

Tárgytematika / Course Description Seismic design

NGM_SE113_1

Tárgyfelelős neve /

Teacher's name: Dr. Kegyes-Brassai Orsolya Katalin

Félév / Semester: 2023/24/2

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 2/1/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

Goals of the course

Aim of the course is to provide extensive knowledge on the geotechnical aspects of seismic design based on previous BSc studies. Engineering approach and seismic design overview are aimed to be developed with giving comprehensive knowledge about the topics of soil dynamics, and seismic design. Students should be able to participate in geotechnical seismic design tasks based on their knowledge acquired in this course and their further practice.

TANTÁRGY TARTALMA / DESCRIPTION

C
o
u
r
s
e

d
e
s
c
r
i
p
t

O
r
i
g
i
n
o
n
e
a
r
t
h
q
u
a
k
e
s
,
p
l
a
t
e
t
e
c
t
o
n
i
c
s
,
e
f
f
e
c
t
s
o
f
e
a
r
t
h

W
a
v
e
p
r
o
p
a
g
a
t
i
o
n
,
a
c
c
e
l
e
r
a
t
i
o
n
r
e
c
o
r
d
s

D
e
s
c
r
i
b
i
n
g

e
a
r
t
h
q
u
a
k
e
s
,
e
a
r
t
h
q
u
a
k
e

r
i
s
k

i
n

H
u
g
a
r
y

S
o
i
l
d
y
n
a
m
i
c
s
I
.
-
m
a
t
e
r
i
a
l
m
o
d
e
l
i
n
g

S
o
i
l
d
y
n
a
m
i
c
s
I
I
.
-
I
n
s
i
t
u
a
n
d
l
a
b
o
r
a
t
o
r
y
m
e
a
s
u
r
e
m
e
n
t
s

S
e
i
s
m
i
c
d
e
s
i
g
n
b
a
s
e
d
o
n
E
C
8
-
1
a
n
d
8
-
5

S
e
i
s
m
i
c
p
e
r
f
o
r
m
a
n
c
e
o
f
f
o
u
n
d
a
t
i
o
n
s

L
i
q
u
e
f
a
c
t
i
o
n
,
s
e
i
s
m
i
c
s
l
o
p
e
s
t
a
b
i
l
i
t
y
a
n
a
l
y
s
i
s

H
W
s
u
b
m
i
s
s
i
o
n
w
i
t
h
s
t
u
d
e
n
t
p
r
e
s
e
n
t
a
t
i
o
n

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Assessment methods

Students are expected to attend all classes. The requirement for obtaining signature at the end of the semester is a participation in at least 70% of the classes (10 out of 14 weeks).

All of them have to

- take two mid-term tests (2×50) and
- write the exam (40).

Evaluation - exam

Available scores in partial performance evaluation:

- | | |
|--|---------|
| <input type="checkbox"/> 3 assignments | 3× 0-20 |
| <input type="checkbox"/> exam | 0-40 |

In case on late submission the maximum obtainable score is the 80 % of the total. Deadlines are available on the Moodle-site of the course: <https://szelearning.sze.hu/course/view.php?id=373>

Exam should be written and minimum 50% of the score should be obtained.

		Marking intervals			
...-50 failed	51 - 63 accepted	64 - 76 average	77 - 89 good	90- excellent	

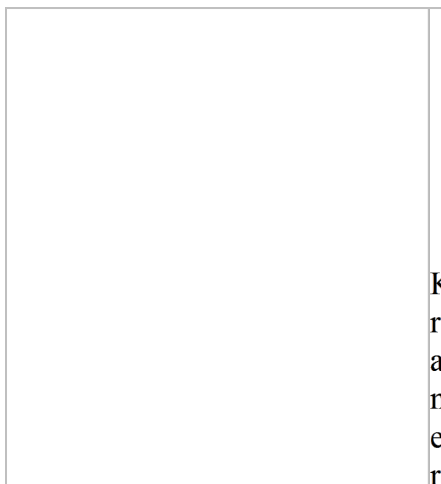
So far assignments have to be accomplished until the exam period there is no possibility to hand in assignment in exam period. Latest possibility to hand in an assignment is the Friday of the first week of exam period until midnight. Later assignments will not be taken into account at marking.

If the exam was not successful there is a possibility to try again by signing up for an exam. The time for exams will be given on Neptun.

Consultation is available within the time of the class and in another time agreed upon by a prior email.

All information concerning the course and all teaching materials are available on Moodle-site of the course. Official communication is through this site.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL



K
r
a
m
e
r
'
S
.
L
.
.
G
e
c
t
e
c
h
n
i
c
a
l
E
a
r
t
h
q
u
a
k
e
E
n
g
i
n
e
e
r
i
n
g
'
P
r
e
n
t
i

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL