Course Title	LAH 313 Logic		Instructor(s)	Mirja Annalena Holst
			E-mail	
Class Style	Lecture		Office Hours	
Track	Global Liberal Arts		Mode of Instruction	Solo
Credits	2		Allocated Year	3
Active	Category 3 (2, 3, 4)		O annual a sur an El a stirra	
Learning	Cate	egory 4 (1, 2, 3, 4, 7, 8, 9, 10)	Compulsory or Elective	Elective
Course	This course provides an introduction to logic, the systematic study of reasoning and argumentation. The			
Overview	primary aim of this course is to teach students basic but essential skills of analysing, evaluating, and			
	constructing arguments, and to hone their ability to execute these skills in thinking and writing. Students			
	will be equipped with the tools necessary for clear, coherent, and effective reasoning in both academic			
	and professional contexts. The course improves students' skills in logic by making explicit the basics o			
	reasoning and argumentation and by connecting them to various issues and situations in everyday life We will discuss basic concepts in logic, essentials of propositional logic including translations into a form language and truth tables, natural deduction in propositional logic, and common fallacies in reasoning.			
	The aim of this course is to enable students (1) to identify and analyse arguments, detect implicit premises, and reconstruct arguments, (2) to understand the basics of propositional logic including translations into a formal language, truth tables and natural deduction, (3) to detect common fallacies in reasoning, and (4) to present arguments clearly in speech and writing.			
Course				
Objectives				
Prerequisite				
Course Schedule	No	Contents		Homework
	1	Introduction		course overview, syllabus
	2	2 Basic Concepts: Arguments		reconstruct arguments
	3	3 Basic Concepts: Deduction and Induction		identify valid arguments
	4	Basic Concepts: Argument Analysis	construct argument maps	
	5	Propositional Logic: Symbols and Translations		practice translations
	6	Propositional Logic: Truth Functions		practice drawing truth tables
	7	Propositional Logic: Truth Tables for Propositions		test propositions for logical truth
	8	Propositional Logic: Truth Tables for Arguments		test arguments for validity
	9	9 Propositional Logic: Fallacies		identify fallacies
	10	10 Midterm Exam		study for midterm exam
	11	11 Natural Deduction in Propositional Logic: Rules for Implication		practice simple derivations
	12	Natural Deduction in Propositional L	ogic: Rules for Replacemen	t practice simple derivations
	13	Natural Deduction in Propositional L	ogic: Arguments	test arguments for validity
	14	Natural Deduction in Propositional L	ogic: Logical Truths	test propositions for logical truth
	15			course review, practice
	Final Exam study for final exam			
Grading	Participation: 10%, Quizzes: 20%, Midterm Exam: 30%, Final Exam: 40%			
Textbooks	All course materials, including texts, lecture slides, handouts, exercises, and sample solutions, will be			
	available on the course webpage.			
References	Hurley, J. H. (2024). A concise introduction to logic. Cengage.			
NOTES	This syllabus is subject to change. Any possible changes will be notified to students.			