & Emerging Technologies	This course provides an overview on different cutting - edge / emerging technologies that could be integrated and applied in developing an application. This also provides necessary information on how to systematically and professionally develop an application or software using web, mobile and emerging technologies with emphasis on requirements management, interface design, usability, testing, and development including ethical and legal considerations.
Information Assurance and Security	This course focuses on information security, integrity and privacy techniques. The topics include the nature and challenges of computer security, the relationship between policy and security, the role and application of cryptography, the mechanisms used to implement policies, the methodologies and technologies for assurance and vulnerability analysis and intrusion detection.
Domain Course 1 (Computational Science)	This course provides an overview on different cutting - edge / emerging technologies that could be integrated and applied in developing an application. This also provides necessary information on how to systematically and professionally develop an application or software using web, mobile and emerging technologies with emphasis on requirements management, interface design, usability, testing, and development including ethical and legal considerations.
Domain Course 2 (Graphics & Visual Computing)	Graphics and Visual Computing is three unit course divided into 2 units for lecture and discussion and 1 unit for laboratory and practical exercises per week. The said course covers the discussion on the fundamentals of computer graphics, different drawing algorithms, graphics transformations, 3D graphics, basic rendering, and visualization.
<b>BACHELOR OF SCIENCE IN AGRICULTURE (BSA)</b>	
Introduction to Agriculture	Overview of agriculture with emphasis on Philippine agriculture – SDG 12: Responsible consumption & production



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Principles of Crop Protection	Identification, biology & ecology of different tests & their natural enemies – SDG 3: Good health & well-being; SDG 12: Responsible consumption & production
Introduction to Animal Science	Principles of breeding, physiology, and nutrition in relation to production, processing and marketing of animal products – SDG 2: Zero hunger, SDG 12: Responsible consumption & production
Soil Fertility, Conservation and Management	Soil nutrient elements, their availability, measurement and evaluation, soil degradation and its control, and maintenance and improvement of soil fertility and productivity – SDG 13: Climate action; SDG 15: Life on land
Introduction to Livestock and Poultry Production	This course equips students with necessary knowledge and basic skills in the management of farm animals for efficient production of meat, milk, eggs and other animal products – SDG 12: Responsible consumption & production
Principles of Genetics	Mechanisms of heredity and variation, cytogenetics, mutation, nature of genes, population genetics and evolutionary genetics, biometrical procedures – SDG 12: Responsible consumption & production; SDG 14: Life below water; SDG 15: Life on land
Practices of Crop Production	Principles & practices of Crop Production – SDG 12: Responsible consumption & production
General Biochemistry	This course focuses on contributions of biochemistry toward an understanding of the structure and functioning of organisms, tissues, and cells – SDG 3: Good health & well-being; SDG 4: Quality education
Introduction to Agricultural Policy and Development	This course deals with the evaluation & formulation of policies, the policy-making process, description & analysis of policies & programs affecting agriculture & development & the political aspects of agricultural decisions – SDG 16: Peace, justice & strong institutions; SDG 17: Partnerships for the goals
Principles of Agricultural Extension and Communication	Principles and methods of extension communication in agriculture – SDG 17: Partnerships for the goals
Basic Farm Machineries and Mechanization	The course aims to teach students how mechanical skills are used in agriculture, potential career paths in agricultural mechanics, and safe shop procedures – SDG 9: Industry, innovation & infrastructure
Natural Resource and Environmental Management	The course is designed to teach students in environment-related activities a solid foundation in the art and science of natural resource and environmental management – SDG 13: Climate action; SDG 14: Life below water; SDG 15: Life on land
Principles of Agricultural Entrepreneurship and Marketing	This course deals with the basic principles of agricultural entrepreneurship and marketing and its application to agriculture and international trade – SDG 1: No poverty; SDG 8: Decent work & economic growth
Methods of Agricultural Research	Qualitative and quantitative methods in the conduct of agricultural research – SDG 4: Quality education; SDG 12: Responsible consumption & production
Introduction to Organic Agriculture	Principles and practices of organic agriculture – SDG 12: Responsible consumption & production; SDG 13: Climate action;
Introduction to Agricultural Commodity and Enterprise Development	This course focuses on the foundation/operation and use of agricultural commodity markets, how markets were created, how commodities are traded from producers to final consumers, the role of transportation and storage – SDG 9: Industry, innovation & infrastructure; – SDG 12: Responsible consumption & production
General Physiology and Toxicology	Chemical and physical properties of pesticides, their behavior and biological impact and comparative physiological and functional mechanism of pest group – SDG 3: Good health & well-being
Management of Extension Programs	Principles & practices of program development planning, implementation, monitoring & evaluation for sustainable rural development – SDG 11: Sustainable cities & communities; SDG 17: Partnerships for the goals



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Introduction to Water Management and Irrigation	This course deals on the technical, economic, environmental and policy aspects of water for irrigation in agriculture – SDG 6: Clean water & sanitation; SDG 13: Climate action
Beneficial Arthropods and Micro-Organism	Principles & concepts of biological control of agricultural pests; characterize factors affecting the growth & survival of beneficial arthropods & micro-organism group – SDG 14: Life below water; SDG 15: Life on land
Basic Biotechnology	Biotechnology and its techniques, genetically modified organisms (GMOs) regulatory procedures; biotechnology products labeling and their impacts to humans and the environment (biosafety); intellectual property rights and international and local regulations affecting biotechnology – SDG 3: Good health & well-being; SDG 12: Responsible consumption & production
Slaughter of Animals and Animal Products Processing	This course describes basic technical skills on animal slaughtering & processing of their products particularly on handling animals prior to slaughter, rules & regulations governing meat inspections in the Philippines, factors affecting carcass yield, processing plant, slaughter procedure, fabrication, product processing & animal products-borne diseases – SDG 12: Responsible consumption & production
Floriculture and Landscape Gardening	This course deals on the fundamental principles of floriculture and landscape gardening – SDG 13: Climate action; SDG 15: Life on Land
Animal Nutrition and Feeding	Composition and use of feeds, formulations of rations and feeding practices for livestock and poultry – SDG 12: Responsible consumption & production
Industrial and Plantation Crop Production	This course provides students with the knowledge and skills on the production of plantation crops including their economic importance – SDG 9: Industry, innovation & infrastructure; SDG 12: Responsible consumption & production
Cereals, Vegetables, Food Legumes Production	Introduction to cereal grains, legumes and oilseeds: Structure and composition – SDG 12: Responsible consumption & production
Animal Breeding and Reproduction	This course provides students the opportunity to gain adequate fundamental knowledge about reproduction and breeding of farm animals – SDG 12: Responsible consumption & production
Farming System	This course introduces students to systems thinking and practice in a farming context – SDG 12: Responsible consumption & production
Swine Production	Selection of breeding stock, reproduction, feeding and management of a swine enterprise – SDG 12: Responsible consumption & production
Poultry Production	Review of poultry production systems with emphasis on breeding, housing and environmental control, feeding, disease prevention, and processing of meat and eggs – SDG 12: Responsible consumption & production
Plant Breeding	Principles and practices underlying the development, evaluation, propagation and management of improved crop plants and the care and management of plant nurseries – SDG 12: Responsible consumption & production; SDG 15: Life on Land
Precision Agriculture	This course introduces the principles & practices of precision agriculture, emphasizing modern farming techniques that utilize technology for improved agricultural productivity & sustainability. It is the engagement with tools such as GPS, GIS & remote sensing – SDG 9: Industry, innovation & infrastructure; SDG 12: Responsible consumption & production
Large and Small Ruminant Production	Methods of management in producing large and small ruminants for production of meat, milk and fiber – SDG 12: Responsible consumption & production
Principles of Crop Science	Principles and practices of program development planning, implementation, monitoring and evaluation for sustainable rural development. SDG 12: Responsible consumption & production
Intro to Animal Science	Significance and economic importance of animal science in the field of agriculture. Principles of breeding, physiology and



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	nutrition in relation to production, processing and marketing of animal products. SDG 2: Zero hunger, SDG 12: Responsible consumption & production
Organic Chemistry	The course places emphasis on atom hybridization, bond geometry, stereochemistry, three-dimensional structure representation and nomenclature (naming) of organic compounds – SDG 4: Quality education
Practices of Crop Production and Management	Basic concepts and practices in crop production applicable for annual and perennial crops from land preparation to postharvest operations and farming systems including current trends. Responsible consumption & production; SDG 14: Life below water; SDG 15: Life on land
Agricultural Biotechnology	Biotechnology and its techniques; genetically modified organisms (GMOs) regulatory procedures; biotechnology products labelling and their impacts to humans and the environment (biosafety); intellectual property rights and international and local regulations affecting biotechnology. SDG 3: Good health & well-being; SDG 12: Responsible consumption & production
Agricultural Economics and Marketing	Principles underlying farm management and their application on agricultural business, offices and programs. SDG 12: Responsible consumption & production
Approaches and Practices in Pest Management	Approaches and Practices in Pest Management is a 3 unit course on the concept of introduction to the application of ecological principles to the management of pest populations. Principles and concepts of pest management will be presented and discussed, and the importance of pest management as an environmentally sound practice will be emphasized based on economic, ecological and sociological consequences. Although examples of insect pest management will be emphasized, the principles and concepts of integrated pest management (IPM) apply across disciplines. – SDG 3: Good health & well-being, SDG 15: Life on land
Principles of Agricultural Extension and Communication	Principles, methods and trends in extension and communication for rural development. SDG 17: Partnerships for the goals
General Chemistry	This course focuses on contributions of biochemistry toward an understanding of the structure and functioning of organisms, tissues, and cells – SDG 3: Good health & well-being; SDG 4: Quality education
Principles of Agricultural Entrepreneurship & Enterprise Development	Basic concepts related to starting and managing agricultural enterprises with focus on farming as business and the role of farmers as entrepreneur; to include planning a business and creating business plan. SDG 1: No poverty; SDG 8: Decent work & economic growth
Introduction to Agricultural commodity Systems	Interactions of all activities and factors affecting the sourcing of inputs, production activities for farm commodities and other products derived from them, and their distribution in the global market considering the socio-cultural, political, economic, environment, and development landscape of the cou. SDG 9: Industry, innovation & infrastructure; – SDG 12: Responsible consumption & production
Introduction to Agricultural Policy & Development	This course deals with the evaluation & formulation of policies, the policy-making process, description & analysis of policies & programs affecting agriculture & development & the political aspects of agricultural decisions – SDG 16: Peace, justice & strong institutions; SDG 17: Partnerships for the goals



