

# INFANT JESUS CONVENT SCHOOL

## ANNUAL PLAN

### Artificial Intelligence (417)

#### CLASS:X

MONTH/ NO OF DAYS	TOPIC: SUB TOPIC	OBJECTIVES	AIDS/ ACTIVITIES	MULTIPLE INTELLIGENCE SKILLS	LEARNING OUTCOME
APRIL No of Days: 18	Employability Skills  Unit 1 Communication Skills - II	Students will be able to: <ul style="list-style-type: none"> <li>● Demonstrate knowledge of various methods of communication</li> <li>● Provide descriptive and specific feedback</li> <li>● Apply measures to overcome barriers in communication</li> <li>● Apply principles of communication</li> <li>● Demonstrate basic writing skills</li> </ul>	KNOWLEDGE: <ul style="list-style-type: none"> <li>● Methods of communication</li> </ul> Brainstorming about communication.  SKILLS: <ul style="list-style-type: none"> <li>● Verbal Skills</li> <li>● Critical Thinking</li> <li>● Listening skills</li> </ul> APPLICATION: <ul style="list-style-type: none"> <li>● Model reading of the lesson.</li> <li>● Video based explanation</li> <li>● Analyzing the types of Communication</li> </ul> UNDERSTANDING:	<ul style="list-style-type: none"> <li>● Linguistic</li> <li>● Spatial</li> <li>● Intrapersonal</li> </ul>	Students will be able to: <ul style="list-style-type: none"> <li>● Understand and appreciate methods of communication</li> <li>● Understand the barriers in communication and basic writing skills</li> </ul>

			<ul style="list-style-type: none"> <li>Identifying various components of communication</li> </ul>		
<p>MAY</p> <p>No of Days: 18</p>	<p><b>Subject Specific Skills</b></p> <p>Introduction to A.I</p> <ul style="list-style-type: none"> <li>Definition of AI / Meaning of the term AI.</li> <li>Difference between Human intelligence and Artificial Intelligence.</li> <li>Why AI and Why not AI?</li> <li>PYTHON PROGRAMMING</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Various application of AI</li> <li>How AI can help you to go about your daily life</li> <li>What is human Intelligence.</li> <li>Difference between Human and Artificial Intelligence</li> <li>Limitation of AI.</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>Understand the problems and try to solve with AI</li> <li>Learn how human depend on machine.</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> <li>Flow Chart based explanation</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>Able to understand about Artificial Intelligence.</li> <li>Various application of AI.</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>understand about Artificial Intelligence</li> <li>Various application of AI</li> <li>How AI can help you to go about your daily life</li> <li>What is human Intelligence.</li> </ul>

			<ul style="list-style-type: none"> <li>• How AI can help you to go about your daily life.</li> <li>• Understands human Intelligence</li> <li>• Difference between Human and Artificial Intelligence.</li> <li>• Explain Limitation of AI</li> </ul>		
REVISION: PT-1					

**CONDUCTION OF PT-1**

<p>JULY No of Days: 27</p>	<p><b>Employability Skills</b></p> <p>Unit 2: Self-Management Skills – II</p> <p><b>Subject Specific Skills</b></p> <ul style="list-style-type: none"> <li>• Real life Utility of AI in various fields effectively and smartly to make work easy.</li> <li>• Six domains of AI covering</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Meaning and importance of stress management</li> <li>• Stress management techniques</li> <li>• Importance of the ability to work independently</li> <li>• Create and Use Macros in spreadsheet.</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• How information can be extracted from data that is used to make a decision.</li> <li>• How artificial intelligence deals with the interaction between computers and humans using</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>• Understands how machine understands human language.</li> <li>• Understands how Machine can manipulate visual</li> </ul>
--------------------------------	--	--	--	--	---

	<p>(Fuzzy logic, Robotics, Expert systems and Neural Networks in brief) and (NLP and Computer Vision in detail).</p>	<ul style="list-style-type: none"> <li>● To make students understand how data systems works and processes, in which the system</li> <li>● Collects numerous data, maintains data sets and derives meaning/sense out of them.</li> </ul>	<p>the natural language.</p> <p>SKILLS:</p> <ul style="list-style-type: none"> <li>● Writing 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> <li>● Practical Based explanation</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>● Students will understand domains of AI.</li> <li>● Students will understands how data systems works and processes, in which the system collects numerous data, maintains data sets and derives meaning/sense out of them.</li> </ul>		
--	--	---	--	--	--

			<p>Students will understand how information can be extracted from data that is used to make a decision.</p> <ul style="list-style-type: none"> <li>● Students will Learn the capability of a machine to get and analyses visual information and afterwards predict some decisions about it.</li> </ul>		
<p>AUGUST No of Days: 23</p>	<p><b>Subject Specific Skills</b></p> <ul style="list-style-type: none"> <li>● AI PROJECT CYCLE</li> <li>● PYTHON PROGRAMMING</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>● Students know how they can get started on an AI project</li> <li>● To make students understands various steps of AI Project Cycle.</li> <li>● To make students understands 4Ws canvas.</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>● Student able to learn how to solve particular problem step by step.</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>● Power point presentation on</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> <ul style="list-style-type: none"> <li>● How they can get started on an AI project</li> <li>● To make students understands various steps of AI Project Cycle.</li> <li>● How to construct system map.</li> <li>● Student can differentiate between AI, Machine Learning and</li> </ul>

