



MIZORAM BOARD OF SCHOOL EDUCATION
AIZAWL – 796012

Dated Aizawl, the 13th October, 2026

NOTICE

No.J.11013/1/2018-MBSE (Acad)/143: It is hereby notified for the information of all concerned that the Mizoram Board of School Education (MBSE) is introducing **Artificial Intelligence (AI) as an additional subject at the Secondary Stage.**

The subject shall be offered to students of **Class IX from the academic session 2027–2028** and to students of **Class X from the academic session 2028 – 2029**. The syllabus and textbooks prescribed by the Board for the said subject shall be followed accordingly.

The High School Leaving Certificate (HSLC) Examination in Artificial Intelligence (AI) shall be conducted in accordance with the syllabus and prescribed textbooks of the subject, with effect from the **HSLC Examination, 2029, onwards**, until further orders.

All concerned schools and stakeholders are hereby informed to take note of the above and make the necessary arrangements for the introduction and implementation of the subject in the respective academic sessions.

Enclo:As above

Sd/-SARAH LALENGZAMI PACHUAU
Secretary
Mizoram Board of School Education

Memo No.J.11013/1/2018–MBSE(Acad)/143(A):Dated Aizawl, the 13th October, 2026

Copy to:-

1. The Commissioner & Secretary to the Govt. of Mizoram, School Education Department.
2. The Director of School Education, Govt. of Mizoram, for information.
3. The Controller of Examinations, MBSE.
4. Regional Officer, MBSE Regional Office, Lunglei.
5. All District Education Officers, for information with a request to inform all Headmasters/Headmistresses of High Schools under their jurisdiction.
6. System Administrator, MBSE, for uploading in the official website.
7. Guard files Nos.1&10


(C. LALDINPUIA)

Senior Academic Officer
Mizoram Board of School Education

SYLLABUS OF ARTIFICIAL INTELLIGENCE FOR CLASS IX AND X

CLASS IX

Unit 1: ICT Skills – I

- Introduction to ICT
- ICT Tools: Smartphones and Tablets
- Parts of a Computer and Peripherals
- Communication and Networking

Unit 2: Introduction to AI, Project Cycle and Ethics

Understanding AI

- What is Artificial Intelligence?
- Types of AI
- Domains of Artificial Intelligence
- Applications of AI in Real-Life

AI Project Life Cycle

- AI Project Life Cycle Framework
- Problem Scoping and Setting Goals for an AI Project
- 4Ws Problem Canvas
- Problem Statement Template
- Understanding Iterative Nature of Problem Scoping
- Ethical Issues with Problem Scoping
- Data Acquisition
- System Maps
- Data Exploration
- Modelling
- Modelling Techniques
- Evaluation
- Deployment
- AI Project Cycle Mapping Template

Ethics and Morality

- AI Ethics
- AI Ethics Principles
- Ethics with Personal Data
- Major Ethical Issues with AI
- AI Bias
- AI Access

Unit 3: Data Literacy

Introduction to Data Literacy

- What is Data?

- What is Data Literacy?
- Importance of Data Literacy
- How to Become Data Literate?
- Data Collection and Data Security
- Data Security Best Practices

Acquiring, Processing, and Interpreting Data

- Types of Data
- Data Acquisition
- Sources of Data
- Data Processing and Data Interpretation
- Methods of Data Interpretation
- Types of Data Visualisation (DI)
- Power BI Interactive Data Dashboard and Presentation
- What is Data Visualisation?
- Using Tableau for Data Visualisation

Unit 4: Importance of Mathematics for AI

- Essential Mathematics for AI
- How AI Uses Mathematics
- Statistics
- Probability

Unit 5: Generative Artificial Intelligence

Understanding Generative AI

- What is Generative AI?
- Generative AI vs Conventional AI
- Types of Generative AI
- Examples of Generative AI
- Benefits of Using Generative AI
- Limitations of Using Generative AI
- Generative AI Tools

Ethical Considerations of Using Generative AI

- Ethics
- Ethical Considerations of Using Generative AI
- Potential Negative Impact on Society
- Responsible Use of Generative AI
- Rules and Regulations for Schools on AI

Unit 6: Introduction to Python

Algorithms, Flowcharts and Gamified Programming

- Algorithms
- Writing Algorithms
- Flowcharts
- What is CodeCombat?

Python Programming and Its Applications

- Installing Python
- Working with Python
- Character Set in Python
- Tokens in Python
- Variables
- Data Types in Python
- The print() Function in Python
- Operators
- Operator Precedence
- Errors in Python
- Control Statements in Python
- Lists in Python

Python Practical Questions

Viva-Voce Questions

Project Work

Become a Responsible AI User

Prescribed textbook: Artificial Intelligence Class 9. Published by Macmillan Education India Private Limited. ISBN: 978-93-7111-968-9

CLASS X

Unit 1: Information and Communication Technology Skills – II

- Basic Computer Operations.
- Performing Basic File Operations
- Computer Care and Maintenance
- Computer Security and Privacy

Unit 2: Revisiting AI Project Cycle and Ethical Frameworks for AI

Introduction to AI Domains

- Data Science
- Computer Vision
- Natural Language Processing

Ethical Frameworks of AI

- Ethical Frameworks
- Types of Ethical Frameworks
- Bioethics
- Case Study

Unit 3: Advanced Concepts of Modelling in AI

Revisiting AI, ML, DL

- AI, ML, and DL
- Frequently Used Terms Related to Data

Modelling

- Types of AI Models
- Categories of Learning-based Models
- Sub-Categories of Supervised Learning Model
- Sub-Categories of Unsupervised Learning Model
- Sub-Categories of Deep Learning

Artificial Neural Networks

- What Is a Neural Network?
- How Does AI Make a Decision?

Unit 4: Evaluating Models

- Model Evaluation
- Evaluation Metrics
- Accuracy and Error
- Evaluation Metrics for Classification
- Classification Metrics
- Ethical Concerns Around Model Evaluation

Unit 5: Data Science

No-Code AI for Statistical Data

- Applications of Data Science
- Statistics and Data Science
- Low/No-Code AI Approach to Statistical Data
- MS Excel for Statistical Analysis

Use Case Walkthrough of Statistical Data

- Key Concepts of Statistics
- Orange Data Mining
- Working with Orange Data Mining Tool
- Case Study: Palmer Penguins
- Case Study: Food Price Index

Unit 6: Computer Vision and Natural Language Processing

Introduction to Computer Vision and its Applications

- Computer Vision (CV)
- Computer Vision Tasks
- Basics of Images
- How Computers Store Images

No-Code AI Tools for Computer Vision

- No-Code AI Tools
- Image Features
- What Is Convolution?
- Convolutional Neural Networks (CNNs)

Introduction to Natural Language Processing and Its Applications

- Computer Language
- NLP

Chatbots

- Chatbot
- Types of Chatbots

Unit 7: Advanced Python

Basics of Python

- Introduction to Anaconda, miniconda and Its Environment
- Understanding Jupyter Notebook
- Review Python Concepts

Python Libraries

- Modules and Packages in Python
- NumPy
- Pandas
- Matplotlib
- OpenCV

Python Practical Questions

Viva-Voce Questions

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Prescribe textbooks: Artificial Intelligence Class 10. Published by Macmillan Education India Private Limited. ISBN: 978-93-7111-571-1