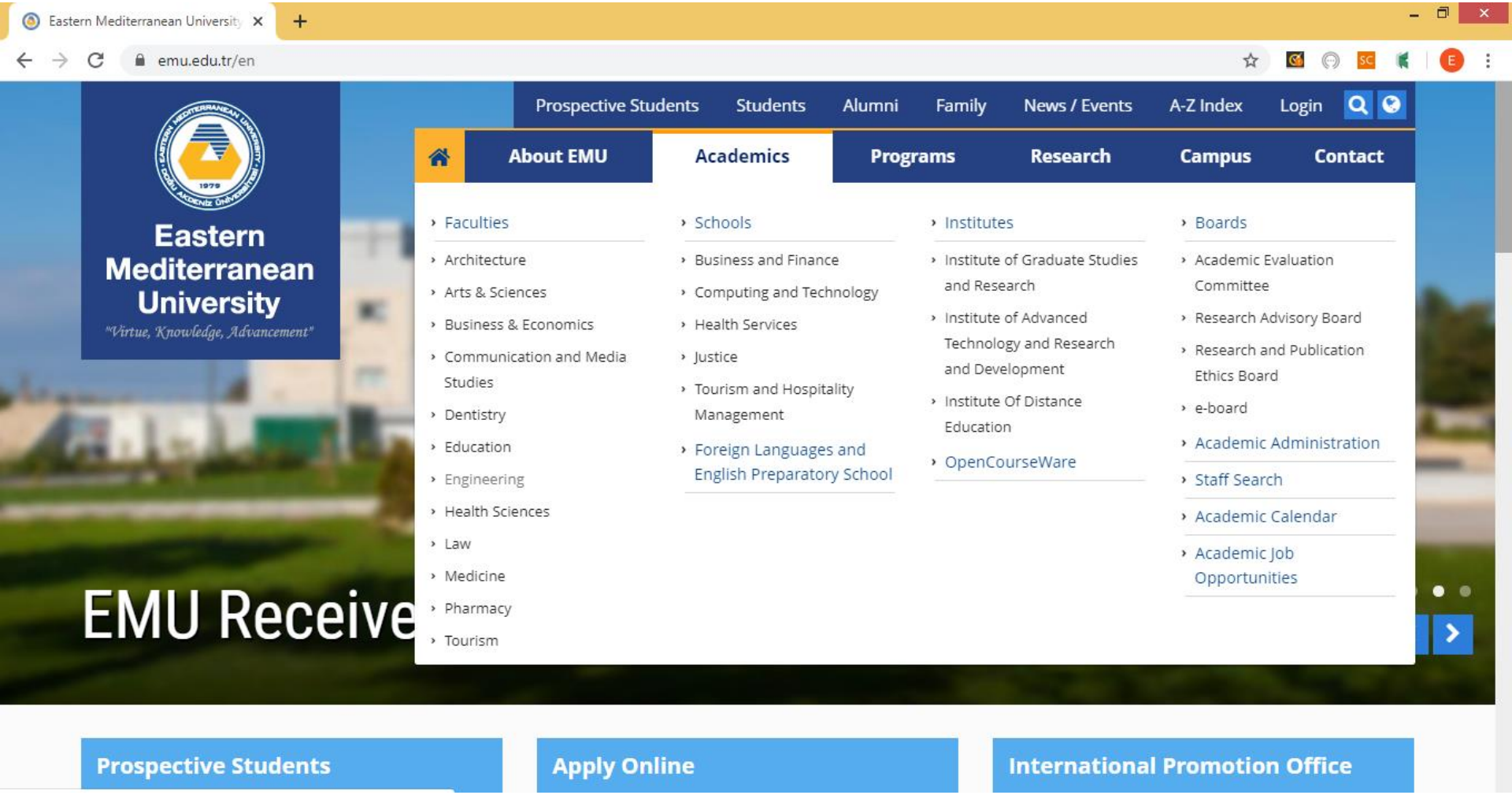
CIVL100

Department Web site, Curriculum and some Registration matters