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Basic farm Machineries, Mechanization, & Water Management	The course aims to teach students how mechanical skills are used in agriculture, potential career paths in agricultural mechanics, and safe shop procedures – SDG 9: Industry, innovation & infrastructure
Post-Harvest Handling and Seed Technology	This course is designed to provide students with an in-depth understanding of the post-harvest handling and storage of the agricultural crops and the science of technology of seed production, processing, storage, testing and quality control. SDG 9: Industry, innovation & infrastructure; SDG 12: Responsible consumption & production
Beneficial Arthropods and Microorganism	Beneficial Arthropods and Microorganism is a 3 unit course, Biology and Ecology of beneficial arthropods and microorganism. Principles and concepts of biological control of agricultural pest; characterize factors affecting the growth and survival of beneficial arthropods and microorganism will be presented and discussed. – SDG 14: Life below water; SDG 15: Life on land SDG 3: Good health & well-being
General Physiology and Toxicology	Comparative physiology and biology of pest groups, classification of pesticides, chemical and physical properties of pesticides and its appropriate use and management. SDG 3: Good health & well-being
Soil Survey, Classification & Land Use	Survey and classification of soils based on their morphology, genesis and properties; land resources data and information, their interpretation and application for land use design and planning and environmental assessment of land uses. SDG 12: Responsible consumption & production
Animal Nutrition	This course deals with the basic concepts of nutrients classification and functions, deficiency symptoms, digestive process and physiology, characterization of feedstuff, and formulation of diets for domestic animals (1). This includes fundamentals of nutrition through feeds and feeding that applies to livestock and poultry species in the local and global industry (1,9). It exposes the students to balanced ration following the standard requirement for domestic animals. SDG 12: Responsible consumption & production
Farm Management Economics	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Plant Propagation & Nursery Management	Principles and practices underlying the plant propagation and management of horticultural crops. SDG 12: Responsible consumption & production
Animal Health & Farm Sanitation	Improved practices of sound animal health and farm sanitation, biosecurity. SDG 3: Good Health and Well-Being
Special Topics: Crop Science, Animal Science, Soil Science)	This course describes new technological advancement in agriculture, address issues and concerns in agricultural production. SDG 4: Quality Education SDG 12: Responsible consumption & production
<b>BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT</b>	
Crop Protection I- Entomology	This course is design to provide the students knowledge about role of crop protection in improving food supply. Principles of crop protection covers the basic concepts, biological and ecological information about weeds, pest and diseases and how they affect crops directly and indirectly. In addition, it also explains the various methods of pest and disease control as well as the





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	integration of safe and ecologically sound pest management practices which can be applied in crop production. SDG 4- Quality Education & SDG 15- Life on land
Intro to Animal Science	This course describes agricultural development, issues and concerns in animal science. SDG 4- Quality Education
Fundamentals of Crop Science	This course is an introduction to science-based principles underlying crop production, including: classification and use of major world crops; plant growth and development in response to environment and management; crop pests and pest production; plant breeding and genetic improvement, issues, policies and trade agreements concerning crop production. SDG 4- Quality Education & SDG 15- Life on land
Introduction to Agribusiness	Fundamentals of managing agribusiness ventures. This course deals with the management problems and opportunities of agribusiness firms and related industries concerned integrative arrangements that relate to decisions and operations of agribusiness firms and major commodity systems. SDG 4- Quality Education
Intermediate Microeconomic Theory	The course introduces the students to the economics of the firm and how resource is allocated by individual decision-making units. In particular, the course expounds on the basic microeconomic theories governing the concepts of demand and supply; production theory; costs theory, and pricing and output determination. SDG 4- Quality Education
Intro to Livestock and Poultry Production	The management of farm animals for the efficient production of meat, milk, eggs, and other animal products. SDG 4- Quality Education & SDG 15- Life on land
Fundamentals of Horticulture	This course will provide the student in agribusiness management a knowledge and information on pre-horticultural farm operations, productions of vegetables and fruit-bearing crops, including ornamental and flowering plants. It will also help student capabilities and gain further knowledge on postharvest operations of major tropical fruits and lowland vegetable crops. SDG 4- Quality Education & SDG 15- Life on land
Principles of Accounting	This course will cover introduction to financial accounting within the context of business and business decisions. It will explore the development of accounting information and the use of various types of accounting information found in financial statements and annual reports. It will emphasize what accounting information is, why it is important and how economic decision makers use it. Specifically, it will cover introduction to business and decision-making, basic structure and development of useful accounting information, understanding the basic financial statements cash form of outside assurance on financial statements; and analysis of accounting information. SDG 4- Quality Education
Fundamentals of Agricultural Engineering	This course deals with basic knowledge of the four areas of agricultural engineering namely machinery and power engineering, structure and environment engineering, land and water resources engineering, and process engineering. SDG 4- Quality Education
Introduction to Entrepreneurship	This course discusses the concept of entrepreneurship, the characteristics of entrepreneurs, how to start a new enterprise, and analysis of course and problems appealing SMEs. SDG 4- Quality Education



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Crop Protection II- Plant Pathology	SDG 4- Quality Education & SDG 15- Life on land
Introduction to Human Behavior in Organization	The course introduces the students to the factors affecting behavior of individuals and groups in organization focusing on the specific factors that tend to explain behavior of individuals, groups, and organizations. Various theories and models of organizational behavior work group behavior, motivation in life and work, and human relations among others are discussed and related to organizational practices and phenomena. SDG 4- Quality Education
Intro to Management Science	This course is an introduction and application of various quantitative methods as tools in managerial decision-making. SDG 4- Quality Education
Managerial Accounting	This course introduces the importance of accounting information to managerial decision- making. It includes translating accounting of financial data into information that will serve as tools for management decision-making in the realm of planning and control. SDG 4- Quality Education
Intro to Marketing Management	This course focuses on the analysis of marketing opportunities and problems in various types of business endeavors with applications to agribusiness enterprises, marketing, planning, strategy formulation, implementation and control. SDG 4- Quality Education
Ag. Extension and Communication	Principles, methods and trends in extension and communication for rural development. SDG 4- Quality Education
Intro to Financial Management	Financial management theories as applied to short- and long-range planning including capital budgeting, management of assets, sources of short- and long-term corporate capital and bargaining for funds. SDG 4- Quality Education
Intro to Personnel Management	Personnel management define the work with the main task and change the management of personnel, literature on theory and successful work in the work, as well as recommended the use in the modern field of problems that are necessary for the revision of training and require staff personnel. The problem of personnel management as a holistic system of purposeful production in the personnel structure of the organization for the effective use of the activities of the activities of the team and satisfaction of the results of work of employees. SDG 4- Quality Education
Intro to Organization and Management of Small Business	This course tackles concepts and strategies in establishing and managing small business enterprises. It also includes a study of SMEs in the Philippines, the role of small business enterprises in economic development and identification of investment opportunities. SDG 4- Quality Education
Investment Management	As an introductory course in investment management, this course deals with the broad spectrum of concepts, principles, analytical techniques, policies ad practices regarding institutional investment. SDG 4- Quality Education
Special Problem	Students are expected to conduct their agribusiness research output through a case study. The case study will be conducted with portfolio evaluation of agribusiness firms. The students are also expected to recommend strategic policy options to improve business/industry performance. SDG 4- Quality Education
Principles of Economics	This course provides an introduction to a broad range of economic concepts, theories and analytical techniques. It considers both microeconomics- the analysis of choices made by



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	<p>individual decision-making units (households and firms)- and macroeconomics- the analysis of the economy as a whole. The use of a market, supply and demand, model will be fundamental model in which trade-offs and choices will be considered through comparison of costs and benefit of actions. Production and market structure will be analyzed at the firm level.</p> <p>Macroeconomic issues regarding the interaction of goods and services markets, labour and money at an aggregate level will be modelled. The role of government policy to address microeconomic market failures and microeconomic objectives will be examined. <b>SDG 4- Quality Education</b></p>
Concepts & Dynamics of Management	<p>This deals with the fundamentals of business organizations and management. The theories and principles of organization and management, as well as their application in business and industry are thoroughly discussed. The functions of management and the different types of organizational structures with their strengths and weaknesses from part of the course coverage. The course covers the benefits derived from entrepreneurship and importance of social responsibility as another goal of business. Students are also given a chance to apply management principles and concepts to actual business situations through case studies. <b>SDG 4- Quality Education</b></p>
Agribusiness Management	<p>Fundamentals of managing agribusiness ventures. This course deals with the management problems and opportunities of agribusiness firms and related industries concerned integrative arrangements that relate to decisions and operations of agribusiness firms and major commodity systems. <b>SDG 4- Quality Education</b></p>
Intro to Animal Science	<p>This course describes agricultural development, issues and concerns in animal science. <b>SDG 4- Quality Education &amp; SDG 15- Life on land</b></p>
Principles of Crop Production	<p>This course in an introduction to science-based principles underlying crop production, including: classification and use of major world crops; plant growth and development in response to environment and management; crop pests and pest production; plant breeding and genetic improvement, issues, policies and trade agreements concerning crop production. <b>SDG 4- Quality Education &amp; SDG 15- Life on land</b></p>
Practices of Crop Production	<p>This course is designed to provide students with an in-depth understanding of the principles and practices of crop production. Students will learn about issues and development of crop production in agriculture and trade and the different in the Philippines and Asia. <b>SDG 4- Quality Education &amp; SDG 15- Life on land</b></p>
Analytic Geometry & Intro to Calculus in Business Economics	<p><b>SDG 4- Quality Education</b></p>
Intro to Livestock & Poultry Production	<p>The management of farm animals for the efficient production of meat, milk, eggs, and other animal products. <b>SDG 4- Quality Education &amp; SDG 15- Life on land</b></p>
Agricultural Policy and Development	<p>Evaluation and formulation of policies, the policy-making process, description and analysis of policies and programs affecting agriculture and development and the political aspects of agricultural decisions. <b>SDG 4- Quality Education</b></p>



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Human Behavior in Organization	The course introduces the students to the factors affecting behavior of individuals and groups in organization focusing on the specific factors that tend to explain behavior of individuals, groups, and organizations. Various theories and models of organizational behavior work group behavior, motivation in life and work, and human relations among others are discussed and related to organizational practices and phenomena. SDG 4- Quality Education
Management Science	This course is an introduction and application of various quantitative methods as tools in managerial decision-making. SDG 4- Quality Education
Principles of Crop Protection	This course is design to provide the students knowledge about role of crop protection in improving food supply. Principles of crop protection covers the basic concepts, biological and ecological information about weeds, pest and diseases and how they affect crops directly and indirectly. In addition, it also explains the various methods of pest and disease control as well as the integration of safe and ecologically sound pest management practices which can be applied in crop production. SDG 4- Quality Education & SDG 15- Life on land
Approaches and Practices of Pest Management	Approaches and Practices in Pest Management is a 3-unit course on the concept of introduction to the application of ecological principles to the management of pest populations. Principles and concepts of pest management will be presented and discussed, and the importance of pest management as an environmentally sound practice will be emphasized based on economic, ecological and sociological consequences. Although examples of insect pest management will be emphasized, the principles and concepts of integrated pest management (IPM) apply across disciplines. SDG 4- Quality Education & SDG 15- Life on land
Principles of Soil Science	This course will offer students the opportunity to learn the importance of soil in agriculture, its importance in crop production, its properties and processes that involved in its development. SDG 4- Quality Education & SDG 15- Life on land
Human Resource Management	The application of personnel management principles and theories to short- and long-range HR planning, hiring, process, selection and placement, training, performance, employee development, benefits, and employee relations. SDG 4- Quality Education
Marketing Management	This course focuses on the analysis of marketing opportunities and problems in various types of business endeavors with applications to agribusiness enterprises, marketing, planning, strategy formulation, implementation and control. SDG 4- Quality Education
Business Law	This course presents the legal basis of business establishment. It highlights laws involved in the operational phase, the corporation laws, obligation and contracts. SDG 4- Quality Education
Organization and Management of Small Business	This course tackles concepts and strategies in establishing and managing small business enterprises. It also includes a study of SMEs in the Philippines, the role of small business enterprises in economic development and identification of investment opportunities. SDG 4- Quality Education & SDG 15- Life on land
Fundamentals of Agricultural Engineering	This course deals with basic knowledge of the four areas of agricultural engineering namely machinery and power engineering, structure and environment engineering, land and



