CSD

UM
The University of Mindanao

Course Catalog

BS computer science
information systems
information technology

Contents

Brief Historical Development

The University of Mindanao then the Mindanao Colleges (MC) was opened in Davao City to the public in July 1946. It was the first tertiary education in Southern Mindanao primarily to provide learning opportunities to the indigenous natives and pioneers of Mindanao in the hope that their children shall attain college education which was then a luxury only a few elite could afford.

It was a dream come true for CPA-Lawyer Guillermo E. Torres and his friends, Engr. Brigido Valencia, Atty. Pedro Quitain, Atty. DominadorZuno, Mr. Pedro Lat, Atty. Jesus Occena, Dr. Manuel Babao, Mr.Nicasio Torres and Dr. Concepcion de Asis.

During its first year of operation, there were only thirteen (13) teachers. There were also only 381 students. For classrooms, UM then rented four (4) rooms in Borgaily Building along San Pedro St.

The courses which originally operated with permits were 6 years complete Elementary program, 2 years secondary program, first and second years, 2 years Elementary Teachers Certificate, 2 years Associate in Commercial Sciences and 2 years Associate in Arts. The first commencement exercise was held on April 23, 1948 with (30) and fifty (50) graduating students from college and high school respectively.

MC expanded. From 1949 to 1962, there were branches established to give more educational opportunities to

many financially deprived students in the neighbouring provinces of Davao City – MC Digos and MC Sta. Ana in 1949; MC Penaplata and MC Tagum in 1950; MC Guinga Junior College, MC Tibungco and MC Panabo in 1951; MC Cotabato in 1959 and MC Bansalan in 1962.

Enrolment increased right at the main campus in the heart of Davao City which necessitated more classrooms and a bigger campus. The main campus at Bolton Street remains to be a fitting symbol of the courage and tenacity of purpose of Atty. Guillermo E. Torres Sr., the founder and first President of Mindanao Colleges. On December21, 1966, MC was chartered as the University of Mindanao, the first private, non-sectarian university of Mindanao. The University Charter was signed by the Honorable Pedro Pascasio, then Acting Secretary of Education.

The University status brought on new and greater possibilities and a new image. There was no turning back. While much has been said and written about the metamorphosis of the then Mindanao Colleges to the University of Mindanao it is today, still much has to be done if to continue the educational heritage envisioned by the late Guillermo E. Torres Sr.

UM in Davao City has three campuses – the main campus along Bolton and Bonifacio Streets, the Matina-Maa Campus and Technical School campus in Sta. Avenue. Plans are in offing for turning the bigger Matina-Maa campus into a learning

center worthy of its vision- a separate building for each of the colleges, in the concept of a premier state university. There is the DPT Building which houses the College of Arts and Sciences, College of Nursing and the College of Architecture and Fine Arts. Recently completed is the PET building where the College of Accountancy Education and the Engineering Programs are located.

UM continues to improve its facilities. It is committed to construct and develop state of the art facilities and these include the air-conditioned libraries, the audio visual rooms, the speech laboratories, the mini-hotel, the engineering and science laboratories, the different learning resource centers, the computer laboratory centers, and more. More programs are opened so young men and women who opt to study in UM will have a wide variety of choices. UM is now ISO certified after having earned IQUAME A(+) and Autonomous Status.

The delivery of quality education is also a commitment. UM Main's three programs – Liberal Arts, Commerce and Education have been given Level 3 Reaccredited status by PACUCOA, its Electrical Engineering program, is the only Level 4 Accredited program in the whole Philippines while the other Engineering programs are Level 2 Reaccredited. The graduate school has applied for Level 3 accreditation for its MAED and MBA programs. Computer Science and Information Technology programs now embark on Level 3 preparations. Other programs either

Level 2 accreditation or Center of Development.

The University is also committed to develop its human resource. It has laid a blueprint for the continuing education of its employees. The demand for the upgrading of the knowledge and skills of its faculty as well as its non-teaching staff has been met with the conduct of in-house and outside trainings, seminars and workshops designed to improve the delivery of quality instruction. Faculty members and administrative employees are also immersed in community extension activities.

There is no doubt that today, the University of Mindanao has more than fulfilled the ideals for which the University was founded and it will continue to do so in all the years to come with God's grace and through the unswerving loyalty and dedication to duty, perseverance and hard work of the men and women who have contributed to the growth and development of the University during its first fifty years and those who came and will come after them in the coming years.

Vision

A leading institution of higher learning recognized for its quality transformative education serving the nation and the world.

Mission

Provide a dynamic and supportive academic environment through the highest standard of instruction, research, and extension in a non-sectarian institution committed to democratizing access to education.

Goals

To achieve its mission, the University aims to:

- Offer academic programs that meet the changing national and international community needs;
- Produce graduates who are competent leaders and productive members of society; harness a pool of ethical, qualified and highly- trained human resources;
- Provide an academic environment conducive to optimum learning through adequate state-of-the-art facilities;
- Conduct researches and other scholarly activities that generate new knowledge and contribute to the improvement of the quality of life for all;
- Engage in community services that foster self-reliance and empowerment among the marginalized community;
- Lead in the promotion and preservation of the cultural heritage of Mindanao and of the country as a whole.

CASE
Objectives

- To enable students from various disciplines to keep a sense of global perspective in the appreciation of the arts and culture;
- To instil in students genuine love and patriotism for the country;
- To promote universal moral values and ethical principles among students;
- To provide courses that enable students to develop skills in critical thinking, lead an organization competently and manage themselves well;
- To provide knowledge in arts studies that is technology-based in order to produce graduates who are capable of promoting and cultivating variousarts of the industry and society;
- To produce graduates with communication skills worthy of appreciation in social, interpersonal, corporate and community relation;
- To generate competitive entrepreneurs for the arts and entertainment industry at national and international levels; and
- To provide consultative expertise in the fields of creative applied technology.

BSCS Program Educational Objectives

Five years after graduation, the University of Mindanao Computer Science alumni will:

1. Be a proficient Database Designer, Application Developer or Systems Developer that will create solutions for businesses;
2. Be an Innovator that discerns new technology and expands it through the conduct of research;
3. Be an Information Security Engineer employed in local or national organizations for providing secure IT infrastructure;
4. Be a Systems Analyst or Quality Assurance Engineer that ensures the production of high quality information systems for business and industry with respect to the key principles and practices of computing;
5. Be an IT professional with ethical standards in pursuit of technology's impact on the global society.; and
6. Be able to pursue higher studies in IT Education.

BSCS Student Outcomes

The students of Computer Science should have:

1. The ability to analyze, design and provide IT-based solutions into the organizational environment;
2. The ability to discover new knowledge for present and future information technology innovations;
3. The ability to identify application and system security requirements throughout the project life cycle to control system risk to possible unpredicted system threats;
4. The ability to apply and implement algorithms, theory of computation, scientific and mathematical principles and practices to software development to come up with a quality system;
5. The ability to depict the impact of IT solutions in a global, societal, and ethical context and actively promote IT professional Ethical standards; and
6. The ability to communicate effectively, work with teams, apply expertise to identify and evaluate organizational requirements and suggest computing solutions;

BSIS Program Educational Objectives

Five years after graduation, the University of Mindanao Information Systems alumni will:

1. Be a Business Process Analyst that will implement new business opportunities in association with information technology to improve current business processes.
2. Be a Technocrat able to keep abreast with the latest technology and its applications to the business industry.
3. Be a Quality Assurance Analyst or Data Quality Analyst that ensures implementation of IS which conforms to the hardware and software specifications, industry standards, and business acceptance criteria.
4. Be a Systems Implementation Officer or Technical Support Specialist responsible for designing, implementing and maintaining IS for business processes.
5. Be a Systems Auditor that creates accurate systems documentation and systems validation, processes evaluation and control management.
6. Be an IT professional with ethical standards in pursuit of technology's impact on the global society.
7. Be able to pursue higher studies in IT Education.

BSIS Student Outcomes

The students of Information Systems should have:

1. An ability to create and integrate IT solutions to the existing and new business models;
2. An ability to innovate IT products and services, develop marketing strategies, and effectively communicate to business organizations and industry;
3. An ability to analyze, evaluate and assess requirement specifications of IT solutions and business processes to the organizational environment according to industry standards;
4. An ability to apply practical skills, programming skills, managerial and administrative expertise;
5. An ability to properly monitor the implementation of organizational processes and operations to ensure that proper business protocol is observed.
6. An ability to depict the impact of IT solutions in global, societal, and ethical context and actively promote IT professional Ethical standards; and
7. An ability to communicate effectively, work with teams, apply expertise to identify and evaluate organizational requirements and suggest computing solutions.

BSIT Program Educational Objectives

Five years after graduation the University of Mindanao Information Technology alumni will:

1. Be proficient Applications Developers, Database Administrators, Web Masters or Web Developers employed in big industries in the Philippines and/or abroad;
2. Be an Information Security Administrator, Network Administrator, Network Engineer, Technical Support Specialist or Test Engineers employed in local or national business for providing security or support backbone;
3. Be an entrepreneur that provides IT goods and services to the IT industry;
4. Be consultants, analysts, and holders of IT related local and international certifications.
5. Be an advocate of IT professional Ethical standards in pursuit of technology's impact on the global society; and
6. Be able to pursue higher studies in IT Education.

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BSIT Student Outcomes

The students of Information Technology should have:

1. The ability to analyze, design and administer IT-based solutions into the organizational environment;
2. The ability to apply lifelong learning with focus on the methods engaging in IT.
3. The ability to apply creative and productive entrepreneurial skills to grow start-up IT businesses;
4. The ability to apply effectively programming skills, project management skills, and interpersonal skills;
5. The expertise in identifying, evaluating organizational requirements, and suggesting computing solutions;
6. The ability to depict the impact of IT solutions in global, societal, and ethical context and actively promote IT professional Ethical standards.