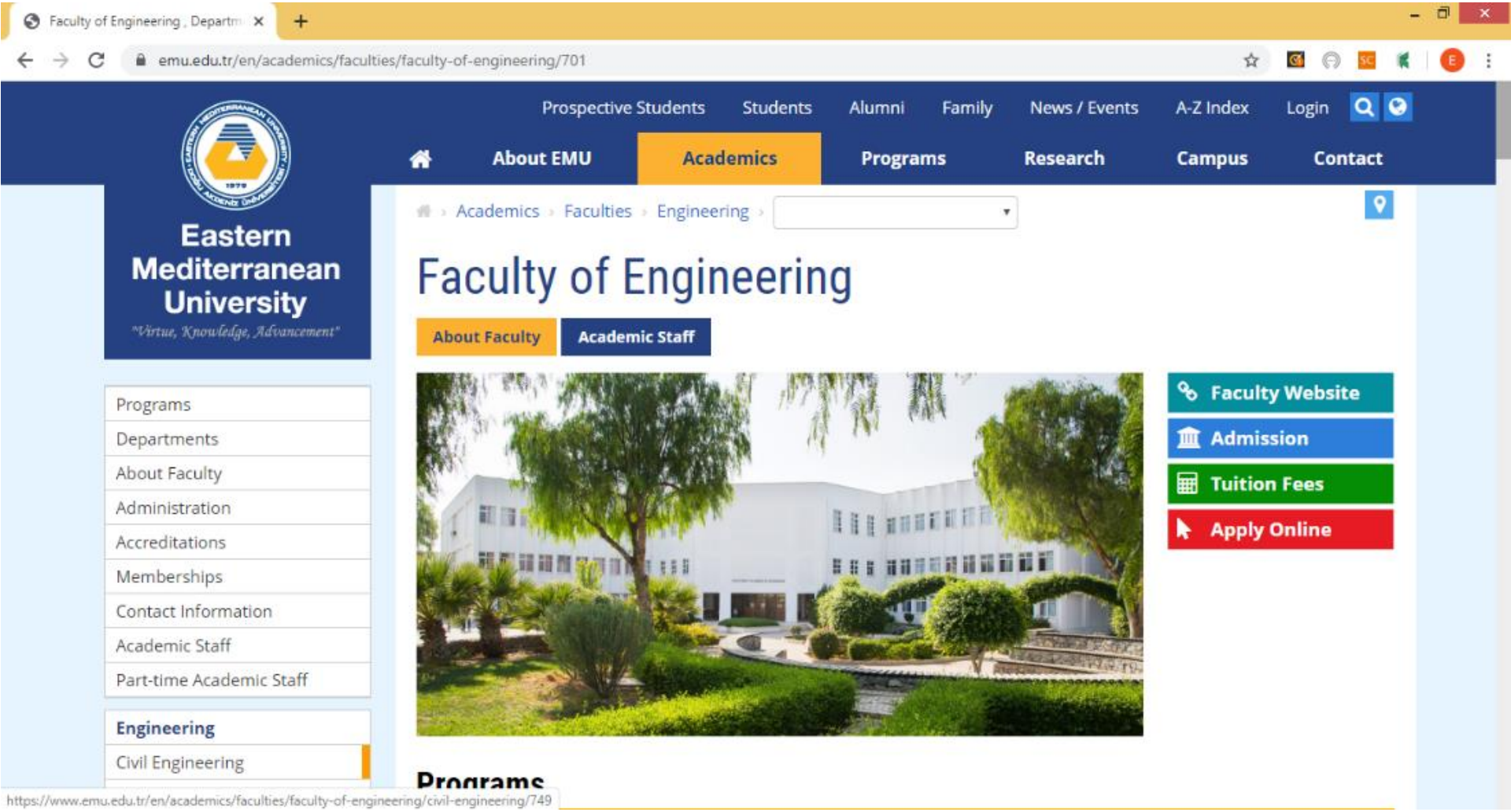
University web site: http://www.emu.edu.tr/

