	UNIVERSITY OF BANJA LUKA **FACULTY OF MEDICINE**	
	UNDERGRADUATE STUDIES	
	Study Programme of: **MEDICINE**	

Course Unit Name	**Mechanical ventilation**			
Type of Course Unit	**Applied Professional**			
Course Unit Code	**Course Unit Status**	**Semester**	**Class Workload**	**Number of ECTS Credits**
TO BE DESIGNATED	ELECTIVE	IX	1L + 1P	2
Staff:	Prof. Pedja Kovacevic, PhD, Full Professor; Sasa Dragic, PhD, Assistant Professor; Danica Momcicevic, PhD, Assistant Professor			

Eligibility Requirements:	**Form of Requirements:**
Course units of Neurology, Infectious Diseases, and Internal Medicine having been passed	In accordance with the Rules of Studying at I Cycle Academic Studies

Goals of the Course Unit:

The course unit aims at introducing the students to the fundamentals of mechanical ventilation, both invasive and non-invasive. In addition, the students are to be introduced to the interactions of mechanical ventilation and the respiratory system, as well as other organ systems.

Learning Outcomes (acquired knowledge):

The students will have been able to understand the fundamentals of mechanical ventilation and to implement it in critically ill patients.

Contents of the Course Unit:

Anatomy and physiology of breathing, respiratory insufficiency, oxygen therapy, maintaining respiratoy tract unobstructed, non-invasive mechanical ventilation, invasive mechanical ventilation, basic modes of mechanical ventilation, effects of mechanical ventilation on respiratory tract, positive end-expiratory pressure, systemic effects of mechanical ventilation, disconnection from mechanical ventilation, fundamentals of extracorporeal membrane oxygenation

Teaching Methods:

The classes are given in the form of lectures and practical classes, with continuous revision through practicals, seminars, midterms, office hours, and independent students' work.

Literature:

Основи интензивне медицине, Пеђа Ковачевић и група аутора, Главни и одговорни уредник: Пеђа Ковачевић, Медицински факултет Бања Лука, Бања Лука, 2022

Examination Forms:

Pre-Exam Duties		**Final Exam**		**Total Points**
Attendance	**10**			**100**
Practical Midterm	**40**	**Oral**	**50**	

Note for the Course Unit:

Syllabus Designer: Prof. Pedja Kovacevic, PhD, Full Professor