Course Syllabus

Code - Course Title	**MAT208 - Differential Equations**
Course Type	V. SEMESTER
Laboratory + Practice	3+0
ECTS	**4.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. ALADDIN SHAMILOV

Mode of Delivery	The mode of delivery of this course is Face to face.
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Recommended Resources	ELSGOLTS, L., (1970), Differential Equations and the Calculus of Variations. Mir Publishers. Filippov, A.F., (1970), Collections of Exercises for Differential Equations. Moscow. Sansone G., (1978), Ordinary differential equations, Pergamon Press.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		First Order and First Degree Differential Equations, basic concept	
Week - 2		First Order and First Degree Differential Equations, basic concept	
Week - 3		Species of Integrationable Differential Equations	
Week - 4		Species of Integrationable Differential Equations	
Week - 5		Seconder order or higher differential equations	
Week - 6		Seconder order or higher differential equations	
Week - 7		System of differential equations	
Week - 8		System of differential equations	
Week - 9		Higher Order Linear Equations With Constant Coefficients and Applications	
Week - 10		Higher Order Linear Equations With Constant Coefficients and Applications	
Week - 11		Value Bounder problems	
Week - 12		Value Bounder problems	
Week - 13		Green function	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Green function	

Learning Outcomes

#	Learning Outcome
1	analyse the different kind of differential equations and their solutions
2	formulate the methods of solving differential equations.
3	evaluate the applications of the differential equations

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.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	30
Final Exam	1	40
2.Midterm Exam	1	30
	Sum (%)	**100**