

# Quantitative Research in English Language Teaching Settings



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in English Language Teaching Settings

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First publication: September 2022

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# Acknowledgement

The present book is a supplementary material that assists the students in carrying out hybrid learning activities in the Qualitative Research in English Language Teaching (ELT) module at Department of English Education, University of Muhammadiyah Prof. DR. HAMKA (UHAMKA). The book is the first of three research modules (i.e. Quantitative Research Method in ELT, Qualitative Research Method in ELT, and Statistics), aiming to provide students with knowledge and competence in conducting a small-scale qualitative research.

In the book, students will obtain information about learning materials and hybrid learning activities that they will have during the course. As of hybrid modes of learning, the activities include both face-to-face and online learning activities, and synchronous and asynchronous activities. This mode of learning allows the students to perform the learning activity in both formal and informal classroom, and without having time and place constraints.

There are six lessons with two designed exams. Each lesson is developed with several learning activities such lectures, online reading, web exploration and etc. The structure of the present book adopts the structured of one developed by University of Northern Colorado, Colorado (<https://www.unco.edu/cebs/asl-interpreting/pdf/model-courses/dlti-lessons.pdf>).

To access the learning materials and activities, students are required to login using the username and password they already have to the online learning portal at <https://onlinelearning.uhamka.ac.id>, students are required. Access to the online learning website (i.e username and password) are given by the instructor before the semester begins.

Finally, I would like to thank Dr Desvian Bandarsyah, M.Pd as the dean of Teacher Training and Pedagogy Faculty (FKIP) of the University of Muhammadiyah Prof. DR. HAMKA for his supports, and particularly my research team for the great assistance so that the writing of the present book can be completed.

Jakarta, September 2022

Herri Mulyono, Ph.D



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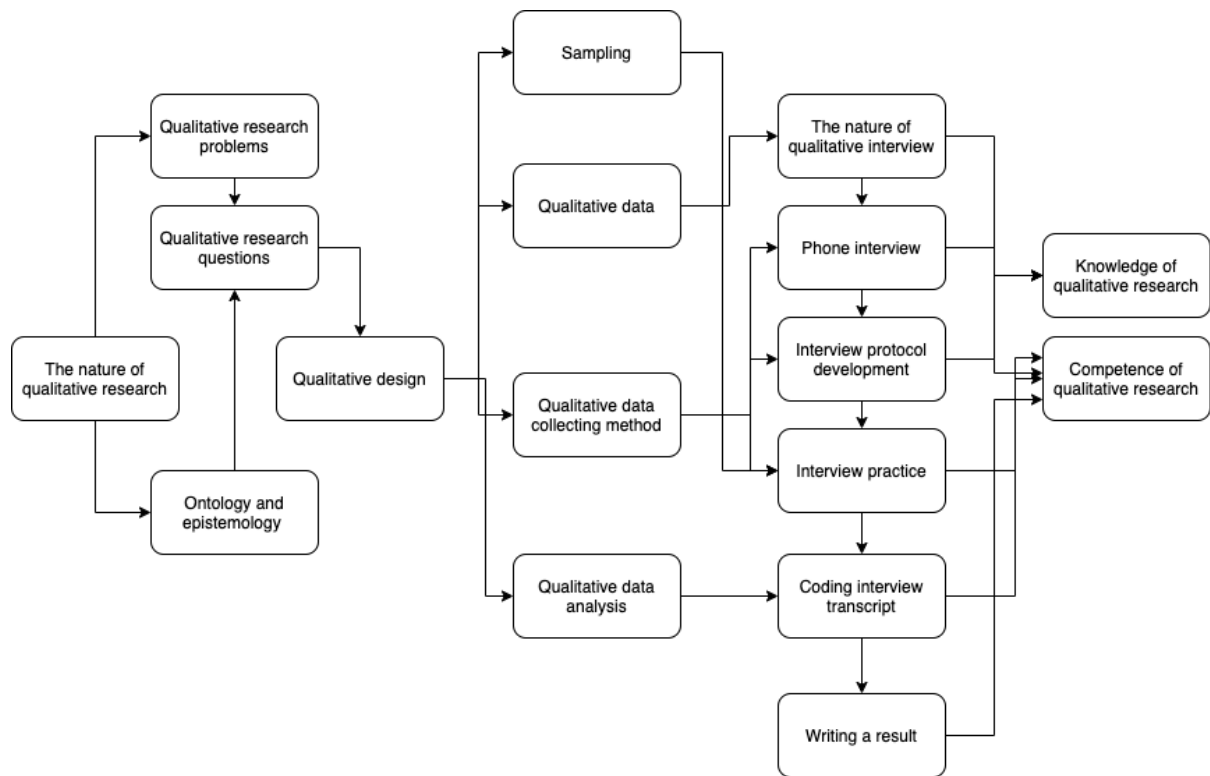