Academics → **Engineering**



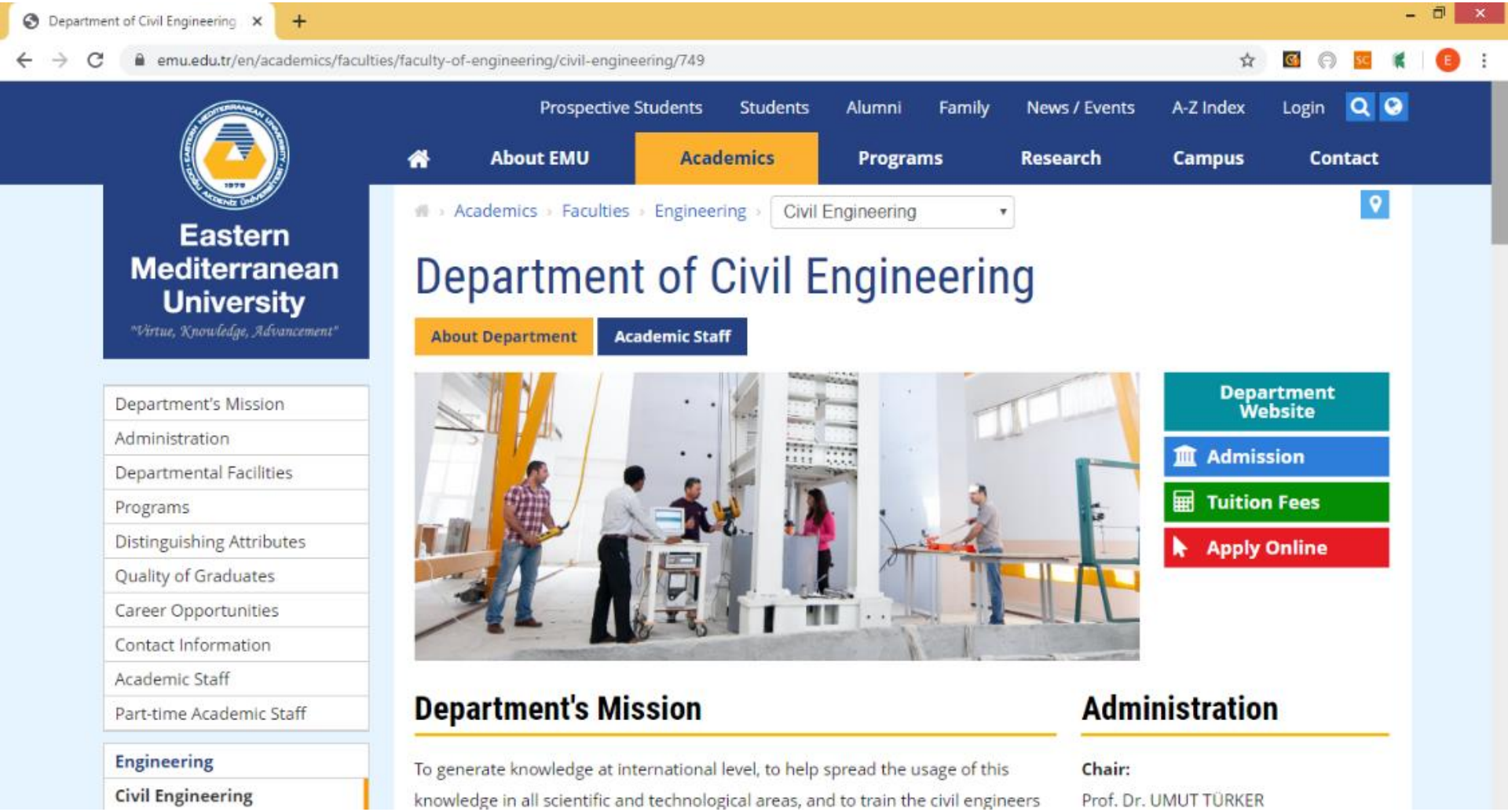
Engineering Faculty web site: https://www.emu.edu.tr/en/academics/faculties/faculty-of-engineering/701

