

**INFANT JESUS CONVENT SCHOOL**  
**ANNUAL PLAN**  
**IT SKILL**  
**CLASS: VI - VIII**

MONTH/NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
<p style="text-align: center;">April NO OF DAYS: 18</p>	<p><b><u>FUNDAMENTALS OF COMUTERS</u></b></p> <ul style="list-style-type: none"> <li>• Basics of computer</li> <li>• IPO CYCLE</li> <li>• Peripheral devices</li> <li>• Parts of computer in detail</li> <li>• IPO cycle and storage of data</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the Interface of computer</li> <li>• Make use of application like paint, scratch, tux paint, Ms word</li> <li>• Make use of shortcuts for formatting and editing</li> <li>• Place the operators of memory correctly</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• List the storage and memory devices</li> <li>• Brainstorming about the concept of Data and Information.</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Verbal Skills</li> <li>• Critical Thinking</li> <li>• Listening skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Model reading of the topic</li> <li>• Video based explanation</li> <li>• Analyzing the types of computer memory.</li> <li>• Applying different storage devices in different situations.</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Identifying various storage devices</li> </ul>	<ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Analyze the storage and memory devices.</li> <li>• Integrate working of various memory devices of computer. Identify &amp; use various storage devices.</li> </ul>

			<ul style="list-style-type: none"> <li>• Memorize types of computer memory</li> <li>• Use different devices according to their usage.</li> </ul>		
<p>MAY NO. OF DAYS:14</p>	<p><b><u>FUNDAMENTALS OF COMUTERS SOFTWARE</u></b></p> <ul style="list-style-type: none"> <li>• Application Based</li> <li>• System Software</li> <li>• Operating system</li> <li>• Customizing the Windows Setup</li> <li>• Uses of Shortcut Menu</li> </ul>	<ul style="list-style-type: none"> <li>• Appreciate the importance of computers in day to day life</li> <li>• Cite the various software's</li> <li>• Develop and integrate the use of computers in day to day life</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Recall the software and its type.</li> <li>• List few tools in various application based software</li> <li>• Enhance the use of formatting, editing etc</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Listening Skills</li> <li>• Critical skill</li> <li>• Observation skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Practical Based explanation</li> <li>• Introduction to tools</li> <li>• Relate the working of various softwares</li> <li>• Explore more about application and system software</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Usage of various tools</li> <li>• Apply formatting effects of each tool</li> </ul>	<ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Analyze the softwares.</li> <li>• Integrate working of various softwares.</li> </ul>
<p><b>CONDUCTION OF PT-1</b></p>					

<p style="text-align: center;">JULY No of Days: 27</p>	<p><b><u>ALGORITHMS AND FLOW CHART</u></b></p> <ul style="list-style-type: none"> <li>• Different symbols</li> <li>• Rules of flow chart</li> <li>• Coding and decoding</li> <li>• Processing of a flowchart</li> </ul>	<ul style="list-style-type: none"> <li>• Reading of symbols</li> <li>• Appreciating the use of symbols</li> <li>• Using the codes for programming</li> <li>• Reading a flowchart</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Recall the usage of algorithms and flow chart.</li> <li>• List symbols</li> <li>• Enhance the use of flowcharts in day to day life</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Listening Skills</li> <li>• Critical skill</li> <li>• Observation skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Practical Based explanation</li> <li>• Introduction to tools</li> <li>• Relate the concepts of flowchart</li> <li>• Explore more about flowcharts</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Usage of various symbols</li> <li>• Concept of yes or no during the flowing</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Recall the symbols of software</li> <li>• Integrate step by step decision making</li> </ul>
<p style="text-align: center;">AUGUST No of Days: 23</p>	<p><b><u>ALGORITHMS AND FLOW CHART</u></b></p> <ul style="list-style-type: none"> <li>• Different operations and formats</li> </ul>	<ul style="list-style-type: none"> <li>• Reading of symbols</li> <li>• Appreciating the use of symbols</li> <li>• Using the codes for programming</li> <li>• Reading a flowchart</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Recall the usage of algorithms and flow chart.</li> <li>• List symbols</li> <li>• Enhance the use of flowcharts in day to day life</li> </ul>	<ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Recall the symbols of software</li> <li>• Integrate step by step decision making</li> </ul>

	<ul style="list-style-type: none"> <li>Criteria of following the flow chart</li> <li>Coding and decoding</li> <li>Making a code use algorithm</li> </ul>		<p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>Listening Skills</li> <li>Critical skill</li> <li>Observation skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>Practical Based explanation</li> <li>Introduction to tools</li> <li>Relate the concepts of flowchart</li> <li>Explore more about flowcharts</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>Usage of various symbols</li> <li>Concept of yes or no during the flowing</li> <li></li> </ul>		
<p>SEPTEMBER</p> <p>No of days:05</p>	<p><b>CONDUCTION OF TERM-1</b></p>				
<p>OCTOBER</p> <p>No of Days: 22</p>	<p>SCRATCH</p> <ul style="list-style-type: none"> <li>Understand and Implement the Interface of Scratch</li> <li>Using Various Blocks</li> <li>Implementing Event handlers</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Understand the Interface</li> <li>Make use of Sprites in Scratch</li> <li>Make use of Online and Offline Interface</li> <li>Place the values in the value box different operators</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>Identify the Scratch program</li> <li>List the different blocks in Scratch</li> <li>Enhance the use of Scratch</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>Spatial Skills</li> <li>Critical thinking skill</li> <li>Observation skills</li> </ul> <p><b>APPLICATION:</b></p>	<ul style="list-style-type: none"> <li>Interpersonal</li> <li>Spatial</li> <li>Logical</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Create a new Sprite</li> <li>Add new background</li> <li>Control the movement of Sprite</li> <li>Take Input values into the scratch</li> </ul>