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	water resources engineering, and process engineering. SDG 4- Quality Education
Agribusiness Research Methods	A study of research concepts, methods and techniques applied to agribusiness. SDG 4- Quality Education
Managerial Economics	This course discusses the integration of economic theory and techniques with business functional areas for some managerial decision-making. SDG 4- Quality Education
Financial Management	Financial management theories as applied to short- and long-range planning including capital budgeting, management of assets, sources of short- and long-term corporate capital and bargaining for funds. SDG 4- Quality Education
Practicum	Performance evaluation and case analysis of agribusiness firms and industries. SDG 4- Quality Education
Proj. Feasibility Study/Proj. Benefit Monitoring Evaluation	This course teaches the students the preparation of feasibility studies. SDG 4- Quality Education
Production and Operations Management	This will introduce various elements and relevant concepts to Production Management. It will also present some of the POM tools that can be applied to wide variety of situations. This course will provide and integrated framework for understanding the field as a whole. By the end of the course, the student should be able to understand and appreciate POM; know its importance in the success of the business; and learn the major POM concepts, quantitative tools, and techniques that are used in tactical and strategic decisions. SDG 4- Quality Education
International Marketing	This course exposes the students to contemporary environment, problems, practices and challenges in international marketing. SDG 4- Quality Education
Special Problem I (Case Study 1/Industry-based)	This course will prepare students to address contemporary issues within the agribusiness industry. Students will identify and develop a proposal outline to address a specific problem. Survey instruments shall be tested for validity and reliability to maintain the integrity of the research output. SDG 4- Quality Education
Principles of Ag. Extension and Communication	Principles, methods and trends in extension and communication for rural development SDG 4- Quality Education
Special Problem II (Case Study 1/Industry-based)	Writing and Defense of the research outcome. SDG 4- Quality Education
Statistical Analysis in Business with Computer Application	This covers statistical methods and tools in an agribusiness context with computer applications. SDG 4- Quality Education
<b>BACHELOR OF ELEMENTARY EDUCATION</b>	
NSTP 2 CWTS	In accordance with the RA 9163, otherwise known as the National Service Training Program Act 2001, this 3 unit course is designed to train the youth to contribute in the empowerment of the general welfare and quality of life of the Filipinos. It provides knowledge, interest, skills learning, attitudes and proficiency (KISLAP) to NSTP enrolled students in various campuses of Pangasinan State University.  This course aligns closely with SDG 4: Quality Education.
Ethics	Ethics deals with principles of ethical behavior in modern society at the level of the person, society, and in interaction





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	<p>with the environment and other shared resources. (CMO 20 s 2013).</p> <p>This course aligns closely with SDG 4: Quality Education.</p>
NSTP 1 CWTS	<p>In accordance with the RA 9163, otherwise known as the National Service Training Program Act 2001, this 3 unit course is designed to train the youth to contribute in the empowerment of the general welfare and quality of life of the Filipinos. It provides knowledge, interest, skills learning, attitudes and proficiency (KISLAP) to NSTP enrolled students in various campuses of Pangasinan State University.</p> <p>This course aligns closely with SDG 4: Quality Education.</p>
Science, Technology, and Society	<p>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. This course includes mandatory topics on climate change and environmental awareness. The course combines science and technology with social, cultural, political, and economic contexts, providing a comprehensive understanding of their interactions and aligns with SDG 4.</p>
<b>BACHELOR OF EARLY CHILDHOOD EDUCATION</b>	
Health, Nutrition and Safety	<p>This course centers on the basic concepts, principles and practices of child health, food and nutrition, and child safety for children ages 0 to 8. It provides opportunities to pre-service students to demonstrate content knowledge of relevant policies, guidelines and procedures and preventive practices that provide safe and secure learning environment, including ECCD in emergencies and child protection. It emphasizes on the importance of partnering with health professionals and building relationships with families and communities to help young children establish healthy lifestyles and achieve their learning potential.</p> <p>SDG 3 = Good Health and Well-Being</p> <p>SDG 2 = Zero Hunger</p> <p>SDG 4 = Quality Education</p> <p>SDG 16 = Peace, Justice, and Strong Institutions</p>



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Science in Early Childhood Education	<p>The course focuses on the technological, pedagogical, and content knowledge and skills on science concepts and experiences that are relevant to the three ECE levels. It provides opportunities to observe Science experiences that show selection of appropriate materials, learning specific scientific techniques for working with young children, and knowing how to integrate Science concepts across all learning areas.</p> <p>SDG 4 = Quality Education</p> <p>SDG 13 = Climate Action</p>
Early years, and special and inclusive education	<p>Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development</p>
<b>BACHELOR OF PUBLIC ADMINISTRATION</b>	
Strategic Planning	<p>This course explores the fundamental concepts and processes of strategic management, focusing on how organizations formulate, implement, and evaluate strategies to achieve long-term objectives=</p>
Total Quality Management	<p>This course provides a Basics of Total Quality Management (TQM), as management approach focused on maximizing customer satisfaction/ customer centric approach through continuous improvement of processes, and public services.=</p>
<b>BACHELOR OF SCIENCE IN NURSING</b>	
Fundamentals in Nursing Practice	<p>This course provides the students with the overview of nursing as a science, an art and a profession. It deals with the concept of man as a holistic being comprised of bio-psycho-socio and spiritual dimensions. It includes a discussion on the different roles of a nurse emphasizing health promotion, maintenance of health as well as prevention of illness utilizing the nursing process. It includes the basic nursing skills needed in the care of individual clients.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> </ol>



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Health Assessment	<p>The course deals with concepts, principles and techniques of history taking using various tools, physical examination (head to toe), psycho-social assessment and interpretation of laboratory findings to arrive at a nursing diagnosis on the client across the lifespan in varied settings.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li></ol> <p>11. Sustainable Cities and Communities</p>
Care of Mother, Child, Risk or with Problems( Acute and Chronic)	<p>This course deals with the concept of disturbance and pre-existing health problems of pregnant women and the pathologic changes during intra-partum period. These disturbances are emphasized to facilitate the early recovery of clients. Likewise, this course further deals with the common problems occurring during infancy to adolescence stage.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li></ol> <p>11. Sustainable Cities and Communities</p>



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Nursing Informatics	<p>This course deals with the use of information technology system and data standards based on nursing informatics principles and theories. It further deals with the utilization of clinical information system in the management and decision-making of patient care. A laboratory session shall be provided for practice application.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>9. Industry, Innovation, and Infrastructure</li></ol>
Care of Clients with Maladaptive Patterns of Behavior: Acute and Chronic	<p>The course is designed to focus on health and illness across the lifespan of clients, population groups with acute and chronic psychosocial difficulties and psychiatric illnesses.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li></ol>
Nursing Research 2	<p>This course is a continuation of Nursing Research I which includes collection of data, analysis, interpretation, summary and conclusion and recommendation. Advising is done throughout the practicum sessions.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li></ol>



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	<ol style="list-style-type: none"> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> </ol>
<p>Human Anatomy and Physiology</p>	<p>This course focuses on the structure, functions and adaptations of the human body, with emphasis on physiological regulations and adaptive mechanisms.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> </ol>
<p>Theoretical Foundations of Nursing</p>	<p>This course deals with the meta concepts of a person, health, environment and nursing as viewed by the different theorists. Likewise, it includes non-nursing theories such as systems, developmental and change theories. It presents how these concepts and theories serve as a guide to nursing practice. It further deals with health as a multifactorial phenomenon and the necessary core competencies that the nurse needs to develop It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> <li>16. Peace and Justice Strong Institutions</li> <li>17. Partnerships to achieve the Goal</li> </ol>





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<p>Pharmacology</p>	<p>Focuses on the composition, preparation, uses and clinical efficacy of drugs on the human body.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li><li>16. Peace and Justice Strong Institutions</li><li>17. Partnerships to achieve the Goal</li></ol>
<p>Care of Clients with Problems in Oxygenation, Fluid and Electrolytes, Infectious, Inflammatory and Immunologic</p>	<p>The course deals with the principles and techniques of nursing care management of sick clients across the lifespan, in any setting, with alterations/problems in oxygenation, fluid, electrolyte and acid-base balance, metabolism and endocrine.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li></ol>



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	<p>16. Peace and Justice Strong Institutions</p> <p>17. Partnerships to achieve the Goal</p>
Care of the Older Adult	<p>Caring for older adults involves a combination of physical, emotional, and social support to ensure their well-being. On a physical level, it often includes assisting with daily activities such as bathing, dressing, and medication management. Regular health check-ups and monitoring for any signs of decline are crucial.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li></ol> <p>16. Peace and Justice Strong Institutions</p> <p>17. Partnerships to achieve the Goal</p>
Nursing Research 1	<p>This is an introductory course intended to equip the nursing students with concepts, principles in research starting from an overview of the major phases of the research process. The course will include discussions from formulation to dissemination of research findings, focus on the formulation of a research problem to the selection of the research design, planning and choosing the appropriate research tools for data gathering. This course will require the student of group to present a research proposal in a colloquium with the application of knowledge and demonstration of skills and attitude in the conceptual, design and planning phases of the research process.</p>



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	<p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li> <li>16. Peace and Justice Strong Institutions</li><li>17. Partnerships to achieve the Goal</li></ol>
<p>Decent Work Employment and Transcultural Nursing</p>	<p>The goal of this course is to equip aspiring medical professionals with the skills they need to manage the challenges of multicultural workplaces and deliver fair and culturally competent patient care. Pupils will acquire important knowledge about the mutually beneficial relationship between transcultural nursing and decent work employment, which promotes an all-encompassing strategy for providing healthcare in an increasingly interconnected world.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li></ol>



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	<p>16. Peace and Justice Strong Institutions</p> <p>17. Partnerships to achieve the Goal</p>
<p>Nursing Care of Clients with Life Threatening Conditions. Acutely Ill/Multi-organ Problems, High Acuity and Emergency Situation, Acute and Chronic</p>	<p>It deals with the principles and techniques of nursing care management of sick clients across the lifespan with emphasis on the adult and older person with alteration/problems in Multiorgan, high acuity including emergency and disaster nursing and IV Therapy.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> <li>12. Responsible Consumption and Production</li> </ol> <p>16. Peace and Justice Strong Institutions</p> <p>17. Partnerships to achieve the Goal</p>
<p>Nursing Leadership and Management</p>	<p>This course deals with the application of the concepts, principles, theories and methods of developing nursing leaders and managers in the hospital and community-based settings. It also includes ethico-moral/legal aspects of health care and nursing practice and the nurses' responsibilities for personal and professional growth.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> </ol>



