SLO Presentation

MICR
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

MICR

PSLO

No PSLOs

CSLO

MICR200 - Principles and Applications of Microbiology

• Describe the basic principles of the immune system and its role in fighting against microbial pathogens

• Describe the characteristics of prokaryotic cells, eukaryotic cells, and viruses

• Demonstrate an understanding of the basic fundamentals of microbial genetics and regulation of gene expression

• Explain principles of microbial growth and its regulation by physical and chemical methods and also explain the common mechanisms of antimicrobial resistance

• Describe the causative agent, pathogenesis, symptoms, prevention, transmission and treatment of common microbial diseases.

• In lab, correlate the staining differences of various bacteria to their microscopic anatomy, cell-wall structure, and life cycle

• In lab, correctly identify unknown bacterial cultures using techniques and biochemical tests common to the microbiology laboratory

• In lab, identify the microscopic stages and structures of fungi, protozoa, and helminths