Title:	Generalized Integrals (special course)
Lecture hours:	30
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Study period: (summer/winter)	winter or summer
(summer/winter)	
Number of credits:	5
Assessment methods:	test, homework assessment
Language of instruction:	English
Prerequisites:	basics of Real Functions Theory
Course content:	Kurzweil-Henstock integral: McShane integral: Perron integral: classical Perron
Course content.	integral and δ -variation; Denjoy-Perron integral; applications.
Learning outcomes:	By the end of the course students should define and recognize differences between
	various modes of integrability: Newton, Riemann, Kurzweil-Henstock, McShane, Perron Dejoy-Perron She/he should be able to know and apply various criteria of
	integrability and provide examples of nonintegrable and integrable functions.
	She/he should recognize and describe connections between generalized
	continuity of measures.
Name of lecturer:	Dr Piotr Sworowski
Contact (amail address):	niotrus@ukw.edu.nl
Contact (email address).	plott use ukw.cdu.pr
Literature:	Robert G. Bartle, A modern theory of integration, Graduate Studies in
	Mathematics, 32, AMS, Providence 2001
	Russell A. Gordon, The integrals of Lebesgue, Denjoy, Perron, and Henstock,
	Graduate Studies in Mathematics, 4, AMS, Providence 1994