

	UČNI NAČRT PREDMETA/COURSE SYLLABUS
Predmet	Obvladovanje sodobnih tehnologij v enoti intenzivne terapije
Course title	Mastery of Modern Technologies in the Intensive Care Unit

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Zdravstvena nega / 2. stopnja	Ni smeri študija	2. letnik	3.
Nursing Care / 2 nd Cycle	No study field	2 nd year	3 rd

Vrsta predmeta/Course type modularni/module

Univerzitetna koda predmeta/University course code 2ZN 2 M3 UN3

Predavanja	Seminar	Sem. vaje	Lab. vaje	Teren. vaje	Samost. delo	ECTS
Lectures	Seminar	Tutorial	Laboratory work	Field work	Individ. work	
20		30			130	6

Nosilec predmeta/Lecturer: doc. dr. Tomislav Mirković

Jeziki/ Languages:	Predavanja/Lectures:	slovenski/Slovenian
	Vaje/Tutorial:	slovenski/Slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisites:
<ul style="list-style-type: none"> Vpis v drugi letnik študijskega programa. Študent mora pred izpitom pripraviti in predstaviti ter zagovarjati projektno/raziskovalno nalogo. 	<ul style="list-style-type: none"> A prerequisite for inclusion is enrolment in the second year of study. Student has to prepare, present and defend a project/research paper before the exam.

Vsebina:	Content (Syllabus outline):
<p><i>Sodobni medicinski pripomočki.</i></p> <ul style="list-style-type: none"> Endotrahealni tubus, kanila, maske za aplikacijo kisika. Razbremenilna in hranilna želodčna sonda. Urinski kateter s temperaturnim senzorjem. Osrednji venski, arterijski in pljučni katetri. Različni seti (torakalna punkcija in drenaža, lumbalna punkcija, kranialni drenažni sistemi in abdominalni drenažni sistem). 	<p><i>Contemporary medical gadgets.</i></p> <ul style="list-style-type: none"> Endotracheal tube, tracheal cannula, oxygen mask. Feeding stomach tube. Foley urinary catheter with temperature sensor. Central venous, arterial and pulmonary catheters. Different sets for deployment (a thoracic set and drainage, a spinal set, cranial drainage systems and abdominal drainage system).

<ul style="list-style-type: none"> • Sodobni pripomočki za preprečevanje nastanka razjed zaradi pritiska (dinamične antidekubitalne blazine). • Sodobni pripomočki in materiali za nego in zaščito akutnih in kroničnih ran. <p><i>Sodobni medicinski aparati in namen uporabe.</i></p> <ul style="list-style-type: none"> • EKG monitor. • Pulzni oksimeter in Kapnograf. • Obposteljni mehanski ventilator in transportni ventilator. • Bronhoskop. • Defibrilator. • Infuzijske črpalke in perfuzorji. • Grelci za krvne pripravke. • Hladilne in grelne blazine. • Aparature za hemodinamski monitoring (Swan-Ganz kateter, Picco, Lidco, EV 1000). • Videolaringoskopija kot pripomoček za orotrahealno intubacijo (C-Mac). • Aparatura za merjenje znotraj lobanjskega pritiska, Bispectral index, Nirs monitoring, Licox, Hemedex). 	<ul style="list-style-type: none"> • Contemporary gadgets for prevention of pressure ulcers (dynamic antidecubitus pillows). • Contemporary gadgets and materials for nursing care and protection of acute and chronic wounds. <p><i>Modern medical devices and the purpose of use.</i></p> <ul style="list-style-type: none"> • ECG monitor. • Pulmonary oxymeter and Kapnograph. • Medical/mechanical ventilator and transport ventilator. • Bronchoscope. • Defibrillator. • Infusion pumps and perfusers. • Heaters for blood products. • Cooling and heating cushions. • Hemodynamic monitoring equipment (Swan-Ganz catheter, Picco, Lidco, EV 1000). • Videolaryngoscopy as a tool for orotracheal intubation (C-Mac). • Measurement apparatus of the intracranial pressure, Bispectral index, Nirs monitoring, Licox, Hemedex).
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Temeljna literatura in viri/Readings:

Temeljna literature/Basic literature:

- Kodila, V. (2008). *Osnovni vodnik po kirurški enoti intenzivnega zdravljenja priročnik za medicinske sestre in zdravstvene tehnike*. Ljubljana: Univerzitetni klinični center, kirurška klinika, klinični oddelek za anesteziologijo in intenzivno terapijo operativnih strok.