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	<p>5. Gender Equality</p> <p>6. Clean Water and Sanitation</p> <p>11. Sustainable Cities and Communities</p> <p>12. Responsible Consumption and Production</p> <p>16. Peace and Justice Strong Institutions</p> <p>17. Partnerships to achieve the Goal</p>
<p>Care of Clients with Maladaptive Patterns of Behavior: Acute and Chronic</p>	<p>The course is designed to focus on health and illness across the lifespan of clients, population groups with acute and chronic psychosocial difficulties and psychiatric illnesses.</p>
<p>Care of Clients with Problems in Nutrition and Gastrointestinal, Metabolism and Endocrine, Perception and Coordination</p>	<p>This course deals with the concepts, principles and theories of human behavior and the care of the sick client across the lifespan with emphasis on the adult and the older person, population group experiencing alterations in nutrition, gastrointestinal, endocrine response and perception and coordination in varied settings.</p>
<p>Care of Clients with Maladaptive Patterns of Behavior: Acute and Chronic</p>	<p>The course is designed to focus on health and illness across the lifespan of clients, population groups with acute and chronic psychosocial difficulties and psychiatric illnesses.</p>
<p>Care of Clients with Problems in Nutrition and Gastrointestinal, Metabolism and Endocrine, Perception and Coordination</p>	<p>This course deals with the concepts, principles and theories of human behavior and the care of the sick client across the lifespan with emphasis on the adult and the older person, population group experiencing alterations in nutrition, gastrointestinal, endocrine response and perception and coordination in varied settings.</p>
<p>Competency Appraisal 1</p>	





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	<p>This course deals with the application of the concepts, principles and processes basic to the practice of nursing with emphasis on health promotion, health maintenance, preventive, risk reduction, curative and rehabilitative aspects of care for the mother, child and family, population group and community and aspects of care of sick individuals with alterations in oxygenation, fluid and electrolyte balance, metabolism and endocrine functioning, inflammatory and immunologic response, perception and coordination, pain including the perioperative concept. It includes the utilization of the nursing process and the core competencies.</p>
Disaster Nursing	<p>This course deals to equip nursing professionals with the skills and self-assurance they need to deliver efficient, compassionate care in the demanding and chaotic settings that arise from emergencies. By means of a blend of didactic instruction and hands-on simulations, learners will be adequately equipped to participate in disaster relief endeavors and generate significant effects during periods of turmoil.</p>
Fundamentals in Nursing Practice	<p>This course provides the students with the overview of nursing as a science, an art and a profession. It deals with the concept of man as a holistic being comprised of bio-psycho-socio and spiritual dimensions. It includes a discussion on the different roles of a nurse emphasizing health promotion, maintenance of health as well as prevention of illness utilizing the nursing process. It includes the basic nursing skills needed in the care of individual clients.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li></ol>
Health Assessment	<p>The course deals with concepts, principles and techniques of history taking using various tools, physical examination (head to toe), psycho-social assessment and interpretation of laboratory</p>



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	<p>findings to arrive at a nursing diagnosis on the client across the lifespan in varied settings.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li></ol> <p>11. Sustainable Cities and Communities</p>
Care of Mother, Child, Risk or with Problems( Acute and Chronic)	<p>This course deals with the concept of disturbance and pre-existing health problems of pregnant women and the pathologic changes during intra-partum period. These disturbances are emphasized to facilitate the early recovery of clients. Likewise, this course further deals with the common problems occurring during infancy to adolescence stage.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li></ol> <p>11. Sustainable Cities and Communities</p>
Nursing Research 2	<p>This course is a continuation of Nursing Research I which includes collection of data, analysis, interpretation, summary and conclusion and recommendation. Advising is done throughout the practicum sessions.</p> <p>It has a strong focus on the following SDG:</p>



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Disaster Nursing	<p>This course deals to equip nursing professionals with the skills and self-assurance they need to deliver efficient, compassionate care in the demanding and chaotic settings that arise from emergencies. By means of a blend of didactic instruction and hands-on simulations, learners will be adequately equipped to participate in disaster relief endeavors and generate significant effects during periods of turmoil.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>16. Peace and Justice Strong Institutions</li><li>17. Partnerships to achieve the Goal</li></ol>
Intensive Nursing Practicum	<p>This course deals with intensive clinical practicum that will provide the nursing students with hands-on training on the different areas of nursing care.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li></ol>



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	<ol style="list-style-type: none"> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> <li>16. Peace and Justice Strong Institutions</li> <li>17. Partnerships to achieve the Goal</li> </ol>
<p>Theoretical Foundations of Nursing</p>	<p>This course deals with the meta concepts of a person, health, environment and nursing as viewed by the different theorists. Likewise, it includes non-nursing theories such as systems, developmental and change theories. It presents how these concepts and theories serve as a guide to nursing practice. It further deals with health as a multifactorial phenomenon and the necessary core competencies that the nurse needs to develop It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> <li>16. Peace and Justice Strong Institutions</li> <li>17. Partnerships to achieve the Goal</li> </ol>
<p>Care of Mother, Child and Adolescent</p>	<p>This course deals with principles and techniques of caring for the normal mothers, infants, children and families and the application of principles and concepts on family and family health nursing process.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> </ol>



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	<ol style="list-style-type: none"> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> <li>16. Peace and Justice Strong Institutions</li> <li>17. Partnerships to achieve the Goal</li> </ol>
Community Health Nursing )	<p>This course covers the concepts and principles in the provision of basic care in terms of health promotion, health maintenance and disease prevention at the individual, family, community level, and special population groups. It includes the study of the Philippines health care delivery system and the global context of public health. It describes that community/public health nursing is, in the context of the Philippine Health Care Delivery System, and in community development.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"> <li>1. No Poverty</li> <li>2. Zero Hunger</li> <li>3. Good Health and Well-being</li> <li>5. Gender Equality</li> <li>6. Clean Water and Sanitation</li> <li>11. Sustainable Cities and Communities</li> <li>12. Responsible Consumption and Production</li> <li>16. Peace and Justice Strong Institutions</li> <li>17. Partnerships to achieve the Goal</li> </ol>
Bioethics	<p>The course aims at developing in students an understanding of the important concepts and principles of Bioethics. It is a reflection on moral experience. It includes foundations of moral values, values and society, the family, graft and corruption, violence, poverty,</p>





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	<p>abortion, and other health issues. Filipino values are also reflected in the course.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li><li>16. Peace and Justice Strong Institutions</li><li>17. Partnerships to achieve the Goal</li></ol>
Nutrition and Diet Therapy	<p>This course deals with the study of food in relation to health. It covers nutrients and other substances and their action, and interaction and balance in relation to health and diseases and the process by which organism ingests, digests, absorbs, transports, utilizes and excretes food substances. It will also focus in the therapeutic and food service aspects of the delivery of nutritional services in hospitals and other healthcare institutions.</p> <p>It has a strong focus on the following SDG:</p> <ol style="list-style-type: none"><li>1. No Poverty</li><li>2. Zero Hunger</li><li>3. Good Health and Well-being</li><li>5. Gender Equality</li><li>6. Clean Water and Sanitation</li><li>11. Sustainable Cities and Communities</li><li>12. Responsible Consumption and Production</li></ol>



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	<p>16. Peace and Justice Strong Institutions</p> <p>17. Partnerships to achieve the Goal</p>
<b>CCJE</b>	
Human Rights Education	It deals with the relations of human rights, freedom and the government its power to make laws, the national and international venue for the protection of human rights and it focus on SDG 16- Peace, Justice and Strong Institution
Professional Conduct and Ethical Standards	It deals with the professional conduct and ethical standards of professionals and as a Criminologist in the practice of their profession and field of specialization, governing ethical codes both in government and private sectors and their relevance to human relations and and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development in the field of specialization and ethical standards
Dispute Resolution & Crisis Management	It deals with the study of the different mechanism in dealing and resolving conflicts/dispute. It includes the art of intervention through mediation and have a strong focus on SDG SDG 16- Peace, Justice and Strong Institution. Focuses on provides mechanism on how to adapt strategies in dealing with actual crisis are being address by concern agencies, authorities and the community
Therapeutic Modalities	It covers the different therapeutic modalities, treatment models, treatment programs and policy or program intervention for both in institutional and non-institutional corrections. and have a strong focus on SDG 4- Quality Education.
Theories of Crime Causation	It describes the role of theory in crime scholarship, It surveys the major schools of thought relation to crime causation and have a strong focus on SDG 4- Quality Education. Focuses on review the primary assumptions of the theories and conclusion reach from criminological research.
Specialized Crime Investigation w/ Simulation on Interview	It provides emphasis on the Constitutional Rights of persons arrested placed under investigation, search & seizure. It takes on the conduct of interview & interrogation of suspects. It and have a strong focus on SDG 16- Peace, Justice and Strong Institution.
Vice & Drug Education & Vice Control	It deals with sociological, Psychological and physiological perspectives and dimensions on the effects of drug use and abuse and the social developmental of vices and have a strong focus on it is focus on SDG 16- Peace, Justice and Strong Institution and focuses on the enforcement of different laws,



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	relevant jurisprudence, investigation, gathering of evidence, arrest and seizure of drugs and vices.
Introduction to Cyber crime and Environmental Laws and Protection	It provides the overview of cyber crime and Environment, it will lay the overview of our ecosystem, biodiversity and its relation to human survival and sustainable development. and have a strong focus on it is focus on SDG 16- Peace, Justice and Strong Institution and focuses on the environmental laws, detection of violation, conduct of investigation and applicable jurisprudence
Non Institutional Correction	Its primarily focus o the different forms, types or kinds of non institutional correction/community based correction/ non confinement correction and have a strong focus on SDG 4- Quality Education. Focuses on different methods, forms, types or clemency the processes of the grant, revocation, cancellation or disqualification of the party concerned as provided in the law, rules, guidelines or manual.
Dispute Resolution & Crisis Management	It deals with the study of the different mechanism in dealing and resolving conflicts/dispute. It includes the art of intervention through mediation and have a strong focus on SDG SDG 16- Peace, Justice and Strong Institution. Focuses on provides mechanism on how to adapt strategies in dealing with actual crisis are being address by concern agencies, authorities and the community
Character Formation 2:Leadership Decision Making Management & Administration	It includes understanding of personal values, characters and goals and have a strong focus on SDG 4- Quality Education. Focuses on leadership and management approaches
Fundamental of Criminal Investigation & Police Intelligence	It covers the basic principles on relevant laws, constitutional rights, new rules on evidence and criminal behavior in relation to investigation. SDG 16- Peace, Justice and Strong Institution. Focuses on different methods of extracting information, the different instrument to aid the investigation.
Forensic Photography	It covers the historical development,principles and processes of photography in relation to law enforcement and criminal justice and have a strong focus on SDG 4- Quality Education. Focuses on the use of forensic light sources and techniques & related laws and jurisprudence in photography.
Vice & Drug Education & Vice Control	It deals with sociological, Psychological and physiological perspectives and dimensions on the effects of drug use and abuse and the social developmental of vices and have a strong focus on it is focus on SDG 16- Peace, Justice and Strong Institution and focuses on the enforcement of different laws,



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	relevant jurisprudence, investigation, gathering of evidence, arrest and seizure of drugs and vices.
Introduction to Criminology	It provides basic understanding of a theory, development and application to the etiology of crimes and it is use to understanding human, criminal and deviant behaviors. and have a strong focus on SDG 4- Quality Education focuses on the introducing criminology a a profession in the Philippines.
Integrated Review 1	It deals with the assessment of the course subjects in criminology program and have a strong focus on SDG 4- Quality Education it focuses on refreshing the students with the different course subject and introduce new updates regarding the subjects.
Introduction to Cyber crime and Environmental Laws and Protection	It provides the overview of cyber crime and Environment, it will lay the overview of our ecosystem, biodiversity and its relation to human survival and sustainable development. and have a strong focus on it is focus on SDG 16- Peace, Justice and Strong Institution and focuses on the environmental laws, detection of violation, conduct of investigation and applicable jurisprudence
Comparative Models in Policing	This study covers the comparison of selected police models & their relationship with interpol & UN bodies and campaign against transnational crime. and have a strong focus on it is focus on SDG 16- Peace, Justice and Strong Institution and focuses on the promotion of world peace.
<b>BACHELOR OF SECONDARY EDUCATION MAJOR IN SCIENCE</b>	
SSP-Gender & Society	This course has a strong focus on SDG 5-Gender Equality which help students understand concepts, perspectives, legislation, policies, and issues on gender. Highlighting 'Gender' as a social construction, its role in and impact on different facets of social life.
Microbiology & Parasitology	It is related to SDG 3-Good Health and Well-Being because topics revolve on the physiology, pathogenicity of microorganisms and parasites involving host responses to infections, mode of transmission, prevention and treatment.
Disaster Risk Reduction & Management	SDG 13-Climate Change is also emphasized in this course since it provides insight into some of the cross-cutting issues related to climate change and adaptation, disaster risk governance and disaster risk issues.
The Teacher & the School Curriculum	It involves fundamental concepts and principles in curriculum and curricular development and reforms, engaging perspective teachers as curricularists that is of great importance in the realization of SDG 4-Quality Education.