Bachelor of Science in Computer Science (BSCS) – the study of concepts and theories, algorithmic foundations, implementation and application of information and computing solutions.

Specific professions/careers/occupations or trades
1. Application Developer
2. Computer Science Instructor
3. Database Programmer/ Designer
4. Information Security Engineer
5. Quality Assurance Engineer
6. Researcher
7. Systems Developer
8. Systems Analyst

Bachelor of Science in Information Systems (BSIS) – The study of design and implementation of solutions that integrate information technology with business successes.

Specific professions/careers/occupations or trades
1. Business Process Analyst
2. Data Quality Specialist
3. Entrepreneur in IT industry
4. IS Instructor
5. Systems Auditor
6. Quality Assurance Analyst
7. Systems Implementation Officer
8. Technical Support Specialist

Bachelor of Science in Information technology (BSIT) – the study of utilization of computers and computer software to plan, install, customize, operate, manage, administer and maintain information technology infrastructure.

Specific professions/careers/occupations or trades
1. Applications Developer

2. Computer Science Instructor
3. Database Programmer/designer
4. Information Security Engineer
5. Quality Assurance Engineer
6. Researcher
7. Systems Developer
8. Systems Analyst

COURSE DESCRIPTION OF BS COMPUTER SCIENCE

FIRST YEAR - 1ST SEMESTER

Eng101 – Grammar

The course in Communication Arts aims to develop mastery of the production of grammatically correct sentences necessary for various communication functions and academic study of all subjects through the development of a working vocabulary and a thorough and maximum knowledge of the parts of speech such as noun, pronoun, verb, adjective, adverb, preposition, conjunction and interjection. Likewise, the course extensively aims to develop in students the four macro skills: listening, speaking, reading and writing.

Since Communication Arts is a skills subject, written and oral exercises are being utilized, to include sound production for clearer expression, literary readings for comprehension and vocabulary build-up and drills for listening.

Furthermore, the course also tailors on students' mastery of thinking and study skills, as well as writing activities that enhances their thorough knowledge of the entire course. The proper usage of the library and the study of the different paragraph development applying the various rhetorical devices such as narration, character sketch, description, cause and effect, comparison/contrast, process, analogy, definition, and the learning of non-prose materials.

Finally, the course aims for students in Nursing and other allied

disciplines for absolute understanding of different language terms and language focus to be applied on their own field of expertise to achieve high communication proficiency skills, thus English for specific purpose is highly sought for language teachers handling this course.

Fil1a – Sining ng Pakikipagtalastasan

Ang Filipino 1a ay isang metalinggwistik na pag-aaral sa gamit ng akademikong Filipino sa iba't ibang sitwasyon at larangan sa paraang interdisciplinary at interaktibo, inaasahang mauunawaan at malilinang sa mga mag-aaral ang mga kailangang kaalaman at kasanayan sa paggamit ng Filipino sa lalong mataas na edukasyon.

CS111L - Fundamentals of Computers and Information Concepts

This course provides introductory theories of computers and number system, data types and representations, digital logic systems, assembly and machine language, compilers and translators, and operating systems. It gives the students an overall concept of what Computer Science and Information Technology is all about.

IT111L - Office Applications

This subject introduces the students to the windows environment and features of MS Word, MS Excel and MS PowerPoint. MS Word provides extensive tools for creating all kinds of text based documents such as memos, letters and reports. MS Excel helps you work primarily with numbers, including performing calculations and entering numbers in cells and then use the cell identifier of address to create new information. It also includes the use of workbooks to organize information, build sophisticated formulas and functions and create presentation quality charts. MS PowerPoint comprises fundamental presentation tools for slide shows, overhead presentations, automated demonstrations and multimedia exposition. IT also helps you create and edit information that will appear in electronic slides.

Psy1 - General Psychology

This course provides a broad coverage of the conceptual and em-

pirical foundation of psychology in its main field. The discussion of the theories, concepts and empirical findings focuses on complex human behaviour – how and why we think, feel, and behave the way we do, how we act and interact with others, and why and how we become the unique individuals that we are.

NatSc1 - Biological Science

This course is designed especially for non-science students. The course involves a mastery of certain fundamental concepts of a science (Biological Science) that deal with life. For this reason, it covers basic concepts in cell structure, the chemistry of life (molecules of life), tissues, organs, systems and processes involving energy transformation. The main bulk is devoted to the various organs, systems of man with emphasis on human physiological process to enable students to gain a full understanding of their own body. It also covers heredity, evolution and ecology to complete the basic knowledge and understanding of the students in the living world.

Math501 - Mathematical Operations

This course provides the students with comprehensive basic mathematical operations as pre-requisite for higher mathematical concepts. Topics include numeration system, reading and writing numbers, decimals, fraction, percent, ration and proportion, introduction to geometry, conversion of units and algebraic expression, and its application to solve problems in the fields.

PE1 - Self-Testing Activities

This course deals with the study of the development of an indi-

vidual, which involves activities that will test their coordination, and endurance. Their activities provide opportunity for the students to measure their own potentialities and progress as well as to compare their accomplishment with those of their classmates. It aims to help students in attaining body fitness and enabling them to discover their weaknesses and strengthen them. This course provides opportunity for the students to participate in activities adapted in their interest and capabilities.

CWTS1 - Civic Welfare Training Service

FIRST YEAR - 2ND SEMESTER

Eng102 - Interactive Reading

English 102 aims to develop in freshmen essential reading skills that college life demands. The course familiarizes student with the various essential reading techniques and provides them with ample but carefully selected reading materials that bring about the development of their higher-order-thinking skill. Akin with the principle that before one becomes a good writer, one must first be a good reader, the course is enriched with a textbook that is designed to totally involve the students in the act of reading. The approach prompts students to participate in deciphering meaning and implication of the articles being read thereby making them interact with the author. The interaction is further enhanced as students converse with the author in response to questions through text annotations done on the margins. Students may write annotations to record their opinions of points raised by the writer, questions triggered by the reading, or vocabulary words that the reader does not know and must look up. The ultimate goal is to develop in students an inquiring mind and create an interest and ultimately a passion for reading, making them realized that reading is fun and is the answer to the most common problem of incoming first year students – poor reading comprehension.

Fil2a - Pagbasa at PagsulatTungosaPananaliksik

Ang kursong ito ay nakapokus sa pagbasa at pagsulat bilang kasangkapan sa pagkatuto. Ituturo sa kursong ito ang mga istratehiya sa pagbasa

ng iba't ibang genre ng mga tekstong nakasulat. Lilinangin din ang mga kasanayan sa pag-unawa lalo na ang kritikal na pag-unawa, gayun din ang kasanayan sa pagsulat ng iba't ibang sulating pang-akademiko.

IT112L - Internet Tech & Intro to Web
This course is designed to give the students an overview of Internet, how it works and its significance to businesses to advance the global economy. It also discusses terminologies commonly related to the Internet and introduces the students to basic webpage designing using Hypertext Mark-up Language (HTML).

CS120L - Logic Formulation & Intro to Programming
This course introduces the students to the fundamentals of logic formulation together with their implementation in the C Programming language. This course should serve as a foundation for students in the Computer Science Program.

Math112 – Algebra
This course provides the basic concepts and operations in Algebra. It deals with the system of real numbers, polynomials, fractions, exponents and radicals, functions and graphs, linear equations, inequalities and quadratic equations. This is highlighted with the applications of principles learned at the end of each topic.

Math132 - Plane and Spherical Trigonometry
A course in trigonometry covers introductory topics, functions of acute angles, solutions of the right triangles, trigonometric functions of any angle, logarithm, simple identities and equations, addition formulas, oblique triangles and graphs of trigonometric functions.

PE2 - Fundamentals of Rhythmic Activities
The course deals with the historical foundation of Physical Education from primitive society to present. Further, it also includes the scientific foundation of Physical Education such as physiological, psychological, and sociological aspects.

CWTS2 - Civic Welfare Training Service 2

CWTS 2 is the second course under the Civic Welfare Training Service program components of the National Service Training Program which deals with basic mobilization concepts. This is a practicum wherein community / agency are planned, implemented and evaluated by the students with the target beneficiaries.

SUMMER 1ST YEAR

IT131L - Multimedia Systems

This course discusses topics about graphics and animation. It gives a detailed discussion on the different techniques and principles that underlies graphics and also includes discussion on how to develop applications for computer animations. Moreover, this course also cite different sample output projects from different establishments/companies both national and local that indulges in developing and implementing applications for computer graphics.

Math141a - Analytic Geometry

This course aims to provide students a more in depth knowledge in Mathematics as well as to help individuals understand and appreciate applicability in the activities of man. The topic on graphing is ideal in highlighting the benefits of this blend Mathematics and problems taken from the real world. This course is concerned on geometric problems that are solving by algebraic approaches. It is divided into parts: Plane

Analytic Geometry and Introduction to Solid Analytic Geometry.

CS221L - Designs & Analysis of Algorithms
This course discusses topics about the design and analysis of algorithms, techniques in analyzing algorithms, algorithmic strategies, sorting and searching algorithms.

SECOND YEAR - 1ST SEMESTER

Math231 - Differential Calculus
This course covers the functions, the limit of functions, continuity and derivatives; applications of derivative to verbal problems on optimization, curve tracing, time rates, and circular motion. The course extends to determine forms and partial derivatives, and Newton's method.

Eng201 - Expository Writing
This is a course designed to develop in students the basic library research skill and writing ability. The subject affords them the experience of gathering, interpreting and documenting information, developing and organizing ideas and conclusions, and communicating them clearly. It also aims to guide the basic tools of research, namely the library and its resources, and the facility of language.

CS200L - Network Principles& Programming
This course provides an in-depth discussion of computer networks. It includes a detailed discussion of the different Network Models. Concepts that have a direct effect on the efficiency of a network (e.g collision and broadcast domains, topology) are also discussed. Moreover, concepts on different network technologies, distributed computation, networking and communication software, and security issues are also discussed.

