

## Teaching Cartography and GIS During pandemic covid-19 period In Polish Universities.

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Due to the pandemic of covid-19 in March 2020 we had to stop teaching in the way we know it so far. Our teachers and students were not be able to teach and learn on-line immediately. It was a process trial. We have divided the last year and a half into two periods. The first is the first six months when everything was a challenge. The second was the last academic year. We were much better prepared, teachers and our students. After the first period we know, what we can teach on-line and which courses we have to move to next year. In the presentation I will talking about solutions that we have implemented at the University of Wrocław and at some other Polish universities. We provided lectures, exercises and field work. Different forms cause different problems and needs different solutions. Some students was happy they could stay at home, but for others it was very hard to motivate themselves. We observed, that some students did not like spend so many time with computers. They prefer face to face contact. It let them keep concentration. This year, we started teaching in direct student-teacher contact. We are still subject to strict sanitary restrictions, but we take direct contact with other people as very important in education process. Some of the solutions that we have implemented will probably stay with us for longer, i.e. remote lectures with specialists from abroad.