

BOINSTRUMENTATION AND BIOENERGETICS

Course Outcome:

1. Remembering:

Students will be able to recall the basic principles of physico-chemical techniques such as spectroscopy, chromatography, and electrophoresis used in bioinstrumentation.

2. Understanding:

Students will be able to comprehend the energy metabolism processes in living organisms, including glycolysis, Krebs cycle, and oxidative phosphorylation.

3. Applying:

Students will be able to apply the principles of bioinstrumentation techniques such as electrochemical sensors, biosensors, and imaging techniques in various biological systems and research studies.

4. Analyzing:


Students will be able to analyze the data obtained from bioinstrumentation experiments and interpret the results to draw meaningful conclusions about the biological systems under study.

5. Evaluating:

Students will be able to evaluate the advantages and limitations of different bioinstrumentation techniques in terms of sensitivity, accuracy, and reliability in measuring biological parameters.

6. Creating:

Students will be able to design experiments using bioinstrumentation techniques to investigate specific research questions related to bioenergetics and physiological processes in living organisms.

Select Language 

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