

NEWSLETTER: OCTOBER 2024 -
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PREVENT

Prevention of natural disasters using deep technology for advanced HEI curricula

PREVENT aims to harness the potential of deep tech systems for environmental applications. The project also seeks to introduce new modules and enhance existing ones in engineering undergraduate programs in higher education (HE). These modules focus on technologies related to the prevention of natural disasters and the utilization of sensor networks for real-time data collection. This data is then processed by centrally implemented artificial intelligence algorithms to optimize conditions and/or prevent or rectify disasters.



Project Updates

Training Module

Virtual Learning Lab

Upcoming Tasks

Prevent Event Workshops
and Exhibitions



Project Updates

Training Module

The PREVENT Module offers a comprehensive pedagogical guide designed to empower higher education educators with knowledge and tools in cutting-edge deep technologies. It equips educators to integrate advanced fields such as Artificial Intelligence (AI), Internet of Things (IoT), and Remote Sensing into disaster prevention education, enhancing the learning experience and relevance for students. This resource supports the development of digital skills critical for addressing environmental and technological challenges in higher education.

Key Highlights of the Module:

- Comprehensive coverage of natural disasters including earthquakes, floods, wildfires, and epidemics.
- In-depth teaching of deep technologies such as Artificial Intelligence (AI), Remote Sensing, Robotics, Internet of Things (IoT), and Computer Vision.
- Balanced combination of theory and practical sessions to build both foundational knowledge and hands-on skills.
- Designed to equip higher education educators with cutting-edge tools to enhance disaster prevention education.
- Emphasizes the development of digital and technological skills relevant to current and future challenges.
- Supports inclusive education with tools and methods adaptable for diverse learner needs.



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Training
Module

Project Updates

Virtual Learning Lab

The PREVENT Virtual Learning Lab provides a secure, scalable platform for hands-on, interactive skill-based learning. It allows learners to engage in self-paced coding, lab exercises, and practical tasks in areas such as Artificial Intelligence (AI), Remote Sensing, Robotics, and Internet of Things (IoT). This virtual environment supports real-time feedback and guided learning through web browsers without the need for installing software, making advanced technical education accessible and flexible. The lab enhances learner engagement by offering a consistent, immersive experience adaptable to diverse educational needs.

Key Highlights of the Module:

- Provides a secure and scalable virtual platform for hands-on, interactive learning.
- Supports practical exercises and coding tasks in Artificial Intelligence (AI), Remote Sensing, Robotics, and Internet of Things (IoT).
- Enables self-paced learning with real-time feedback and guidance through a web browser interface.
- Eliminates the need for software installation, making advanced technical skills accessible anywhere.
- Designed to enhance learner engagement with immersive, flexible digital education.
- Adaptable to diverse learner needs, fostering inclusive and effective skill development.



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Virtual
Learning
Lab

Looking Ahead

As we continue to move forward with the PREVENT event, workshops and exhibitions, we want to thank our partners for their commitment and contributions. Your continued support is essential to the success of the PREVENT project, and we are excited to keep you updated on our progress in the months ahead.

Stay connected for more updates and exciting developments in the next edition of our newsletter!

Warm regards,
The PREVENT Team

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A big Thank you to all our Partners

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