COURSE OF DOCTORAL STUDIES

Course title	D 1	1 0 1 1		
	Field	d of science (branch) code	University / Faculty	Institute / Department
Soil cover structure of Lithuania	Natur	ral Sciences (Physical Geography) N 006	Vilnius University / Faculty of Chemistry and Geosciences	Institute of Geosciences / Department of Geography and Land management
C4	N1.			Noushan of an dite all a set of
Study methods	Numbe	er of credits allocated	Study methods	Number of credits allocated
Individual work		8	Seminars	1
Consultations		1		
Course annotation				
	is to age	maint the destard stud	ant in datail with the enotial st	ructure of Lithuanian soil cover and
its spatial features.		quant the doctoral stude	ent in detail with the spatial sti	ucture of Ethnuaman son cover and
The place of soil scien Soil formation. Soil- formation factors. Elec its duration. Soil physical value and use of Lithu Soil in the context of structure of soil cover Lithuanian soil cover groups of Lithuanian	nce in the forming ementary sical prop uanian so time and r. r and its soils. Lit	e science system. phases (solid, liquid, and the typical main score perties and hydrotherma ils. d space. Soil memory, structure. The concep huanian soil regionalize	gaseous and organic) and to oil formation processes of Lith al regime. Soil biogeochemistr its formation, types of record t and main indicators of soil ation.	s relation to anthropogenic factors. heir role in soil functioning. Soil uanian soils. Pedogenesis types and y. Lithuanian soil cover. Economic and carriers. The information field cover and its structure. The main
Required readings	context of	a doctoral dissertation	topic.	
	Irman P	2002. Soil Formation	Second Edition New York Bo	oston, Dordrecht, London, Moscow.
		l description. Fourth ed		
		*	014. Update 2015. Rome	
	ICICIICC U	ase for som resources Δ		
				Luxambourg
Soil Atlas of Europe.	2005. Eu	ropean Soil Bureau Ne	twork. European Commission	
Soil Atlas of Europe. Targulian V.O., Brow	2005. Eu nnikova	ropean Soil Bureau Ne M.A. 2019. Soil Mem	twork. European Commission ory: Theoretical Basics of th	. Luxembourg ne Concept, Its Current State, and
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop	2005. Eu nnikova oment. Eu	ropean Soil Bureau Ne	twork. European Commission ory: Theoretical Basics of th	
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin	2005. Eu nnikova oment. Eu	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52	twork. European Commission hory: Theoretical Basics of th (3):229-243.	ne Concept, Its Current State, and
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Ama Pachiterric Histosol p	2005. Eu nnikova oment. Eu Ig leviciute-	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys	twork. European Commission hory: Theoretical Basics of th (3):229-243.	
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73.	2005. Eu nnikova oment. Eu Ig leviciute- properties	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe	twork. European Commission hory: Theoretical Basics of th (3):229-243. J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London.
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo	2005. Eu nnikova pment. Eu ng leviciute- properties	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe šius J., Buivydaitė V.V	twork. European Commission nory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by ., Gregorauskienė V. 2018. A	ne Concept, Its Current State, and ngevicius J. 2018. The status of
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo	2005. Eu nnikova pment. Eu ng leviciute- properties plungevid of north-e	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe Sius J., Buivydaitė V.V ast Lithuania. <i>Soil Seq</i>	twork. European Commission nory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by ., Gregorauskienė V. 2018. A	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes o Nicolaus Copernicus	2005. Eu nnikova pment. En ng leviciute- properties plungevid of north-e Universit	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198.	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by ., Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain	2005. Eu nnikova pment. Eu ng leviciute- properties olungevid of north-eu University Volungevid of the r	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V niddle cours of the Ne	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by ., Gregorauskienė V. 2018. A <i>nuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i>	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń:
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain Świtoniak, P. Charzyn	2005. Eu nnikova oment. Eu og leviciute- oroperties olungevid of north-eu Universit Volungevid of the ri ński. Tor	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe Sius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V niddle cours of the Ne uń: Nicolaus Copernicu	twork. European Commission hory: Theoretical Basics of th (3):229-243. J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by , Gregorauskienė V. 2018. A <i>nuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> Is University Press, 97-110.	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy Sequences Atlas III. Edited by M.
