

Immaculate Conception High
Two (2) Tests. Four (4) course work pieces

Information Technology
 Grade 11 Term Plan: Christmas

Date	Topics	Content	Assessment	SBA Submission
Sept. 11-15	Microsoft Word Revision Microsoft Word and Webpage SBA Website structure and organization of web pages.	Microsoft word revision <ul style="list-style-type: none"> ● Fillable forms ● MailMerge Students and teachers will review the requirements of the Microsoft and Webpage SBA. Students will explore authoring tools. Features of wix.	Practice Mail merge and Fillable Forms activities.	<ul style="list-style-type: none"> ● Corrections of DBMS SBA (if any)
Sept. 18-22	Microsoft Word SBA Web pages using a variety of design features. Reviewing Evaluating online Sources	Students will be expected to work on Microsoft SBA. Consideration for publishing a website: Verify that all the hyperlinks work correctly. Use a test audience. Verify that all content is up-to-date. Choosing an appropriate design for a page. Inserting and deleting text and graphics. Wrap text with image. Create a home page with hyperlinks. Review: Evaluating Online Sources	Assignment <i>Students will be asked to use an authoring tool such as wix.com to create a website for gradings.</i>	

		<ul style="list-style-type: none"> ● Plan a website structure and organization of page ● Insert hyperlinks within different locations of a typical web page 		
Sept 25–29	Microsoft Word SBA	Students will be placed in their groups to work on SBA. The single sessions will be used to facilitate this activity.	<i>Students will present web pages created from their exploration of the Wix features.</i>	Graded <i>MS Word and webpage Design soft copy SBA: Week of September 25</i> <i>Students will be required to upload their Microsoft SBAs in a zipped folder to Google classroom; the link and screenshots for the webpage will also be required.</i>
	Exploring authoring tools Evaluate a website for accuracy, user friendliness and effective display.	<p>Add page Insert links within webpage, links to external sources, links to user created files.</p> <ul style="list-style-type: none"> ● Considerations for publishing a websites ● Verify that all the hyperlinks work correctly ● Use a test audience ● Verify that all content is up to date 		
Oct 2-6	Problem Solving and Program Design Introduction to Problem Solving Problem Solving outline the steps in problem-solving; Decompose a simple problem into its significant parts;	Steps in problem solving: <ul style="list-style-type: none"> ● Definition of the problem; propose and evaluate solutions; determination of the most efficient solution; develop and represent algorithm; test and validate the solution. ● Use the divide-and-conquer approach to decompose large everyday 	<i>Students will research on the variable types.</i>	

	<p>Define a problem by decomposing it into its significant components;</p> <p>Distinguish between variables and constants; use appropriate data types;</p>	<p>problems into smaller tasks;</p> <ul style="list-style-type: none"> ● The components are: input; process; and output. A defining diagram (IPO Chart) may be used to delineate the components. ● Variables as an area of storage whose value can change during processing; the value of a constant never changes. ● Data types; Integers, floating point (real), characters, literals. 		
<p>Oct 9-11 This week will be used for JUST. Pseudocode algorithm</p>	<p>Pseudocode Algorithm</p> <p>IPO Chart and Pseudocode Algorithm Algorithm: Pseudocode</p>	<p>Definition of algorithms;</p> <p>Characteristics: finite number of steps, precise, unambiguous, flow of control from one process to another, terminate.</p> <p>Identify ways of representing algorithms.</p> <ul style="list-style-type: none"> ● Narrative ● Pseudocode ● Flow Chart <p>Represent algorithms as Pseudocodes;</p> <p>Use of statements. Use of read, input, store, write, print, output, display, conditional branching (if-then, if-then-else, nested</p>	<p><i>Online in class activities.</i> <i>(Quiz)</i></p>	

		conditions); Arithmetic operators: +, -, *, /, MOD, DIV.		
<i>MID-TERM October 12-16</i>				
October 17-20	Problem Solving SBA	<p>Problem Solving SBA will be explained and given to students.</p> <p>Students will be expected to work on Problem Solving SBA without loops</p> <p>MORE PRACTICE Use of Pseudocodes to represent algorithms.</p> <p>Continue Use of statements. Use of read, input, store, write, print, output, display, conditional branching (if-then, if-then-else, nested conditions);</p>	<p>Students will be asked to conduct research on the types of errors (syntax, logic, runtime, compilation, semantic, arithmetic) to facilitate class discussion.</p>	
<i>SIX WEEK TEST</i> <i>October 23-27</i>				
Oct 30- Nov 3	Problem Solving SBA	<p>Students will be expected to work on Problem Solving SBA without loops.</p> <p>Use of Pseudocodes to represent algorithms. (Sequence and Conditional Statement -if-then, if-then-else, nested Conditions)</p> <p>Use of flowchart symbols: input/output,</p>		Graded: Pseudocodes algorithms and flow chart activity .

		process, decision, directional arrows		
Nov 6-10	Algorithm: Pseudocode and Flowchart.	<p>Continuing Use of Pseudocodes to represent algorithms. (Sequence and Conditional Statement -if-then, if-then-else, nested Conditions)</p> <p>Use of flowchart symbols: input/output, process, decision, directional arrows,</p> <p>Introduction to Types of loops (for, while, repeat).</p>		Graded: <i>Submit Problem Solving SBA (Pseudocode with sequencing)</i>
Nov 13-17	Algorithm: Pseudocode and Flowchart.	Types of loops (for, while, repeat). Implement Pseudocodes with loops	Home Work Distinguish between low-level and high-level programming languages. Low-level language (Machine or Assembly). High-level language (<i>For example</i> , Visual Basic, Pascal, C).	
Nov 20-24	<p>Problem Solving and Program Design.</p> <p>Trace Table</p> <p>Test algorithms for correctness;</p>	<p>Discuss assignment: Distinguish between low-level(Machine or Assembly) and high-level (Visual Basic, Pascal, C) programming languages.</p> <p>Perform checks and tests on programs to verify correctness-<i>Errors: syntax, logic, runtime. Testing (test data), Debugging techniques.</i></p> <p><i>Translate algorithmic statements into high-level language syntax;</i></p>		
Dec 27-Dec 1	Describe the sequence of Steps in implementing a program.	<p><i>Steps in implementing a program:</i></p> <p><i>a) Create source code</i></p>	Trace Table worksheet activity.	Submit Problem Solving SBA (Pseudocode with

	Problem Solving and Program Design	<p>b) <i>Translate and/or link</i> c) <i>Execute/run program</i> d) <i>Maintain</i></p> <p><i>Working on Trace Table for SBA</i> Perform checks and tests on programs to verify correctness-<i>Errors: syntax, logic, runtime.</i> <i>Testing (test data),</i> <i>Debugging techniques.</i> <i>Translate algorithmic statements into high-level language syntax;</i></p>		<i>loops)</i>
<p><i>SIX WEEK TEST</i> <i>December 5-9</i></p>				
Dec.11-15	Use two classes to capture truth tables Truth Tables: -	Use two classes to capture truth tables Truth Tables: - <ul style="list-style-type: none"> ● Use of relational operators ● Logical operators ● Arithmetic operators 		