



**Course catalogue**  
**TTF-PB106 Biology**

Programme	Food Technology and Biotechnology
Level	Bachelor's programme
Academic year	I year
Semester	Autumn Semester
ECTS credits	5 credits
Lecturers	Ass. Prof. Marija Menkinoska PhD Ass. Prof. Tatjana Blazhevska PhD
Language	Macedonian
Objective	Introduction to basic concepts in the field of biology.
Content	Organic molecules in a cell. Structure and chemical composition of prokaryotic and eukaryotic cell. Main differences between prokaryotic and eukaryotic cell organization and function of cellular organelles. Differences in structure between plant and animal cell. Types of organelles. Cell membrane – structure and function. Endoplasmatic reticulum. Golgi apparatus. Lisosomes. Vacuoles. Peroxisomes. Cytoskeleton. Cilia and flagella. Cellular connections in animal and plant tissues. Plant cell wall. Tissue structure - function and development, organization of tissues in organs systems in humans .
Learning materials	Reading from the primary literature are referenced in class and posted to the course website.