



# ETERNAL UNIVERSITY

(WORLD PEACE THROUGH VALUE BASED EDUCATION)

Established under the Himachal Pradesh Government Act No. 3 of 2009. Recognized by UGC, AICTE, INC, NCTE, DSIR, DRDO and NAAC Accredited

Ref. No. EU/VCO/SDG/88/003

Dated: November 23, 2021

Eternal University, Baru Sahib Under the aegis of The Kalgidhar Trust

Presents

A STEM Community Building opportunity by

Akal College of Engineering & Technology

In collaboration with the Incubation & Entrepreneurship Cell "Sarbat da Bhala" labs  
&

Sustainable Development Goal (SDG) Impact CoE

Launch of two Technology Capacity Building Programs aimed at

- promoting Sustainable Agriculture innovations among Women student farmers
- building programming technical foundations of High school girls for generating keen interest in Technology as a career option

Under the aegis of Kalgidhar Trust, Eternal University, organized a Marginal & Small-scale farmer Integration training programme in collaboration with NABARD. With its exceptional feedback and carefully evaluating the COVID-19 norms to be safe, we are now pleased to announce the resumption of our community building and outreach programmes.

Following program is being announced for our local communities who have been deprived of several growth and education opportunities due to COVID-19 aggravating the **digital divide**. It is designed specifically for **promoting STEM in girl students**. The objective of the program is to **bring the exciting field of technology & Artificial Intelligence** and promote **sustainability in education and Agriculture sciences among the girl students** at High school and University graduate level.

## Python Programming Workshops for High school Girl Students

**Objective:** To promote STEM for girl students and provide them access to latest technology with a unique pedagogical approach derived from industry practitioners

### Learning Outcomes:

- Understanding the Computer Science- Career options
- Foundations of Python Programming - Semantics
- Implement 5 Python programs in a lab setting



**How Computers Work** With an introduction by Bill Gates, this series of six short videos is designed to be approachable for everyone and easy to understand. The series explains what makes a computer a computer, how digital information is represented in 1s and 0s, how computer circuits work to manipulate digital information, and how a central processing unit (CPU) and operating system control the inputs, outputs, memory, and hardware of a computer

**Delivery Partner:** Techshilla, Barusahib- The first Edutech Non-profit incubated at Eternal University by the Eternal University alumni girl student and industry mentors. The aim of the startup is to build the capacity of new-age tech like computer programming, AI, and Robotics. It is dedicated for girl students and operates on a unique volunteer chain (pay-forward model) reflecting the value-

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based education of Eternal University. The volunteers are the student community of Eternal University complemented by Industry visiting faculty.

**Eligibility:** 8th- 12th Grade High school GIRL students

**Place:** Saturday 5 PM- 7 PM @Eternal University, Computer Lab

**Certificate:** You will be awarded a certificate by Kalgidhar Trust for gaining programming skills and an opportunity to attend Artificial Intelligence & Robotics Workshops .

## Introduction to AI & Machine Learning using Python in Agriculture

**Objective:** To promote STEM among girl students in non-technical courses specifically aiming to provide them an insight of Artificial Intelligence & Machine Learning application in in derived from industry practitioners

### Learning Outcomes:

- Foundations of Python Programming
- Understanding AI



Introducing How AI Works

**How AI Works:** With an introduction by Microsoft CEO Satya Nadella, this series of short videos will introduce you to how artificial intelligence works and why it matters. Learn about neural networks, or how AI learns, and delve into issues like algorithmic bias and the ethics of AI decision-making.

- Sustainable Entrepreneurship - A primer
- Implement a Machine Learning Model in a Code along with Me series (Guided hands on workshop)

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**Eligibility:** Bachelors & Masters Students: BSc/MSc Agriculture/Agronomics Students any year

**Place:** Sunday 5 PM- 7 PM @Eternal University, Computer Lab (Subjected to change)

**Certificate:** You will be awarded a certificate by Eternal University and The Kalgidhar Trust

  
Vice Chancellor  
Eternal University  
Vice Chancellor  
Eternal University  
Baru Sahib (H.P.) 173101

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