



FIFTH WAVE STEAM EDUCATION INITIATIVE

Abstract

This article presents the Fifth Wave STEaM initiative. This disruptive and holistic integrated learning approach to technology is for students that are curious but don't see themselves in a STEM-related career. The Fifth Wave meets this need for marginalized and underrepresented youth to galvanize STEM education and career opportunities.

Application of the Multi-discipline Model

The success of facilitating student's activities depends on how well STEaM educators have prepared activities that ethical centered to meet the challenges they will face when engaged in design laboratory instruction. Students are actively engaged in participatory activities in STEaM program. This reflects the shift in the paradigm of the role of STEaM educators, the form instruction should take and how it is delivered. The Fifth Wave STEaM education engages in motivational activities that integrate the curriculum to promote "hands-on" and other related experiences that would be needed to help solve problems as they relate to their environment. This more effective approach is a core principle to practice the actual roles in agile product development and prototyping in the society like engineers, designers, and technologists.

WE HAVE PARTNERED WITH EXPERTS IN STEM CAREERS, COMMUNITY AND NON-GOVERNMENT ORGANIZATION.

OUR MISSION IS TO PROVIDE UNDERREPRESENTED YOUTH A STIMULATING HOLISTIC LEARNING ENVIRONMENT THAT GALVANIZES INTEREST AND BELONGING IN SCIENCE AND TECHNOLOGY.

Instruction Modules

Design Thinking | Computing-programming
Blockchain | Innovation in Art | Music-technology | Environmental Science | Social Justice | Entrepreneurship | Robotics | City and Regional Planning-Civil Engineering
Energy | Chemistry | Biotechnology

Student Learning Objectives

- Building confidence-knowing that you are enough
- Know that your voice is heard
- Know your goals are attainable
- Equipping critical tools
- Identify access and the power to achieve your goals
- Success through creating your narrative - rewriting your story
- Responding or reacting in some way such as completing assignments,
- Value, talent, and skills are recognized as taking the knowledge learned and transferred to every day life.
- Goal setting
- Critical Thinking

References

Integrated Learning: Driving Innovation, Dr. Jeannice Fairrer Samani
KEEN Foundation <https://engineeringunleashed.com/>