			<p>Domains of AI.</p> <ul style="list-style-type: none"> <li>● Story Speaker</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>● Understand the problem and its solution in better way.</li> <li>● Learn how human depend on machine.</li> </ul>		Deep Learning.
<p>SEPTEMBER No of Days: 05</p>	<p><b>Employability Skills</b> Unit 3: Information and communication Technology Skills</p> <p><b>Subject Specific Skills:</b></p> <p>DATA SCIENCES</p> <p>PYTHON PROGRAMMING</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>● Classes of operating systems <ul style="list-style-type: none"> <li>● To understand the programming concept of python.</li> </ul> </li> <li>● Various uses of python programming.</li> <li>● Learn how to install Python in computer.</li> <li>● To learn two ways to work in Python (Interactive Mode and Script mode).</li> <li>● Understands the use of Interpreter, Print () function, Variables.</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>● Recall the software use to paint and draw</li> <li>● List few tools in Ms Paint</li> <li>● Enhance the use of Ms Paint</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> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>● Learn programming concept of python.</li> </ul>	<ul style="list-style-type: none"> <li>● Linguistic</li> <li>● Spatial</li> <li>● Logical Thinking</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>● Learn programming concept of python.</li> <li>● Learn various uses of python programming.</li> <li>● Learn how to install python in computer.</li> <li>● Learn two ways to work in python (interactive mode and script mode).</li> <li>● Understands the use of interpreter, print ().</li> </ul>

			<ul style="list-style-type: none"> <li>• Learn various uses of python programming.</li> <li>• Learn how to install python in computer.</li> </ul>		
REVISION:TERM-1					
CONDUCTION OF TERM-1					
<p>OCTOBER</p> <p>No of Days: 22</p>	<p>Subject Specific Skills</p> <p>AI PROJECT CYCLE.</p> <p>COMPUTER VISION</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Student able to learn how to solve particular problem step by step.</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• Student able to learn how to solve particular problem step by step.</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>• Students will be able to set goal for their AI projects to solve problems around them with the help of 4Ws problem Canvas</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> <ul style="list-style-type: none"> <li>• How to construct system map.</li> <li>• Student can differentiate between AI, Machine Learning and Deep Learning.</li> </ul>

			<p>Statement template.</p> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>● Student, will differentiate between AI, Machine Learning and Deep Learning.</li> </ul>		
<p>NOVEMBER No of Days: 17</p>	<p><b>Employability Skills</b> Entrepreneurial Skills</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>● List the characteristic of successful entrepreneur</li> <li>● Entrepreneurship and society</li> <li>● Qualities and functions of an entrepreneur</li> <li>● Role and importance of an entrepreneur</li> <li>● Myth about entrepreneurship</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>● Identify the Network and Internet.</li> <li>● Brainstorming about the Internet Terms.</li> </ul> <p>SKILLS:</p> <ul style="list-style-type: none"> <li>● Writing 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> <li>● Practical Based explanation</li> <li>● Analyzing the various terms.</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>● Learn Business skills</li> </ul>



		Entrepreneurship as a career option	<p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>● Identify basic requirements for an Internet Connection</li> <li>● Tell best practices related to online safety</li> <li>● Categorize Internet terms.</li> </ul>		
	REVISION: PT-2				
CONDUCTION OF PT-2					
<p>DECEMBER</p> <p>No of Days: 17</p>	<p><b>Employability Skills</b></p> <p>Unit 5: Green Skills</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>● Definition of sustainable development</li> <li>Importance of sustainable development</li> <li>Problems related to sustainable development</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>● Various movents for supporting green environment will be learnt.</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>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>● Various green environment based</li> </ul>	<ul style="list-style-type: none"> <li>● Linguistic</li> <li>● Spatial</li> <li>● Logical Thinking</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>● Learn various green movements</li> </ul>

			movements will be learnt.		
JANUARY No of Days: 21	<p>Subject Specific Skills:</p> <p>NATURAL LANGUAGE PROCESSING(NLP)</p> <p>EVALUATION</p> <p>Python Programming</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• To make student realize the importance of repeated actions in daily life.</li> <li>• To make students learn about the advantages of using looping technique in programming is that it reduces the number of instructions and the memory space.</li> <li>• Model evaluation concepts</li> <li>• Confusion Matrix</li> <li>• Evaluation methods</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• Identify the</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>• To make student realize the importance of repeated actions in daily life.</li> <li>• To make students learn about the advantages of using looping technique in programming is that it reduces the number of instructions and the memory space.</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>• Various statements of python will be learnt.</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> <ul style="list-style-type: none"> <li>•</li> </ul>

<p style="text-align: center;">FEBRUARY No of Days: 6</p>	<ul style="list-style-type: none"> <li>• Python Programming</li> </ul>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• To make student realize the importance of repeated actions in daily life.</li> <li>• To make students learn about the advantages of using looping technique in programming is that it reduces the number of instructions and the memory space.</li> </ul>	<p>KNOWLEDGE:</p> <ul style="list-style-type: none"> <li>• Identify the Network and Internet.</li> <li>• Brainstorming about the Internet Terms.</li> </ul> <p>SKILLS:</p> <ul style="list-style-type: none"> <li>• Writing 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> <li>• Practical Based explanation</li> <li>• Analyzing the various terms.</li> </ul> <p>UNDERSTANDING:</p> <ul style="list-style-type: none"> <li>• Various statements of python will be learnt.</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>• Learn the advantage and importance of python language over Qbasic language.</li> <li>• Learn how to store a value in computer memory.</li> </ul>
<p>REVISION:TERM-2</p>					

MARCH

CONDUCTION OF TERM-2 ASSESSMENT