Engineering → **Civil Engineering**

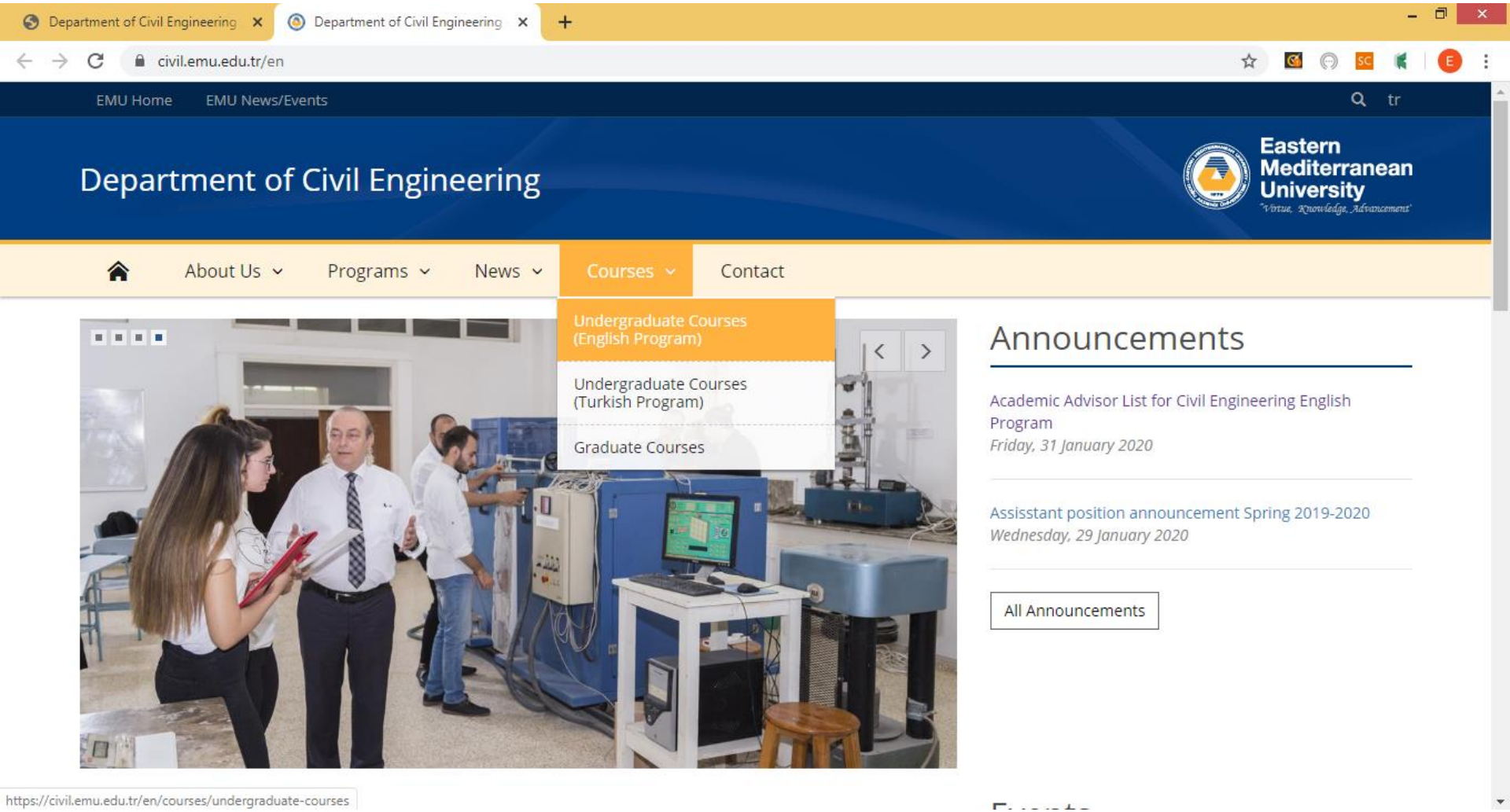


Civil Engineering web site: https://www.emu.edu.tr/en/academics/faculties/faculty-of-engineering/civil-engineering/749

