

COMMON ANNUAL EXAMINATION (2024-2025) SYLLABUS

CLASS: SUBJECT: AI

TEXTBOOKS:

- 1. CBSE REFERENCE MATERIAL
- 2. AI CLASS 11(ORANGE PUBLICATION)

ANNUAL EXAMINATION

S.NO.	UNIT/ CHAPTER / TOPIC	SUBTOPICS	WEIGHTAGE
	Employability Skills	 Communication Skills Self-Management Skills Basic Information and Communication Technology Skills Entrepreneurial Skills Green Skills 	10
	Unit 1: Introduction to Al for Everyone	What is Artificial Intelligence? • Evolution of AI • Types of AI • Domains of AI • AI Terminologies • Benefits and limitations of AI	4
	Unit 2: Unlocking your future in Al	The Global Demand • Some Common Job Roles In AI • Essential Skills and Tools for Prospective AI Careers • Opportunities in AI across Various Industries	5
	Unit 3: Python Programming	Level 1: Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements Level 2: CSV Files, Libraries – Numpy, Pandas, Scikit-learn	5
	Unit 4: Introduction to Capstone Project	 Design Thinking Empathy Map Sustainable Development Goals Capstone Project 	5
	Unit 5: Data Literacy	• What is Data Literacy?	6

	 Data Collection Exploring Data Statistical Analysis of data Representation of data, Python Programs for Statistical Analysis and Data Visualization Introduction to Matrices Data Pre-processing Data in Modelling and Evaluation 	
Unit 6: Machine Learning Algorithm	 Machine Learning in a nutshell Types of Machine Learning Supervised Learning Understanding Correlation, Regression, Finding the line, Linear Regression algorithm Classification – How it works, Types, k – Nearest Neighbour algorithm Unsupervised Learning Clustering – How it works, Types, k - means Clustering algorithm 	6
Unit 7: Leveraging Linguistics and computer Sc	 Understanding Human Language Complexity Introduction to Natural Language Processing (NLP) - Emotion Detection and Sentiment Analysis, Classification Problems, Chatbot Phases of NLP Applications of NL 	5
Unit 8: AI Ethics and Values	Ethics in Artificial Intelligence • The five pillars of AI Ethics • Bias, Bias Awareness, Sources of Bias • Mitigating Bias in AI Systems • Developing AI Policies • Moral Machine Game • Survival of the Best Fit Game	4
		TOTAL MARKS=50

NOTE: The above syllabus is for assessment purpose and remaining chapters/topics may be taught as subject-learning enrichment.

For the annual exams, schools may consider the following suggestions:

- Make sure you are thorough with the entire syllabus before allocating weightage.
- Please rationalize the syllabus based on the Annual Examination Schedule.
- Please mention the chapters which are not meant for evaluation/assessment purpose and should be done for learning enrichment.
- Classes (IX-XII) subject teachers to adhere to the instructions as per the CBSE Curriculum.