SYLLABUS

1. Course title: **Global tectonics and paleogeographic reconstructions**

2. Course lecturer: **prof. dr hab. Stanisław Mazur**

3. Field, type and level of studies, year of study: **geology, full-time doctoral studies, all years of study**

4. Course character: **elective**

5. Teaching method: **traditional** (on-line)

6. Language: **Polish or English** (depending on the audience)

7. Course type and number of hours: **lecture (12 h)**

8. Estimated amount of student's independent work: **8 h**

9. Total workload and number of ECTS points: **20 h, 1 ECTS**

10. Short description and main focus of the course:
    - surface observations, seismic imaging and mantle convection;
    - seismology, seismic anisotropy;
    - global potential fields, geoid;
    - magnetism and paleomagnetism;
    - Earth's heat flux and heat budget;
    - palaeogeography and plate tectonics reconstruction for past geological epochs.

11. References:
    Kearey, P., Klepeis, K.A. and Vine, F.J., 2009. Global tectonics. John Wiley & Sons.
    Cox, A. and Hart, R.B., 2009. Plate tectonics: how it works. John Wiley & Sons.

12. Educational outcomes:
    KNOWLEDGE: Student has knowledge of the basics of global tectonics / knows and understands the basic processes governing the dynamics of the Earth
    PRACTICAL SKILLS: Can use tectonic models in the interpretation of geological data

13. Evaluation of the educational outcomes: **report**

14. Criteria to complete the course: at least **80%** attendance, final grade depends on the evaluation of the report.