

# INFANT JESUS CONVENT SCHOOL

## ANNUAL PLAN

### COMPUTER

#### CLASS: VII

| MONTH/NO OF DAYS  | TOPIC: SUB TOPIC  | OBJECTIVES   | AIDS/ACTIVITIES   | MULTIPLE INTELLIGENCE SKILLS   | LEARNING OUTCOME  |
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| <p style="text-align: center;">APRIL<br/>No of<br/>Days: 18</p> | <p><b>Number System:</b></p> <ul style="list-style-type: none"> <li>• Number system</li> <li>• Decimal to Binary conversion</li> <li>• Binary to decimal conversion</li> <li>• Operation on binary numbers</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Convert numbers given in decimal/binary to binary/decimal form.</li> </ul> | <p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Understanding Numeric values.</li> <li>• Doing Operations.                             <ul style="list-style-type: none"> <li>• Understanding symbolic representation.</li> </ul> </li> <li>• Understanding</li> </ul> <p>• Order of operation.</p> <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 lesson.</li> <li>• Video based explanation</li> </ul> <p>• UNDERSTANDING:</p> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal</li> </ul> | <ul style="list-style-type: none"> <li>• They will be able to explain how binary sequences are used to represent digital data.</li> </ul> |

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|                                      |  |   | <ul style="list-style-type: none"> <li>• Why computers use binary (Base-2) numbering</li> </ul>  |  |  |
| <p>MAY</p> <p>No of Days:<br/>14</p> | <p><b>Advanced Features of Excel:</b></p> <ul style="list-style-type: none"> <li>• Sorting data</li> <li>• Filtering data</li> <li>• Conditional formatting</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Identify the terminology and functions common to most database management systems.</li> </ul> | <p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• Enter and Edit Data</li> <li>• Construct formulas including the use of built-in Functions</li> <li>• Create and Modify Charts</li> </ul> <p>SKILLS:</p> <ul style="list-style-type: none"> <li>• Verbal Skills</li> <li>• Analytical skill</li> <li>• Listening skills</li> </ul> <p>APPLICATION:</p> <ul style="list-style-type: none"> <li>• Model reading of the lesson.</li> </ul> <p>Flow Chart based explanation</p> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>• Construct functions using relative and absolute references</li> </ul> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal</li> </ul> | <p>They will be able to use the Excel online Help feature.</p> |

CONDUCTION OF PT-1 ASSESSMENT

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| <p>JULY<br/>No of Days:<br/>27</p> | <p><b>Layers in Krita:</b></p> <ul style="list-style-type: none"> <li>• Components of Krita</li> <li>• Creating a New File</li> <li>• Layers in Krita</li> <li>• Managing Layers</li> <li>• Using Multiple Layers</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Create a link within a web page.</li> </ul> | <p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Data analyst</li> <li>• Pivot Tables and reporting</li> <li>• Advanced conditional formatting</li> </ul> <p><b>SKILLS:</b></p> <ul style="list-style-type: none"> <li>• Writing Skills</li> <li>• Analytical skill</li> <li>• Listening skills</li> </ul> <p><b>APPLICATION:</b></p> <p>Format A<br/>Presentation</p> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Data analyst</li> <li>• Pivot Tables and reporting</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>• They will be able to define sorting and filtering data.</li> </ul> |
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| <p style="text-align: center;">AUGUST<br/>No of Days:<br/>23</p> | <p><b>Animations in Krita:</b></p> <ul style="list-style-type: none"> <li>• Basic concepts in Animation</li> <li>• Creating an Animation of Bouncing Ball</li> <li>• Creating Animated LED Lights</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Validate and publish a webpage.</li> </ul> | <p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Create a table with in a web page with the help of table tag(&lt;table&gt;)</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>                 | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Logical</li> </ul> | <p>They will be able to</p> <ul style="list-style-type: none"> <li>• Insert ordered and unordered lists within a web page.</li> </ul> |
|  |  |  | <p><b>APPLICATION:</b></p> <ul style="list-style-type: none"> <li>• Practical Based explanation</li> <li>• Introduction to various tags.</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Creating a webpage</li> <li>• Graphic within a webpage</li> <li>• Publishing a webpage</li> </ul> |  |   |

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| <p style="text-align: center;">SEPTEMBER<br/>No of Days: 05</p> | <p><b>Google Apps:</b></p> <ul style="list-style-type: none"> <li>• Google</li> <li>• Apps of Google</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Use preset brushes and custom brushes to colorize images, enhance images, and build illustrations</li> </ul> | <p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Photo editing , Free hand drawing</li> <li>• Print design, Sketching</li> <li>• Layout, Branding</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> </ul> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Logical Thinking</li> </ul> | <ul style="list-style-type: none"> <li>• They will be able to prepare images for Web and print output with appropriate sizing and resolution.</li> </ul> |
|   |   |  | <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Photo editing</li> <li>• Free hand drawing</li> <li>• Print design: Poster, brochures , magazine s, business card</li> </ul>  |   |  |

CONDUCTION OF TERM-1 ASSESSMENT(Second Week of September)