CS212L - Data Structure and File Organization
This course introduces the students to the design and implementation of basic and advanced data structures. Topics include basic data structures, trees, graphs and hashing.

IT132 - Professional Ethics

This course introduces ethics and ethical theories: provides discussion on the ethical dilemmas and issues facing IT practitioners. An appreciation and discussion of the Code of Ethics of IT Professionals; Cybercrimes and appropriate Philippine Laws are also included.

Phy235L - College Physics 1

The course covers vectors, equilibrium of forces, toque, center of mass, motion along a straight line, motion on a plane, force and motion, friction, work, energy, power, simple machines, momentum and impulse, fluid static, fluids in motion, thermal expansion, heat phenomena, heat transfer and thermodynamics.

PE3 - Fundamentals of Games and Sports

No citizen has the right to be an amateur in the matter of physical training and man only plays in the full meaning of the word that he is perfectly human only when he plays", according to Schiller. The students will not only be learning the theories about individual and dual sports but they will also be given the chance to experience them. This will also provide a framework of ideas which are spontaneous and encourage physical development of the students. The course also answers the quest of the students as a science of measuring how he can attain satisfaction for himself.

SECOND YEAR - SECOND SEMESTER

Eng202 - Communicative English

This is an interactive language program designed to prepare students to use English to express abstract ideas and logical relationships. The program provides a broad foundation for specialized content studies, using language for business and social situations, building a strong vocabulary, logical inferences and expressing the conceptual content in a wide range of subjects and develops all four skills areas: listening, speaking, reading and writing.

Phy245L - College Physics 2

The course covers electricity and magnetism, electric charges and field, electric current and circuits, capacitance, electric energy and power, magnetic effects of electricity, magnetic properties and magnetic circuits, alternating current, electronics, solid-state electronics, relativity and quantum theory, atomic physics and nuclear physics.

Math241 - Integral Calculus

This course covers the fundamental integration formulas, Methods of Integration, Define Integrals and Application, Lenght of a Curve, Surfaces of Revolution, Momtents of Inertia and Interated Integrals.

CS222L - Database Systems

This subject covers the discussion on basic concepts and definitions of database systems. It also includes discussion on the processes involves in the development of database systems. In particular, the subject focuses on database analysis and design.

CS211 - Object Oriented Programming

This course will introduce general principles underlying the practice of object-oriented programming, exemplified by Java. It combines the traditional style of programming - programming without graphical user interface - and modern style programming with a graphical user interface (GUI).

PE4 - Recreational Activities

This subject is concerned with various recreational activities that would fill in extra time of the students that offer relaxation, fun, and group coordination in an educational situation outside the classroom. Recreational activities are often associated with games and sports that are of current trends. The activities selected in this course involve physical exertion and participation in accordance with the capability of the students to engage.

SECOND YEAR – SUMMER

IT311 - Basic Accounting for IT

This course is an introduction to the fields of managerial and financial accounting, focusing more on the latter. It is designed to equip information technology students with knowledge and skills on accounting processes, system concepts, principles and applications in both manual and computer-based environment.

CS313L - Digital Design

This course focuses on the review of numerical systems and its code, Boolean algebra; inputs and outputs, gates and gating networks; combinational circuit; standard form and canonical form; minimization and maximization; sequential circuit, state and machine equivalence; asynchronous sequential circuits, race conditions; algorithmic state machines and design of digital subsystems.

CS232L - Programming Languages

This course provides students the fundamental features and concepts to different programming languages. Topics include overview of programming languages, Introduction to language translation, type systems, data and execution control, declaration and modularity, and syntax and semantics.

THIRD YEAR - 1ST SEMESTER

CS321L - Computer Org & Assembly Language

This course provides an overview of the architecture and organization of a computer, how it is built. It includes a discussion of the CPU, memory, I/O organization and peripherals.

IT324L - Web Programming

This course introduces advanced programming skills for website design. Dynamic content development will be explored through state of the art programming language such as PHP for the creation of interactive web sites. Students will create web pages that utilize the most current advances in web development.

CS312L - Modelling and Simulation

This course introduces the students to modelling and simulation concepts. Topics discussed in the course includes, system analysis and classification, abstract and simulation models, continuous, discrete and combined models, heterogeneous models. It also covers pseudorandom number generation and testing, queuing systems, Monte Carlo method, and continuous simulation and simulation experiment control.

IS311L - Systems Analysis & Design

The course focuses on the systems design and implementation. Topics include analyzing and managing systems projects, requirements modelling, data and process modelling, object modelling, development strategies, user interface design, data design, system architecture, managing systems implementation and systems support and security.

Math35 - Discrete Mathematics

This course is designed in order for students to determine, comprehend and identify the different structures and properties of algorithms, sets and logic. It emphasizes the nature of the subject and shows techniques on rigorous proofs. The course starts with sets that are needed in topics including summation, discrete algorithms and probability, relation, counting and mathematical reasoning that are essential for advanced pro-

gramming techniques. It ends modelling computations.

CS326 - Graphics and Visualization

The objective of the course is to introduce theoretical methods for two-dimensional and three-dimensional graphics with applications to visualization techniques. The following topics will be discussed: Raster graphics, geometric transformations, viewing models, projections, parametric curves and surfaces, color theory, visible surface / line determination, illumination and shading.

IT213 - Probability and Statistics with Computer Applications

This is an introductory course in probability and statistics designed to introduce students to statistical applications that are relevant in a variety of disciplines. The course covers basic concepts, descriptive statistics, probability, random variables, probability distributions, parameter estimation, hypothesis testing, linear correlation, linear regression, contingency tables, analysis of variance and other non-parametric statistics. Applications are made to business, social sciences, and natural/physical sciences. It also introduces the use of a statistical software package to perform various statistical analyses.

Hist1 - Philippine History: Roots and Development with Politics and Governance

This subject is an introductory course on the historical, political and cultural background of the Filipino people designed for the students to gain basic knowledge that will develop in them Filipino culture and values. This course is a combination of the chronological and topical approaches focusing on geographical settings, civilizations. Foreign relations and influences, struggles of the Filipino people and the development of the Philippine politics and governance.

THIRD YEAR - 2ND SEMESTER

CS334L - AI and Expert Systems
This subject presents a view of the AI enterprise based on the idea of intelligent agents – systems that can decide what to do then do it, concentration on methods for deciding what to do when one needs to think ahead several steps, representation of knowledge and reasoning, methods of generating the knowledge required by decision-making components, describe ways in which intelligent agent perceived its environment.

CS322L - Software Engineering
This course provides the student with the introduction of software engineering, the principles of a system engineering process models and the fundamentals of project management. An understanding of the engineering discipline, where software engineers use method and theory to solve problems.

CS323 - Automata & Language Theory
This subject introduces the formal models of computing and their relation to formal languages. It also includes a discussion on the components of a compiler, the environment in which compilers do their job and some software tools that make it easier to build compilers.

CS324L - Principles of Operating Systems
This course provides an introduction to the concepts, theories and components that serve as the bases for the design of classical and modern operating systems. Topics include the essential managers such as memory, processor, file, device and networking managers. It discusses also the process and system management. In addition, Windows and UNIX operating system was included as an application of the basic theory of operating system.

NS2 - Physical Science
This course serves as a base for non-science students from which

to view nature more perceptively. It is divided into four parts, namely; Physics, Chemistry, Astronomy and Geology. The first part is a review of the basic mathematical operations and principles of Physics and Chemistry. The second part gives emphasis on the universe and the solar system. The third part is a study of the earth and its composition, weather and climate, and hydrology. The last part of this course discusses on the environmental issues relevant to the study of physical science.

CS325L - Mobile Computing

This course is an introduction to the fundamentals of mobile computing. The fast evolution of wireless communication technologies and the sudden increase of portable computing devices have made possible a mobile computing era in which users on the move, can seamlessly access network services and resources, from any-where, at any-time. This course focuses the Java architecture to acquire a deep understanding of various wireless programming concepts and APIs and develop extensive knowledge that students can use to develop sophisticated MIDP applications.

CS412L - Computer Design

This course is an introduction to the theory and practice of compilation. We will cover topics in lexical and syntax analysis, syntax-directed translation, type checking and intermediate code generation. In class projects, we will focus on the design and implementation of a simple compiler.

Chem112L - General Chemistry

This course covers introduction to atomic structure & chemical bonding, the periodic system, kinetic theory of gases, structure

& properties of liquid & solids, solution, chemical equilibrium and the chemistry of elements studied by familiar pointing out correlation of structure and properties. Basic concepts of environmental chemistry are introduced for a better understanding of our ecological problems.

Lit1 - Literatures of the Philippines

Literature 1 deals on the study of the various literary forms or genres of Philippine Literature written at different periods in the Philippine Literary history. The students are brought to a rewarding and worthwhile experience of reading and eventually learning from the different selected literary works of National Artist in Literature, Carlos Palanca Memorial Awards in Literature, Hall of Fame's Ramon Magsaysay awardees in Literature and anthologized women writers. In addition, it is also the thrust of this course to enable the students to read representative texts by local writers in region XI as well as representative texts and /or literary works from the rest of the genres to sustain and strengthen the spirit of national identity as Filipino citizen.

THIRD YEAR – SUMMER

CS331 - On-the-Job Training

Internship/OJT/Practicum is an immersion program wherein the students will have the chance and opportunity to be with the IT industry. The students will have the chance to apply the skills, knowledge and attitude learned in the school and at the same time the opportunity to experience the corporate environment.

FOURTH YEAR - 1ST SEMESTER

CS411 - Thesis 1

This subject teaches students to develop researches and projects in the field of Computer Science. It discusses global opportunities in Computer Science researches. It also discusses areas of research in Computer Science such as software development, business process outsourcing, theoretical computer science, algorithms and machine intelligence. In

this subject, the students are required to formulate research or project title and formulate research problems and methods.