Civil Engineering → **Department Website**



Civil Engineering Department web site: https://civil.emu.edu.tr/en



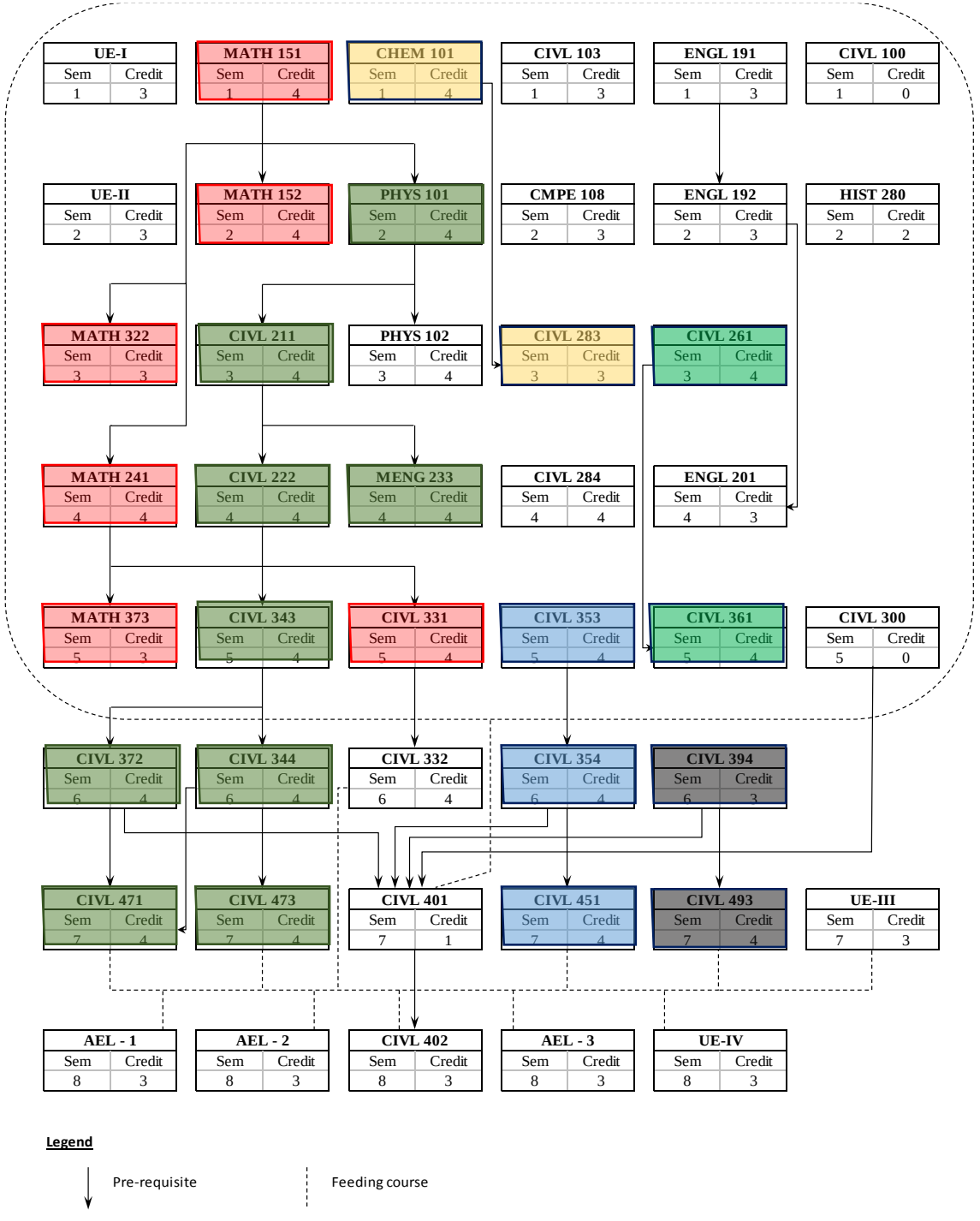
Curriculum

	REF. NO	COURSE CODE	COURSE NAME	CREDIT HOURS	PRE-REQUISITE(S)
1	**22711**	**CIVL100**	**INTRODUCTION TO CIVIL ENGINEERING**	**(0,1) 0**	
	22712	CIVL103	CIVIL ENGINEERING DRAWING	(2,3) 3	
	22713	CHEM101	GENERAL CHEMISTRY	(4,1) 4	
	22714	ENGL191	COMMUNICATION IN ENGLISH-I	(3,1) 3	
	22715	MATH151	CALCULUS-I	(4,1) 4	
	22716	UE - 01	UNIVERSITY ELECTIVE - 1 (CULTURE)	(3,0) 3	
			(TERM)/(CUMULATIVE) CREDITS=	(17)/(17)	
2	22721	CMPE108	ALGORITHS AND PROGRAMMING	(2,3) 3	
	22722	ENGL192	COMMUNICATION IN ENGLISH-II	(3,1) 3	22714 ENGL191
	22723	MATH152	CALCULUS-II	(4,1) 4	22715 MATH151
	22724	PHYS101	PHYSICS-I	(4,1) 4	
	22725	UE - 02	UNIVERSITY ELECTIVE - 2 (ENVIRONMENT)	(3,0) 3	
	22726	**HIST280/TUSL181**	**HIST. TURK. REF./TURK. AS A SECOND LANG.**	**(2,0) 2**	
			(TERM)/(CUMULATIVE) CREDITS=	(19)/(36)	
3	22731	CIVL211	STATICS	(4,1) 4	22724 PHYS101
	22732	CIVL261	SURVEYING	(3,2) 4	
	22733	CIVL283	MATERIALS SCIENCE	(3,1) 3	22713 CHEM101
	22734	MATH322	PROBABILITY AND STATISTICAL METHODS	(3,1) 3	22715 MATH151
	22735	PHYS102	PHYSICS-II	(4,1) 4	22724 PHYS101
			(TERM)/(CUMULATIVE) CREDITS=	(18)/(54)	
4	22741	CIVL222	STRENGTH OF MATERIALS	(4,1) 4	22731 CIVL211
	22742	CIVL284	MATERIALS OF CONSTRUCTION	(3,2) 4	
	22743	ENGL201	COMMUNICATION SKILLS	(3,0) 3	22722 ENGL192
	22744	MENG233	RIGID BODY DYNAMICS	(4,1) 4	22731 CIVL211
	22745	MATH241	LINEAR ALGEBRA AND ORD. DIFFERENTIAL EQUATIONS	(4,1) 4	22715 MATH151
