

		
CENTRO UNIVERSITÁRIO CTC DEPARTAMENTO DE INFORMÁTICA		
		2018.1
INF2710	<i>Research Design & Academic Writing</i>	
	CARGA HORÁRIA TOTAL: 45h	CRÉDITOS: 3
Pré-requisito: n/a Prof. Simone Diniz Junqueira Barbosa		

OBJETIVOS	<ul style="list-style-type: none"> ▪ To help students plan, conduct, and analyze their research projects ▪ To help students prepare their work for publication.
EMENTA	Introduction to research design; literature review; proposal and paper structure; argumentation; presentation; qualitative research design and analysis; quantitative research design and analysis; basic descriptive and inferential statistics; reporting research and communicating data visually.
PROGRAMA	<ol style="list-style-type: none"> 1. Introduction to Research Design: qualitative, quantitative and mixed methods approaches 2. (Systematic) Literature Review 3. Proposal and Paper Structure 4. Argumentation: Claims, Warrants, and Evidence 5. Presenting your Work: content, design, and delivery 6. Communicating data visually 7. Qualitative research design and analysis 8. Quantitative research design and analysis 9. Basic descriptive and inferential statistics 10. Common writing mistakes and language issues
AValiação	Evaluation Students will go through the process of research design, execution, analysis and reporting. Their evaluation on the course will consider: <ul style="list-style-type: none"> ▪ their participation in class ▪ presentations given in class ▪ a paper or monograph resulting from their work

BIBLIOGRAFIA PRINCIPAL	<ul style="list-style-type: none"> ▪ Creswell, J.W. (2008) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications. ▪ Marshall, C. & Rossman, G.B. (2010) Designing Qualitative Research. Sage Publications. ▪ Rugg, G.; Petre, M. (2007) A Gentle Guide to Research Methods. Open University Press.
BIBLIOGRAFIA COMPLEMENTAR	<ul style="list-style-type: none"> ▪ The following references will be complemented by selected papers. <p>General</p> <ul style="list-style-type: none"> • Booth, W.C.; Colomb, G.G.; Williams, J.M. (2008) The Craft of Research, Third Edition (Chicago Guides to Writing, Editing, and Publishing). University of Chicago Press. • Petre, M.; Rugg, G. (2010). The Unwritten Rules of PhD Research (Open Up Study Skills). McGraw Hill International. Kindle Edition. • Rugg, G.; Petre, M. (2007) A Gentle Guide to Research Methods. Open University Press. <p>Research Design</p> <ul style="list-style-type: none"> • Creswell, J.W. (2008) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications. • Marshall, C. & Rossman, G.B. (2010) Designing Qualitative Research. Sage Publications. <p>Literature Review</p> <ul style="list-style-type: none"> • Asian Institute of Technology , Language Center, Literature Review. Available online at: http://www.ait.ac.th/education/LanguageCenter/ait-writing-services/guide-book/using-the-literature.html • Booth, W.C.; Colomb, G.G.; Williams, J.M. (2008) <i>The Craft of Research</i>, 3rd edition. The University of Chicago Press. • Jadad, A. (1998) <i>Randomised controlled trials: A users guide</i>. London: BMJ Books. • Khan, Khalid, S., ter Riet, Gerben., Glanville, Julia., Sowden, Amanda, J. and Kleijnen, Jo. (eds) <i>Undertaking Systematic Review of Research on Effectiveness. CRD's Guidance for those Carrying Out or Commissioning Reviews. CRD Report Number 4 (2nd Edition)</i>, NHS Centre for Reviews and Dissemination, University of York, IBSN 1 900640 20 1, March 2001. • Petre, Marian; Rugg, Gordon (2010). <i>The Unwritten Rules of PhD Research (Open Up Study Skills)</i>. McGraw Hill International. Kindle Edition. • Petticrew, M. & Roberts, H. (2006) <i>Systematic Reviews in the Social Sciences</i>. Blackwell Publishing. • Reid, M.; Taylor, A.; Turner, J.; Shahabudin, K. University Study Advice team & Learn Higher CETL (Reading). Available online at: www.reading.ac.uk/studyadvice • Ravetz, J. (1973) <i>Scientific knowledge and its social problems</i>. Middlesex: Penguin University Books.

- Skene, A. The Writing Centre, University of Toronto at Scarborough. Available online at: <http://ctl.utsc.utoronto.ca/twc/sites/default/files/LitReview.pdf>

Analyzing Data - Qualitative

- Charmaz, K. (2014) [Constructing Grounded Theory \(2nd edition\)](#). Sage.
- Gee, J. P. (2011) [An Introduction to Discourse Analysis \(3rd edition\)](#). Routledge.
- Miles, M.B.; Huberman, A.M. (1994) [Qualitative Data Analysis: An Expanded Sourcebook \(2nd Edition\)](#). Sage Publications.

Analyzing Data - Quantitative

- Freedman, D.; Pisani, R.; Purves, R. (2007) [Statistics \(4th Edition\)](#). W. W. Norton & Company.
- Hines, W.W.; Montgomery, D.C.; Goldsman, D.M.; Borror, C.M. (2003) [Probability and Statistics in Engineering](#). Wiley.
- Kiess, H. (2009) [Statistical Concepts for the Behavioral Sciences \(4th Edition\)](#). Boston, MA: Allyn & Bacon.
- Moore, D.S. (2009) [The Basic Practice of Statistics: w/Student CD \(5th Edition\)](#). W. H. Freeman.
- Moore, D.S.; Notz, W.I. (2008) [Statistics: Concepts and Controversies \(7th Edition\)](#). W. H. Freeman.
- Salkind, N.J. (2014) [Statistics for People Who \(Think They\) Hate Statistics \(5th Edition\)](#). SAGE.

Case Study

- Stake, R.E. (1995) [The Art of Case Study Research](#). Sage Publications.
- Yin, R. K. (2008) [Case Study Research: Design and Methods](#). Sage Publications.

HCI Research Methods

- Cairns, P. & Cox, A.L. (eds., 2008) [Research Methods for Human-Computer Interaction](#). Cambridge University Press.
- Lazar, J.; Feng, J.H.; Hochheiser, H. (2010) [Research Methods in Human-Computer Interaction](#). John Wiley & Sons.

Making an Argument

- Bowell, T.; Kemp, G. (2010) **Critical Thinking: a Concise Guide, 3rd edition**. Routledge.
- Grice, H.P. (1975). "Logic and Conversation," **Syntax and Semantics**, vol.3 edited by P. Cole and J. Morgan, Academic Press. Reprinted as ch.2 of Grice 1989, 22–40.
- Toulmin, S. (1969). **The Uses of Argument**, Cambridge, England: Cambridge University Press.

Reporting Research

- APA (2009) [Publication Manual of the American Psychological Association, Sixth Edition](#). Washington, DC: APA.
- Koopman, P. (1997) **How to Write an Abstract**. Available online at <http://www.ece.cmu.edu/~koopman/essays/abstract.html> (last access in Apr/2013)