CS414 - IT Project Management
This course focuses on the project management concepts, its roles and environments. Topics include project management concepts, organizational structure, organizational behaviours, planning, cost allocation and project evaluation.

SocSc3 - Society and Culture w/ Family Planning
A general social science course which covers Society, Culture and Family Planning, designed to facilitate the integral development of students for them to effect changes in the self as well as the environment thereby realizing the fullness of human life. /the course deals with the human groups as the control concepts and subject matter of sociology study in understanding the dynamics of society and culture. The knowledge of the basic concepts in Society, Culture and Family management from part of the integral Social Science Program to usher students in understanding the foundations of society, the nature and concepts of culture and the dynamics of Family life in the context of Philippine realities.

Lit2 - World Literature
The literature of the world focuses on the literature of all the continents of the world from the beginning of civilization to the present. This course is a continuation of the study of literary forms or genres, exemplified this time by selected literary texts.

Philo1a - Social Philo: Values Formation
Philosophy 1a is a course that deals with the philosophical understanding of man in realizing the ultimate meaning of his existence. It focuses in the application of the universal principles of morality. It includes the study of Human Existence, Human Acts, Rights and Duties and Human Values and Contemporary Moral Issues.

IS122L - Human Computer Interaction

The course intends to introduce students to the discipline concerned with the design, evaluation & implementation of various computing systems intended for human use. Emphasis will be placed on understanding human behaviour with interactive objects, knowing how to develop and evaluate interactive software using a human-centered approach, and general knowledge of HCI design issues with multiple types of interactive applications.

Hum1b - Intro to Humanities

An introductory course on the creative output of the human being designed to introduce and expose the students to the different arts in both theory and practice: visual, auditory, and performing arts. It also aims to develop the student's inner life, increase their awareness of and sensitivity to the state of arts and culture, more particularly, the Philippine arts.

FOURTH YEAR - SECOND SEMESTER

CS421L - Thesis 2

This subject is a continuation of Thesis I and hence, it focuses more on the implementation phase of the project and evaluation of its testing. Based on the instrument constructed in pre – requisite subject, the project will be validated by IT experts in the field and research coordinator of the college. It will then launch an alpha testing for selected groups of users and followed by a beta testing. Findings, conclusions, and recommendations after a series of tests and evaluation will be presented in the final defense.

PS3a - Philippine Government and the Constitution

The course presents the development, organization and operation of the Philippine political system with special emphasis on the analysis of its contemporary structure. Included in this course is the study on the Philippine constitution as prelude in understanding Philippine government politics.

SocSc6 - Life Works and Writings of Dr. Rizal

The course deals with the life, works and writings of the Philippines' National Hero – Dr. Jose P. Rizal who is an epitome of patriotism. This also tackles Dr. Rizal's ardent dedication and love for his people and country in pursuit of national freedom and democracy from the colonizers.

Philo2 - Logic

Logic is a systematic study of reasoning through the art of philosophical thinking. It also deals on how to develop reasoning through a logical process. It also focuses on how to distinguish a valid from invalid or fallacious reasoning.

Eco1 - Principles of Economics with Land Reform and Taxation

The course presents the basic concepts in economics. It presents four important parts namely: Introduction chapter, Microeconomics concepts, Macroeconomics concepts and Applied economics which covers the fields of environmental economics, international trade and the agrarian reform program.

Caed500c - Career and Personality Development

An enrichment course for graduating students which ensures self-directed career decision and goals. It consists of 4 components: career professional education under the GSTC, pre-employment seminar under BDO, personally development training under Fitness Center, and Advanced English Proficiency using DynEd.

COURSE DESCRIPTION OF
BS INFORMATION SYSTEMS

FIRST YEAR - 1ST SEMESTER

Eng101 – Grammar

The course in Communication Arts aims to develop mastery of

the production of grammatically correct sentences necessary for various communication functions and academic study of all subjects through the development of a working vocabulary and a thorough and maximum knowledge of the parts of speech such as noun, pronoun, verb, adjective, adverb, preposition, conjunction and interjection. Likewise, the course extensively aims to develop in students the four macro skills: listening, speaking, reading and writing.

Since Communication Arts is a skills subject, written and oral exercises are being utilized, to include sound production for clearer expression, literary readings for comprehension and vocabulary build-up and drills for listening.

Furthermore, the course also tailors on students' mastery of thinking and study skills, as well as writing activities that enhances their thorough knowledge of the entire course. The proper usage of the library and the study of the different paragraph development applying the various rhetorical devices such as narration, character sketch, description, cause and effect, comparison/contrast, process, analogy, definition, and the learning of non-prose materials.

Finally, the course aims for students in Nursing and other allied disciplines for absolute understanding of different language terms and language focus to be applied on their own field of expertise to achieve high communication proficiency skills, thus English for specific purpose is highly sought for language teachers handling this course.

Fil1a – Sining ng Pakikipagtalastasan

Ang Filipino 1a ay isang metalinggwistik na pag-aaral sa gamit ng akademikong Filipino sa iba't ibang sitwasyon at larangan sa paraang interdisciplinary at interaktibo, inaasahang mauunawaan at malilinang sa mga mag-aaral ang mga kailangang kaalaman at kasanayan sa paggamit ng Filipino sa lalong mataas na edukasyon.

Math501 - Mathematical Operations

This course provides the students with comprehensive basic math-

ematical operations as pre-requisite for higher mathematical concepts. Topics include numeration system, reading and writing numbers, decimals, fraction, percent, ration and proportion, introduction to geometry, conversion of units and algebraic expression, and its application to solve problems in the fields.

IS111L – Fundamentals of Computers with Office Application

This course provides an overview of computers number system data types and representations, digital logic systems, assembly and machine language, compilers and translators, operating systems, and internetworking. Also, this subject introduces the students to the windows environment and features of MS Word, MS Excel, and MS PowerPoint. MS Word provides extensive tools for creating all kinds of text based documents such as memos, letters and reports. MS Excel helps you work primarily with numbers, including performing calculations and entering numbers in cells and then use the cell identifier or address to create new information. It also includes the use of workbooks to organize information, build sophisticated formulas and functions and create presentation quality charts. MS PowerPoint comprises fundamental presentation tool for slide shows, overhead presentations, automated demonstrations and multimedia exposition. It also helps you create and edit information that will appear in electronic slides.

IT112L - Internet Tech and Intro to Web

This course is designed to give the students an overview of Internet, how it works and its significance to businesses to advance the global economy. It also discusses terminologies commonly related to the Internet and introduces the students to basic webpage designing using Hypertext Mark-up Language (HTML).

Psy1 - General Psychology

This course provides a broad coverage of the conceptual and empirical foundation of psychology in its main field. The discussion of the theories, concepts and empirical findings focuses on complex human behaviour – how and why we think, feel, and behave the way we

do, how we act and interact with others, and why and how we become the unique individuals that we are.

PE1 - Self Testing Activities

This course deals with the study of the development of an individual, which involves activities that will test their coordination, and endurance. Their activities provide opportunity for the students to measure their own potentialities and progress as well as to compare their accomplishment with those of their classmates. It aims to help students in attaining body fitness and enabling them to discover their weaknesses and strengthen them. This course provides opportunity for the students to participate in activities adapted in their interest and capabilities.

CWTS1 – Civic Welfare Training Service 1

FIRST YEAR - 2ND SEMESTER

Eng102 - Interactive Reading

English 102 aims to develop in freshmen essential reading skills that college life demands. The course familiarizes student with the various essential reading techniques and provides them with ample but carefully selected reading materials that bring about the development of their higher-order-thinking skill. Akin with the principle that before one becomes a good writer, one must first be a good reader, the course is enriched with a textbook that is designed to totally involve the students in the act of reading. The approach prompts students to participate in deciphering meaning and implication of the articles being read thereby making them interact with the author. The interaction is further enhanced as students converse with the author in response to questions through text annotations done on the margins. Students may write annotations to record their opinions of points raised by the writer, questions triggered by the reading, or vocabulary words that the reader does not know and must look up. The ultimate goal is to develop in students an inquiring mind and create an interest and ultimately a passion for reading, making them realized

that reading is fun and is the answer to the most common problem

of incoming first year students – poor reading comprehension.

Fil2b - Pagbasa at Pagsulat

Ang kursong ito ay nakapokus sa pagbasa at pagsulat bilang kasangka-pan sa pagkatuto. Ituturo sa kursong ito ang mga istratehiya sa pagbasa ng iba't ibang genre ng mga tekstong nakasulat. Lilinangin din ang mga kasanayan sa pag-unawa lalo na ang kritikal na pag-unawa, gayun din ang kasanayan sa pagsulat ng iba't ibang sulating pang-akademiko.

IS123L - Fundamentals of Programming

This course introduces the students to the fundamentals of logic formula-tion together with their implementation in the C Programming language. This course should serve as a foundation for students in the Computer Science Program.

Math112 - Algebra

This course provides the basic concepts and operations in Algebra. It deals with the system of real numbers, polynomials, fractions, exponents and radicals, functions and graphs, linear equations, inequalities and quadratic equations. This is highlighted with the applications of princi-ples learned at the end of each topic.

Math132 - Plane and Spherical Trigonometry

A course in trigonometry covers introductory topics, functions of acute angles, solutions of the right triangles, trigonometric functions of any an-gle, logarithm, simple identities and equations, addition formulas, oblique triangles and graphs of trigonometric functions.

IS121 - Fundamentals of Information System

This course introduces students to Information Management (IM) as a field of academic study. Students are exposed to the scope of IM, the dif-ferent career paths and the representative capabilities and skills required of any IM graduate.