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Analytical Chemistry	It covers principles, theories, and laboratory procedures important to the practice of quantitative chemical analysis. Application of quantitative chemical analysis play significant role in achieving SDG 6-Clean Water and Sanitation.
Waves & Optics	This covers themes on the fundamental concepts of waves and optics, their importance on daily activities and the practical applications in various industries. It is connected to SDG 4-Quality Education since it enhances scientific literacy and promotes critical thinking and problem-solving skills.
Genetics	SDG 14-Life Below Water and SDG 15-Life On Land can be addressed by this course since it tackles heredity and variation of living things found both in land and underwater. Preservation and conservation of life is also given importance.
Physical Activity Towards Health & Fitness 4	SDG 3-Good Health and Well-Being is emphasized through acquisition of basic concepts and skills necessary in performing team sports. It also focuses on the development of desirable social attitudes and more harmonious relationships with both teammates and opponents.
Readings in Philippine History	Includes analysis of Philippine history from multiple perspectives. Closely related to SDG 4-Quality Education promoting civic awareness and responsibility.
Cell & Molecular Biology	This course deals with cell structures, functions and biochemical reactions. It could also provides insights about molecular and cellular mechanisms underlying diseases that could address SDG 3-Good Health and Well-being.
Art Appreciation	It aims to equip students with a broad knowledge of the practical, historical, philosophical and social relevance of arts which intersects with SDG 11-Sustainable Cities highlighting the importance of preserving cultural heritage and historic cities; SDG 16-Peace, Justice and Strong Institutions for art can be a platform for individuals to express themselves and participate in societal discourse promoting peace and reconciliation among others.
The Contemporary World	Explores issues related to economic, social, and political inequalities on a global scale. SDG 10-Reduced Inequality is likely to be addressed. Students are also equipped to better understand and advocate for policies and practices that promote equality by examining the root causes and consequences of inequality.
<b>BACHELOR OF ARTS IN ENGLISH LANGUAGE</b>	



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Introduction to the English Language System	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Theories of Language and Language Acquisition	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
English Phonology and Morphology	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Business Commuication	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Syntax of English	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Semantics of English	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Language of Literary Texts	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Technical Writing in the Professions	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Stylistics	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Language of Non-Literary Texts	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Intercultural Communication	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Language Research I: Methodology	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Philippine English	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development





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Language Research II: Thesis	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
ELT Approaches and Methods	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
English Language Testing and Assessment	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Language and Gender	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Instructional Materials Development and Evaluation	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
History of the English Language	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Theories of Language Acquisition	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Introduction to Language, Society and Culture	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
English Syntax	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Intercultural Communication	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Language and Journalism	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
English Discourse	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Computer-Mediated Communication	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development



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Translation Studies	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Philippine English	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Introduction to Pragmatics	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
English Language Teaching Approaches and Methods	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Argumentation and Debate	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Instructional Materials Development and Evaluation	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
English Language Testing and Assessment	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
Special Topics in English Across the Professions	Incorporates themes relating to social reasonability and have a strong focus on SDG 4-Quality Education. Focuses on practical skills and development
<b>BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION</b>	
Entrepreneurial Management	<b>This course</b> focuses on developing skills to manage new and growing ventures, with emphasis on innovation, leadership, and strategic decision-making. This aligns with <b>SDG 8</b> (Decent Work and Economic Growth) by fostering entrepreneurship and promoting sustainable business growth.
Special Topics in Operations Management	This course covers advanced, emerging issues in operations to enhance efficiency and adaptability. It supports <b>SDG 9</b> (Industry, Innovation, and Infrastructure) through innovation and industrial resilience.
Environmental Management System	This course teaches sustainable business practices to minimize environmental impact, aligning with <b>SDG 13</b> (Climate Action) by promoting responsible resource use.



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Strategic Management	This course involves long-term planning for competitive advantage, contributing to <b>SDG 9</b> by encouraging innovation and sustainable business practices.
Good Governance and Social Responsibility	This course emphasizes ethical leadership and accountability, aligning with <b>SDG 16</b> (Peace, Justice, and Strong Institutions) through the promotion of transparent and responsible governance.
<b>BS NUTRITION AND DIETETICS</b>	
Basic Foods I	The subject "Basic Foods I" likely refers to foundational knowledge about essential foods, their nutritional value, and their role in the human diet. This subject aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 10, 12, and 17 particularly those focusing on health, nutrition, sustainable food systems, and education. By focusing on the fundamentals of nutrition and essential food groups, it supports education, sustainable consumption, and health promotion, contributing to a broad range of SDGs aimed at improving nutrition, reducing inequalities, and fostering sustainable development.
Nutritional Assessment	Nutritional Assessment involves evaluating the nutritional status of individuals or a population through methods such as dietary analysis, anthropometric measurements, biochemical tests, and clinical evaluations. It is crucial for identifying malnutrition, deficiencies, and diet-related health risks, and it aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 5, 10, 12, and 17. By identifying nutritional needs, deficiencies, and health risks, this course is critical for designing effective health interventions and policies, promoting equitable access to nutrition, and supporting sustainable food and health systems.
Foodservice Systems II	Foodservice Systems II focuses on the management, operation, and sustainability of foodservice operations, such as restaurants, cafeterias, hospitals, and other institutional food systems. This subject aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 5, 8, 10, 12, 13, and 17, particularly in the areas of health, sustainability, responsible production, and equitable access to food. By integrating sustainable practices, improving food access, and promoting health, "Foodservice Systems II" plays a vital role in supporting sustainable development, responsible production, and equitable access to safe, nutritious food.



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Food and Nutrition Research I	<p>Food and Nutrition Research I focuses on investigating various aspects of food, nutrition, and their impacts on health and well-being. It aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 9, 10, 12, and 17, particularly those related to health, food security, sustainability, and innovation. Below are the key SDGs relevant to Food and Nutrition Research I. By advancing knowledge in nutrition science, dietary needs, and sustainable food systems, this course plays a crucial role in achieving the SDGs related to health, food security, and sustainability, driving innovation and informed policy-making.</p>
Nutrition Therapy I	<p>It aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 10, 12, and 17, as it directly and indirectly influences health, well-being, and sustainable development. These goals reflect how nutrition therapy plays an important role in promoting individual health, addressing malnutrition, and fostering sustainable food systems.</p>
Nutrition in the Life Stages	<p>It aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 5, 10, 12, and 17, as they directly impact health, growth, and well-being throughout different phases of life. By ensuring optimal nutrition at every life stage—from infancy to old age—this approach supports health and development while promoting sustainable growth and equality.</p>
Public Health Nutrition	<p>It aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 5, 10, 12, and 17, as it addresses population-level nutrition issues that impact health, well-being, and sustainable development. Public health nutrition is central to promoting sustainable development by improving population health, reducing inequalities in access to nutritious food, and fostering healthier, more sustainable food systems.</p>
Hospital Dietetics Practicum	<p>The subject "Hospital Dietetics Practicum" involves hands-on training for dietitians in a hospital setting, focusing on providing medical nutrition therapy, managing patient diets, and collaborating with healthcare teams. This aligns with several United Nations Sustainable Development Goals (SDGs), 2, 3, 4, 5, 10, 12, and 17, particularly in areas related to health, food security, and education. By offering hands-on experience in clinical</p>



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	<p>nutrition, this practicum supports health promotion, reduces malnutrition, fosters professional education, and encourages the development of sustainable healthcare practices, all contributing to several SDGs.</p>
<b>BACHELOR OF ARTS IN ECONOMICS</b>	
Macroeconomics	<p>The course provides a comprehensive understanding on how the economy works and how different economic agents as a whole respond to changes in the economic environment by contemplating macroeconomic variables such as national income, consumption and investment, inflation, unemployment, aggregate demand and supply, monetary and fiscal policy, economic growth, poverty, income inequality and international trade.</p> <p><b>SDG 8: Decent Work and Economic Growth</b>          This subject is linked to SDG 8 because it explores key economic factors like national income, unemployment, and economic growth, essential for promoting sustained and inclusive economic progress.</p>
Microeconomics	<p>The course deals with advanced economic analysis of price theory, consumer behavior, output determination, distribution and other microeconomic theories with emphasis on mathematical approach in the application of some of economic variables.</p> <p><b>SDG 9: Industry, Innovation, and Infrastructure</b>          Microeconomics focuses on consumer behavior, output, and price theory, which supports innovation and the development of resilient economic structures, aligning with the goals of SDG 9.</p>
<b>BS BIOLOGY MAJOR IN PLANT BIOLOGY</b>	
Plant Physiology	<p>Course Description:</p> <p>This course explores the fundamental physiological processes in plants, emphasizing how they grow, develop, and respond to their environment. Key topics include water and nutrient uptake, photosynthesis, respiration, plant hormone regulation, and stress physiology. The course integrates concepts of biochemistry, cell biology, and ecology to provide a comprehensive understanding of plant function at molecular, cellular, and whole-plant levels. Students will engage in laboratory activities that reinforce theoretical knowledge, including experiments on plant-water</p>