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| <p>OCTOBER<br/>No of Days:<br/>22</p> | <p><b>App Development:</b></p> <ul style="list-style-type: none"> <li>• What is an App?</li> <li>• The Android and iOS</li> <li>• Categories of Mobile Apps</li> <li>• Varieties of App</li> <li>• Downloading and installing the App</li> <li>• Developing an App</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Load, control, and remove movie clips and masks in movie content.</li> </ul> | <p><b>KNOWLEDGE:</b></p> <ul style="list-style-type: none"> <li>• Knowledge of hardware, software and network</li> <li>• Firewall administration</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 Flash.</li> </ul> <p><b>UNDERSTANDING:</b></p> <ul style="list-style-type: none"> <li>• Various Services of Internet.</li> </ul> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Logical</li> </ul> | <p>Students will be able to:</p> <p>They will be able to demonstrate the ability to effectively utilize the timeline and motion tween affects to produce animation</p> |
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| <p>NOVEMBER<br/>No of Days:<br/>23</p> | <p><b>More on HTML5:</b></p> <ul style="list-style-type: none"> <li>• HTML</li> <li>• HTML tags and Attributes</li> <li>• Text properties</li> <li>• Background Properties</li> <li>• Font Properties</li> <li>• Margin Properties</li> </ul> <p><b>Lists and Tables in the HTML5:</b></p> <ul style="list-style-type: none"> <li>• Creating List</li> <li>• Creating Tables</li> </ul> | <p>Students will be able to:<br/>Describe the syntax for conditional statements in Python</p> | <p>KNOWLEDGE:<br/>• Different tags in html</p> <p>SKILLS:<br/>• Writing Skills<br/>• Analytical skill<br/>• Listening skills</p> <p>APPLICATION:<br/>• Model reading of the lesson.<br/>• Practical Based explanation</p> <p>UNDERSTANDING:<br/>• Identify and categorize reasoning and problem solving situations.</p> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Logical</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Create List, Tables Using html tags.</li> </ul> |
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| <p>DECEMBER<br/>No of<br/>Days: 11</p> | <p><b>Algorithmic Intelligence:</b></p> <ul style="list-style-type: none"> <li>• Information Processing</li> <li>• Conditions in a Program</li> </ul> | <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Compare AI with human intelligence and traditional information processing and discuss its strengths and limitations</li> <li>• as well as its application to complex and human-centered problems.</li> </ul> | <p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• Knowledge of security across various platforms.</li> <li>• An understanding of hacking</li> <li>• Threat intelligence skills</li> </ul> <p>SKILLS:</p> <ul style="list-style-type: none"> <li>• Listening Skills</li> <li>• Critical skill</li> <li>• Observation skills</li> </ul> <p>APPLICATION:</p> <ul style="list-style-type: none"> <li>• Model reading of the lesson.</li> <li>• Practical Based explanation</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>• application to complex and human-centered problems.</li> </ul> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Logical Thinking</li> </ul> | <p>They will be able to apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in the analysis and design of information on systems.</p> |
| <p><b>CONDUCTION OF PT-2</b></p>       |   |  |  |   |  |



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| <p>JANUARY<br/>No of<br/>Days: 21</p> | <p><b>Conditional Statements in Python:</b></p> <ul style="list-style-type: none"> <li>• Decision Making Statements</li> </ul> | <p>Students will be able to learn:</p> <ul style="list-style-type: none"> <li>• Why Python is a useful scripting</li> </ul> | <p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• OOps concepts</li> <li>• Data structure</li> <li>• File handling concepts</li> </ul>   | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Logical</li> </ul> | <p>Students will be able to:</p> <p>Decision making statements</p> |
|                                       |  |   | <ul style="list-style-type: none"> <li>• Data types and variables</li> </ul> <p>SKILLS:</p> <ul style="list-style-type: none"> <li>• Listening Skills</li> <li>• Critical skill</li> <li>• Observation skills</li> </ul> <p>APPLICATION:</p> <ul style="list-style-type: none"> <li>• Model reading of the lesson.</li> <li>• Practical Based explanation</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>• Statements for decision making</li> </ul> |  |  |

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| <p>FEBRUARY<br/>No of<br/>Days: 22</p> | <p><b>Concept of Smart Living:</b></p> <ul style="list-style-type: none"> <li>• Smart Homes</li> <li>• Devices used in Smart Homes</li> </ul> | <p>Students will be able to:<br/>Keep computer physically fit,<br/>• Co-relate Best practices related to online safety with day to day life.</p> | <p>KNOWLEDGE:<br/>• Identify the devices in smart home</p> <p>SKILLS:<br/>• Writing Skills<br/>• Analytical skill<br/>• Listening skills</p> <p>APPLICATION:<br/>• Model reading of the lesson.<br/>• Practical Based explanation<br/>• Analyzing the various terms.</p> | <ul style="list-style-type: none"> <li>• Linguistic</li> <li>• Spatial</li> <li>• Intrapersonal.</li> </ul> | <p>Students will be able to:<br/>• Categorize terms related to Internet<br/>• Recall the best practices related to online safety.</p> |
|  |   |  | <p>UNDERSTANDING:<br/>• Identify basic requirements for an Internet Connection<br/>• Tell best practices related to safety.</p>  |   |   |
|  | <p>REVISION:TERM-2</p>  |  |  |   |   |
| <p>MARCH</p>                           | <p>CONDUCTION OF TERM-2 ASSESSMENT</p>  |  |  |   |   |