Students are also introduced to concepts and theories that explain

or motivate methods and practices in the development and use of information systems in organizations. The concepts and theories will include systems, management, and organization, information, quality, and decision making, relationship of information systems to organizational strategy.

This course also provides an introduction to systems and development concepts, information technologies, and application software. It explains how information is used in organizations and how IT enables improvement in quality, timeliness, and competitive advantage.

Philo1a - Social Philo

Philosophy 1a is a course that deals with the philosophical understanding of man in realizing the ultimate meaning of his existence. It focuses in the application of the universal principles of morality. It includes the study of Human Existence, Human Acts, Rights and Duties and Human Values and Contemporary Moral Issues.

PE2 - Fundamentals of Rhythmic Activities

The course deals with the historical foundation of Physical Education from primitive society to present. Further, it also includes the scientific foundation of Physical Education such as physiological, psychological, and sociological aspects.

CWTS2 - Civic Welfare Training Service 2

CWTS 2 is the second course under the Civic Welfare Training Service program components of the National Service Training Program which deals with basic mobilization concepts. This is a

practicum wherein community / agency are planned, implemented and evaluated by the students with the target beneficiaries.

SUMMER 1ST YEAR

IT131 - Multimedia Systems 1
This course discusses topics about graphics and animation. It gives a detailed discussion on the different techniques and principles that underlies graphics and also includes discussion on how to develop applications for computer animations. Moreover, this course also cite different sample output projects from different establishments/companies both national and local that indulges in developing and implementing applications for computer graphics.

IT132 - Professional Ethics
This course introduces ethics and ethical theories: provides discussion on the ethical dilemmas and issues facing IT practitioners. An appreciation and discussion of the Code of Ethics of IT Professionals; Cybercrimes and appropriate Philippine Laws are also included.

IT311 - Basic Accounting for IT
This course is an introduction to the fields of managerial and financial accounting, focusing more on the latter. It is designed to equip information technology students with knowledge and skills on accounting processes, system concepts, principles and applications in both manual and computer-based environment.

SECOND YEAR - 1ST SEMESTER

Eng201 - Expository Writing
This is a course designed to develop in students the basic library research skill and writing ability. The subject affords them the experience of gathering, interpreting and documenting information, developing and organizing ideas and conclusions, and communicating them clearly. It also aims to guide the basic tools of research, namely the library

and its resources, and the facility of language.

IS212 – Fundamentals of Management and Business
The course intends to give an introduction to Management concepts, a foundation course to any of the IM courses that will be undertaken by a student. It also aims to develop the management skills of the students through the self-regulated activities that will be employed in the course.

IS213 - Organizational Behaviour
This course introduces the students to the emerging workplace realities. This course will focus on how emotions guide employee motivation, attitudes, and decisions; how values have become the new resource to shape workplace behavior; how companies rely on creativity and a learning orientation as their source of competitive advantage in the knowledge economy.

IS122L - Human Computer Interaction
The course intends to introduce students to the discipline concerned with the design, evaluation & implementation of various computing systems intended for human use. Emphasis will be placed on understanding human behavior with interactive objects, knowing how to develop and evaluate interactive software using a human-centered approach, and general knowledge of HCI design issues with multiple types of interactive applications.

Chem112L - General Chemistry
This course covers introduction to atomic structure & chemical bonding, the periodic system, kinetic theory of gases, structure & properties of liquid & solids, solution, chemical equilibrium and the chemistry of elements studied by familiar pointing out correlation of structure and properties. Basic concepts of environmental chemistry are introduced for a better understanding of our ecological problems.

38 Math35 - Discrete Mathematics

This course is designed in order for students to determine, comprehend and identify the different structures and properties of algorithms, sets and logic. It emphasizes the nature of the subject and shows techniques on rigorous proofs. The course starts with sets that are needed in topics including summation, discrete algorithms and probability, relation, counting and mathematical reasoning that are essential for advanced programming techniques. It ends modelling computations.

PE3 - Fundamentals of Games and Sports

No citizen has the right to be an amateur in the matter of physical training and man only plays in the full meaning of the word that he is perfectly human only when he plays", according to Schiller. The students will not only be learning the theories about individual and dual sports but they will also be given the chance to experience them. This will also provide a framework of ideas which are spontaneous and encourage physical development of the students. The course also answers the quest of the students as a science of measuring how he can attain satisfaction for himself.

SECOND YEAR - SECOND SEMESTER

Eng202 - Communicative English

This is an interactive language program designed to prepare students to use English to express abstract ideas and logical relationships. The program provides a broad foundation for specialized content studies, using language for business and social situations, building a strong vocabulary, logical inferences and expressing the conceptual content in a wide range of subjects and develops all four skills areas: listening, speaking, reading and writing.

CS222L - Database Systems

This subject covers the discussion on basic concepts and definitions of database systems. It also includes discussion on the processes involve in the development of database systems. In particular, the subject focuses on database analysis and design.

IT321 - Advanced Accounting for IT

This course focuses on the development of accounting system that applies the fields of managerial and financial accounting, focusing more on the latter. It is designed to equip information technology students with knowledge and skills on accounting processes, system concepts, principles and applications in both a manual and computer-based environment. At the end of the course, students are expected to develop an accounting system.

IS221 - Bus Enterprise and Admin Processes

The course is designed for information management students who need to have an overview of generic business processes. They will learn how to describe, analyze, and redesign a business process through the use of tools and methodologies.

IS222 - Marketing and Customer Relationship

The course enables the students to understand the CRM initiatives with the goal of meeting customer expectations and needs in order to achieve maximum customer lifetime value and return to the enterprise.

IT213 - Prob and Stat w Comp Applications

This is an introductory course in probability and statistics designed to introduce students to statistical applications that are relevant in a variety of disciplines. The course covers basic concepts, descriptive statistics, probability, random variables, probability distributions, parameter estimation, hypothesis testing, linear correlation, linear regression, contingency tables, analysis of variance and other non-parametric statistics. Applications are made to business, social sciences, and natural/physical sciences. It also introduces the use of a statistical software package to perform various statistical analyses.

Phy235L - College Physics1

The course covers vectors, equilibrium of forces, toque, center of mass, motion along a straight line, motion on a plane, force and motion, friction, work, energy, power, simple machines, momentum and

impulse, fluid static, fluids in motion, thermal expansion, heat phenomena, heat transfer and thermodynamics.

PE4 - Recreational Activities
This subject is concerned with various recreational activities that would fill in extra time of the students that offers relaxation, fun, and group coordination in an educational situation outside the classroom. Recreational activities are often associated with games and sports that are of current trends. The activities selected in this course involve physical exertion and participation in accordance with the capability of the students to engage.

SECOND YEAR – SUMMER

IT313L - Database Administration
This subject discusses topics associated with implementing relational systems, including Web-enabled Internet applications and data warehouses. It helps students to develop initial understanding of the complexities and challenges of implementing database systems; introduces some additional issues, important database design and management issues like database security, backup and recovery, controlling concurrent access to data, preserving data quality, advanced topics in database performance tuning, distributed databases and object-oriented databases.

IS232L - Deployment Maintenance and Perform
The course covers topics on deploying, maintaining and servicing the information systems. It will also tackle how to develop and implement deployment, maintenance, and services plan to the respective customers.

IS231L - Visual Programming 1
This course provides understanding of the visual programming concept and application. It covers the study of designing basic controls or objects, the use of controls with I/O functions, conditional statements, looping statements, designing and developing menus, basic controls and accessing databases.

THIRD YEAR - 1ST SEMESTER

Phy245L - College Physics 2
The course covers electricity and magnetism, electric charges and field, electric current and circuits, capacitance, electric energy and power, magnetic effects of electricity, magnetic properties and magnetic circuits, alternating current, electronics, solid-state electronics, relativity and quantum theory, atomic physics and nuclear physics.

IS311L - Systems Analysis and Design
The course focuses on the systems design and implementation. Topics include analyzing and managing systems projects, requirements modeling, data and process modeling, object modeling, development strategies, user interface design, data design, system architecture, managing systems implementation and systems support and security.

IS312L - Principles of Networks
This course provides an in-depth discussion of computer networks. It includes a detailed discussion of the different Network Models. Concepts that have a direct effect on the efficiency of a network (e.g collision and broadcast domains, topology) are also discussed. Concepts on different network technologies, distributed computation, networking and communication software, and security issues are also discussed.

IS313 - Evaluation of Bus Performance
The course is intended to provide the student with the experience in assessing information systems and the different tools to be used in conducting system evaluation. It will discuss topics such as Data warehousing, KPI/KRA, business intelligence, and quality metrics.

IS314L - Systems Infrastructure and Integration
This course will develop the skills of the students to elicit, document and validate requirements through a requirements engineering process. This will also aid students in the choice of a suitable systems

development methodology for a specific system.

NatSc1 - Biological Science

This course is designed especially for non-science students. The course involves a mastery of a certain fundamental concepts of a science (Biological Science) that deals with life. For this reason, it covers basic concepts in cell structure, the chemistry of life (molecules of life), tissues, organs, systems and processes involving energy transformation. The main bulk is devoted to the various organs, systems of man with emphasis on human physiological process that enable students to gain a full understanding of their own body. It also covers heredity, evolution and ecology to complete the basic knowledge and understanding of the students in the living world.

Hist1 - Philippine History: Roots and Development with Politics and Governance

This subject is an introductory course on the historical, political and cultural background of the Filipino people designed for the students to gain basic knowledge that will develop in them Filipino culture and values. This course is a combination of the chronological and topical approaches focusing on geographical settings, civilizations. Foreign relations and influences, struggles of the Filipino people and the development of the Philippine politics and governance

THIRD YEAR - 2ND SEMESTER

IS321L - Supply Chain Management

This course is able to develop the ability of a student to conceptualize, design, and implement supply chains aligned with product, market, and customer characteristics. Students develop the ability to evaluate how information flows can substitute for the stock of physical resources, such as inventory, and why such systems succeed or fail. They assess how internet technologies, dynamic markets, and globalization are impacting supply chain strategies and practices, including logistics, digital coordination of decisions and resources, inventory and risk management,

procurement and supply contracting, product and process design, and revenue management.

