Unlocking Our Future :

LEARN AI

Mahad's First
Artificial Intelligence Centre

HET in partnership with **Privi Speciality Chemicals Ltd.**

AI for All: The Vision at HET

At Hirwal Education Trust, we are pioneering a new chapter with the **PRIVI AI Lab**, which equips students and teachers with the skills that define the future, including AI literacy, coding, and computational thinking, thereby fostering creativity, innovation, and problem-solving across various disciplines.

> *"**The future belongs to those who can learn, unlearn, and relearn.**"* – Alvin Toffler.

With India projected to add over 1 million AI-trained professionals by 2030, HET is committed to preparing its learners to lead this transformation.

Students from Classes 6 to 12 and college first-year students gain hands-on exposure to real-world AI applications, while teachers are trained to integrate technology-driven learning into their classrooms.

Our vision is to make HET a model of progressive and future-ready education where every learner is equipped to shape tomorrow with curiosity, confidence, and purpose.

Pathway to Learning

1. AWARENESS & FOUNDATION
- Introduction to AI
- Real-world applications
- Digital curiosity
- Digital curiosity

2. PROGRAMMING & LOGIC
- Python fundamentals
- Hands-on coding basics
- Flow control & functions
- Visualization tools

4. MACHINE LEARNING & AI
- Supervised learning
- Ethics in AI use
- Neural networks & NLP
- AI libraries (Pandas...)

5. INNOVATION & APPLICATION
- Projects & case studies
- Interdisciplinary work
- Ethics in AI use

6. RESEARCH & CAREERS
- Capstone & internships
- Industry readiness

Curriculum Overview (Classes XI–XII)

Science and Commerce Streams

Modules Covered:

1. Introduction to AI concepts and applications
2. Basics of Artificial Intelligence and its real-world use cases
3. Python programming fundamentals
4. Flow of control, functions, and libraries in Python
5. Data structures and file handling
6. Introduction to Object-Oriented Programming (OOP)
7. Database management concepts
8. Hands-on projects and coding basics

Key Benefits:

- Early exposure to AI and Python programming
- Strengthens analytical and logical thinking
- Builds a foundation for higher education and technology careers

Curriculum Overview (First Year UG Level)

Modules Covered:
1. Introduction to Python programming for AI
2. Python control structures, functions, and modules
3. File handling and exception management
4. Data structures and object-oriented concepts
5. Introduction to Python libraries (NumPy, Pandas, Matplotlib)
6. Mini-projects and assignments

Key Benefits:
- Builds strong programming fundamentals
- Enhances logical problem-solving
- Enables students to understand real-world AI applications

Curriculum Overview (2nd and 3rd Year UG Level)

Modules Covered:

1. Advanced Python and OOP
2. Data Science tools and libraries
3. Introduction to Machine Learning
4. Supervised and Unsupervised Learning
5. Basics of Neural Networks and Deep Learning
6. Natural Language Processing (NLP) fundamentals
7. Capstone project and internship opportunities

Key Benefits:

- Industry-ready AI and Data Science skillset
- Internship and placement guidance
- Prepares students for roles in analytics, research, and development

Impact and Opportunity

1. **Digital confidence to adapt to future careers**
2. **Responsible technology use (ethics and impact)**
3. **Collaborative and creative skills**

Students completing the AI curriculum at HET will:

- Understand the core concepts and applications of Artificial Intelligence.
- Develop programming and computational problem-solving skills using Python.
- Gain practical knowledge of data handling, visualization, and machine learning.
- Apply AI techniques such as supervised, unsupervised, and deep learning.
- Explore advanced areas like computer vision, NLP, and AI ethics.
- Build real-world projects from prototype to implementation.
- Be prepared for higher studies, research, and industry careers in AI, Data Science, and emerging technologies.

CONTACT US TO ENROLL TODAY!

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