Title:	Introduction to Topology
Lecture hours:	30
Study period:	winter or summer
(summer/winter)	
Number of credits:	6
Assessment methods:	oral and written exam
Language of instruction:	English
Prerequisites:	basic set theory, basics of calculus
Course contents	Matria grasses definition and examples. Convergence in matria spaces. Open and
Course content:	closed subsets of metric spaces; interior, closure and boundary of sets. Metric
	products of metric spaces. Continuous and uniformly continuous mappings.
	Homeomorphisms and isometries. Complete spaces; theorems of Banach, Cantor
	continuous maps on compact and connected metric spaces; compactness in
	Euclidean spaces.
Learning outcomes:	A student should demonstrate knowledge of basic properties of subsets of metric
	spaces, various sorts of metric spaces and continuous functions defined on them. A student also should prove some basic propositions concerning metric spaces and its
	properties.
Name of lecturer	Prof Taras Radul
Name of recturer.	
Contact (email address):	tarasradul@yahoo.co.uk
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Literature:	1. S.Kumaresan. 1 opology of Metric Spaces. Alpha Science International Ltd. Harrow 2005
	2. Walter Rudin. Principles of Mathematical Analysis. 3rd ed. International
	Student Edition. McGraw-Hill. 1985
	3. Seymour Lipschutz. Theory and Problems of General Topology. Schaum's
	Outlines Series. McGraw-Hill Education. 2011