SLO Presentation

PS
Date: 09-15-2022

ISLO

Civic Engagement

• Students will develop values and beliefs in their role as a member of local, national and global societies to promote truth, fairness and goodwill to others. They will use the democratic process to further their values and beliefs and recognize and accept differing perspectives based on cultural diversity. They will engage in actions which provide service to others and have a positive impact on their local community.

Communication and Expression

• Students will demonstrate the ability to effectively and appropriately communicate their thoughts and ideas both in written and oral forms. They will develop verbal and non-verbal delivery skills, in an appropriate manner, to communicate their ideas as well as evaluate the ideas of others in a wide variety of contexts.

Critical Thinking and Quantitative Reasoning

• Students will demonstrate the ability to recognize assumptions within an argument and actively and skillfully analyze underlying reasoning to develop a conclusion. They will apply qualitative and/or quantitative analysis to solve problems, predict outcomes, test hypotheses, and explore alternatives in an ethical manner.

Information Literacy

• Students will demonstrate the ability to determine when gathering additional information is necessary. They will use appropriate resources and technologies to locate, evaluate and incorporate the information when developing supporting arguments and drawing conclusions. Students will also develop the ability to understand any legal, ethical or social issues regarding the use of information.

Personal Knowledge and Responsibility

• Students will develop the necessary skills to define, maintain and complete their personal educational goals. They will learn to work independently to accomplish personal goals toward realizing their full potential academically, physically and emotionally whether for personal enrichment, further education or career advancement.

Science, Engineering, and Math

PS

PSLO

No PSLOs

CSLO

PS100 - Physical Science of Modern Technology

• Students will be able to demonstrate a non-mathematical understanding of basic MKS units and dimensions.

• Students will be able to demonstrate a non-mathematical understanding of basic mechanics.

• Students will be able to demonstrate a non-mathematical understanding of basic electromagnetism.

• Students will be able to demonstrate a non-mathematical understanding of basic thermodynamics.

• Students will be able to demonstrate a non-mathematical understanding of rudimentary nuclear energy.

• Students will be able to demonstrate a non-mathematical understanding of Chemistry.

• Students will be able to demonstrate a non-mathematical understanding of Earth Science.

• Students will be able to demonstrate a non-mathematical understanding of Astronomy.

PS112 - Physical Science for Elementary School Teachers

• Accurately represent the orbital distances and speeds of the planets in the Solar System

• Assemble simple series and parallel circuits

• Distinguish one element from another via their optical spectra

• Identify prominent stars and constellations by use of a celestial sphere

• Make a rotationally stable mobile

• Manage a physics or astronomy experiment suitable for elementary school students

• Measure objects accurately and determine their densities

- Predict the final temperature of a mixture of hot and cold fluids
- Successful students will be able to predict the motion of an object in freefall
- Trace a ray diagram for simple lenses and mirrors