Identification	Subject	CIV 384 Structural Analysis, 6 ECT	ΓS		
	Department	Civil Engineering			
	Program	Undergraduate			
	Term	Fall 2023			
	Instructor	Arzu Rahimov			
	E-mail:	Arzurahimov090@gmail.com			
		+994554648524			
	Phone(WhatsApp): Classroom/hours	Microsoft Teams			
		Microsoft Teams			
D	Office hours				
Prerequisites	Engineering Mechanics – Statics – Strength of materials				
Language	English				
Compulsory/Elective	Compulsory				
Required textbooks	1. Vaidyanadhan, R and Perumal, P, "Comprehensive Structural Analysis – Vol. 1				
and course materials	& Vol. 2", Laxmi Publications Pvt. Ltd, New Delhi, 2003. 2. L.S. Negi & R.S. Jangid, "Structural Analysis", Tata McGraw Hill Publications, New Delhi, 6th Edition,				
		003. 3. Punmia.B.C, Ashok Kumar Jain and Arun Kumar Jain, "Theor ructures", Laxmi Publications Pvt. Ltd., New Delhi, 2004. 4. Russel C. Hibe			
G 471	"Structural Analyses"		C 1 1		
Course outline	This course deals with the structural models and is looking for a solution to analyze them subjected to applied loads. This is a traditional field in engineering education and is taught in almost all civil engineering curricula. Degrees of freedom, analyzing				
	trusses, Indeterminate	structures, Energy methods, deforma	ations.		
Course objectives	the classical methods for				
	the analysis of buildings will be introduced to the students.				
Learning outcomes	Students will be able to				
	• Trusses, frames and arches analysis				
		•			
	learn basis of Structural analysis for moving loadsConversant with classical methods of analysis.				
		ssical methods of analysis.			
	• Deformations				
	Matrix analysis.				
Teaching methods	Lecture		X		
	Experiential exercise x Assisted work x		X		
			X		
	Assisted lab work		X		
Evaluation	Methods	Date/deadlines	Percentage (%)		
	Midterm Exam		30		
	Class activity		5		
	Quizzes		20		
	Project (3 phases)		10		
	Final Exam		35		
	Total		100		
Policy	NO CELL PHONES are allowed during lecture and lab sessions. PLEASE				
	turn them off before lecture! (Not silent or vibrating mode)				
	No late assignments will be accepted without prior arrangement with the				
	instructor for acceptable excuses. Medical and family emergency will be				
	considered on case-by-case basis.				
	No late home:	No late homework will be accepted. Homework is to be completed on an			
	individual basis. Students may discuss homework with classmates, but				
		onsible for your own work. If students	n work. If students have consulted		
	classmates, please note the individuals name on the top of students'				
	assignment.				
		be given unannounced throughout the	e term and will count as		
	one homework. T	here will be no make-up quizzes.			

- No make-up exams. If students miss an exam, a zero score will be assigned to the missed exam.
- If students should miss class due to personal emergency or medical reasons, please notify the instructor by email immediately. A doctor's note will be required for make-up work.
- Students are responsible for completing the reading assigned from the textbook related to the covered topics and for checking email regularly for important information and announcements related to the course.
- University policy on academic honesty concerning exams and individual work will be strictly enforced.
- BE ON TIME!

Tentative Schedule				
Week	Date/Day (Tentative)	Topics	Textbook/Assignments	
1		Introduction to structural analysis	Chapter 1	
2		General Principles	Chapter 1	
3		Loads / Equilibrium and support reactions	Chapter 2	
4		Trusses	Chapter 3	
5		Freedom and indeterminacy	Chapter 3	
6		Beams shear and bending moment diagrams	Chapter 4	
7		Frames shear and bending moment diagrams	Chapter 4	
8		Midterm Exam	-	
9		Deflection of beams, Geometric methods	Chapter 5	
10		Deflection, work-energy methods	Chapter 5	
11		Moment Distribution Method	Chapter 6	
12		Moving Loads	Chapter 6	
13		Influence line	Chapter 7	
14		Indeterminate Structural Analysis	Chapter 8	
15		Matrix Method of Analysis	Chapter 9	
		Final Exam		

This syllabus is a guide for the course and any modifications to it will be announced in advance.