

Informačný list predmetu

Vysoká škola: Univerzita Komenského v Bratislave	
Fakulta: Prírodovedecká fakulta	
Kód predmetu:	Názov predmetu: MARINE SCIENCES Physical Oceanography Proxy and collecting data
Druh, rozsah a metóda vzdelávacích činností: prednáška, cvičenie	
Forma výučby: prezenčná	
Odporúčaný rozsah výučby (v hodinách): 15 hodín	
Týždenný: bloková výučba	
Za obdobie štúdia: 15 hodín	
Metóda štúdia: 15-hour course, takes place in full-time (or combined with distance) form through a combination of presentation, problem and cooperative method of teaching.	
Počet kreditov: 5	
Odporúčaný semester/trimester štúdia: 4	
Stupeň štúdia: 1	
Podmieňujúce predmety: -	
Podmienky na absolvovanie predmetu: Students solve problem tasks. The final evaluation consists of the evaluation of the test of practical problem tasks and basic theoretical knowledge. The award of the subject evaluation is conditioned by 100% of the submitted final assignments and the completed attendance (max. 2 justified absences). A – excellent 100 - 96 % B – above the everidge standard 95 - 87 % C – normal reliable work 86 - 80 % D – acceptable work 79 - 65 % E - lesser acceptable work 64 - 60 % Course evaluation will be given after the course.	
Výsledky vzdelávania: The basic aim of the course is to understand how the present day ocean works. Students, who follows this course will be embracing the multidisciplinary of oceanology, that most problems cannot be sorted into physics, chemistry and ecology, giving the structure of this course. The students will understand the physics of present day circulation, learn how to measure chemical properties of seawater in theory, grasp principles of sampling in marine science (applicable in other geoscience), study marine ecology, learn the system science approach through ocean and climate coupling, meet practical problems in the form of case studies from coastal management to protecting coral reef.	
Stručná osnova predmetu: The course follows a broad multidisciplinary approach to understand the present day oceans. The term Marine Sciences is used to leave room to discuss practicalities like sampling or monitoring techniques. The approach is three fold, based on the disciplines of physics, chemistry and biology, resulting the modules: Physical Oceanography, Chemical Oceanography, Marine Ecology, Climate change, Paleoceanography – proxy, Collecting data	
Odporúčaná literatúra: Hönisch, Bärbel; Ridgwell, Andy; Schmidt, Daniela N.; Thomas, E.; et al. (2012). "The Geological Record of Ocean Acidification". Science. 335 (6072): 1058–1063.	

Pinet, Paul R. (1996). Invitation to Oceanography. West Publishing Company. pp. 126, 134–135.

Stewart, R. H., 2008, Our Ocean Planet: Oceanography in the 21st Century. A New Oceanography Book for College Students. <http://oceanworld.tamu.edu/ocean401/>

Barnes, R. S. K., and Hughes, R. N., 1999, Marine Ecology: Blackwell Science, no. ISBN 0-86542-834-4, p. 1-286.

Paytan, A., 2006, Marine Chemistry. <http://ocean.stanford.edu/courses/bomc/cnotes.html>

Sverdrup, Harald Ulrik; Johnson, Martin Wiggo; Fleming, Richard H. (1942). The Oceans, Their Physics, Chemistry, and General Biology. New York: Prentice-Hall.

Jazyk, ktorého znalosť je potrebná na absolvovanie predmetu:

English language in combination with Slovak (most of the lectures through a foreign lecturer and study literature in English)

Poznámky: Due to the limited capacity of the paleontological classroom, the exercises can take place in groups with a maximum of 15 students in each group.

Hodnotenie predmetov

Celkový počet hodnotených študentov: uvádza sa reálny počet hodnotených študentov od zavedenia predmetu po jeho poslednú aktualizáciu

A	B	C	D	E	FX
a	b	c	d	e	f

Vyučujúci:

Natália Hlavatá Hudáčková, Báldi Katalin

Dátum poslednej zmeny:

Schválil: prof. RNDr. Daniela Reháková, CSc.