

Program kurzu Školení matematické angličtiny (projektu Math4U z programu ERASMUS+)

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Kurz se koná v místnosti EB226 (budova Nová FEI, Vysoká škola báňská – Technická univerzita Ostrava)

Pondělí 19. 6.

12:00 – 13:00	Lunch break (Kavárna Kovork)
13:00 -13:45	Elementary arithmetics Logic and sets
13:55 – 14:40	Polynomials and fractions Expressions with powers and roots
14:40 - 15:00	Coffee break
15:00 – 15:45	Absolute value Percent problems
15:55 – 16:40	Linear equations and inequalities Quadratic equations and inequalities (Higher degree equations and inequalities)

Úterý 20. 6.

9:00 – 9:45	Systems of equations and inequalities
9:55 – 10:40	Rational equations and inequalities Absolute value equations and inequalities
10:40 – 11:00	Coffee break
11:00 – 11:45	Radical equations and inequalities Equations and inequalities with parameters
11:55 – 12:40	Properties of functions Linear functions
12:40 – 13:45	Lunch break (Kavárna Kovork)
13:45 – 14:30	Quadratic functions Functions with absolute values
14:40 – 15:25	Power and radical functions Rational functions, inverse proportionality
15:25 – 15:45	Coffee break
15:45 – 16:30	Exponential functions Logarithmic functions Exponential equations and inequalities Logarithmic equations and inequalities

Středa 21. 6.

9:00 – 9:45	Angles, arcs and sectors Sine, cosine, tangent and cotangent
9:55 – 10:40	Trigonometric equations and inequalities
10:40 – 11:00	Coffee break
11:00 – 11:45	Triangles Polygons Circles
11:55 – 12:40	Lines and planes: intersecting, perpendicular, parallel Lines and planes: distances and angles
12:40 – 13:45	Lunch break (Kavárna Kovork)
13:45 – 14:30	Volume and surface area formulas Symmetry and geometric transformations
14:40 – 15:25	Points and vectors Analytic geometry in a plane Analytic geometry in a space
15:25 – 15:45	Coffee break
15:45 – 16:30	Conics

Čtvrtek 22. 6.

9:00 – 9:45	Complex numbers in algebraic, trigonometric and exponential form Moivre's theorem
9:55 – 10:40	Quadratic equations with complex roots Binomial equations
10:40 – 11:00	Coffee break
11:00 – 11:45	Introduction to sequences Arithmetic sequences Geometric sequences
11:55 – 12:40	Limit of a sequence Infinite series
12:40 – 13:45	Lunch break (Kavárna Kovork)
13:45 – 14:30	Combinatorics
14:40 – 15:25	Probability Statistics
15:25 – 15:45	Coffee break
15:45 – 16:30	Přednáška externího přednášejícího – Math and Games (Petr Kovář - Katedra aplikované matematiky, VŠB – TU Ostrava)

Pátek 23. 6.

9:00 - 9:45	Limits and continuity Derivative
9:55 – 10:40	Applications of derivatives
10:40 - 11:00	Coffee break
11:00 – 11:45	Přednáška externího přednášejícího – Primitive function and Definite integral (Jaromír Kuben – Univerzita obrany, Brno)
11:55 – 12:40	Přednáška externího přednášejícího – Applications of definite integral (Jaromír Kuben – Univerzita obrany, Brno)
12:40 – 13:45	Lunch break (Kavárna Kovork)