

Caracterização da disciplina									
Código disciplina:	MCZB012-13	Nome da disciplina:	Inferência Estatística						
Créditos (T-P-I):	(4 - 0 - 4)	Carga horária:	2 * 48 horas		Aula prática:	0	Câmpus:	SBC	
Código turma:		Turma:		Turno:	manhã noite	Quadrimestre:	1	Ano:	2020
Docente(s) responsável(is):	Richard Henrikus Augustinus Hubertus Jacobs								

Alocação da turma						
	Segunda	Terça	Quarta	Quinta	Sexta	Sábado
8:00 - 9:00			x			
9:00 - 10:00			x			
10:00 - 11:00					x	
11:00 - 12:00					x	
12:00 - 13:00						
13:00 - 14:00						
14:00 - 15:00						
15:00 - 16:00						
16:00 - 17:00						
17:00 - 18:00						
18:00 - 19:00						
19:00 - 20:00			x			
20:00 - 21:00			x			
21:00 - 22:00					x	
22:00 - 23:00					x	

Planejamento da disciplina
Objetivos gerais

Teach the student to understand the principles of inferential statistics, and to perform the computations involved.			
Objetivos específicos			
Teach the student the basics of the normal distribution, sampling distributions, paired and independent t-tests, analysis of variance, correlation, regression.			
Ementa			
Graphs, Binomial distribution, normal distribution, Central Limit Theorem, Sampling distributions, Classical estimation methods, confidence intervals, hypothesis testing, t-distribution, t-tests, paired comparisons, comparison of two independent distributions, analysis of variance, correlation, regression			
Conteúdo programático			
Aula	Conteúdo	Estratégias didáticas	Avaliação

1	Presentation of the course, organization of the course	Presentation	Attendance list
2	Data types, graphs, measures of central tendency, measures of dispersion - repetition of content Introduction to Probability and Statistics	Presentation	Attendance list
3	Probability, binomial distribution, normal distribution, z-scores, z-tables - repetition IPE	Presentation	Attendance list
4	Sampling distributions	Presentation, exercises	Exercise z-scores, exercise binomial distribution
5	Central Limit Theorem, confidence intervals	Presentation, exercises	Homework: sampling distributions in R
6	Hypothesis testing	Presentation, exercises	Exercise confidence intervals
7	Type I & II errors, power	Presentation, exercises	Exercise hypothesis testing
8	t-distribution	Presentation, exercises	Exercise type I error
9	Repetition of material in preparation of first exam	Presentation, exercises	Exercise type II error

Descrição dos instrumentos e critérios de avaliação qualitativa
Since more exercises will be required to keep the students on track, the weight of the exercises in the final grade will be higher than envisioned in the original plan. The exercises (on paper and computer) will count for 40%, the two exams for 30% each.
Referências bibliográficas básicas
Howell, D.C. (2013). Fundamental Statistics for the Behavioral Sciences.
Referências bibliográficas complementares

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10a 10b 11	Paired t-test Independent samples t-test Pooled variance	Self-study	Exercises for all parts, from now on rapid feedback for each exercise
12	Effect size, post hoc comparisons	Self-study	Exercise
13	One-way analysis of variance	Video-lecture	Exercises
14, 15	Two-way analysis of variance	Video-lecture	Exercises
16	Correlation	Self-study	Exercises
17	Regression	Self-study	Exercises
18	Exercise session		Exercises
19	Question session	Some interactive medium, at regular class hours or on TIDIA	
20	First exam	Exam first half with open questions and multiple choice	
21	Feedback first exam, question session	on TIDIA or in class room (hopefully by this time)	
22	Second exam	Exam second half with open questions and multiple choice	
23	Substitute exam deadline for	Exam all materials with open	

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