IS322L - Management of Technology
The course provides an in-depth study on the management of information technology as it is being practiced in organizations today. It will cover topics such as network, IT infrastructure, IT organization, data resources and systems, among others.

IT326L - Applied Operating System
This course provides an introduction to the concepts, theories and components that serve as the bases for the design of classical and modern operating systems. Topics include the essential managers such as memory, processor, file, device and networking managers. It discusses also the process and system management. In addition, Windows and UNIX operating system was included as an application of the basic theory of operating system.

IS323L - Internet Services and E-Commerce
This course provides a good understanding of the evolving Internet technologies and e-Commerce models, and explores the business implications of these fascinating developments. This will lead students to identify and study the principles and concepts needed for designing and analyzing the high-performance, scalable, and secure e-commerce systems

IS324L - IS Project Management and Quality
This course focuses on the project management concepts, its roles and environments. Topics include project management concepts, organizational structure, organizational behaviors, planning, cost allocation and project evaluation.

IT322 – Technopreneurship
This course covers the principles and theories of Technopreneurship. This course prepares the students to be budding technopreneurs through a journey of gradual process of self mastery, environment

mastery, enterprise mastery and the development of business plan. At the end of the course, the students are expected to develop and implement a feasible IT business plan. They are encouraged to compete in local and national business plan competitions. Furthermore, it is hoped that they pursue their business plans as start-ups and eventually transform them into stable IT enterprises.

SocSc3 - Society and Culture w/ Family Planning

A general social science course which covers Society, Culture and Family Planning, designed to facilitate the integral development of students for them to effect changes in the self as well as the environment thereby realizing the fullness of human life. The course deals with the human groups as the control concepts and subject matter of sociology study in understanding the dynamics of society and culture. The knowledge of the basic concepts in Society, Culture and Family management form part of the integral Social Science Program to usher students in understanding the foundations of society, the nature and concepts of culture and the dynamics of Family life in the context of Philippine realities.

IT412L - Network Admin and Management

The course focuses on the basic network administration tips, how to secure your computer network, basic troubleshooting guide, management tools, security measures and basic network troubleshooting tips.

THIRD YEAR – SUMMER

IS331 - On the Job Training

Internship/OJT/Practicum is an immersion program wherein the students will have the chance and opportunity to be with the IT industry. The students will have the chance to apply the skills, knowledge and attitude learned in the school and at the same time the opportunity to experience the corporate environment.

FOURTH YEAR - 1ST SEMESTER

Eco1 - Principles of Eco with LRT

The course presents the basic concepts in economics. It presents four important parts namely: Introduction chapter, Microeconomics concepts, Macroeconomics concepts and Applied economics which covers the fields of environmental economics, international trade and the agrarian reform program.

Nat Sc2 - Physical Science

This course serves as a base for non-science students from which to view nature more perceptively. It is divided into four parts, namely; Physics, Chemistry, Astronomy and geology. The first part is a review of the basic mathematical operations and principles of Physics and Chemistry. The second part gives emphasis on the universe and the solar system. The third part is a study-of-the earth and its composition, weather and climate, and hydrology. The last part of this course discusses on the environmental issues relevant to the study of physical science.

PS3a - Philippine Government and the Constitution

The course presents the development, organization and operation of the Philippine political system with special emphasis on the analysis of its contemporary structure. Included in this course is the study on the Philippine constitution as prelude in understanding Philippine government politics.

Lit1 - Literatures of the Philippines

Literature 1 deals on the study of the various literary forms or genres of Philippine Literature written at different periods in the

Philippine Literary history. The students are brought to a rewarding and worthwhile experience of reading and eventually learning from the different selected literary works of National Artist in Literature, Carlos Palanca Memorial Awards in Literature, Hall of Fame's Ramon Magsaysay awardees in Literature and anthologized women writers. In addition, it is also the thrust of this course to enable the students to read representative texts by local writers in region XI as well as representative texts and /or literary works from the rest of the genres to sustain and strengthen the spirit of national identity as Filipino citizen.

IS411 - Capstone Project 1
This subject teaches students to develop researches and projects in the field of Computer Science. It discusses global opportunities in Computer Science researches. It also discusses areas of research in Computer Science such as software development, business process outsourcing, theoretical computer science, algorithms and machine intelligence. In this subject, the students are required to formulate research or project title and formulate research problems and methods.

SocSc6 - Life Works and Writings of Dr. Rizal
The course deals with the life, works and writings of the Philippines' National Hero – Dr. Jose P. Rizal who is an epitome of patriotism. This also tackles Dr. Rizal's ardent dedication and love for his people and country in pursuit of national freedom and democracy from the colonizers.

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IT421 - Capstone Project 2

This subject is a continuation of Thesis I and hence, it focuses more on the implementation phase of the project and evaluation of its testing. Based on the instrument constructed in pre – requisite subject, the project will be validated by IT experts in the field and research coordinator of the college. It will then launch an alpha testing for selected groups of users and then followed by a beta testing. Findings, conclusions, and recommendations after a series of tests and evaluation will be presented in the final defense.

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COURSE DESCRIPTION OF
BS INFORMATION TECHNOLOGY

FIRST YEAR - 1ST SEMESTER

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wise, the course extensively aims to develop in students the four macro skills: listening, speaking, reading and writing.

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Philo1a - Social Philo: Values Formation

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CS111L - Fund of Comp & Info Concepts

This course provides introductory theories of computers and number system, data types and representations, digital logic systems, assembly and machine language, compilers and translators, and operating systems. It gives the students an overall concept of what Computer Science and Information Technology is all about.

IT111L - Office Applications

This subject introduces the students to the windows environment and features of MS Word, MS Excel and MS PowerPoint. MS Word provides extensive tools for creating all kinds of text based documents such as memos, letters and reports. MS Excel helps you work primarily with numbers, including performing calculations and entering numbers in cells and then use the cell identifier of address to create new information. It also includes the use of workbooks to organize information, build sophisticated formulas and functions and create presentation quality charts. MS

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FIRST YEAR - 2ND SEMESTER

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and create an interest and ultimately a passion for reading, making them realized that reading is fun and is the answer to the most common problem of incoming first year students – poor reading comprehension.

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IT112L - Internet Tech & Intro to Web

This course is designed to give the students an overview of Internet, how it works and its significance to businesses to advance the global economy. It also discusses terminologies commonly related to the Internet and introduces the students to basic webpage designing using Hypertext Mark-up Language (HTML).

CS120L - Logic Formulation & Intro to Programming

This course introduces the students to the fundamentals of logic formulation together with their implementation in the C Programming language. This course should serve as a foundation for students in

the Computer Science Program.

PE2 - Fundamentals of Rhythmic Activities

Course Description: The course deals with the historical foundation of Physical Education from primitive society to present. Further, it also includes the scientific foundation of Physical Education such as physiological, psychological, and sociological aspects.

CWTS2 - Civic Welfare Training Service 2

CWTS 2 is the second course under the Civic Welfare Training Service

program components of the National Service Training Program which deals with basic mobilization concepts. This is a practicum wherein community / agency are planned, implemented and evaluated by the students with the target beneficiaries.

SUMMER 1ST YEAR

IT131L - Multimedia Systems 1

This course discusses topics about graphics and animation. It gives a detailed discussion on the different techniques and principles that underlies graphics and also includes discussion on how to develop applications for computer animations. Moreover, this course also cite different sample output projects from different establishments/companies both national and local that indulges in developing and implementing

applications for computer graphics.

Math141a - Analytic Geometry

This course aims to provide students a more in depth knowledge in Mathematics as well as to help individuals understand and appreciate applicability in the activities of man. The topic on graphing is ideal in highlighting the benefits of this blend Mathematics and problems taken from the real world. This course is concerned on geometric problems that are solving by algebraic approaches. It is divided into parts: Plane Analytic Geometry and Introduction to Solid Analytic Geometry.

IT133L - Basic Elect & Digital Design
This course provides the basic understanding of Electronics and Logic Design and Logic Circuits. It covers the study of the electric charges, current, voltage, power, resistance, resistor, transistor, diode and capacitor. This course also will introduce the basic analysis and design of combinatorial circuits, the concepts and theories of switching and logic circuits.

SECOND YEAR - 1ST SEMESTER

Eng201 - Expository Writing

This is a course designed to develop in students the basic library research skill and writing ability. The subject affords them the experience of gathering, interpreting and documenting information, developing and organizing ideas and conclusions, and communicating them clearly. It also aims to guide the basic tools of research, namely the library and its resources, and the facility of language.

IT132 - Professional Ethics

This course introduces ethics and ethical theories: provides discussion on the ethical dilemmas and issues facing IT practitioners. An appreciation and discussion of the Code of Ethics of IT Professionals; Cybercrimes and appropriate Philippine Laws are also included.

Chem112L - General Chemistry

This course covers introduction to atomic structure & chemical bonding, the periodic system, kinetic theory of gases, structure & properties of liquid & solids, solution, chemical equilibrium and the chemistry of elements studied by familiar pointing out correlation of structure and properties. Basic concepts of environmental chemistry are introduced for a better understanding of our ecological problems.

CS212L - Data Structure File

This course introduces the students to the design and implementation of basic and advanced data structures. Topics include basic data structures, trees, graphs and hashing.

CS211 - Object Oriented Programming

This course will introduce general principles underlying the practice of object-oriented programming, exemplified by Java. It combines the traditional style of programming - programming without graphical user interface - and modern style programming with a graphical user interface (GUI).

