

# MATHEMATICAL STATISTICS

## 2020/2021

### RULES

1. Attending lectures (Mondays, 9:45, held in the form of ZOOM videoconference) is expected. Links and materials are provided on the course page on the moodle platform. Those who do not attend the lecture should go through the material on their own before classes. Some topics will be covered by the lecture only and will not be practiced during classes.
2. Tutorials take place in the form of videoconferences. Links and materials are provided on the course pages on the moodle platform. Participation in classes is mandatory, a student may have at most two unjustified absences during the semester. In case of force majeure or technical obstacles which may not be overcome and which prevent live participation in classes, the student is required to contact the teacher and determine an alternative way of participation in classes (before classes or immediately when the obstacles occur). If the student does not establish alternative participation rules or does not abide by the established rules, he/she fails the subject (fails classes and does not have the right to take the exam neither in the first nor in the second term).
3. The class grade is based on the sum of points obtained from:
  - three tests (20 points each);
  - homework assignments (20 points);
  - class activity (20 points).
4. The tests will be held on the moodle platform on March 25<sup>th</sup>, May 6<sup>th</sup> and June 3<sup>rd</sup> (Thursdays) at 9:00 AM, simultaneously for all tutorial groups. The retake of these tests will take place on August 31<sup>st</sup>, at 9:00 AM. The tests will require providing solutions to problems.
5. Homework assignments will be posted on the course webpage and should be returned on the date specified. Each homework assignment may be corrected exactly once.
6. The class teacher will divide the students from each class into subgroups and will assign problems to solve to each subgroup before each class. Each subgroup is required to jointly prepare and present the solution to their problems during classes. Not preparing a presentation of the solution or not presenting it leads to a zero mark for the specific activity for each subgroup member. The presentation scores influence the activity score.
7. The class grade will be based on the sum of points from all the tests and homework assignments and class activity. In order to obtain a positive class grade, a total of at least 50 points must be obtained. In order to participate in the final exam, a student must have a positive grade from classes.
8. The final exam will consist of 8 problems, worth 2 points each and will be held on the moodle platform. The exam grade = (the number of points obtained from the exam)/3 (i.e., the exam result is a rational number from the range [0, 5.33]).
9. The final grade for the course is calculated from the formula:  $1/3 \cdot \text{class grade} + 2/3 \cdot \text{exam grade}$ , and rounded to the standard scale: 2, 3, 3.5, 4, 4.5, 5, 5! using the following thresholds:  
3 – [2.5; 3.25), 3.5 – [3.25; 3.75), 4 – [3.75; 4.25), 4.5 – [4.25; 4.7), 5 – [4.7; 5], 5! – more than 5.
10. The exam covers material from both the lectures and classes. The material needn't be discussed in both. The exact range will be specified at the end of the semester.
11. Students who repeat the course must repeat classes.
12. Suggested readings:
  - lecture notes (to be distributed online throughout the course on the course webpage, [www.wne.uw.edu.pl/ajanicka/mathematical-statistics](http://www.wne.uw.edu.pl/ajanicka/mathematical-statistics));
  - Wackerly, D., Mendenhall, W., & Scheaffer, R. (2007). *Mathematical statistics with applications*. Cengage Learning. (available in the Faculty library and online)