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	<p>relations, photosynthetic efficiency, and the effects of environmental stresses on plant physiology. This course is essential for students in biology, agriculture, and environmental science programs, providing a foundation for advanced studies in plant sciences and applications in agriculture, conservation, and biotechnology.</p> <p>SDG 15-Life on Land:</p> <p>Through laboratory activities, students will investigate the effects of environmental factors on plant health and resilience, learning how plants respond to challenges like climate change, land degradation, and habitat loss. By studying plant physiology in the context of sustainable land use and conservation, students will gain insights into the role of plants in maintaining ecosystem health, combating desertification, and promoting biodiversity. The course emphasizes sustainable practices in agriculture, forestry, and ecosystem restoration, encouraging students to apply plant physiology knowledge toward the protection, restoration, and sustainable management of terrestrial ecosystems.</p>
<p>BioEntrepreneurship</p>	<p>Course Description:</p> <p>This course provides an introduction to entrepreneurship in the context of the biological sciences, focusing on the development of innovative, sustainable solutions within the biotechnology and life sciences sectors. Students will explore how to identify market opportunities, develop business models, and create startups that address challenges in health, agriculture, environment, and biotechnology.</p> <p>SDG 9 - Industry, Innovation, and Infrastructure</p> <p>The course emphasizes the role of bio-entrepreneurship in promoting sustainable industrial innovation and infrastructure development. Students will learn how to design businesses that integrate cutting-edge biological research and technology into scalable, marketable products and services that promote sustainable economic growth and environmental stewardship. Topics include intellectual property rights, funding strategies, regulatory frameworks, and the ethical implications of biotechnological innovations.</p>
<p>SYSTEMATICS</p>	<p>Course Description:</p>





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	<p>This course explores the foundational principles of biological systematics, focusing on the classification, identification, and evolutionary relationships among organisms. Students will learn key methods in taxonomy, phylogenetics, and biodiversity assessment, equipping them with the skills needed to describe, classify, and understand species within ecosystems. The course emphasizes the importance of systematics in conservation biology, helping to protect endangered species, maintain biodiversity, and promote the sustainable use of natural resources.</p> <p>SDG 15 – Life on Land:</p> <p>Aligned with <b>UN Sustainable Development Goal 15</b> (Life on Land), the course highlights the vital role of systematics in biodiversity conservation, ecosystem management, and species protection. By understanding the diversity and evolutionary history of life, students will be prepared to contribute to efforts aimed at halting species extinction, protecting natural habitats, and fostering sustainable land use practices.</p>
Statistical Biology	<p>Course Description:</p> <p>This course introduces students to the application of statistical methods in biological research, focusing on how data-driven approaches can be used to understand complex biological systems. Topics covered include probability theory, hypothesis testing, regression analysis, experimental design, and the interpretation of biological data. Students will gain proficiency in using statistical tools and software to analyze data from fields such as genetics, ecology, epidemiology, and molecular biology.</p> <p>SDG 3 – Good Health and Well-being</p> <p>The course emphasizes the role of statistical biology in improving public health, disease prevention, and biomedical research. By applying statistical methods, students will learn how to analyze data relevant to understanding disease patterns, health trends, and the effectiveness of medical interventions, contributing to the</p>



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	<p>advancement of global health initiatives. The course also addresses how statistical biology supports research in improving access to healthcare, reducing disease burdens, and enhancing the quality of life.</p>
<b>BSEd SOCIAL STUDIES</b>	
<p>Geography 3- Urban Geography</p>	<p>The subject guides the students to demonstrate an understanding of the essential processes shaping socio-cultural geographies of contemporary cities. It also leads them to demonstrate knowledge on the different issues affecting cities such as economy, culture, health, planning, human mobility, transportation, including topics on sustainability and the future of cities. <b>SDG 11 Sustainable Cities and Communities</b></p>
<p>Comparative Economic Planning</p>	<p>The course explores the contemporary field of comparative economic planning that has evolved from the traditional to modern economics, encompassing transition from a purely quantitative to mixed and behavioral economics. <b>SDG 12 Responsible Consumption and Production</b></p>
<p>Trends and Issues in Social Studies</p>	<p>The course guides the students to demonstrate knowledge on the trends and issues within the context of a changing rapidly world, and will employ multidisciplinary and interdisciplinary approaches. It covers the various challenges (e.g. geographical, political, economic, cultural, social and technological landscapes) affecting the social science curriculum. It also includes identification of solutions to the problems and issues in the learning environment which will contribute in attaining better quality of life responsive to community contexts. <b>SDG 16 Peace, Justice and Strong Institutions</b></p>
<b>BACHELOR OF SCIENCE IN HOSPITALITY MANAGEMENT</b>	
<p>Macro Perspective of Tourism and Hospitality</p>	<p>This course is designed to give a clear and whole overview of Tourism and Hospitality as an ecosystem and goes beyond the usual closed concept of tourism. It introduces the concepts and terms that are common throughout the different sectors. It also intends to develop, update and maintain local knowledge as well as tourism industry knowledge. It shows the structure and scope of tourism as well as the impact of Tourism as an industry in relation to the world economy and society. It also illustrates the effects of the convergence of tourism with the other local industries and let the students appreciate its multiplier effect in various fronts. It discusses the major factors that influence the history and future of tourism in the world and in the Philippines. It also introduces the sustainable goals of tourism and discusses, among others, how to develop protective environments for children in tourism destinations; to observe and perform risk mitigation activities; etc. The students will also learn to appreciate the key global</p>



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	organizations and the roles they play in influencing and monitoring tourism trends ( SG 11 Sustainable Cities and Communities)
Risk Management as Applied to Safety, Security and Sanitations	The student will develop knowledge, skills and values on the basic principles of personal hygiene, food safety and sanitation as applied in tourism and hospitality industry. Topics include the following: compliance with workplace hygiene procedures. Establishment and maintenance of a safe and secure workplace, Implementation of Occupational Health and Safety procedures and performing Basic First Aid procedures. (SG 12 Responsible Consumption and Production )
Quality Services Management in Tourism & Hospitality	This course aims to enable the students to recognize and assess quality management processes in a hospitality and tourism related organization and to evaluate departmental processes and planning strategies.  Topics include concepts and terminologies of TQM: definition, common element and terminology, vision and reality-bridging the gap; constructive and critical personal reflection: proposed quality, self- assessment and peers assessment; seeking practical feedback for supervisors and continuing improvement, developing a personal management philosophy and personal development plan. (SG 8 Decent Work and Economic Growth,SG13 Climate Action)
Philippine Culture and Tourism Geography	This course presents comprehensive coverage of the major tourist destinations in the Philippines. Major discussions will be on political structures and subdivisions, geographical characteristics, major attractions, gastronomy, culture, and traditions of the various regions of the country leading to the realization of the potentials of the Tourism industry of the Philippines. Students will also have a comprehensive knowledge about the mechanism, logistics, operations, and management of the tourism network system in the Philippines with its inherent physical and cultural resources as seen in the various provinces of the country. (SG 9 Industry Innovation and Infrastructure)
Applied Business Tools & Technology (Property Management System) with Laboratory	This course describes the skills, knowledge and performance outcomes required to understand and operate relevant IT systems that are used in the hotel & restaurant industry. Topics covered include folio systems for the front office; POS systems for F&B operations as well as other computer and online systems for various departments such as reservations, finance, housekeeping,



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	marketing and the public relations unit. (SG 9 Industry Innovation and Infrastructure)
Micro Perspective of Tourism and Hospitality	This course will cover the workings, operations and the integrative activities of major stake holders in the Tourism and Hospitality Industry. The student will also gain knowledge on managing and marketing a service-oriented business organization. Apart from the scope and structure of travel organizations, it provides an in-dept study of nature and distinctive characteristics of each sector of the entire tourism industry, focusing on the management, organization and planning of specific business strategies for the various entities in local setting. This will also involve the analysis of the possible impacts of external factors and trends on the different tourism industry sectors and specific types of business. It will also look into client profiling such as travel motivations and influences as it relates to aligning strategic and tactical solutions to the business. The course also identifies the employment opportunities available in each sector and the corresponding qualifications for the jobs. ( SG 11 Sustainable Cities and Communities)
Tourism and Hospitality Marketing	This course deals with the principles and practices in marketing goods and services. It also focuses on the development of integrated marketing programs that will help grow businesses. ( SG 17 Partnership for the Goals)
Kitchen Essentials and Basic Food Production with Laboratory	The student will learn theoretical knowledge and demonstrate practical skills in basic culinary tasks, basic food preparation and food presentation in a commercial establishment. Topics will include the following: Application of basic techniques of commercial cookery; Application of standard safety procedures for handling foodstuffs; Clean and maintain kitchen equipment and utensils; Organize and prepare food products and meals; Prepare and store food in a safe and hygienic manner; Receive and securely store incoming goods; Establish and maintain quality control in food production; Identify, prepare and portion various meats; Prepare and store food in a safe and hygienic manner; Prepare appetizers and salads; Prepare soups, stocks and sauces; Prepare vegetables, eggs and farinaceous dishes; Present and display food products. ( SG 2 Zero Hunger, SG 3 Good Health and Well Being)
Fundamentals in Food Service Operations with Laboratory	The student will learn the necessary knowledge develop the various skills and cultivate the proper attitudes needed for the delivery of quality service of food and beverage operations in hotels and restaurants. Topics include the following: Clean and tidy bar and food service areas. Develop and maintain food and beverage product knowledge; Manage the responsible service of alcohol; Prepare and serve cocktails; Prepare and serve non -alcoholic beverages; Provide a link between kitchen and service area; Provide service to patrons on food and beverage services; Provide food and beverage



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	<p>services; Provide room service; Provide silver service; Take food orders and provide courteous table service; Manage intoxicated persons( SG 17 Partnership for the Goals)</p>
<p>Multicultural Diversity in Workplace for the Tourism Professional</p>	<p>This course describes the skills, knowledge and performance outcomes required to manage multicultural diversity in workplace that covers organizations diversity policy, encouraging diversity within work teams and upholding the benefits of a diverse workplace. It should also develop the ability to communicate with people from a range of social and cultural groups with respect and sensitivity, and to address cross-cultural misunderstanding if it arises. The end goal is for the student to be equipped with social awareness and diverse understanding when serving customers and working with colleagues. (SG 4 Quality Education, SG 5 Gender Equality,SG 10 Reduced Inequalities)</p>
<p>Fundamentals in Lodging Operations</p>	<p>This course describes the skills, knowledge and performance outcomes required to explore and analyze the management and practices of lodging operations and related</p> <p>sales activities in the major operating and support departments. It will also expose the students on the unique aspect of managing a service – based lodging establishment</p> <p>delivered by diverse employees and understanding of the business and financial operations of the lodging firm. The course introduces the housekeeping department of hotel</p> <p>and lodging organization: its organizational structure; roles and responsibilities; functions of the department; equipment and tools for housekeeping operations; methods and</p> <p>procedures of cleaning operations including linen, uniform and laundry service, general maintenance and decoration of a hotel; safety and sanitation in housekeeping</p> <p>operations; management of operations and record keeping; precautionary procedures; guest safety and hotel assets. Laboratory includes actual exposure in the housekeeping</p> <p>operations. (SG 8 Decent Work and Economic Growth)</p>
<p>Supply Chain Management in Hospitality Industry</p>	<p>This course describes the skills, knowledge and performance outcomes required to understanding the basic concepts on managing the complete movement of products or services in a supply chain from the suppliers to the customers. It also emphasizes on identifying the effects of current and future trends in supply chain management, and on assessing the processes and performances in a supply chain to optimize</p>



