

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
CLASS-IX : SPLIT-UP SYLLABUS : 2024-25
SUB : ARTIFICIAL INTELLIGENCE (417)
DISTRIBUTION OF MARKS AND PERIODS
TOTAL MARKS: 100 (THEORY-50 + PRACTICAL-50)

| | UNITS | MAX. MARKS for Theory and Practical |
|---------------|---|--|
| PART A | Employability Skills | |
| | Unit 1: Communication Skills-I | 5 |
| | Unit 2: Self-Management Skills-I | |
| | Unit 3: ICT Skills-I | |
| | Unit 4: Entrepreneurial Skills-I | 5 |
| | Unit 5: Green Skills-I | |
| | Total | 10 |
| PART B | Subject Specific Skills | |
| | Unit 1: Introduction to Artificial Intelligence(AI) | 10 |
| | Unit 2: AI Project Cycle | 10 |
| | Unit 3: Neural Network | 5 |
| | Unit 4: Introduction to Python | 15 |
| | Total | 40 |
| PART C | Practical Work | 20 |
| | • Unit 4: Introduction to Python | |
| | Practical Examination | 10 |
| | Viva Voce | 5 |
| | Total | 35 |
| PART D | Project Work / Field Visit / Practical File/ Student Portfolio | 10 |
| | Viva Voce | 5 |
| | Total | 15 |
| | GRAND TOTAL | 100 |

MARKS DISTRIBUTION

| UNIT | UNIT NAME | MARKS |
|------|---|-----------|
| 1 | Unit 1: Communication Skills-I | 5 |
| 2 | Unit 2: Self-Management Skills-I | |
| 3 | Unit 3: ICT Skills-I | |
| 4 | Unit 4: Entrepreneurial Skills-I | 5 |
| 5 | Unit 5: Green Skills-I | |
| 6 | Unit 1: Introduction to Artificial Intelligence(AI) | 10 |
| 7 | Unit 2: AI Project Cycle | 10 |
| 8 | Unit 3: Neural Network | 5 |
| 9 | Unit 4: Introduction to Python | 15 |
| | TOTAL | 50 |

PRACTICAL

| Sl | Unit Name | Marks |
|----|--|-------|
| 1 | Practical Work Unit 4: Introduction to Python | 20 |
| 2 | Practical Examination | 10 |
| 3 | Viva Voce | 5 |
| 4 | Project Work / Field Visit / Practical File/ Student Portfolio | 10 |
| 5 | Viva Voce | 5 |

**MONTH-WISE DISTRIBUTION
THEORY**

| Sl | Month | Topic | Theory | Prac |
|-----------|--------------|---|----------------------------------|--------------------------------|
| 1 | April & May | <p>Unit 1 Communication Skills: Session 1 Methods of Communication, Session 2 Verbal Communication</p> <p>Unit 2 Self-management Skills Session 1 Stress Management Session 2 Self-awareness — Strength and Weakness Analysis</p> <p>Unit 3 Information and Communication Technology Skills Session 1 Basic Computer Operations</p> | 08 | -- |
| 2 | June & July | <p>Unit 1 Communication Skills: Session 3 Non-verbal Communication Session 4 Communication Cycle and Importance of Feedback</p> <p>Unit 2 Self-management Skills Session 3 Self-motivation</p> <p>Unit 3 Information and Communication Technology Skills Session 2 Performing Basic File Operations</p> <p>Unit 1: Introduction to Artificial Intelligence(AI) EXCITE Session: Introduction to AI and setting up the context of the curriculum</p> <p>RELATE Video Session: To watch a video • Introducing the concept of Smart Cities, Smart Schools and Smart Homes</p> <p>PURPOSE Session: • Introduction to UN Sustainable Development Goals</p> | 06 04 | 02 |
| 3 | August | <p>Unit 1: Introduction to Artificial Intelligence(AI) – contd...</p> <p>POSSIBILITIES Session: Theme-based research and Case Studies • Learners will listen to various case-studies of inspiring start-ups, companies or communities where AI has been involved in real-life. • Learners will be allotted a theme around which they need to search for present AI trends and have to visualise the future of AI in and around their respective theme.</p> <p>AI ETHICS Video Session: Discussing about AI Ethics Recommended Activity: Ethics Awareness • Students play the role of major stakeholders, and they have to decide what is ethical and what is not for a given scenario. Session: AI Bias and AI Access • Discussing about the possible bias in data collection • Discussing about the implications of AI technology</p> | 04 | 01 |

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|---|-----------|--|----|----|
| | | Unit 2: AI Project Cycle Session: Introduction to AI Project Cycle <ul style="list-style-type: none"> • Problem Scoping • Data Acquisition • Data Exploration • Modelling • Evaluation | 04 | 01 |
| 4 | September | Unit 2: AI Project Cycle – contd... Data Acquisition Activity: Introduction to data and its types. Data Exploration Session: Data Visualisation <ul style="list-style-type: none"> • Need of visualising data • Ways to visualise data using various types of graphical tools. Modelling Session: Decision Tree, <ul style="list-style-type: none"> • To introduce basic structure of Decision Trees to students. HALF YEARLY EXAMINATION | 04 | -- |
| 5 | October | Unit 4 Entrepreneurial Skills Session 1 Entrepreneurship and Society Session 2 Qualities and Functions of an Entrepreneur Session 3 Myths about Entrepreneurship Session 4 Entrepreneurship as a Career Option Unit 5 Green Skills Session 1 Sustainable Development Session 2 Our Role in Sustainable Development | 06 | -- |
| 6 | November | Unit 3: Neural Network Session: Introduction to neural network <ul style="list-style-type: none"> • Relation between the neural network and nervous system in human body • Describing the function of neural network. Unit 4: Introduction to Python Recommended Activity: <ul style="list-style-type: none"> • Introduction to programming using Online Gaming portals like Code Combat. Session: <ul style="list-style-type: none"> • Introduction to Python language • Introducing python programming and its applications | 04 | 04 |
| 7 | December | Practical: Python Basics <ul style="list-style-type: none"> • Students go through lessons on Python Basics (Variables, Arithmetic Operators, Expressions, Data Types - integer, float, strings, using print() and input() functions) • Students will try some simple problem-solving exercises on Python Compiler. | 04 | 04 |
| 8 | January | Practical: Python Lists <ul style="list-style-type: none"> • Students go through lessons on Python Lists (Simple operations using list) • Students will try some basic problem-solving exercises using lists | 04 | 04 |
| 9 | February | Revision and Project | | |