

BIOCHEMISTRY

Target group: (Laboratory) technicians, nurses, bachelor students

On completion of the course you will have:

- A basic knowledge of biochemistry

Content:

Theory

- Structure, function and metabolism of biological macromolecules (proteins, carbohydrates, lipids, nucleic acids and their subunits)
- Cell and membranes, structure and function
- pH and buffers
- Enzymes
- Energy metabolism
- Flow of genetic information (replication, transcription, translation and regulation)
- Regulatory mechanisms that contribute to homeostasis in the human body
- **Practice**
- Basic biochemical experiments (two half days)

Schedule:

Total duration	2 weeks
Number of participants	20 (maximum)
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○	film processors
○	ultrasound imaging
○	patient monitoring system
○	spectrophotometers
○	clinical chemistry instruments
○	anesthesia machines
○	autoclaves
○	microscopes
○	dialysis equipment
○	external pacemakers

Schedule:

Total duration	4 modules of 1 week spread over 6 months
Number of participants	24 (maximum)