Learning Outcomes of Biochemistry M.S

AIM

Biochemistry together with the rapidly developing science and technology is an area of science that exists in everyday life. According to today's understanding of science, healthy living, maintaining a good understanding of diseases and treatment requires knowledge of biochemistry and applications. Therefore, biochemistry provides knowledge not only for student in medicine but also to all fields dealing with biotechnology and health. The purpose of the Master's degree in Biochemistry is to train individuals that will support and contribute the progress in science, biotechnology and its applications.

KNOWLEDGE

Theoretical/Factual

PY 1. Knows the biochemical macromolecular metabolism. Applies and advances the knowledge.
PY 2. Knows the principles of routine and research oriented biochemical technologies.
PY 3. Practical Laboratory Applications (Sampling conditions of various body fluids and tissue samples in health and disease states, reasons of analytical errors, storage conditions of samples, working principles of technologies used in routine and research based studies, determining reference values.)
PY 4. Knows basic biostatistics methods, applies to experimental study results and evaluates.

SKILLS

Cognitive/Practical

PY 5. Knows how to use specific instruments in biochemistry
PY 6. Can access printed and electronic literature and able to follow the advancements in biochemistry and related field.
PY 7. Can integrate and interpret the knowledge gained in biochemistry with knowledge obtained in other fields and can generate new information.

COMPETENCY

Ability to work independently and take responsibility

PY 8. Independantly applies his/her theoretical knowledge, critical thinking skills to the area of study, evaluates the results and writes a report.

Learning Competence

PY 9. Defines a technical or scientific problem either with the help of an advisor or independently, can come up with proposals and solve when needed.
PY 10. Take on responsibility in collaborative studies, contributes and work in harmony.

Communication and Social Competence

PY 11. Follows national and international literature in Biochemistry, presents the work in seminars or publishes in journals.

Field-based Competence

PY 12. Can evaluate and teach biochemical data collection, interpretation, application and declaration respecting cultural, scientific, social and ethical values.
PY 13. Take responsibility in managing, evaluate the results according to the context of quality processes.