			(TERM)/(CUMULATIVE) CREDITS=	(19)/(73)	

Curriculum continued

5	**22751**	**CIVL300**	**SUMMER PRACTICE**	**(0,0) 0**	**Min. Cum. Cr.=73/D.C.****
	22752	CIVL331	FLUID MECHANICS	(4,1) 4	22745 MATH241
	22753	CIVL343	INTRODUCTION TO STRUCTURAL MECHANICS	(4,1) 4	22741 CIVL222
	22754	CIVL353	EARTH SCIENCE	(4,1) 4	Min. Ac. T. =4*
	22755	CIVL361	TRANSPORTATION ENGINEERING	(4,1) 4	22732 CIVL261
	22756	MATH373	NUMERICAL ANALYSIS FOR ENGINEERS	(3,1) 3	22745 MATH241
			(TERM)/(CUMULATIVE) CREDITS=	(19)/(92)	
6	22761	CIVL332	HYDROMECHANICS	(4,1) 4	22752 CIVL331
	22762	CIVL344	STRUCTURAL ANALYSIS	(4,1) 4	22753 CIVL343
	22763	CIVL354	SOIL MECHANICS	(4,1) 4	22754 CIVL353
	22764	CIVL372	FUNDAMENTALS OF REINFORCED CONCRETE	(4,1) 4	22753 CIVL343
	22765	CIVL394	CIVIL ENGINEERING CONSTRUCTION & ECONOMY	(3,1) 3	Min. Ac. T. = 4*
			(TERM)/(CUMULATIVE) CREDITS=	(19)/(111)	
7	**22771**	**CIVL401**	**INTRODUCTION TO CAPSTONE PROJECT**	**(0,2) 1**	**Min. Ac. T. = 6*/D.C.****
	22772	CIVL451	FOUNDATION ENGINEERING	(4,1) 4	22763 CIVL354
	22773	CIVL471	DESIGN OF REINFORCED CONC. STRUCTURES	(4,1) 4	22762 CIVL344 & 22764 CIVL372
	22774	CIVL473	FUNDAMENTALS OF STEEL DESIGN	(4,1) 4	22762 CIVL344
	22775	CIVL493	CONSTRUCTION MANAGEMENT	(4,1) 4	22765 CIVL394
	22776	UE - 03	UNIVERSITY ELECTIVE – 3	(3,0) 3	
			(TERM)/(CUMULATIVE) CREDITS=	(20)/(131)	
8	22781	CIVL402	CAPSTONE PROJECT	(2,3) 3	22771 CIVL401
	22782	AEL-01	AREA ELECTIVE - 1	(3,1) 3	
	22783	AEL-02	AREA ELECTIVE - 2	(3,1) 3	
	22784	AEL-03	AREA ELECTIVE - 3	(3,1) 3	
	22785	UE - 04	UNIVERSITY ELECTIVE - 4 (ETHICS)	(3,0) 3	
			(TERM)/(CUMULATIVE) CREDITS=	(15)/(146)	

