

NAVY CHILDREN SCHOOL, MUMBAI
CLASS IX SPLIT-UP SYLLABUS FOR THE SESSION: 2024-25
ARTIFICIAL INTELLIGENCE (417)

Month	No. of Periods	Chapter	Detailed Split Up Syllabus	Learning Outcomes	Practical's/Activities Refer to CBSE book Link & Refer to CBSE AI Handbook book & Detailed Curriculum Link Given Below :
April	8	PART-A: EMPLOYABILITY SKILLS Unit 1:Communication Skills-I	1. Introduction to Communication: Verbal Communication, Non-Verbal Communication 2. Writing Skills: Parts of Speech, Sentences 3. Pronunciation Basics 4. Greetings and Introduction 5. Talking about Self	After completing this session, Students will be able to: <ul style="list-style-type: none"> • Identify the elements of communication & draw a communication cycle. • Identify the factors affecting our perspectives in communication. • Identify & Explain the verbal & Non Verbal method of communication. • List the 7Cs of communication. 	https://cbseacademic.nic.in/web_material/Curriculum21/publication/secondary/Employability_Skills_IX.pdf

- Speak confidently in public using the 3Ps method
- Avoid common mistakes in non-verbal communication
- Identify & Explain the usage of the basic & Supporting parts of speech
- Identify and compose different types of sentences
- Pronounce (speak correctly) simple words used in your conversations.
- Introduce yourself to other people.
- Ask the questions according to a situation.

May & June	4	<p style="text-align: center;">PART-A: EMPLOYABILITY SKILLS Unit 2: Self Management Skills-I</p>	<ol style="list-style-type: none"> 1. Introduction to Self-management: Strengths and Weakness Analysis 2. Self-confidence & Positive Thinking 3. Personal Hygiene 4. Grooming 	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • Describe the importance of self-management in your own words. • List the various self-management skills. • List your own strengths and weaknesses. • List & Identify the qualities of self-confident people. • List factors that influence self-confidence. • Define positive attitude. • List the benefits of having a positive attitude. • Identify ways in which you can develop a positive attitude. • List the benefits of maintaining personal hygiene & Grooming. 	<p style="text-align: center;">https://cbseacademic.nic.in/web_material/Curriculum21/publication/secondary/Employability_Skills_IX.pdf</p>
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July	6	<p style="text-align: center;">PART-B – SUBJECT SPECIFIC SKILLS</p> <p style="text-align: center;">Unit 1: AI Reflection, Project Cycle and Ethics</p>	<p>1. AI Reflection 2. AI PROJECT CYCLE 3. AI Ethics</p>	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • To identify and appreciate Artificial Intelligence and describe its applications in daily life. • To recognize, engage and relate with the three realms of AI: , Computer Vision, Data Statistics and Natural Language Processing. • Identify the AI Project Cycle framework. • Learn problem scoping and ways to set goals for an AI project. • Identify stakeholders involved in the problem scoped. Brainstorm on the ethical issues involved around the problem selected. • Understand the iterative nature of problem 	<p>https://cbseacademic.nic.in/web_material/Curriculum25/publication/secondary/417_AI_Handbook_Class9.pdf</p>
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scoping for in the AI project cycle. Foresee the kind of data required and the kind of analysis to be done.

- To understand the purpose of Data Visualisation
- Understand modeling (Rulebased & Learning-based)
- To understand and reflect on the ethical issues around AI.
- To gain awareness around AI bias and AI access.

Aug	6	<p style="text-align: center;">PART-B – SUBJECT SPECIFIC SKILLS</p> <p>Unit 2: Data Literacy</p>	<p>1. Basics of data literacy 2. Acquiring data, Processing & Interpreting Data 3. Project Interactive Data Dashboard & Presentation</p>	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • Define data literacy and recognize its importance Understand how data literacy enables informed decisionmaking and critical thinking • Apply the Data Literacy Process Framework to analyze and interpret data effectively. • Learn measures to protect data privacy and enhance data security • Classify different types of data and enlist different methodologies to acquire it • Enlist and explain the different methods of data interpretation • Discover different methods of data visualization • Identify potential risks associated with data breaches and 	<p>https://cbseacademic.nic.in/web_material/Curriculum25/publication/secondary/417_AI_Handbook_Class9.pdf</p>
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				unauthorized access.	
Sep	6	<p>PART-B – SUBJECT SPECIFIC SKILLS</p> <p>Unit 3: Math for AI (Statistics & Probability) and Unit 4: Introduction to Generative AI</p>	<ol style="list-style-type: none"> 1. Importance of Math for AI 2. Statistics 3. Probability 4. GENERATIVE AI 	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • Analyzing the data in the form of numbers/images and find the relation/pattern between the them.Use of Math in AI. • Number Patterns Picture Analogy • Understand the concept of Statistics in real life. • Application in various 	<p>https://cbseacademic.nic.in/web_material/Curriculum25/publication/secondary/417_AI_Handbook_Class9.pdf</p>

real life scenarios.

- Understand the concept of Probability in real life and explore

 - various types of events

- Application in various real life scenarios

- Students will be able to define Generative AI & classify different kinds.

- Students will be able to explain how Generative AI works and recognize how it learns.

- Applying Generative AI tools to create content

- Understanding the ethical considerations of using Generative AI.

Oct & Nov	8	<p>PART-B – SUBJECT SPECIFIC SKILLS Unit 5: Introduction to Python</p>	<ol style="list-style-type: none"> 1. Introduction to Language Python 2. Modes of Python 3. Python Programming and its Applications 4. Python Basic - Variables, Arithmetic Operators, Expressions 5. Data Types - integer, float, strings 6. print() and input() functions 7. Python List 	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • Learn basic programming skills through gamified platforms. • Acquire introductory Python programming skills in a very user-friendly format. • Develop basic principles of Computational thinking along with the defined use of various types of operators and high order 	<p>https://cbseacademic.nic.in/web_material/Curriculum25/publication/secondary/417_AI_Handbook_Class9.pdf</p>
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structure like list, tuples
and strings

- Theory + Practical:
Python Basics
- Students go through
lessons on Python Basics
- Students will try some
simple problem-solving
exercises on Python
Compiler.

Dec	4	<p style="text-align: center;">PART-A: EMPLOYABILITY SKILLS Unit 3: ICT Skills-I</p>	<p>1. Introduction to ICT 2. ICT Tools: Smartphones and Tablets- I 3. ICT Tools: Smartphones and Tablets — II 4. Parts of Computer and Peripherals 5. Basic Computer Operations 6. Performing Basic File Operations 7. Communication and Networking — Basics of Internet, Internet Browsing, Introduction to e-mail, Creating an e-mail Account, Writing an e-mail, Receiving and Replying to e-mails</p>	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • Identify the importance of information and communication technology. • List the various tools that are being used for ICT. • Demonstrate the knowledge of application of ICT in our daily life • Differentiate between smartphones and tablets. • Identify various parts of a mobile device and list their functions. • Identify the basic parts of a computer. • List the use of input and output devices. • List the functions of the CPU. • Differentiate between RAM and ROM. • Identify the various keys 	<p>https://cbseacademic.nic.in/web_material/Curriculum21/publication/secondary/Employability_Skills_IX.pdf</p>
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				<p>on a keyboard and their associated functions.</p> <ul style="list-style-type: none">• Identify the various uses of Internet.• List the benefits of an e-mail account.• Identify the various elements of the e-mail message.• Compose and send an e-mail message.	
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Jan	5	<p>PART-A: EMPLOYABILITY SKILLS Unit 4: Entrepreneurial Skills-I</p>	<p>1. What is Entrepreneurship? 2. Role of Entrepreneurship 3. Qualities of a Successful Entrepreneur 4. Distinguishing Characteristics of Entrepreneurship and Wage Employment 5.Types of Business Activities - Product, Service and Hybrid Businesses 6. Entrepreneurship Development Process</p>	<p>After completing this session, Students will be able to:</p> <ul style="list-style-type: none"> • Identify the characteristics of an entrepreneur. • Explain the importance of entrepreneur and its role in country's and society's growth. • Identify and describe the qualities of a successful entrepreneur. • Identify difference between product and service business activities. • Classify business examples as product, service and hybrid businesses. • Identify different steps of starting a business.
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Feb	8	<p>PART-A: EMPLOYABILITY SKILLS Unit 5: Green Skills-I</p>	1. Society and Environment 2: Conserving Natural Resources 3: Sustainable Development and Green Economy	After completing this session, Students will be able to: <ul style="list-style-type: none"> • Describe the relation between society and environment. • Identify common environmental problems. • Demonstrate the knowledge of green skills, green economy and green jobs. • Identify the green jobs in various sectors. 	https://cbseacademic.nic.in/web_material/Curriculum21/publication/secondary/Employability_Skills_IX.pdf
Mar	-	Revision	Revision	Revision	