# Quantitative and Computer-Assisted Approaches in Content Analysis

Prof. Dr. Matthias R. Hastall

## **Course Description**

Text analysis and content analysis techniques are powerful research methods for extracting and interpreting the meaning of documents such as news articles, speeches, social media postings, or videos sequences. Two approaches, quantitative content analysis and computer-based (e.g., dictionary-based) text analysis, are introduced, examined, and then applied in course projects. Theoretical foundations, issues of validity, reliability, and subjectivity, as well as data analysis and presentation strategies will be covered, and the approaches will be contrasted regarding their potential to answer a wide range of research questions. The benefits of using free and commercial content analysis software will be also examined. The course is introductory; however, a very basic knowledge of quantitative research methodology is beneficial. Participants are encouraged to try out different tools on their own computers (preferably running Microsoft Windows as operating system, as most tools are available for this computer platform), and are invited to present and discuss their own content analysis projects.

### Schedule (Overview)

The course takes place daily from September 16-20, 2024, as a ZOOM meeting. We will start at 09:30 am (sharp). The course consists of theory sessions and practice sessions. We will usually start with a theory session at 9:30 am, and finish with practice sessions (group assignments or individual assignments) at about 3:30 pm.

Important: All course times refer to the Istanbul time zone (TRT/UC +3).

# ZOOM Link

The ZOOM links for each session will be posted in our ABU eLearning system.

## **Preliminary Schedule**

Please note that this schedule is preliminary. We will make several adjustments depending on the course participants' research interests and course progress.

1	DAY 1	3.1.3 3.1.4	Data Presentation Data Interpretation
1.1	Introduction		·
1.1.1	Our Course: Backgrounds,	3.2	Content Analysis IN PRACTICE
	Experiences, Interests	3.2.1	Coding
1.1.2	Course Schedule	3.2.2	Data File Preparation
1.1.3	Reading Assignments		
1.1.4	Recommended Readings	4	DAY 4
1.1.5	Hardware and Software		
	Recommendations	4.1	Computer-Assisted Content
1 2	Content Analysis THEORY	1 1 1	Introduction
<b>±•</b> 1 0 1	Dofinition	4.1.2	Propoguisitos
1 2 2	History	4.1.2	Approaches
1 2 2	Rupposos Applications Examples	4.1.J	Approaches
1 2 4	Stone	4.1.4 1 1 E	
1.2.4 1.2.5	Steps	4.1.5	Examples
1.2.5	Codebook, Categotories and	4.2	Computer-Assisted Content
	Levels	1 2 1	Analysis in Fractice Propagation of Documents
1 2	Content Analysis IN DRACTICE	4.2.1 1 2 2	Word Clouds
1 0 1	Coding Material Potnioval/	4.2.2	Dictionany Creation
1.2.1	Collection	4.2.5	Kowyond in Contaxt (KWTC)
1 2 2	Recearch Questions	4.2.4	Applycic
1 2 2	Cadabaak Davalanmant	1 ) E	Analysis Dictionany Choice and
1.2.2	Codebook Development	4.2.5	Application
r		1 2 6	Application Data Filo Decembration
2	DAT 2	4.2.0	Data File Preparation
2.1	Content Analysis THEORY	5	DAY 5
2.1.1	Vallully Deliebility	F 1	Contont Analysis IN DRACTICE
2.1.2	Compling	<b>D.L</b>	Mothed Costion: Mothed
2.1.3	Samhitid	5.1.1	Description
2.2	Content Analysis IN PRACTICE	5.1.2	Data Analysis: Frequencies
2.2.1	Refining and Finalizing the	5.1.3	Data Analysis: Chi² Tests
	Codebook	5.1.4	Data Analysis: t-Test
2.2.2	Pretesting/First Coding	5.1.5	Data Presentation: Graphs,
2.2.3	Determining Intercoder		Tables, Texts
	Reliability		
		5.2	Summary: Where Do We Stand, and
3	DAY 3		Where Do We Go From Here?
3.1	Content Analysis THEORY	5.3	Course Reflection, Course
3.1.1	Preparations for Data Analysis		Evaluation, and Good-Bye
3.1.2	Data Analysis Strategies		

### Literature/Reading Assignments

Literature assignments and recommendations are posted in our ABU eLearning system.