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., Vo dune in Juodkrantė	2005. Eu nnikova oment. Eu og leviciute- oroperties olungevid of north-e Universit Volungev of the r ński. Tor olungevid old-grow	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys a sinfluenced by diffe žius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V middle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V.V th forest. <i>Soil Sequen</i>	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by 7., Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> 18 University Press, 97-110. V., Gregorauskienė V. Soils o	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky f. Świtoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., Vo glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus	2005. Eu nnikova pment. Eu ng leviciute- properties of north-e Universit Volungevi of the r ński. Tor olungevi old-grow Universit	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V.V th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80.	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by ., Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> is University Press, 97-110. V., Gregorauskienė V. Soils c <i>tuces Atlas II</i> . Edited by M.	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy <i>Sequences Atlas III</i> . Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń:
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., Vo glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V	2005. Eu nnikova oment. Eu ng leviciute- properties of north-e Universit Volungevi of the r ński. Tor olungevi old-grow Universit olungevi	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V ast Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V.V niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V.V th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V.V	twork. European Commission hory: Theoretical Basics of th (3):229-243. J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by , Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> Is University Press, 97-110. V., Gregorauskienė V. Soils c <i>tues Atlas II</i> . Edited by M. V. 2014. Forested areas with	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky f. Świtoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy <i>Sequences Atlas III.</i> Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., Vo glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus	2005. Eu nnikova oment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevi olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe Sius J., Buivydaitė V.V cast Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V.N niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V.N th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V.N ania. <i>Soil Sequences 2</i>	twork. European Commission hory: Theoretical Basics of th (3):229-243. J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by , Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> Is University Press, 97-110. V., Gregorauskienė V. Soils c <i>tues Atlas II</i> . Edited by M. V. 2014. Forested areas with	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy <i>Sequences Atlas III</i> . Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń:
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., Vo glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus	2005. Eu nnikova oment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevi olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe Sius J., Buivydaitė V.V cast Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V.N niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V.N th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V.N ania. <i>Soil Sequences 2</i>	twork. European Commission hory: Theoretical Basics of th (3):229-243. J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by , Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> Is University Press, 97-110. V., Gregorauskienė V. Soils c <i>tues Atlas II</i> . Edited by M. V. 2014. Forested areas with	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky f. Świtoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy <i>Sequences Atlas III.</i> Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., V dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V dune sof South-Easte Copernicus Universit	2005. Eu nnikova oment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevi olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V. niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V. th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V. ania. <i>Soil Sequences 2</i> 23-36.	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by 7, Gregorauskienė V. 2018. A <i>nuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> 18 University Press, 97-110. V., Gregorauskienė V. Soils o <i>laces Atlas II</i> . Edited by M. V. 2014. Forested areas with <i>Atlas</i> . Edited by M. Świtonia	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy Sequences Atlas III. Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental k, P. Charzyński. Toruń: Nicolaus
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., V dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V dunes of South-Easte Copernicus Universit	2005. Eu nnikova oment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevi olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V. niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V. th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V. ania. <i>Soil Sequences 2</i> 23-36.	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by 7., Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> 18 University Press, 97-110. V., Gregorauskienė V. Soils c <i>aces Atlas II</i> . Edited by M. V. 2014. Forested areas with <i>Atlas</i> . Edited by M. Świtonia	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky f. Świtoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy <i>Sequences Atlas III.</i> Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., V dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V dune sof South-Easte Copernicus Universit	2005. Eu nnikova oment. Eu opment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V. niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V. th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V. ania. <i>Soil Sequences 2</i> 23-36.	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by 7, Gregorauskienė V. 2018. A <i>nuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> 18 University Press, 97-110. V., Gregorauskienė V. Soils o <i>laces Atlas II</i> . Edited by M. V. 2014. Forested areas with <i>Atlas</i> . Edited by M. Świtonia	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy Sequences Atlas III. Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental k, P. Charzyński. Toruń: Nicolaus