PE3 - Fundamentals of Games and Sports

No citizen has the right to be an amateur in the matter of physical training and man only plays in the full meaning of the word that he is perfectly human only when he plays", according to Schiller. The students will not only be learning the theories about individual and dual sports but they will also be given the chance to experience them. This will also provide a framework of ideas which are spontaneous and encourage physical development of the students. The course also answers the quest of the students as a science of measuring how he can attain satisfaction for himself.

SECOND YEAR - SECOND SEMESTER

Eng202 - Communicative English

This is an interactive language program designed to prepare students to use English to express abstract ideas and logical relation-

ships. The program provides a broad foundation for specialized content studies, using language for business and social situations, building a strong vocabulary, logical inferences and expressing the conceptual content in a wide range of subjects and develops all four skills areas: listening, speaking, reading and writing.

IS122L - Human Computer Interaction

The course intends to introduce students to the discipline concerned with the design, evaluation & implementation of various computing systems intended for human use. Emphasis will be placed on understanding human behavior with interactive objects, knowing how to develop and evaluate interactive software using a human-centered approach, and general knowledge of HCI design issues with multiple types of interactive applications.

IT221L - Database Management System

This subject covers the discussion on basic concepts and definitions of database systems. It also includes discussion on the processes involve in the development of database systems. In particular, the subject focuses on database analysis and design.

IT223L - Web Designing

This course is designed to give students the knowledge and skills to build creative, interactive, and well-designed Web sites. The course will attempt to balance technical skills with artistic skills to create web pages that are conceptually interesting, easily navigable, visually pleasing, and functional.

CS311L - Data Communication & Networking

This course provides an in-depth discussion of computer networks. It includes a detailed discussion of the different Network Models. Concepts that have a direct effect on the efficiency of a network (e.g collision and broadcast domains, topology) are also discussed. Concepts on different network technologies, distributed computation, networking and communication software, and security issues are also discussed. Packet Tracer freeware software is used to demonstrate subnetting,

VLSM, routing protocols, VLANs and frame relay.

IT213 - Probability and Statisticswith Comp Applications

This is an introductory course in probability and statistics designed to introduce students to statistical applications that are relevant in a variety of disciplines. The course covers basic concepts, descriptive statistics, probability, random variables, probability distributions, parameter estimation, hypothesis testing, linear correlation, linear regression, contingency tables, analysis of variance and other non-parametric statistics. Applications are made to business, social sciences, and natural/physical sciences. It also introduces the use of a statistical software package to perform various statistical analyses.

PE4 - Recreational Activities

This subject is concerned with various recreational activities that would fill in extra time of the students that offer relaxation, fun, and group coordination in an educational situation outside the classroom. Recreational activities are often associated with games and sports that are of current trends. The activities selected in this course involve physical exertion and participation in accordance with the capability of the students to engage.

SECOND YEAR – SUMMER

CS321L - Computer Organization

This course provides an overview of the architecture and organization of a computer, how it is built. It includes a discussion of the CPU, memory, I/O organization and peripherals.

IT231L - Visual Programming 1

This course provides understanding of the visual programming concept and application. It covers the study of designing basic controls or objects, the use of controls with I/O functions, conditional statements, looping statements, designing and developing menus, basic controls and accessing databases.

IT232L - Multimedia Systems 2

This course discusses topics on animation on the web. It gives a detailed discussion about how to create animations. It also includes discussion on how to use tools for 2-D and 3-D animations. Moreover, web animation solutions and principles of animations are presented as to how to implement them efficiently.

THIRD YEAR - 1ST SEMESTER

IT326L - Applied Operating System

This course provides an introduction to the concepts, theories and components that serve as the bases for the design of classical and modern operating systems. Topics include the essential managers such as memory, processor, file, device and networking managers. It discusses also the process and system management. In addition, Windows and UNIX operating system was included as an application of the basic theory of operating system.

Math35 - Discrete Mathematics

This course is designed in order for students to determine, comprehend and identify the different structures and properties of algorithms, sets and logic. It emphasizes the nature of the subject and shows techniques on rigorous proofs. The course starts with sets that are needed in topics including summation, discrete algorithms and probability, relation, counting and mathematical reasoning that are essential for advanced programming techniques. It ends modelling computations.

Phy235L - College Physics1

The course covers vectors, equilibrium of forces, toque, center of mass, motion along a straight line, motion on a plane, force and motion, friction, work, energy, power, simple machines, momentum and impulse, fluid static, fluids in motion, thermal expansion, heat phenomena, heat transfer and thermodynamics.

IT311 - Basic Accounting for IT

This course is an introduction to the fields of managerial and financial accounting, focusing more on the latter. It is designed to equip information technology students with knowledge and skills on accounting processes, system concepts, principles and applications in both manual and computer-based environment.

IT312L - Visual Programming 2

This course provides understanding of the visual programming concept and application. It covers the study of designing basic controls or objects, the use of controls with I/O functions, conditional statements, looping statements, designing and developing menus, basic controls and accessing databases using .NET applications.

IT313L - Database Administration

This subject discusses topics associated with implementing relational systems, including Web-enabled Internet applications and data warehouses. It helps students to develop initial understanding of the complexities and challenges of implementing database systems; introduces some additional issues, important database design and management issues like database security, backup and recovery, controlling concurrent access to data, preserving data quality, advanced topics in database performance tuning, distributed databases and object-oriented databases.

IS311 - Systems Analysis Design &Application Development

The course focuses on the systems design and implementation. Topics include analyzing and managing systems projects, requirements modelling, data and process modelling, object modelling, development strategies, user interface design, data design, system architecture, managing systems implementation and systems support and security.

Psy1 - General Psychology

This course provides a broad coverage of the conceptual and empirical foundation of psychology in its main field. The discussion of the theories, concepts and empirical findings focuses on complex hu-

man behaviour – how and why we think, feel, and behave the way we do, how we act and interact with others, and why and how we become the unique individuals that we are.

THIRD YEAR - 2ND SEMESTER

IT322L - Technopreneurship
This course covers the principles and theories of Technopreneurship. This course prepares the students to be budding technopreneurs through a journey of gradual process of self mastery, environment mastery, enterprise mastery and the development of business plan. At the end of the course, the students are expected to develop and implement a feasible IT business plan. They are encouraged to compete in local and national business plan competitions. Furthermore, it is hoped that they pursue their business plans as start-ups and eventually transform them into stable IT enterprises.

IT321L - Advanced Acctg for IT
This course focuses on the development of accounting system that applies the fields of managerial and financial accounting, focusing more on the latter. It is designed to equip information technology students with knowledge and skills on accounting processes, system concepts, principles and applications in both a manual and computer-based environment. At the end of the course, students are expected to develop an accounting system.

CS322L - Software Engineering
This course provides the student with the introduction of software engineering, the principles of a system engineering process models and the fundamentals of project management. An understanding of the engineering discipline, where software engineers use method and theory to solve problems.

Natural Science 2 - Physical Science
This course serves as a base for non-science students from which

to view nature more perceptively. It is divided into four parts, namely; Physics, Chemistry, Astronomy and Geology. The first part is a review of the basic mathematical operations and principles of Physics and Chemistry. The second part gives emphasis on the universe and the solar system. The third part is a study of the earth and its composition, weather and climate, and hydrology. The last part of this course discusses on the environmental issues relevant to the study of physical science.

IT324L - Web Programming

This course introduces advanced programming skills for website design. Dynamic content development will be explored through state of the art programming language such as PHP for the creation of interactive web sites. Students will create web pages that utilize the most current advances in web development.

IT325 - Computer Security

This course focuses on a wide range of topics to prepare the students for the security issues and concerns they will be facing in the professional environments. It also covers to encryption concepts using any encryption method, and learn how to think analytically solutions in choosing security measures.

IT413L - Network Administration & Maintenance

This course provides an in-depth discussion of installation, configuration and maintaining computer system components. Also managing and securing the network resources.

Phy245L - College Physics 2

The course covers electricity and magnetism, electric charges and field, electric current and circuits, capacitance, electric energy and power, magnetic effects of electricity, magnetic properties and magnetic circuits, alternating current, electronics, solid-state electronics, relativity and quantum theory, atomic physics and nuclear physics.

THIRD YEAR – SUMMER

IT331 - On-the-Job Training

Course Description: Internship/OJT/Practicum is an immersion program wherein the students will have the chance and opportunity to be with the IT industry. The students will have the chance to apply the skills, knowledge and attitude learned in the school and at the same time the opportunity to experience the corporate environment.

FOURTH YEAR - 1ST SEMESTER

IT411 - Capstone Project 1

This subject teaches students to develop researches and projects in the field of Computer Science. It discusses global opportunities in Computer Science researches. It also discusses areas of research in Computer Science such as software development, business process outsourcing, theoretical computer science, algorithms and machine intelligence. In this subject, the students are required to formulate research or project title and formulate research problems and methods.

SocSc3 - Society and Culture w/ Family Planning

A general social science course which covers Society, Culture and Family Planning, designed to facilitate the integral development of students for them to effect changes in the self as well as the environment thereby realizing the fullness of human life. The course deals with the human groups as the control concepts and subject matter of sociology study in understanding the dynamics of society and culture. The knowledge of the basic concepts in Society, Culture and Family management form part of the integral Social Science Program to usher students in understanding the foundations of society, the nature and concepts of culture and the dynamics of Family life in the context of Philippine realities.

Eco1 - Principles of Economics with Land Reform and Taxation

The course presents the basic concepts in economics. It presents four important parts namely: Introduction chapter, Microeconomics concepts, Macroeconomics concepts and Applied economics

which covers the fields of environmental economics, international trade and the agrarian reform program.

Lit1 - Literatures of the Philippines
Literature 1 deals on the study of the various literary forms or genres of Philippine Literature written at different periods in the Philippine Literary history. The students are brought to a rewarding and worthwhile experience of reading and eventually learning from the different selected literary works of National Artist in Literature, Carlos Palanca Memorial Awards in Literature, Hall of Fame's Ramon Magsaysay awardees in Literature and anthologized women writers. In addition, it is also the thrust of this course to enable the students to read representative texts by local writers in region XI as well as representative texts and /or literary works from the rest of the genres to sustain and strengthen the spirit of national identity as Filipino citizen.