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	<p>processes into a seamless, innovative and most cost — effective way to help companies build a competitive edge. (SG 1 No Poverty, SG 3 Good Health and Well Being)</p>
Bread and Pastry with Laboratory	<p>This course is designed to enhance the knowledge, skills and attitude in baking and pastry production. It includes proper measuring of ingredients; proper use of tools and equipment; knowledge on principles of baking; proper selection of baking ingredients; proper preparation, portioning and plating cookies, pies, tarts and pastries, cakes, frosting and icings and yeast dough production in accordance with industry standards. Further, the emphasis is on the practice of job-related skills as well as the technical knowhow required in the food industry. (SG 2 Zero Hunger, SG 3 Good Health and Well Being)</p>
Introduction to Transport Service (merge all-cruise, airline, land)	<p>This course described the Tourism transportation systems by analyzing the management of land, sea and air transportation systems that support travel; examines airlines, cruise ships, buses, rail and travel packages. It emphasizes the various forms of transportation in the development and growth of tourism industry, its evolution and the technology that is now used which has definitely aided in the progress and reach of tourism activities all over the world. (SG 14 Life Below Water, SG 15 Life on Land)</p>
Operations Management in Tourism and Hospitality Industry	<p>This course aims to broaden students understanding of relevant and applicable theories and models of operations management, and equips students to apply the understanding to specific situations. Indeed, operational problems can be effectively unscrambled by focusing on appropriate performance objectives and strategies, designing marketable products, services and processes, managing capacity and improvements, as well as implementing sustainable practices(SG 14 Life Below Water, SG 15 Life on Land)</p>
Entrepreneurship in Tourism & Hospitality	<p>This course describes the skills, knowledge and performance outcomes required to plan and develop a feasible business plan by understanding the nature and scope of entrepreneurship, scanning the market of potential entrepreneurial venture opportunities, and identifying and evaluating the methods of venturing into business including but not limited to starting one’s own business, buying existing businesses and the process of franchising. It also emphasizes on assessing the possible characteristics and mindset</p>





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	<p>of entrepreneurs, analyzing typical entrepreneurial venture challenges, errors and rewards, identifying effective strategic management, developing product and service innovations and introducing the concepts of environmentally sustainable practices, social entrepreneurship and intellectual property management. (SG 1 No Poverty, SG 11 Sustainable Cities and Communities)</p>
<p>Introduction to MICE</p>	<p>This course examines the principles of conceptualizing, planning, managing and evaluating events, conferences and meetings, festivals and other such special activities. Topics include the significance of conventions and events in tourism. Lessons include discussions on event conceptualization, event design, project/event management, methods of monitoring and evaluation, physical requirements, organizing, promotions, sponsorships and handling the financial aspects of such promotions, sponsorships and handling the financial aspects of such tasks. The will give the students the skills and knowledge to develop business strategies to get MICE business and retain the clients, as well as to identify, understand and overcome the intricate challenges of collective supplier management and engagement. This is an integration course that applies all the principles of management and foundation tourism courses. (SG 12 Responsible Consumption and Productions, SG 17 Partnership of the Goals)</p>
<p>Foreign Language 1</p>	<p>This course aims to train students to develop basic conversational skills using a foreign language. (SG 4 Quality Education)</p>
<p>Bar and Beverage Management with Laboratory</p>	<p>This course deals to find information on a particular skill or technique in bartending-drink. It intends to prepare the students in the area of bar</p> <p>service operations. These show how the details of serving drink vary according to customer needs and workplace practices. It also focuses in the</p> <p>discussion of the organization, structure, roles and responsibilities of bar personnel. This course also helps students to prepare various recipes</p> <p>for classic mixed drinks, trendy shots and non-alcoholic alternatives plus everything you'll ever need to know stand proud behind the bar. (SG 1 No Poverty, SG 6 Clean Water and Sanitation )</p>
<p>Rooms Division and Cost Control</p>	<p>This course offers a comprehensive exploration of the core functions and management principles within the rooms division of the hospitality industry. With a focus on operational efficiency and financial sustainability, this course covers essential topics related to front office operations, housekeeping management, and cost control strategies. Through theoretical instruction and practical</p>



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	<p>laboratory exercises, students will develop the knowledge and skills required to effectively manage the diverse components of the rooms division while optimizing resources and maintaining superior guest experiences. (SG 4 Quality Education, SG 9 Industry Innovation and Infrastructure)</p>
Ergonomics	<p>This course will develop knowledge, skills, and attitudes in ensuring the work environment of the organization fits the industry professional. Topics include:</p> <ol style="list-style-type: none"> <li>1. Planning and designing workstations to create efficient and effective workplaces.</li> <li>2. Selecting workstation furnishings to provide flexibility and adaptability for workers.</li> <li>3. Designing lighting for proper illumination on work areas.</li> <li>4. Creating work areas where noise is controlled for normal operation to be done in the workstation (SG 8 Decent Work and Economic Growth )</li> </ol>
Research in Hospitality 1	<p>This course describes the skills, knowledge and performance outcomes required to develop a research orientation among students and to acquaint them with fundamentals of research methods like quantitative, qualitative or mixed methods research approaches that will lead in the production of a good timely and relevant research study. It also encompasses the critical understanding on identifying and assessing ethical issues related to research, the awareness and benefits of research in the field of interest and its help in their future career, in the society or community, and in the local and global environment. SG 11 Sustainable Cities &amp; Communities &amp; Communities, SG 16 Peace &amp; Justice))</p>
Recreation and Leisure Management	<p>This course allows students to explore and understand the importance of leisure and recreation in the society by providing knowledge on the general aspects of recreation including definitions, theories, history, diversity, and issues in the field. This will also provide knowledge on physical recreations, trends and how to market some leisure activities. SG 9 Industry Innovation &amp; Infrastructure, SG 12 Responsible Consumption and Production)</p>
Catering Management	<p>This course aimed to equip the students with the necessary skills, knowledge and attitude toward planning, starting and operating a</p>



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	successful catering business.(SG 1No Poverty, Sg 2 Zero Hunger, SG 6 Clean Water and Sanitation)
Foreign Language 2	This course aims to train students to develop intermediate conversational skills using a foreign language. Student should be able to understand technical jargon used in the hospitality industry. (SG 4 Quality Education)
Strategic Management and Total Quality Management	The course emphasizes the importance and process of strategic management in hospitality and tourism industry. Students are expected to apply and integrate their learnings in making strategic decision in hospitality and tourism organizations. The Strategic Management course is designed to analyze and explore an organization's mission, vision and objectives, examine principles, strategies, techniques and models of organization, discuss and apply the theory and practice of formulation of strategy and implementation for the development and betterment of effective strategic leadership in hospitality and tourism industry. It is mainly concerned with managerial decisions and actions that affect the overall performance of an organization. (SG 4 Quality Education)
Agri-Tourism	The aim of this course is to expose today's knowledge of agrotourism's ecological complexity, which gives principles for agritourism's behavior and activities, with the aim of long-term sustainable rural development. For decades, the developed countries of the world have been paying particular attention to the development of rural space, with agritourism being strongly promoted as an indispensable factor that has a positive effect in economic, environmental, demographic and sociological terms. (SG 1 No Poverty, SG SG 7 Affordable and Clean Energy, SG 8 Decent Work & Economic Growth)
Gastronomy (Food and Culture) with Laboratory	This course lets students to explore the exciting world of texture and flavor production as it provides the opportunity to improve their sensory skills, understand the cultural factors that affect individual taste and eating choices and apply what they have learnt in research and problem solving. It emphasizes the understanding of quality, of being able to recognize differences in products based on how the products are made and whom they are made for. (SG 1 No Poverty, SG SG 2 Zero Hunger, SG 8 Decent Work & Economic Growth)
Research in Hospitality 2	This course aims to educate the student in the essential research tools and skills that will be needed as to perform as managers in the tourism and hospitality industry. This course will introduce the research process: from design, data collection, hypothesis testing, to reporting; featuring econometrics and other quantitative applications in business research and research on a topic related to the tourism and/or hospitality industry. The student shall undertake a study on a topic of his/her own choice through which he/she



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	<p>can develop the necessary skills of planning, researching, reporting as well as the ability for writing a thesis. After successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"> <li>1.) Develop an understanding and appreciation of research and the needed for research, not only in tourism and hospitality but also applicable to numerous other fields.</li> <li>2.) Develop knowledge and skills in designing and carrying out research projects.</li> <li>3.) Experience valuable real life lessons. (SG 11 Sustainable Cities &amp; Communities, SG 16 Peace &amp; Justice)</li> </ol>
<p>Food and Beverage Cost Control</p>	<p>This course provides an in-depth understanding of the principles and practices of controlling costs in the food and beverage industry. Participants will learn essential techniques to manage expenses effectively while maintaining quality standards and maximizing profitability. The course covers a range of topics including inventory management, menu engineering, pricing strategies, budgeting, and variance analysis. (SG 4 Quality Education SG 12 Responsible Consumption &amp; production)</p>
<p>Internship in Hospitality and Food Service Industry (600 Hours)</p>	<p>The tourism and hospitality industry operates within a comprehensive domestic and international, legal and regulatory framework. The course examines this framework and covers the key principles of law applicable to hospitality, tourism and related industries. Various legislation on business organization and several international law issues such as consumer protection, product and service liability, employment and law access to the natural environment will be covered.</p> <p>Topics include: national and international regulation of the travel and hospitality industry, consumer contract law, the law of carriers and inns, the duties of travel operators and agents, travel insurance and law, the law of bailment, the responsibilities of travel agents and tour operators, hotel management law, liquor licensing law, catering law, gaming law, marketing law, consumer rights and complaints, the law regulating payments (including international credit card payments), the finance of carriers and inns, criminal and civil liability of people working in the travel and tourism industry.</p>
<p><b>Mechanical Engineering</b></p>	
<p>Basic Electronics</p>	<p>This course discusses the construction, operation, and characteristic of basic electronic devices, diode applications, operation of a dc regulated power supply. This course also discusses the operation and characteristics of operational amplifiers.</p>
<p>Combustion Engineering</p>	<p>The course deals with the principles involved in combustion, carburetion and fuel injection; fundamentals and basic principles of combustion process, compression and combustion charts,</p>



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	fuels, manifolds engine components, engine performance and combustion engine design
Computer fundamental and programming	Introductory course to computer software and basic information technology concepts. Covers the fundamentals of algorithm development in preparation for more advanced computer programming courses and applying the concepts in the course to engineering applications
Calculus 1	Introductory course covering the core concepts of limit, continuity and differentiability of functions involving one or more variables.
Dynamics of Rigid Bodies	Deals with the forces acting on bodies in motion.
Engineering data analysis	Introduces different methods of data collection and the sustainability of using a particular method for a given situation
Fluid machineries	Comprehensive study of the principles and theories in the proper operation, election and application of the most commonly used in fluid machineries such as pumps, fans, turbines, and blowers
Industrial plant engineering	Study of mechanical engineering theories, equipment and systems that are needed in the operation of an industrial/manufacturing plant
Introduction to robotics	Introduce students to the field of robotics and simulate their interest in science and engineering applications through the participation of the entire engineering design process
Machine shop theory and practice	Deals with the familiarization on the use of machine shop measuring tools and instruments. It covers technological advances in metal working and new innovation machine shop
Manufacturing processes and systems	The course includes the fundamental principles involving different types of manufacturing processes and systems
Material Science and engineering	To make any engineering device, structure or product, you need the right materials. Teaches what thigs are made of and how they behave.
Mechanical engineering laboratory	Provides an introduction to fundamental laboratory measurement techniques, use of devices and instruments, data acquisition and analysis, and technical report writing in the form of engineering reports and executive summaries
Methods of research	Covers the study of the methodologies used in conducting engineering research. It includes the types and application of research



