

**Lecture/Tutorials:** Magdalena Musielak

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### Attendance

- Lecture and tutorials attendance is **mandatory**. If you miss a tutorial you have up to 7 days to have your absence excused. You must present the instructor with a *legitimate* reason supported by a letter/note from a person with an appropriate authority, e.g. a doctor. Legitimate excuses include medical or family emergencies, but not oversleeping or one-day illness.
- You are **allowed to miss two tutorials** without presenting a legitimate reason. Having more than two unexcused absences is equivalent with dropping the class (and having to retake it next year). Coming to class more than 15 minutes late twice, will count as one absence.
- Missing 4 consecutive classes results in being removed from the register.
- Regardless of attendance, you are responsible for all material covered in class, and you are expected to be aware of all announcements made in class.

### Assessment

- **Tests (10pts)**. During the semester there will be two short written tests each worth 5 pts. Unexcused absence during the test results in 0 pts. Retaking a test to improve your score is not possible. If you miss a test due to a legitimate reason, you will have an opportunity to take a make-up test. Make-up tests will be scheduled at the discretion of the instructor.

<i>Tests</i>	<i>Topics</i>
T1	Exponential and logarithmic functions.
T2	Trigonometric functions.

- **Activity Points (+5pts)**. During tutorials you may collect up to 5 extra points for class participation, extra assignments etc.
- **Tutorials participation ( $\leq 0$ pts)**. You receive points for active participation, lack thereof will result in point deductions. You are expected to be prepared for the tutorials, i.e. you must be familiar with the current (and past) material covered in lecture. If you come to class unprepared, you may receive negative points. Moreover, refusal to participate (i.e. go the blackboard when asked), disrupting class by talking too much with your colleagues may also result in negative points.
- **Cumulative Test (30pts)**, will cover all the material covered in class. All students may take the Test regardless of their tutorial score. To pass the Test you must score at least 12 pts (40%). Unexcused absence during the Test results in 0 pts. If you miss the Test due to a legitimate reason, you will have an opportunity to take a make-up test. Make-up tests will be scheduled at the discretion of the instructor.
- **Repeat Cumulative Test (30pts)**. If you fail the Cumulative Test or will not collect the total of at least 20 pts, you may take the Repeat Cumulative Test during the repeat session.

### Grading scheme

- If you pass the Cumulative Test, then all the points you collected will be added and your final grade will be assigned according to the following table:

Pts	20–23	24–27	28–31	32–35	36–
Grade	3	3,5	4	4,5	5

- If you take the Repeat Cumulative Tests then the final grade is based solely on the points scored on this Test and will be assigned according to the following table:

Pts	0–14	15–20	21–23	24–26	27–29	30–
Grade	2	3	3,5	4	4,5	5

### Calculator policy

Only simple arithmetic calculators are allowed on tests (calculators than can perform only the four basic arithmetic operations, and perhaps also calculate a square root). The use of scientific, graphing, cell phone calculators, tablets, smartphones, and the likes, is not allowed on tests.

### Academic integrity

The highest level of academic honesty and integrity is expected. Any form of cheating during a will result in a zero score for that test. Any form of cheating during the Cumulative Test will result in failing the class.

### Other

- eCourse on Moodle *WETI (Inżynieria Danych) - Matematyka 2017/18 (M.Musielak)*, will contain slides from the lecture, this syllabus, tutorial problems, etc. and links to other resources.

### Tentative schedule

#### **Lecture**

No.	Topic	No. of hours
1	Review of polynomials, rational and power functions.	1
2	Exponential functions. Exponential equation and inequalities. Logarithmic function. Logarithms and their properties. Logarithmic equations and inequalities.	4
3	Trigonometric functions of any angle. Graphs of trig functions. Trig identities. Trigonometric equations and inequalities. Inverse trigonometric functions.	6
4	Number sequences. Monotonicity, boundedness, limits. Properties of convergent sequences. Squeeze theorem.	4

### Literatura

1. *Matematyka. Podstawy z elementami matematyki wyższej.* Praca pod redakcją Barbary Wikeł, Wydawnictwo Politechniki Gdańskiej
2. *Zbiór zadań z matematyki,* K. Jankowska, T. Jankowski, Wydawnictwo PG, 2010;
3. *Algebra i analiza matematyczna dla licealistów i kandydatów na wyższe uczelnie,* W. Żakowski, WNT, Warszawa 1999
4. *Analiza matematyczna 1* Marian Gewert, Zbigniew Skoczylas, Oficyna Wydawnicza GiS.