Course Syllabus

Code - Course Title	**MNT203 - Symbolic Logic II**
Course Type	III. SEMESTER
Laboratory + Practice	3+0
ECTS	**5.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DOÇ. DR. İSKENDER TAŞDELEN

Mode of Delivery	The mode of delivery for this course is face to face.
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	None
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Quantification. Formal language of quantificational logic. Terms and quantified statements.	
Week - 2		Free and bound variables. Substitution.	
Week - 3		Symbolization and translation.	
Week - 4		Symbolization and translation (cont).	
Week - 5		Natural deductions in quantificational logic.	
Week - 6		Natural deductions in quantificational logic (cont).	
Week - 7		Natural deductions in quantificational logic (cont).	
Week - 8		Natural deductions in quantificational logic (cont).	
Week - 9		Natural deductions in quantificational logic (cont).	
Week - 10		Natural deductions in quantificational logic (cont).	
Week - 11		First-order structures. Interpretation of terms in first-order structures. Satisfiability in first order structures. Validity, invalidity.	
Week - 12		Satisfiability in first order structures. Validity, invalidity.	
Week - 13		Satisfiability in first order structures. Validity, invalidity. Finding models and counter-models.	
Week - 14		Prenex normal form	

Learning Outcomes

#	Learning Outcome
1	analyze arguments in natural language using formal propositional logic.
2	analyze propositions and arguments by natural derivation method of quantificational logic.
3	analyze fallacies.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.