



JOHN WESLEY THEOLOGICAL COLLEGE
COURSE TEMATICS



Course: Biometry	Course type: seminar	Credits: kreditszám	Course ID: tantárgy kódja
Course responsible:	Programme type: full time	Hours/Semester 12	Assessment: exam
Course objectives: Students will be presented the full experience of designing experiments, analyzing data (provided by the instructor or the student), and presenting the statistical results in standard scientific format (tabular, graphical). Students will work with datasets from their own research specialties.			
Competencies to be improved: Knowledge: T8 Ability: K5, K8 Attitude: Autonomy and responsibility: F3			
Compulsory literature: Educational material from course			
Recommended literature:			
Course content: <ul style="list-style-type: none">● Stages of statistical work, basic concepts, basic knowledge of biometrics.● Estimation methods (average, sum of values, basic population ratio, quotient), statistical samples.● Hypothesis testing (type 1 and type 2 errors).● Sampling (random and non-random procedures)● Calculation of variance, standard deviation.● Calculation of the mean value and statistical tests, error limits.● Calculation and interpretation of the confidence limits of the mean value.● Comparison of two mean values, analysis of outliers.● Statistical tests of variance.● Comparison of standard deviations. Analysis of variance.● Evaluation of single factor experiments.● Statistical evaluation of two-factor experiments.● Evaluation of three- and multifactorial experiments.● Correlation calculation, regression calculation			
Course requirements: attendance at classes,			
Grading scale: >91 excellent, 81-90 good, 70-80 satisfactory, 60-69%:pass			



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Course Programme: WJLF ENVIRONMENTAL SCIENCE	Semester: 2022_2023_1	Lecturers: Lilla Strobel
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