

COURSE OF DOCTORAL STUDIES

Course title	Field of science (branch) code	University / Faculty	Institute / Department
Theoretical and applied stratigraphy	Natural Sciences (Geology) N 005	Vilnius University / Faculty of Chemistry and Geosciences	Institute of Geosciences /
Study methods	Number of credits allocated	Study methods	Number of credits allocated
Lectures		Seminars	
Individual work	11	Consultations	
Course annotation			
<p>The aim of the course is to acquaint doctoral students with the methodological basics of stratigraphic research. Students are introduced to the scientific principles of stratigraphy, the basics of stratigraphic classification, categories of stratigraphic units and global, regional and local stratigraphic schemes. PhD students will be able to identify and understand the nature of lithostratigraphic, biostratigraphic, sequence stratigraphic, magnetostratigraphic, chemostratigraphic, cyclostratigraphic, geochronological and other units, will be able to solve regional and global correlation issues, create local and regional stratigraphic schemes. Students will be able to read geological and make paleogeographic maps, will be able to justify the units of the general stratigraphic scale and correctly explain their relationship with local and regional units. In addition, doctoral students will be introduced to the International stratigraphy manual and the recommendations of the Stratigraphic Codes of individual states. Doctoral students will know the main stratigraphic schemes of Lithuania.</p>			
Required readings			
Grigelis A., Kondratienė O., Paškevičius J., Jankauskas T., Datkūnas J. 2002. Lietuvos stratigrafijos vadovas. Lietuvos geologijos tarnyba, 163 p.			
Jankauskas T. 2005. Teorinė ir taikomoji stratigrafija. Vilniaus universiteto leidykla, 168 p.			
Gradstein, F. M., Ogg, J. G., Shmitz, B. M., Ogg, G. M. 2020. Geological Time Scale 2020. 2 tomai, 1390 p. Elsevier.			
Consulting lecturers Name, surname	Degree	The most important works in the field of science (branch) have been published during the last 5 years	
Sigitas Radzevičius	Dr.	Radzevičius S. , Spiridonov A., Brazauskas A., Dankina D., Rimkus A., Kaminskis D., Meidla T., Ainsaar L. 2016. Integrated stratigraphy, conodont turnover and palaeoenvironments of the upper Wenlock and Ludlow in the shallow marine succession of the Vilkaviškis – 134 core (Lithuania). Newsletters on Stratigraphy, 49(2): 321–336.	

		<p>Radzevičius S., Tumakovaitė B., Spiridonov A. 2017. Upper Homeric (Silurian) high-resolution correlation using cyclostratigraphy: an example from western Lithuania. <i>Acta Geologica Polonica</i>, 67(2): 307–322.</p> <p>Radzevičius, S., Raczynski, P., Užomeckas, M., Norkus, A., Spiridonov, A. 2019. Graptolite turnover and $\delta^{13}\text{C}_{\text{org}}$ excursion in the upper Wenlock shales (Silurian) of the Holy Cross Mountains (Poland). <i>Geologica Carpathica</i>, 70(3): 209–221.</p> <p>Radzevičius, S. Raczynski, P., Whittingham, M. 2020. The Lower Homeric (Silurian) <i>Pristiograptus</i> from Zdanów section of Bardo Mountains (Sudetes, Poland) and its palaeobiogeographic implications. <i>Bulletin of Geosciences</i> 95(2): 231–242.</p>
Approved by the doctoral committee of Geology (N 005) on 1 st of December 2022 (No. (7.17 E) 15600-KT-467).		
Committee Chairman prof. dr. Sigitas Radzevičius		