

Subject Code	CBS6442
Subject Title	Advanced Topics in Research Methodology for Language Sciences
Credit Value	3
Level	6
Pre-requisite / Co-requisite/ Exclusion	Nil
Objectives	This subject aims to provide systematic training on the research methodology and to explore in-depth research issues in some key areas in the field of language science and humanity. The course introduces essential research knowledge and skills needed to conduct research. The focus of this course will be on quantitative studies and it is intended to prepare students to conduct research for their dissertations.
Intended Learning Outcomes (Note 1)	Upon completion of the subject, students will be able to: - Demonstrate advanced knowledge of research methods as appropriate for conducting scientific inquiry in the field of language science and humanity - Engage in in-depth discussions on relevant research issues and conduct a review of literature - Competently design their own research plan and produce a high-quality research proposal for a doctoral dissertation - Apply research skills in the research area(s) of their interests and analyze data with appropriate statistical methods - Develop essential skills in critical thinking, teamwork, and project-oriented learning
Subject Synopsis/ Indicative Syllabus (Note 2)	(Depending on the background of students, topics may include the following:) Developing a research proposal - Learning how to conduct academic research - Identifying current trends in academic studies - Identifying a suitable topic in the research area(s) of interest - Independently exploring themes and conducting literature review - Understanding key components of a research proposal Research methodology - Experimental, quasi-experimental and pre-experimental design

	• Types of data collection: corpora/experiments/ questionnaires/ interviews, etc. • Techniques for psycholinguistic and neurolinguistic research: e.g., EEG, eye-tracker, fMRI, etc. • Techniques for data processing Essential statistical skills • Basic statistical concepts and the classification of data • Introduction to statistical software (SPSS, R, etc.) • Statistical estimations and the application (random sampling, descriptive statistics, correlations, hypothesis testing, t-tests, ANOVA etc.)																																						
Teaching/Learning Methodology (Note 3)	Theory and practice will be fully integrated throughout the course. The subject will be delivered through lectures, lab training, and interactive discussions with the use of different samples. The delivery of the concepts and methods of research will involve review and critique of significant research work in the field as well as case studies that have adopted a variety of related research methods and designs.																																						
Assessment Methods in Alignment with Intended Learning Outcomes (Note 4)	<table><tr><th rowspan="2">Specific assessment methods/tasks</th><th rowspan="2">% weighting</th><th colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th></tr><tr><th>a</th><th>b</th><th>c</th><th>d</th><th>e</th><th></th></tr><tr><td>1. Literature Review</td><td>50%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></tr><tr><td>2. Writing a research proposal</td><td>50%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></tr><tr><td>Total</td><td>100 %</td><td colspan="6"></td></tr></table> Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: The subject is assessed entirely through coursework. Both assignments are designed to require the evaluation, synthesis and application of key concepts, approaches and techniques to design and analyze studies in academic research. Students are assessed in terms of both subject knowledge and generic skills through a combination of a term paper to evaluate a specific research method as applied in a particular sub-area of language science research, and a preliminary research proposal intended for the dissertation.	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d	e		1. Literature Review	50%	✓	✓	✓	✓	✓		2. Writing a research proposal	50%	✓	✓	✓	✓	✓		Total	100 %						
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		a	b	c	d	e																																	
1. Literature Review	50%	✓	✓	✓	✓	✓																																	
2. Writing a research proposal	50%	✓	✓	✓	✓	✓																																	
Total	100 %																																						

Student Study Effort Expected	Class contact:	
	Lectures: 3 x 13	39 Hrs.
	Other student study effort:	
	Assignments	40 Hrs.
	Reading	30 Hrs.
	Total student study effort	109 Hrs.
Reading List and References	Biber, D., Conrad, S. & Reppen, R. (1998). <i>Corpus linguistics: Investigating language structure and use</i>. Cambridge: Cambridge University Press. Burns, R. B. (2000). <i>Introduction to research methods</i> (4th Ed.). London: SAGE. Creswell, J. W. (2010). <i>Qualitative inquiry and research design: Choosing among five approaches</i> (2nd Ed.). Thousand Oaks, CA: Sage Publications. Creswell, J. W. (2013). <i>Research design: Qualitative, quantitative, and mixed methods approaches</i> (4th Ed.). Thousand Oaks, CA: Sage Publications. Caro-Bruce, Cathy. (2000): <i>Action research facilitator's handbook</i>. National Staff Development Council. Carson, Terrance R; Sumara, Dennis J. (1997) <i>Action research as a living practice</i>. Frankfurt: Peter Lang. Dornyei, Zoltan. (2007). <i>Research Methods in Applied Linguistics</i>. Oxford: Oxford University Press. Gries, S. T. (2013). <i>Statistics for linguistics with R: a practical introduction</i>. Berlin: Walter de Gruyter. Griffie, Dale T. (2012) <i>An introduction to second language research methods: Design and data</i>. TESL-EJ Publications. Gómez, P. C. (2013). <i>Statistical methods in language and linguistic research</i>. Sheffield, UK: Equinox. Keeves, John P. (1997) <i>Educational research, methodology, and measurement: an international handbook</i>. Oxford: Pergamon. Kvale, S. (2007). <i>Doing interviews</i> (Vol. 2). London: SAGE. Johnson, Keith. (2008). <i>Quantitative Methods in Linguistics</i>. Malden, MA: Blackwell.	

	Lomax, Pamela, (1996) <i>Quality management in education: sustaining the vision through action research</i>. London; New York: Routledge. Lowie, W., & Seton, B. (2012). <i>Essential statistics for applied linguistics</i>. Basingstoke / New York: Palgrave Macmillan. McEnery, T., Xiao, R., & Tono, Y. (2006). <i>Corpus-based language studies: An advanced resource book</i>. New York: Routledge. Modern Language Association (2009) <i>MLA Handbook for Writers of Research Papers</i>, 7th Edition. Partee, Barbara. Alice ter Meulen, and Robert Wall (2007). <i>Mathematical Methods in Linguistics</i>. Berlin: Springer. Rasinger, S. M. (2008). <i>Quantitative Research in Linguistics</i>. New York, Continuum. van Peer, Willie, Frank Hakemulder and Sonia Zyngier (2007) <i>Muses and Measures: Empirical Research Methods for the Humanities</i>. Cambridge: Cambridge Scholars Publishing. Wilson, Elaine (2013) <i>School-based research: a guide for education students</i>. Thousand Oaks, CA: Sage. 桂詩春/寧春岩 2002 《語言學方法論》，外語教學與研究出版社。 蔣嚴 (主編) 2010 《走近形式語用學》，上海教育出版社。 張衛國 2002 《漢語研究基本數理統計方法》，中國書籍出版社。 伍茲 【著】陳小荷【譯】 2000 《語言研究中的統計方法》，北京語言文化大學出版社。 文秋芳 2004 《應用語言學研究方法與論文寫作(中文版)》，外語教學與研究出版社。
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