Course Flow Chart



GPA and CGPA Calculation

Letter Grades

Grade	Grade Point Equivalent	Description
A	4.0	Pass
A-	3.7	Pass
B+	3.3	Pass
B	3.0	Pass
B-	2.7	Pass
C+	2.3	Pass
C	2.0	Pass
C-	1.7	Conditional Pass
D+	1.3	Conditional Pass
D	1.0	Conditional Pass
D-	0.7	Fail
F	0.0	Fail
NG	0.0	Nil Grade
S	-	Satisfactory
U	-	Unsatisfactory
I	-	Incomplete
W	-	Withdrawal

EXAMPLE Calculation

Semester - 1

Course	Course Credits	Letter Grade	Equivalent Grade Points	Grade Points Earned
CIVL100	0	S	0	0
CIVL103	3	D-	0.7	3 x 0.7 =2.10
CHEM101	4	B-	2.7	4 x 2.7 =10.80
ENGL191	3	D	1	3 x 1.0 =3.00
MATH151	4	F	0	4 x 0.0 =0.00
UE-01	3	C	2	3 x 2 =6.00
	+			+
total credits=	17		total grade points earned=	21.90

GPA = 21.9/17=1.28

CGPA = 21.9/17=1.28

(the calculated value is 1.2882, however, Academic Status is determined using the first two digits after the decimal point without rounding)

Semester - 2

Course	Course Credits	Letter Grade	Equivalent Grade Points	Grade Points Earned
CIVL103 (repeat)	3	B+	3.3	3 x 3.3 =9.90
MATH151(repeat)	4	C+	2.3	4 x 2.3 =9.20
CMPE108	3	B	3	3 x 3 =9.00
ENGL192	3	D	1	4 x 1 =3.00
PHYS101	4	D	1	3 x 1 =4.00
	+			+
total credits=	17		total grade points earned=	35.10

GPA = 35.1/17=2.06

CGPA = $(4 \times 2.7 + 3 \times 1 + 3 \times 2) + (3 \times 3.3 + 4 \times 2.3 + 3 \times 3 + 4 \times 1 + 3 \times 1) / (10 + 17) = (19.8 + 35.1) / 27 = 2.03$

(note that the last earned letter grade is used in the CGPA calculation, and the total number of credits for two semesters is 10+17 = 27 as two of the courses in the first semester are repeated)

Minimum CGPA Requirements

AT THE END OF X^{th} ACTUAL TERM:	SATISFACTORY PROGRESS	ON PROBATION	UNSATISFACTORY (REPEATING)	COMPULSORY TRANSFER
1st Actual Term	-	-	-	-
2nd Actual Term	CGPA ≥1.50	1.00≤CGPA<1.50	CGPA<1.00	-
3rd Actual Term	CGPA ≥1.50	1.00≤CGPA<1.50	CGPA<1.00	-
4th Actual Term	CGPA ≥1.50	1.00≤CGPA<1.50	CGPA<1.00	CGPA<1.00
5th Actual Term	CGPA ≥1.80	1.50≤CGPA<1.80	1.00≤CGPA<1.50	CGPA<1.00
6th Actual Term	CGPA ≥1.80	1.50≤CGPA<1.80	1.00≤CGPA<1.50	CGPA<1.00
7th Actual Term	CGPA ≥1.80	1.50≤CGPA<1.80	1.00≤CGPA<1.50	CGPA<1.00
8th Actual Term	CGPA ≥2.00	1.80≤CGPA<2.00	1.00≤CGPA<1.80	CGPA<1.00

Our Facebook Page: https://www.facebook.com/civil.emu.edu.tr/

https://www.careeraddict.com/top-10-skills-needed-for-a-job-in-civil-engineering

PROFESSIONAL SKILLS / OCT. 13, 2017

15 Skills Needed for a Job in Civil Engineering

Author: Joanna Zambas

Civil Engineering is one of the most interesting and well-paid career paths a young person can choose and is a highly sought after profession. Without Civil Engineers we wouldn't have roads, dams, buildings, and bridges.