		<ul style="list-style-type: none"> <li>• Motion Blocks <ul style="list-style-type: none"> <li>• Pen Block</li> <li>• Ask Block</li> <li>• Answer Block</li> <li>• Control Block – Conditional Statements – If then else block</li> </ul> </li> <li>• Make decision using condition operators (Iteration Statements - Repeat Until Block - Forever Block)</li> <li>• Using and Implementing Events Like When Clicked</li> </ul>	<ul style="list-style-type: none"> <li>• Practical Based explanation</li> <li>• Introduction to commands in Scratch</li> <li>• Creating scripts</li> <li>• Explore more about Scratch from various blocks</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Usage of Scratch</li> <li>• Use different sprites</li> <li>• Change stage backgrounds</li> <li>• Apply the commands from various blocks to create scripts</li> </ul>		<ul style="list-style-type: none"> <li>• Move Sprite in various directions</li> <li>• Create programs to make use of Motion, Pen , Ask and Answer</li> <li>• Use Conditional and Iteration Blocks</li> <li>• Creating Programs using event handlers</li> </ul>
<p>NOVEMBER No of Days: 23</p>	<p>SCRATCH</p> <ul style="list-style-type: none"> <li>• Defining Variables in Programs</li> <li>• Using Variables</li> <li>• Using operators and Updating the Values of Variables</li> <li>• Implement Animation in Scratch</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Create a variable</li> <li>• Write a script that uses variables</li> <li>• Create a simple game using variables</li> <li>• Make use of simple Animation such as changing Sprites, using different blocks</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Identify the icon of Scratch</li> <li>• List method to create a new variable</li> <li>• Enhance the use of different blocks including variables</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Logical Skills</li> <li>• Critical thinking skill</li> <li>• Observation skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Practical Based explanation</li> </ul>	<ul style="list-style-type: none"> <li>• Interpersonal</li> <li>• Spatial</li> <li>• Logical</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Use the commands to make variables and use them in programming</li> <li>• Create an animated application: <ul style="list-style-type: none"> <li>• Example – Changing location &amp; Costumes to give an effect of animation</li> </ul> </li> </ul>

			<ul style="list-style-type: none"> <li>• Make variables</li> <li>• Create script using variables</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Understand more about Scratch</li> <li>• Understand the term variable</li> </ul>		
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<p>DECEMBER No of Days: 11</p>	<p>CYBER SECURITY Understand Internet and its terminology</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the term Internet</li> <li>• Learn the history of Internet</li> <li>• Define various terms like Internet, LAN, MAN, WAN , PAN, Bandwidth</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Identify the various devices needed for Internet connection</li> <li>• List the various uses of Internet</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Intrapersonal Skills</li> <li>• Critical thinking skill</li> <li>• Observation skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Practical Based explanation</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Learn to surf Internet</li> <li>• Make Flowcharts for solving problems</li> </ul>	<ul style="list-style-type: none"> <li>• Interpersonal</li> <li>• Intrapersonal</li> <li>• Logical</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Analyze the Bandwidth</li> <li>• Check/view Data transfer rate in computer lab/ devices</li> <li>• Recall the different advantages and disadvantages of browsing Internet</li> </ul>
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<b>CONDUCTION OF PT-2 ASSESSMENT</b>					
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<p style="text-align: center;">JANUARY No of Days: 21</p>	<p><b>CYBER SECURITY</b></p> <ul style="list-style-type: none"> <li>• Understand cybercrime and the need of Cyber Security</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the different threats exposed to the system by browsing Internet</li> <li>• Malware : Virus, Worm, Trojan, Spam</li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Identify the need to use Internet safely</li> <li>• Identify the various threats to computer security</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Listening Skills</li> <li>• Critical thinking skill</li> <li>• Observation skills</li> </ul> <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Practical Based explanation</li> <li>• Installing anti-virus to protect the computer system</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Identify the websites which are safe to browse</li> </ul>	<ul style="list-style-type: none"> <li>• Interpersonal</li> <li>• Spatial</li> <li>• Logical</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Find out the threats encountered and the security measures used in a network.</li> </ul>
<p style="text-align: center;">FEBRUARY No of Days: 22</p>	<p><b>CYBER SECURITY</b></p> <p>Understand cybercrime and the need of Cyber Security</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Recognize the different types of Cyber Crime : <ul style="list-style-type: none"> <li>- Cyber Trolling,</li> <li>- Cyber Bullying,</li> <li>- Phishing,</li> <li>- Cyber Stalking</li> </ul> </li> <li>• Follow the steps to ensure Cyber Security: <ul style="list-style-type: none"> <li>- Password</li> </ul> </li> </ul>	<p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Identify the threats posed while surfing Internet</li> <li>• List the etiquettes to be followed while online</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Listening Skills</li> <li>• Critical thinking skill</li> <li>• Observation skills</li> </ul>	<ul style="list-style-type: none"> <li>• Interpersonal</li> <li>• Spatial</li> <li>• Logical</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Practice safe online browsing</li> </ul>

		Protection, - Firewall -Antivirus -Netiquettes • Know the Cyber law: Indian IT Act 2000	<b>APPLICATION:</b> • Practical Based explanation  <b>UNDERSTANDING:</b> • Learn to protect one from cyber crime • Practice the steps to ensure cyber security		
	<b>REVISION:TERM-2</b>				
MARCH	<b>CONDUCTION OF TERM-2 ASSESSMENT</b>				