Navodila in prospekti za posamezne aparature in pripomočke, ki se uporabljajo v enoti intenzivne terapije.

Cilji in kompetence:

Učna enota prispeva predvsem k razvoju naslednjih splošnih in specifičnih kompetenc:

- sposobnost povezovanja znanja z različnih področij, na katerih temelji zdravstvena nega življenjsko ogroženega bolnika v kirurški intenzivni medicini,

Objectives and competences:

The learning unit mainly contributes to the development of the following general and specific competences:

- the ability to connect knowledge from different areas on which the health care of a life-threatening patient is based in the ICU,
- knowledge of medical technical apparatuses in the ICU and their importance,

<ul style="list-style-type: none"> • poznavanje medicinsko tehničnih aparatov v intenzivni medicini in njihov pomen, • usposobljenost in rokovanje z medicinsko tehničnimi pripomočki; priprava in namestitev k bolniku, • poznavanje delovanja medicinsko tehničnih aparatov ter skrb za ustrezno čiščenje, • usposobljenost za ustrezno uporabo niza veščin, intervencij in zagotavljanje optimalne zdravstvene nege, • usposobljenost za izvajanje nujne medicinske pomoči, • usvojitev znanja s področja zdravstvene nege in zmožnost apliciranja teoretičnega znanja pri strokovnem delu, • usposobljenost za učinkovito komuniciranje (vključujoč uporabo tehnologij) s pacienti, z družinami in s socialnimi skupinami v normalnem in specifičnem komunikacijskem okolju/vzdušju, • usposobljenost za mentorsko delo, izobraževanje, podporo, nadziranje študentov zdravstvene nege in drugih zdravstvenih delavcev. 	<ul style="list-style-type: none"> • qualifications and handling of medical devices; preparation and installation for the patient, • knowledge of the operation of medical devices and care for proper cleaning and maintenance, • competence for the proper use of a range of skills, interventions and the provision of optimal nursing care, • qualification for execution of emergency medical service, • the adoption of knowledge in the field of nursing and the ability to apply theoretical knowledge in professional work, • competence for effective communication (including the use of technologies) with patients, families and social groups in a normal and specific communication environment / atmosphere, • qualifications for mentoring, education, support, supervision of nursing care students and other healthcare professionals.
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Predvideni študijski rezultati:

Študent/študentka:

- spozna in se usposobi za racionalno, varno in učinkovito uporabo sodobnih medicinskih pripomočkov (skladno z bolnikovimi potrebami),
- spozna sodobne medicinske aparature, uporabljane v enoti intenzivne terapije,
- se usposobi za varno uporabo sodobnih medicinskih aparatov pri življenjsko ogroženem bolniku,
- se usposobi za izvajanje nadzora in ZN bolnika, ki potrebuje sodobne medicinske aparature in pripomočke v času zdravljenja v enoti intenzivne terapije.

Intended learning outcomes:

Students:

- get to know and become qualified for the rational, safe and effective use of modern medical devices (in accordance with the patient's needs),
- recognize modern medical devices used in the intensive care unit,
- are trained for the safe use of modern medical devices in a life-threatening patient,
- are qualified to exercise control and nursing care of the patient who needs modern medical devices and gadgets during ICU treatment.

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov),
- *seminarske vaje*: priprava, predstavitev in uspešen zagovor projektne/raziskovalne naloge,
- *konzultacije*.

Learning and teaching methods:

- *lectures* with active student participation (explanation, discussion, questions, examples, problem solving);
- *tutorial*: preparation, presentation and a successful defence of a project/research paper,
- *consultations*.

Načini ocenjevanja:

Delež (v %)

Weight (in %)

Assessment:

Načini:	Delež (v %)	Assessment:
<ul style="list-style-type: none"> • izpit • izdelava, predstavitev in zagovor projektne/raziskovalne naloge 	50 % 50 %	Types: <ul style="list-style-type: none"> • exam • preparation, presentation and defence of the project/research paper
Ocenjevalna lestvica: ECTS.		Grading scheme: ECTS.