If you aspire to be a civil engineer, here are some of the qualities you must possess to set you above the competition:

1. Management Skills

You'll progress through your career, gaining more and more responsibility and eventually ending up as a manager of a sub-team or division. To be successful in this position you must be able to manage a number of different characters to ensure that the job is running smoothly. You must know how to motivate your team and utilise their strengths. Likewise, you must also know how to discipline someone professionally and to give due credit when it's deserved.

2. Analytical Thinking

A great engineer has excellent analytical skills and is continually examining projects and thinking of ways to make things work better. They are naturally inquisitive and like to solve complex problems.

3. Technical Skills

A skilled civil engineer should have a high level of Mathematics and Physics that allow for identifying and solving engineering problems. For example, they must accurately work out each minute detail of any infrastructure including the weight that should be distributed through a bridge. They also need to be skilled in design techniques and working with maps, drawings and models, blueprints as well as CAD software. They must efficiently predict any possible future problems and find solutions in order to prevent them.

4. Communication Skills

Yes, communication skills are essential in any job role, but when it comes to engineering they must be able to clearly communicate ideas and give direction leaving no ambiguity. They must also be able to listen and benefit from the ideas of others in the team.

5. Critical Thinking

Civil engineers are often confronted with challenging problems and must be able to devise the most effective and reasonable approach when dealing with them. In order to do so, they must have the ability to think fast but precisely in order to apply general rules to specific problems and to solve them.

6. Leadership Skills

Civil engineers must lead by example; they are ultimately in charge of surveyors, construction managers, technicians, contractors, architects, urban planners, transportation engineers as well as maintaining the trust of governmental planning authorities. To keep a project on time and budget, they must be able to successfully lead all members of their team.

7. Creative Mind

To develop and implement new projects, the ability to 'think outside of the box' and be creative is an essential skill. You are expected to create innovative ideas and follow them through.

8. Being Able to Negotiate

This isn't a skill that you will acquire at university but is an important one if you want to be a successful civil engineer. You must be able to bring others together and reconcile differences. You must also be able to negotiate deals with suppliers to reduce the cost of any one project.

9. Attention to Detail

Another key skill is having great attention to detail. Yes – this is mentioned in any job description, but when it comes to civil engineers it's crucial! Every small part of designing and implementing infrastructure needs to be precise. If there is one piece of the puzzle missing you can kiss your career goodbye.

10. Good Time Management
A required professional skill to have is good time management; “complex construction projects require effective organisation and time management if they are to be delivered to budget and on time,” says Nigel on Target Jobs. “Every team member has to keep to schedule. Deadlines mean you can’t afford to let things slip.”

11. Problem Solving
Problem-solving is used on a daily basis in the construction industry; nothing is plain sailing. You’ll have to deal with unexpected problems like burst water pipes. The key here is getting all members involved to help and solve the problem in a timely manner.

12. Being able to Visualize
The ability to visualize is a top priority when thinking of becoming a civil engineer. While planning you must be able to bring the picture to life and imagine how your idea would work and what it would look like.

13. Team-Player
An experienced civil engineer explained, in the Guardian, why being a team player is such a significant personal characteristic to have. "It's a very rewarding job – there's a great sense of teamwork that comes through creating something and facing challenges together. If you enjoy working with people to help solve problems that affect wider society, then go for it. The industry is all about jumping in and trying new solutions."

14. Passion for Learning
The last and the most important characteristic that will make you not only a better professional but also driven is a never-ending spirit for learning. It’s important to continue learning and expanding your knowledge while new methods develop. That way you will always maintain the top spot and will have fundamental skills to add to your CV.

15. Enthusiasm and Commitment
To survive in this challenging industry you must be fully committed. The working hours are not your standard 9-5 and you may find yourself working at silly hours of the night through to the morning in order to reach your deadlines. To remain sane, you must keep motivated and always have a rewarding end goal in sight.

Most of the skills are gained through experience and expanding your knowledge. A good way to enhance them is through work-experience during your first job.