

---

A geographical location and a local soil class are given for a construction site in Turkey.

1) Using the location and the local soil class information that are assigned to you, determine the linear elastic horizontal design spectrum from the Turkish Seismic Hazard Map (<https://testdth.afad.gov.tr>) for 72, 475 and 2475 years return periods. (Print spectra on the same plot).

Note: Distance to the active fault plane: 40 km.

2) Compare these spectra with the response spectrum and the design spectrum that you have calculated in Homework 1 graphically, and comment on these comparison regarding the ground motion intensity. (Print spectra on the same plot).

### Geographical Location and Local Soil Class per Student

#	Id Number	Last Name	First Name	Location (City - District)	Local Site Class
1	1701283	ABDULLAYEV	ÜLVİ	İstanbul - Büyükdada	ZC
2	1736578	ERDOĞAN	ÇAĞRI	İstanbul - Avcılar	ZD
3	1871938	GÜNEŞ	ANIL	İstanbul - Beyoğlu	ZB
4	1872027	KARADAĞ	HAZAR	İstanbul - Fatih	ZD
5	1872142	KUYUMCU	BURAK	İstanbul - Kadıköy	ZA
6	1872167	KİSELİ	HASAN BATU	İstanbul - Pendik	ZB
7	1872621	ÇANDIR	ESAT	İstanbul - Üsküdar	ZA
8	1884154	ATALAY	HASAN OĞUZ	Bolu - Center	ZC
9	1931948	DEMİRÇEKEN	ORÇUN	Bolu - Gerede	ZB
10	1932086	EMÇE	AHMET	Düzce - Center	ZD
11	1932151	GÖRAL	KORAY DENİZ	Düzce - Kaynaşlı	ZB
12	1932193	GÜMÜŞ	OĞUZHAN	Kocaeli - İzmit	ZC
13	1809417	BALABAN	BİRKAN	Kocaeli - Gölcük	ZD
14	1932565	ORAK	CELİL	Kocaeli - Karamürsel	ZC
15	1933233	ÖZSOY	CAN	Kocaeli - Derince	ZB
16	2043438	TEZGELEN	EZGİ	Kocaeli - Gebze	ZA
17	1809862	GÜVEN	MUSTAFA	Yalova - Center	ZC
18	1871391	ARIKOĞLU	PINAR	Yalova - Armutlu	ZB
19	1809284	ALTAN	YUSUF	Yalova - Çınarcık	ZD
20	1669548	DUMAN	YUSUF	İzmir - Konak	ZA
21	1933142	ÖZDEMİR	EYÜP ORÇUN	İzmir - Karşıyaka	ZB
22	1847433	RECEBLİ	JEYHUN	Erzincan - Center	ZB
23	1785955	TABİEHZAD	POURYA	Erzincan - Kemaliye	ZD
24	1810324	PAKSOY	HÜSEYİN	Tekirdağ - Şarköy	ZD
25	2276988	HADLEY	HANNAH ELIZABETH	Tekirdağ - Center	ZC
26	1810399	SEVİNDİK	HASAN SEZÂİ	Sakarya - Adapazarı	ZD
27	1847425	RABAIA	TAREQ	Sakarya - Arifiye	ZA
28	1851443	ÇAÇAN	MEHMET	Van - Erciş	ZB
29	1871250	AKBELEN	MUSTAFA BARIŞCAN	Van - Edremit	ZA
30	1871425	AVAN	MUSTAFA ALPEREN	Hatay - Antakya	ZC
31	1871748	DERİCİ	SELEN	Hatay - Kırıkhan	ZD