

Schedule course Research Methods in Disasters, 5HD001, 10 credits (changes may occur)

28 August 2023 – 14 January 2024 Course leader: Zangin Zeebari zangin.zeebari@ki.se

Study period 1: 28 August – 1 October 2023 | Study period 2: 8 – 14 January 2024

Break: 3 October 2023 – 7 January 2024

Compulsory Sessions are in **Bold** font. Mariano Salazar is the teacher for the sessions with (MS).

The rest of the sessions are with Zangin Zeebari.

Venue: Mary [Mary | Staff Portal \(ki.se\)](mailto:Mary | Staff Portal (ki.se)) except 25 September 2023 (Room 221 <https://staff.ki.se/221>) and 12 January 2024 (Room 224 <https://staff.ki.se/224>)

Week 1	Monday 8/28	Tuesday 8/29	Wednesday 8/30	Thursday 8/31	Friday 9/1
9:00-10:00					
10:00-11:00	Introduction	Databases & Systematic Reviews	Research & Engagements	Data Collection	Becoming a Researcher
11:00-12:00	Disasters & Research	Disaster Risk Factors	Quantitative Research	Research & Ethics	Grand Applications & Ethical Approval
12:00-13:00					
13:00-14:00	Epidemiology in Disasters	Research Question & Measurements	Role of Statistics	Qualitative Research	Writing & Presentation of Results
14:00-15:00	Evidence-Based Priorities	Defining Scope & Resources	Study Design	Disaster & Lasting Impacts	Add-ons to Research in Disasters
15:00-16:00					Continued
16:00-17:00					

Week 2	Monday 9/4	Tuesday 9/5	Wednesday 9/6	Thursday 9/7	Friday 9/8
9:00-10:00		Evaluation Methods (MS)	Research Ethics in Disasters (MS)	Methodological Quality (MS)	
10:00-11:00	Types of Data	Continued	Continued	Continued	Probability
11:00-12:00	Population/Sample	Continued	Continued	Continued	Probability Distributions
12:00-13:00					
13:00-14:00	Descriptive Statistics	Basic Ethics in Research (MS)	Individual assignment: Paper review on research ethics. (MS)	Designing Tools and Data Management (MS)	Continuous Distributions
14:00-15:00	Associations & Effect Size	Continued	Continued	Continued	Discrete Distributions
15:00-16:00		Continued	Discussion paper review (MS)	Continued	
16:00-17:00					

Week 3	Monday 9/11	Tuesday 9/12	Wednesday 9/13	Thursday 9/14	Friday 9/15
9:00-10:00					
10:00-11:00	Exercise I	Confounding Factors	Exercise III	Categorical Data	Exercise IV
11:00-12:00	Exercise II	Measurement Error, Reliability & Validity	Study Design	Epidemiological Measurements	Exercise V
12:00-13:00					
13:00-14:00	Sampling Techniques	Statistical Inference	Observational/ Experimental/ Interventional Studies	Hypothesis Testing with Multiple Populations	Sample Size & Power Calculation
14:00-15:00	Sampling Error & Bias	Single Population Hypothesis Testing	Data Management	Parameter & Non-parametric Methods	Missing Data

15:00-16:00					Intra Class Correlation, Drop-outs
16:00-17:00					

Week 4	Monday 9/18	Tuesday 9/19	Wednesday 9/20	Thursday 9/21	Friday 9/22
9:00-10:00	*Introduction to qualitative research (MS)	Interview/ FGD/ observation guide (MS)	*Individual-exercise: Evaluating a qualitative research paper (MS)	The qualitative protocol (MS)	*Analyzing quality data, An introduction. (MS)
10:00-11:00	Continued	Continued	Continued	Continued	Continued
11:00-12:00	Continued	Continued	Continued	Continued	Continued
12:00-13:00					
13:00-14:00	Methods for data collection (MS)	Sampling in qualitative research (MS)	Interviewing practice (MS)	Mixed-methods. An introduction (MS)	Continued
14:00-15:00	Continued	Continued	Continued	Continued	Summary and week evaluation (MS)
15:00-16:00	Continued	Continued	Continued	Continued	Continued
16:00-17:00					

Week 5	Monday 9/25	Tuesday 9/26	Wednesday 9/27	Thursday 9/28	Friday 9/29
9:00-10:00					
10:00-11:00	Simple Linear Regression Room 221 https://staff.ki.se/221	Exercise VI		Exercise VII	Exercise VIII
11:00-12:00	Multiple Linear Regression Room 221 https://staff.ki.se/221	Binary Outcomes & Logistic Regression		Count Data & Poisson Regression	Repeated Measures & Longitudinal Data
12:00-13:00					
13:00-14:00	Assumptions of Linear Regression Room 221 https://staff.ki.se/221	Multinomial Logistic Regression		Time to Event Outcomes	Clustered Data
14:00-15:00	Diagnostic Tests & Model Building Room 221 https://staff.ki.se/221	Ordinal Logistic Regression		Survival Analysis	Mixed Effects Models
15:00-16:00					Concluding Remarks
16:00-17:00					

Break: 2 October 2023 – 7 January 2024

Week 6 (January)	Monday 1/8	Tuesday 1/9	Wednesday 1/10	Thursday 1/11	Friday 1/12
9:00-10:00					
10:00-11:00	Review & Discussion	Group Assignment: Paper Review	Group Assignment: Paper Review	Final Exam	Final Exam (Room 224. https://staff.ki.se/224)
11:00-12:00	Continued	Continued	Continued	Final Exam	Final Exam
12:00-13:00					
13:00-14:00	Continued	Continued	Continued	Final Exam	Final Exam (Room 224. https://staff.ki.se/224)
14:00-15:00	Continued	Continued	Continued	Final Exam	Final Exam (Room 224. https://staff.ki.se/224)
15:00-16:00					
16:00-17:00					