



UNIVERSIDADE FEDERAL RURAL DE PERNAMBUCO

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PROGRAMA DE DISCIPLINA

IDENTIFICAÇÃO

DISCIPLINA: Técnicas experimentais em ciência do solo CÓDIGO: AGS-520

CARGA HORÁRIA TOTAL: 60 NÚMERO DE CRÉDITOS: 04

CARGA HORÁRIA SEMANAL: TEÓRICAS: 02 PRÁTICAS: 02 TOTAL: 04

EMENTA

Estatística descritiva; regressão; modelo linear generalizado; delineamentos experimentais; arranjo fatorial simples e em parcela subdividida; medições repetidas; análise multivariada; amostragem

OBJETIVOS

Ao final do curso o aluno deverá ser capaz de planejar experimentos e amostragens, analisar os dados obtidos e interpretá-los no que tange à análise de dados.

CONTEÚDOS

- Unidade 1. Variação do acaso, medidas de tendência central e de variação, nível de significância, teste de hipóteses
- Unidade 2. Regressão Linear e Não-Linear Simples, e Regressão Linear Múltipla
- Unidade 3. Modelo linear generalizado
- Unidade 4. Principais delineamentos experimentais
- Unidade 5. Arranjo fatorial
- Unidade 6. Parcela subdividida e Medições repetidas
- Unidade 8. Análise multivariada
- Unidade 9. Amostragem
- Unidade 10. Análise não-paramétrica

BIBLIOGRAFIA

- Anderson, Stewart. Biostatistics: a Computing Approach, CRC Press LLC, 2011. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1438171>.
- Bartolucci, Alfred, et al. Introduction to Statistical Analysis of Laboratory Data, John Wiley & Sons, Incorporated, 2015. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebbooks/detail.action?docID=4547997>.
- Chattamvelli, Rajan, and Ramalingam Shanmugam. Statistics for Scientists and Engineers, John Wiley & Sons, Incorporated, 2015. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebbooks/detail.action?docID=1895998>.
- Chatterjee, Sampit, and Ali S. Hadi. Regression Analysis by Example, John Wiley & Sons, Incorporated, 2012. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebbooks/detail.action?docID=918623>.
- Corder, Gregory W., and Dale I. Foreman. Nonparametric Statistics : A Step-By-Step Approach, John Wiley & Sons, Incorporated, 2014. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1676115>.
- Easterling, Robert G.. Fundamentals of Statistical Experimental Design and Analysis, John Wiley & Sons, Incorporated, 2015. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebbooks/detail.action?docID=4040146>.
- Editors, of REA. Statistics Super Review, Research & Education Association, 2013. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=4873649>.

Elliott, Alan C., and Wayne A. Woodward. SAS Essentials : Mastering SAS for Data Analytics, John Wiley & Sons, Incorporated, 2015. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=2146552>.

Galwey, N. W.. Introduction to Mixed Modelling : Beyond Regression and Analysis of Variance, John Wiley & Sons, Incorporated, 2014. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1765090>.

Geher, Glenn, and Sara Hall. Straightforward Statistics : Understanding the Tools of Research, Oxford University Press, Incorporated, 2014. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1692209>.

Gierlinski, Marek. Understanding Statistical Error : A Primer for Biologists, John Wiley & Sons, Incorporated, 2016. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=4529318>.

Greenfield, Tpnny and Greener, Sue. Research Methods for Postgraduates, John Wiley & Sons, Incorporated, 2016. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=4644084>.

Hahn, Gerald J., et al. Statistical Intervals : A Guide for Practitioners and Researchers, John Wiley & Sons, Incorporated, 2017. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=4822515>.

Hocking, Ronald R.. Methods and Applications of Linear Models : Regression and the Analysis of Variance, John Wiley & Sons, Incorporated, 2013. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1224710>.

Jarman, Kristin H.. The Art of Data Analysis : How to Answer Almost Any Question Using Basic Statistics, John Wiley & Sons, Incorporated, 2013. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1175199>.

Jawlik, Andrew A.. Statistics from a to Z : Confusing Concepts Clarified, John Wiley & Sons, Incorporated, 2016. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=4691462>.

Le, Chap T., and Lynn E. Eberly. Introductory Biostatistics, John Wiley & Sons, Incorporated, 2016. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=4513906>.

Rencher, Alvin C., and William F. Christensen. Methods of Multivariate Analysis, John Wiley & Sons, Incorporated, 2012. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=875890>.

Schmuller, Joseph. Statistical Analysis with Excel for Dummies, John Wiley & Sons, Incorporated, 2013. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=1153522>.

Taeger, Dirk, and Sonja Kuhnt. Statistical Hypothesis Testing with SAS and R, John Wiley & Sons, Incorporated, 2014. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=1602290>.

Verma, J. P.. Repeated Measures Design for Empirical Researchers, John Wiley & Sons, Incorporated, 2015. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=1896010>.

Weisberg, Sanford. Applied Linear Regression, John Wiley & Sons, Incorporated, 2013. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpe-ebooks/detail.action?docID=1574352>.

Wilcox, Rand R.. Understanding and Applying Basic Statistical Methods Using R, John Wiley & Sons, Incorporated, 2016. ProQuest Ebook Central, <https://ebookcentral.proquest.com/lib/ufrpeebooks/detail.action?docID=4526801>.

Material de aula disponibilizado através do SIGAA

Artigos selecionados de periódicos internacionais, de acordo com o tema da semana.

METODOLOGIA DE AULA

Durante a aula o docente apresentará o material previamente disponibilizado, e haverá debate sobre o tópico até a exaustão das dúvidas apresentadas. O docente estará disponível para questionamentos

posteriores por meios eletrônicos ou presenciais. Em seguida serão realizadas avaliações teóricas semanais por meio do SIGAA.

AVALIAÇÃO
A avaliação será composta pela média ponderada de: nota média das avaliações semanais, com exclusão da menor nota; nota média das avaliações práticas por tópico; avaliação teórica final; e avaliação teórico-prática final. Todas as avaliações serão disponibilizadas através do SIGAA, com respostas comentadas individualmente, e disponibilizadas exclusivamente para o discente.

Emissão

Data: 15/08/2024

Responsável: Mario de Andrade Lira Junior