Title:	General Topology
Lecture hours:	30
Study pariod.	winter or summer
(summer/winter)	
Number of credits:	6
Assessment methods:	oral and written exam
Language of instruction:	English
Prerequisites:	basic Set Theory, basic Calculus and Topology of Metric Spaces
Course content:	Definition of topology and examples; open and closed sets; bases and sub-bases of
	a topology, weight of topological spaces; interior, closure, and boundary of sets in
	a topological space. Continuous functions and homeomorphisms; topological invariants. Subspaces, quotient spaces and products of topological spaces:
	Tychonoff topology. Compact and local compact spaces, Alexander lemma,
	Tychonoff product theorem. Axioms of separation; normal spaces, Urysohn lemma: Tychonoff spaces and Tychonoff cubes separating families of continuous
	functions, embeddings in Tychonoff cubes. Connected spaces; components and
T coming outcomos	quasi-components; locally connected and linearly connected spaces.
Learning outcomes:	topological spaces, various sorts of topological spaces and continuous functions
	defined on them. A student also should prove some basic propositions concerning
	topological spaces and its properties.
Name of lecturer:	Prof. Taras Radul
Contact (email address):	tarasradul@yahoo.co.uk
Literature:	1. Ryszard Engelking. General Topology. Polish Scientific Publishers. 1977
	2. Seymour Lipschutz. Theory and Problems of General Topology.
	Schaum 5 Outmies Series. Incoraw-filli Education. 2011