

## Data of Supervisors of the Doctoral School at WPUT

Promoter: (titles and degrees, name and surname)	DSc PhD Kamil Urbanowicz, Associate professor of WPUT
Department:	Department of Mechanics
E-mail:	Kamil.urbanowicz@zut.edu.pl
Contact details:	Faculty of Mechanical Engineering and Mechatronics, Al. Piastów 19, 70-310 Szczecin
ORCID	0000-0001-9626-2053
Scientific discipline or disciplines:	<b>Field of engineering and technical sciences,</b> <b>Discipline: Mechanical engineering;</b> <b>Specialization: Fluid mechanics</b>
Description of research areas (max do 2000 characters)	The main research area is research on unsteady flows occurring in hydraulic (pressure) lines. The research includes numerical simulations (creating own codes and using CFD programs), theoretical work (development of analytical models) and carrying out collaborative experimental research. Recently the interest also are pointed on hydropower plants (on a micro scale based on Archimedes screws) and operational problems of water supply networks.
Keywords (max 10)	CFD numerical fluid mechanics; steady and unsteady flows; cavitation; water supply and hydraulic systems; analytical methods (theoretical fluid mechanics); experimental mechanics; water hammer; hydrodynamics; optimization; hydropower plants