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., V glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., V dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., V dunes of South-Easte Copernicus Universit	2005. Eu nnikova oment. Eu opment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	ropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe tius J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V. niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V. th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V. ania. <i>Soil Sequences 2</i> 23-36.	twork. European Commission hory: Theoretical Basics of th (3):229-243. 5 J., Liaudanskiene I., Volu- rent land use. <i>Peat</i> , Edited by 7., Gregorauskienė V. 2018. A <i>tuences Atlas IV</i> . Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> 18 University Press, 97-110. V., Gregorauskienė V. Soils c <i>aces Atlas II</i> . Edited by M. V. 2014. Forested areas with <i>Atlas</i> . Edited by M. Świtonia	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy Sequences Atlas III. Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental k, P. Charzyński. Toruń: Nicolaus
Soil Atlas of Europe. Targulian V.O., Bron Prospects for Develop Recommended readin Slepetiene A., Amal Pachiterric Histosol p 49-73. Vaisvalavičius R., Vo moraine landscapes of Nicolaus Copernicus Vaisvalavičius R., Vo glaciolacustrine plain Świtoniak, P. Charzyn Vaisvalavičius R., Vo dune in Juodkrantė Nicolaus Copernicus Vaisvalavičius R., Vo dune of South-Easte Copernicus Universit	2005. Eu nnikova oment. Eu opment. Eu g leviciute- oroperties olungevid of north-e Universit Volungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid olungevid	rropean Soil Bureau Ne M.A. 2019. Soil Mem urasian Soil Science 52 Volungė K., Slepetys as influenced by diffe Sus J., Buivydaitė V.V east Lithuania. <i>Soil Seq</i> ty Press, 183-198. ičius J., Buivydaitė V. niddle cours of the Ne uń: Nicolaus Copernicu čius J., Buivydaitė V. th forest. <i>Soil Sequen</i> ty Press, 2018. 67-80. čius J., Buivydaitė V. ania. <i>Soil Sequences</i> 2 23-36.	 twork. European Commission hory: Theoretical Basics of th (3):229-243. J., Liaudanskiene I., Volu- rent land use. <i>Peat</i>, Edited by Gregorauskienė V. 2018. A <i>nuences Atlas IV</i>. Edited by M V.V., Gregorauskienė V. 20 emunas river, Lithuania. <i>Soil</i> Is University Press, 97-110. V., Gregorauskienė V. Soils c <i>aces Atlas II</i>. Edited by M. V. 2014. Forested areas with <i>Atlas</i>. Edited by M. Świtonia works in the field of science (b the last 5 years 	ne Concept, Its Current State, and ngevicius J. 2018. The status of B. Topcuoglu, M. Turan. London. gricultural areas within hummocky Switoniak, P. Charzyński. Toruń: 18. Forest areas within a sandy Sequences Atlas III. Edited by M. of eastern slope of the Curoni Spit Świtoniak, P. Charzyński. Toruń: in sandy lowlands and continental k, P. Charzyński. Toruń: Nicolaus

	 efflux in different types of soil and land uses. Zemdirbyste-Agriculture, 108(1), 3-10 Kochiieru, M., Feizienė, D., Feiza, V., Volungevičius, J., Velykis, A., Slepetiene, A., Deveikyte, I., Seibutis. V., 2020. Freezing-thawing impact on aggregate stability as affected by land management, soil genesis and soil chemical and physical quality. Soil & Tillage Research. 203 (2020) 104705. Kochiieru M., Lamorski K., Feiza V., Feiziene D., Volungevicius J. 2020. Quantification of the relationship between root parameters and soil macropore parameters under different land use systems in Retisol. International Agrophysics, 34, 201–208.
	 301-308. Šlepetienė A., Volungevičius J., Jurgutis L., Liaudanskienė I., Amalevičiūtė-Volungė K., Šlepetys J., Cesevičienė J. 2020. The potencialo f digestate as a biofertilizer in eroded soils of Lithuania. Waste management, 102, 441-451. Kazlauskaite-Jadzevice A., Tripolskaja L., Volungevicius J., Baksiene E. 2020. Which land use is better suited to increase the fertility of ex-arable sandy soils?
	 Zemdirbyste-Agriculture, 107(3), 203-208 Kryzevicius Z., Karcauskiene D., Alvarez-Rodriguez E., Zukauskaite A., Slepetiene A., Volungevicius J. 2019. The effect of over 50 years of liming on soil aluminium forms in a Retisol. The Journal of Agricultural Science, 157(1). 12-19. Volungevičius J., Feiza V., Amalevičiūtė-Volungė K., Liaudanskienė I., Šlepetienė
	 A., Kuncevičius A., Vengalis R., Vėlius G., Prapiestienė R., Poškienė J. 2019. Transformations of different soils under naturl and anthropogenized land management. Zemdirbyste-Agriculture, 106(1), 1-14, Kochieru M., Lamorski K., Feiza V., Feizienė D., Volungevičius J. 2018. The effect
	 Kochleru M., Lamorski K., Feiza V., Feiziene D., Volungevicius J. 2018. The effect of soil macroporosity, temperature and water content on CO₂ efflux in the soils of different genesis and land management. Zemdirbyste-Agriculture, 105(4), 291-298. Volungevicius J., Amaleviciute K., Versuliene A., Feiziene D., Feiza V., Slepetiene A., Liaudanskiene I., Vaisvalavicius R. 2018. The effects of agrogenic transformation on soil profile morphology, organic carbon and physico-chemical properties in Retisols of Western Lithuania. Archives of Agronomy and Soil Sciences, 64(13), 1910-1923.
Approved by the Doctora 610000-KT-24	l Committee for Physical Geography (N006) on 9th of March 2021, protocol no. (4.20 E)

Committee Chairman assoc. prof. dr. D. Pupienis