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Plant visit	Includes visits and/or exposure to power plants and industrial/manufacturing plants. Provides lectures on current operations of industrial plants.
Power plant engineering	Deals mainly on energy and power generation with main concentration about the study of the different types of generating power systems/plants like hydroelectrical, geothermal, gas turbine, steam, etc.
Refrigeration systems	Covers the analysis and design of vapor compression refrigeration systems applied to refrigeration applications
Technopreneurship	Covers the value of professional and life skills in entrepreneurial thought, investment decision, and action that students can utilize in starting technology companies or executing R and D projects in companies as they start their career
Thermodynamics 2	Continuation of thermodynamics 1 and is aimed to further enhance the student's knowledge regarding the principles of thermodynamics by using these principles in practical application specifically in the field of power generation
Chemistry for Engineers Lec/lab	Basic concepts of matter and its classification; mass relationship in chemical reactions; properties of gases, liquids and solids; concepts of thermochemistry; Quantum theory and electric behavior; periodic relationship of elements in the public table; Intramolecular forces; and solutions
Mathematics for engineers	The course deals with the mathematical foundation of different engineering discipline. The course contain fundamental topics from different areas of mathematics which is important in various engineering applications. It provides emphasis on applied formulas and principles necessary in solving different engineering problems
Engineering Drawing	This course deals with the practices and techniques of graphical communication; application of drafting instruments, lettering scale and units of measure; descriptive geometry; orthographic projections; auxiliary views; dimensioning; sectional views; pictorial drawings; requirements of engineering working drawings; and assembly and exploded detailed drawings
ME orientation	The course introduces mechanical engineering as a discipline and its various applications. It also discusses ME as a profession with emphasis on the requirements for professional practice as well as career opportunities. The course also provides venues to develop engineering skills in order to succeed in engineering studies.





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Workshop Theory and practice	This course aims to impart knowledge on the basic principles of machine shop practices such as workshop safety and organization; measuring instruments, hand tools, fitting bench work, bench drill and bench grinder; sheet metal working; principles of welding processes; welding metallurgy; joining processes; testing and inspection of welds; foundry and metal casting. The knowledge and skills imparted in this course targets to develop basic practical skills on workshops such as carpentry, bench works, fittings, welding, sheet metal working, and machine works.
Computer applications for ME	This course is intended to provide students with knowledge of the technical processes and vocabulary associated with three-dimensional forms. It is intended to develop students' ability, discuss and reveal and cultivate students' power of imagination, creativity and ability to conceptualize three-dimensional works and relate to their field of interest.
Statics of rigid bodies	A basic engineering science course of solid mechanics dealing with bodies that are or remain at rest. It is design to provide fundamental concepts about forces, moments, ng couples and their system. The concept of resultants and equilibrium of forces and moments is utilized to enable solution of statically determinate problems
Thermodynamics 1	This course deals on the various phenomena of energy and the related properties of matter, especially of the laws of transformation of heat into other forms of energy and vice versa. A student achieving a passing grade in this course will be able to solve typical problems involving the application of the first and second laws of thermodynamics to pure substances. This will include understanding and using the property tables.
Machine elements	The course deals with the study of mechanisms disregarding the forces and energies that causes the motion. It provides emphasis analytical and graphical study of displacement, velocity and acceleration. This also includes the study of the elements of mechanisms such as gears, train, rolling bodies, belt and pulleys, cams and followers.
Engineering economics	The course is designed to equip students to acquired engineering economy and accounting concepts, principles and methods. The focus of this course is to provide understanding on engineering economic principles and methods which can be applied in making financial decisions that may arise in the engineering field such as during project proposal, project management, bidding, etc.
Fluid mechanics	The course deals with the nature and physical properties of fluids as well as the identification and measurement of fluid properties. It emphasizes the application of conservation laws on mass,



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	energy and momentum to fluid systems either incompressible or compressible flow, inviscid or viscous flow as well as head loss calculation on pipes and fittings.
Heat transfer	The course deals with the different modes of heat and mass transfer; laws governing conduction, convection and radiation and its application to the design of common heat exchangers such as condensers, cooling coils and evaporators; and the environmental impact of their operation.
Mechanics of deformable bodies	The course deals with the study of the fundamental concepts of stresses and strains such as axial stress, shearing stress, bearing stress, torsion, flexural stress and stress-strain relationship
Vibration engineering	This course is intended to introduce the students to the fundamental concepts of vibrations as it affects operation and performance of machine components. It involves modelling of mechanical systems, derivations of the differential equations for such systems and its varying solutions (responses) based on different excitations. Emphasis will be on analysis, design, measurement, damping and computational aspects. The computer as a computational tool will also be utilized.
Airconditioning and ventilation system	This course deals with the study of psychrometry, basic processes, cooling load calculations, air distribution, duct sizing, equipment analysis and selection and ventilation
Mechatronics	Mechatronics is the combination of computer science, electronics, and mechanics (engineering) and is applied to most industries through automation enhancements. This course will allow the student to experience realistic applications of automation control. Topics will include: basic electricity and controller devices, sensors, and actuators, controlling motion and motors, using and troubleshooting pneumatics, application of measurement techniques, remote control applications, and mechanical systems.
Machine design 2	This course deals on the analysis, selection and design of the different mechanical elements such as gears, bearings, flywheels, belt and chain drives, brakes and clutches and also includes the design of the welded joints.
Manufacturing and industrial processes	The course includes the fundamental principles involving different types of manufacturing processes and systems.
Mechanical engineering lab 2	This course deals with the fundamentals of the die design; stamping, die block design, blanking punches, piercing punches, punch plates pilots, gage, stop and preparation of bill of materials



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Power plant design with renewable energy	This course deals mainly on Energy and Power Generation with main concentration about the study of the different types of generating power systems/plants like hydro-electric, geothermal, gas turbine, steam, etc. It also includes topics about the other sources of energy, i.e., the non-conventional sources of energy such as solar, wave, tidal, fuel cell, etc.
Project study 1	This is the first phase of project study where senior M.E. students will prepare and defend their proposal.

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 Lingayen Campus  
 BACHELOR of Science in Nutrition and Dietetics

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**COURSE SYLLABUS**  
 1<sup>st</sup> Semester, A.Y. 2022-2023

COURSE INFORMATION	
<b>COURSE CODE</b>	NUTRITION 128
<b>COURSE TITLE</b>	PUBLIC HEALTH NUTRITION
<b>COURSE TYPE</b>	<input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Laboratory <input type="checkbox"/> Lecture & Laboratory
<b>COURSE CREDIT</b>	3 unit Lecture
<b>CLASS HOURS</b>	3 hours/ week
<b>COURSE PREREQUISITE/ CO-REQUISITE</b>	Nutritional Assessment
<b>COURSE SCHEDULE</b>	Tuesday (8:00AM-9:00AM) Thursday (8:00-10:00AM)

UNIVERSITY VISION, MISSION, QUALITY POLICY, INSTITUTIONAL OUTCOMES AND PROGRAM OUTCOMES	
<b>UNIVERSITY VISION</b>	To become an ASEAN Premier State University by 2025
<b>UNIVERSITY MISSION</b>	The Pangasinan State University, through instruction, research, extension and production, commits to develop highly principled, morally upright, innovative and globally competent individuals capable of meeting the needs of industry, public service and civil society.
<b>QUALITY POLICY</b>	The Pangasinan State University shall be recognized as an ASEAN premier state university that provides quality education and satisfactory service delivery through instruction, research, extension and production. We commit our expertise and resources to produce professionals who meet the expectations of the industry and other interested parties in the national and international community. We shall continuously improve our operations in response to changing environment and in support of the institution's strategic direction.
<b>INSTITUTIONAL OUTCOMES</b>	The Pangasinan State University Institutional Learning Outcomes (PSU ILO) are the qualities that PSUians must possess. These outcomes are anchored on the following core values: Accountability and Transparency, Credibility and Integrity, Competence and Commitment to Achieve, Excellence in Service Delivery, Social and Environmental Responsiveness, and Spirituality – (ACCESS).  Anchored on these core values, the PSU graduates are able to: 1. Demonstrate through institutional mechanisms, systems, policies, and processes which are reflective of transparency, equity, participatory decision making, and accountability;

COURSE SYLLABUS IN NUTRITION 128: PUBLIC HEALTH NUTRITION
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I. (Introduced) P. (Practiced) D. (Demonstrate)

**COURSE LEARNING PLAN**

Course Outcome/s	Learning Outcomes	Topics	Hours	Learning Activities (Asynchronous and In-person)	Learning Materials and Platform	Assessment
		<b>ORIENTATION</b> Vision, Mission, Goals and Objectives of the University Quality Policy	1		In-person • PPT Presentation	
	Discuss the important concepts in the assessment of nutritional status of an individual, group and community.  Familiarize the terminologies used in Public Health Nutrition (PHN)  Rationalize the general concepts in PHN both in oral and in writing using English and Filipino as a medium of language.  Recognize and comprehend the functions and characteristics of a nutritionist-dietitian for him/her to be effective.	<b>INTRODUCTION</b> 1. Review of Nutritional Assessment 2. Public Health Nutrition: Definition of Terms and General Concept 3. Functions and Characteristics of an Effective Public Health Nutritionist • Professional Ethics • Virtues of the Health Care Provider a. Virtues necessary for a Health Care Provider b. Values and Integrity in Health Care • Supervision and Leadership	9	Asynchronous • Read and Review Online Class Material  In-person • Class Activity 1: Leadership Behavior Exercise	Asynchronous • MS Teams • Study Guide  In-person • Worksheet	Asynchronous • Home-based Activity 1: Matching Value  In-person • Activity Output





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REVISION HISTORY			
REVISION NUMBER	DATE OF REVISION	DATE OF IMPLEMENTATION	HIGHLIGHTS OF REVISION
2022-01	SEPTEMBER 9, 2022	SEPTMEBER 19, 2022	
PREPARATION AND REVIEW		NAME	SIGNATURE
Prepared by the: Focal Person (Common Program) Faculty (Stand-alone Program)		JOBELLE R. NAVARRO	
Reviewed by the Committee for Common Programs		GERALDINE M. NIÑEZA	
		HELEN G. VIRAY	
		POL JOHANNA C. CELESTINO	
Endorsed by the Council of Deans and Department Chairs on : <u>September 13, 2022</u>			
FACULTY CONTACT INFORMATION			
NAME	JOBELLE R. NAVARRO		
DESIGNATION	INSTRUCTOR I		
E-MAIL ADDRESS	Jnavarro.lingayen@psu.edu.ph		
CONSULTATION SCHEDULE	Monday to Friday (11:00AM to 12:00PM)		
OFFICE LOCATION			
Prepared by:	Checked by:	Recommended by:	Approved:
 JOBELLE R. NAVARRO, RND, MPH Faculty	 GERALDINE M. NIÑEZA, RND, MPH Department Chairperson	 JUFRE JAN LOUIS M. NARVAS, MED College Dean	 RANDY JOY M. VENTAYEN, DIT, DBA Campus Executive Director
Certified for Campus/University Utilization for A.Y. <u>2022-203</u>			

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DR. RAZEALE F. RESULTAY  
 Director for Curriculum and Instruction

DR. MANOLITO C. MANUEL  
 Vice President for Academic and Student Affairs