Course unit code	11313
Course unit title	INTRODUCTION TO ENVIRONMENTAL
	GEOCHEMISTRY AND GEOCHEMICAL MAPPING
Name and title of lecturer	Donatas Kaminskas, dr., prof. assoc.
Department, Center	Department of Geology and Mineralogy
Faculty	Faculty of Natural Sciences
Level of course	Tuculty of indicator percinces
Semester	Autum
ECTS credits	<u>5</u>
VU credits	5
V C Credits	total <u>32</u>
	Lectures: <u>32</u>
	Seminars:
	Classes
	Laboratory work
	Consultations
Prerequisites	Desirable: Basics in Geology and Geochemistry
Language of instruction	english
<b>Objectives and learning outcomes</b>	Students will learn to apply theoretical essentials of
	geochemistry and geology for both natural and
	"technogenic" environment evaluation as well as obtain
	basic skills on geochemical mapping at various
	geochemical mapping scales
Course unit content	Main topics:
	Regularities of natural and man-made distribution of
	chemical elements;
	Sampling, sampling media and sample preparation;
	Brief summary of modern analytical techniques in
	geochemistry;
	Introduction to geochemical data statistical analysis;
	Methodology of geochemical mapping: regional and
	local scales;
	Geochemical mapping in Lithuania.
Reading list	Albarede F., 2003. Geochemistry (An Introduction).
	Cambridge university press. 248 p.
	<b>Faure G,</b> 1998. Principles and applications of
	geochemistry (2nd Editon). Prentice Hall. 600 p.
	Gill R. (ed.) 2002. Modern Analytical Geochemistry. An
	introduction to Quantative Chemical Analysis Techniques
	for Earth, Environmental and Material Scientists. Pearson
	Education. 330 p.
	Tucker M., ed. 1985. Techniques in Sedimentology.
	Blackwell Scientific publications. London. 394 p.
	<b>Rollinson H.</b> , 1995. Using geochemical data: evaluation,
	presentation, interpretation. Longman Ltd. 352 p.

Additional Reading List	Geochemical Atlas of Lithuania
	Geologija (journal)
	Geochemical atlas of Panevezys county
	ON-line: William M. White "Geochemistry"
	(http://www.imwa.info/Geochemie/Chapters.HTML)
Teaching methods	Lectures, discussions
<b>Attendance requirements</b>	Attendance not required
<b>Assessment requirements</b>	Written- oral examination
Assessment methods	evaluated using grading scale from 1(very poor) to
	10(excellent)
<b>Approved by the Department</b>	
<b>Approved by the Committee of</b>	
the Study Programme	