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# Knowledge and Competence Map





# Quantitative Research: Course Description

## 1. Course Information

**Course ID/ Semester:** 01055038/ 2

**Description:** This Quantitative Research in ELT (QUAN\_ELT) module is one of research method modules in the English department, faculty of teacher training and pedagogy, University of Muhammadiyah Prof. DR. HAMKA, Jakarta, Indonesia. The Quan\_ELT module aims to provide students with knowledge about quantitative research paradigm, design and procedure. Using such knowledge, at the end of the module, students are expected to be able to plan small-scale quantitative research, collected the data and analyse them. The learning materials in the module include the nature of research, the nature of quantitative research, research questions and

research questions, research hypothesis, quantitative research design, and quantitative data collection method and analysis.

**Discourse:** Research

**Credit:** 3

**Lessons:** The Quan\_ELТ module is developed into six lessons with two exams: mid-term exam and final-term test. Each of the lesson objective is presented in the following table.

Objective	Main section	Subsection
Lesson 1. What is research?	The nature of research	a. What is research? b. Critical thinking c. Scientific method
Lesson 2. What is quantitative research?	The nature of quantitative research	a. Research paradigm (ontology, epistemology and methodology) b. Positivism c. Quantitative research (purpose and characteristics)
Lesson 3. Quantitative research questions	Research questions and research questions	a. Understanding research questions b. Research questions in quantitative research c. Research variables (understanding and its characteristics) d. Formulating research questions
Lesson 4. Research hypothesis	Research hypothesis	a. What is research hypothesis? b. Quantitative research and research hypothesis c. Formulating hypothesis
Lesson 5. Quantitative research design	Quantitative research design	a. Quasi-experiment b. Survey

Lesson 6. Quantitative data collecting method	Quantitative data collection method and analysis	a. Test b. Questionnaire c. Quantitative data analysis
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## 2. Activities

### a. Types of learning activities



Source: <https://www.pexels.com/photo/multiethnic-businesswomen-checking-information-in-documents-6457521/>

Several activities are developed for both face-to-face and online activities. The face-to-face activities include lecture, discussion and student practices. The other online activities cover several activities as in Table below:

Table 1. Online activities

Activity types	Format	Required application	Technology
Lectures	Video conference*	Zoom, Google Meet Internet access, Web browser (Chrome), YouTube	PC, Laptop, tablet, Smartphone

	Recorded materials (video streaming)		
Online reading	PDF documents, html	PDF Reader, PDF add on for chrome, any web browser	PC, Laptop, tablet, Smartphone
Textbook	Print	N/A	N/A
Web exploration	Html, ccs	Any web browser	PC, Laptop, tablet, Smartphone
Comprehension check	Online quizzes	Any web browser, Moodle apps for android	PC, Laptop, tablet, Smartphone
Student discussion	Online discussion	Any web browser, Moodle apps for android	PC, Laptop, tablet, Smartphone
Individual assignment	Online assignment	Any web browser, Moodle apps for android	PC, Laptop, tablet, Smartphone
Group work	Online discussion	Any web browser, Moodle apps for android	PC, Laptop, tablet, Smartphone
Examination/ quizzes	Online quizzes	Any web browser, Moodle apps for android	PC, Laptop, tablet, Smartphone
Survey	Online questionnaire	Any web browser, Moodle apps for android	PC, Laptop, tablet, Smartphone

Note: \*Delivered in synchronous mode (real time)

It is important to note that all the online activities are expected to complete in the University online learning websites, available at <https://englisheducation.uhamka.ac.id>. Please login into the website and select the quantitative research in ELT module to complete the required activities.

### 3. Resources

#### **Textbooks:**

Cohen, L., Manion, L., & Morrison, K. (2018). *Research methods in education*.  
Routledge

**YouTube Channel** from several Universities and individuals.

**Journal Articles** from Cogent journals, Sage Open, Springer Open journals, Heliyon journal.