PS3a - Philippine Government and Constitution
The course presents the development, organization and operation of the Philippine political system with special emphasis on the analysis of its contemporary structure. Included in this course is the study on the Philippine constitution as prelude in understanding Philippine government politics.

Hist1 - Philippine History: Roots and Development with Politics and Governance
This subject is an introductory course on the historical, political and cultural background of the Filipino people designed for the students to gain basic knowledge that will develop in them Filipino culture and values. This course is a combination of the chronological and topical approaches focusing on geographical settings, civilizations. Foreign relations and influences, struggles of the Filipino people and the development of the Philippine politics and governance.

FOURTH YEAR - SECOND SEMESTER

Philo2 - Logic
Logic is a systematic study of reasoning through the art of philosophical thinking. It also deals on how to develop reasoning through a logical process. It also focuses on how to distinguish a valid from invalid or fallacious reasoning.

SocSc6 - Life Works and Writing of Dr. Rizal
The course deals with the life, works and writings of the Philippines' National Hero – Dr. Jose P. Rizal who is an epitome of patriotism. This also tackles Dr. Rizal's ardent dedication and love for his people and country in pursuit of national freedom and democracy from the colonizers.

Hum1b - Intro to Humanities
An introductory course on the creative output of the human being designed to introduce and expose the students to the different arts in both theory and practice: visual, auditory, and performing arts. It also aims to develop the student's inner life, increase their awareness of and sensitivity to the state of arts and culture, more particularly, the Philippine arts.

IT421 - Capstone Project 2
This subject is a continuation of Thesis I and hence, it focuses more on the implementation phase of the project and evaluation of its testing. Based on the instrument constructed in pre – requisite subject, the project will be validated by IT experts in the field and research coordinator of the college, by then, it will launch an alpha testing for selected groups of users and then followed by a beta testing. Findings, conclusions, and recommendations after a series of tests and evaluation will be presented in the final defense.

Caed500c - Career and Personality Development

An enrichment course for graduating students which ensures self-directed career decision and goals. It consists of 4 components: career professional education under the GSTC, pre-employment seminar under BDO, personally development training under Fitness Center, and Advanced English Proficiency using DynEd.

COMPUTER STUDIES DEPARTMENT FACULTY LINEUP

I. Full – Time Regular		Program
1. AMANTE, CHERYL R.	MIM	BSIT
2. MALIG-ON, MARIAN A.	MIM	BSIT
3. YARA, FE B.	MSIS	BSCS
4. GANAS, MARIFE	MBA	BSIS
5. TABANGUIL, JOHNNA	MET	BSIT

II. Full – Time Probationary		Program
1. DUMANIG, JOHN MARK	MIM	BSIS/BSIT
2. VILCHEZ, RAMCIS	MIT	BSCS
3. REMULTA, ARNOLD	MIT	BSIT
4. ARDENA, RANDY	MCS	BSCS
5. ABORDE, MELJOHN	MIT	BSIS
6. GAJO, DENNIS	MIT	BSCS

III. Part – Time Outside		Program
1. LOGARTA, ALLAN	MS in ITE	BSIT
2. PIJAN, RONIELO	BSCS	BSIT
3. BIALA, ROSELYN	BSCS	BSIT
4. BASTE, MARTZEL	BSCS	BSIT
5. PILAPIL, RYANN	BSIT	BSIT
6. ARROYO, JAN CARLO	BSIT	BSIT
7. DELA CRUZ, KENNETH	MIT	BSIT
8. PETINGLAY, JOHN CARLO	BSIT	BSIT
9. SUCGANG ARLIS	MIT	BSIS
10. OCENAR, EDWARD	BSCS	BSCS

IV. Part – Time In-house		Program
1. CABE, RUDIBEL	MEP	BSIT
2. IBALE, JOSEPH	MEP	BSIT
3. SINDAY, MICHELLE	MBA	BSIS
4. BANO, MARVIN	BSIT	BSIT
5. SISON, KARL ANTHONY	BSIT	BSIT

CSD LABORATORIES and other FACILITIES

COMPUTING LABORATORY 1

COMPUTER LABORATORY 1
Computing Laboratory 1
2nd Floor, DPT Building
Matina Campus

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

49 workstations for 40 students

A student with two (2) computer laboratory subjects is allocated with 10 hours of hands-on computer time per week.

This laboratory has two (2) laboratory assistants per class

This laboratory has three (3) printers installed available for faculty and students.

Hardware Installed – upgraded units
Pentium D Intel, Speed:2.80ghz, Memory:1GB, Videocard:256MB
DVD-RW

Software Installed
Windows XP, MS Office 2007, Visual Studio 2010, J Creator, Net-
beans
Turbo C++

With Mounted LCD Projector

COMPUTER LABORATORY 2
Computing Laboratory 2
(E-Learning Laboratory)
2nd Floor, DPT Building
Matina Campus

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

49 workstations for 40 students

A student with two (2) computer laboratory subjects is allocated with 10 hours of hands-on computer time per week.

This laboratory has two (2) laboratory assistants per class

This laboratory has three (3) printers installed available for faculty and students.

Hardware Installed
ACER Dual Core (Brand New Units)
Speed: 3.2 ghz, Memory: 2GB, HD: 500GB, With headset

Server:
Intel Core 2 Quad, Speed: 2.8ghz, Memory: 4GB, HD: 360GB, 250GB
CD-ROM

Software Installed
Windows XP, MS Office 2007, Visual Studio 2005, J Creator, Net-beans
Turbo C++, E-learning Courses

With Mounted LCD Projector

COMPUTER LABORATORY 3
Computing Laboratory 3
3rd Floor, DPT Building
Matina Campus

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

50 workstations for 40 students

A student with two (2) computer laboratory subjects is allocated with 10 hours of hands-on computer time per week.

This laboratory has two (2) laboratory assistants per class

This laboratory has three (3) printers installed available for faculty and students.

Hardware Installed – upgraded units
Core 2 Duo, Speed:2.4ghz, Memory:1GB, Videocard:256MB
DVD-RW

Software Installed

Windows XP, MS Office 2007, Visual Studio 2010, J Creator, Netbeans
Turbo C++

With Mounted LCD Projector

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

50 workstations for 40 students

A student with two (2) computer laboratory subjects is allocated with 10 hours of hands-on computer time per

week.

This laboratory has two (2) laboratory assistants per class

This laboratory has three (3) printers installed available for faculty and students.

Hardware Installed – upgraded units
Dual Core, Speed:2.0ghz, Memory:1GB, Videocard:256MB
DVD-RW

Software Installed
Windows XP, MS Office 2007, Visual Studio 2010, J Creator, Netbeans
Turbo C++

With Mounted LCD Projector

COMPUTER LABORATORY 5
Computing Laboratory 5
3rd Floor, DPT Building
Matina Campus

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

50 workstations for 40 students

A student with two (2) computer laboratory subjects is allocated with 10 hours of hands-on computer time per week.

This laboratory has two (2) laboratory assistants per class

This laboratory has three (3) printers installed available for faculty and students.

Hardware Installed – upgraded units
Core 2 Duo, Speed:2.93ghz, Memory:1GB, Videocard:256MB
DVD-RW

Software Installed
Windows XP, MS Office 2007, Visual Studio 2010, J Creator, Netbeans
Turbo C++

With Mounted LCD Projector

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

Eight (8) computers for faculty and student use.

This laboratory has one (1) laboratory assistant per class

Two (2) printers for faculty and student

Hardware Installed
Intel ® Pentium ® processor E6700
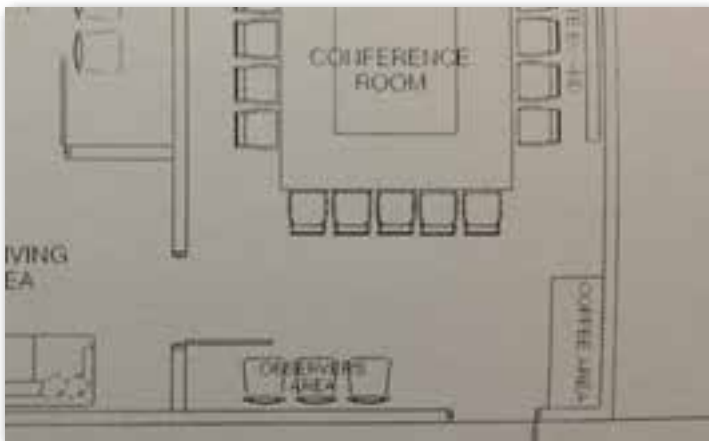2 GB DDR3 Memory
500 GB Hard drive
DVD - Super Multi driver

Intel ® GMA X4500 graphics
Integrated LAN 10/100/1000
USB Keyboard ACER
USB Mouse ACER
AOC Colored Monitor 771S

Software Installed
Windows XP
MS Office 2007

Mounted LCD Projector
Panasonic TV large TV
High quality Speakers
Networking tools

Software Development Laboratory and Research Center
3rd Floor, DPT Building

Floor Plan

Receiving Area

CONFIGURATIONS

Networked with Internet Connection. Wifi available.

Fifteen (15) units available and One (1) server unit for research and software development projects.

With One laboratory assistant per shift

Two (2) printers for faculty and student use.

Hardware Installed (Brand new units) – for Setup
Fifteen (15) Development Machines
Core i3
2GB memory
500GB HDD

Software Installed – for Setup
Windows XPMS Office 2007
Visual Studio 2010
Conference Room with Mounted LCD Projector

University of Mindanao

COMPUTER STUDIES DEPARTMENT
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Davao City

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