

**Courses:
Groundwater Flow and
Contaminant Transport Modeling
(for HgE and EnvE)**

Course information

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Course description

- This course is partly distance learning and partly on-line!
- The course based on individual work on your own computer
- There are several videos with general information about the topic, with technical and modeling technical details to be downloaded from the internet
- There will be 3 on-line meetings scheduled to discuss the problems occurred
- You may freely contact me via e-mail or you can ask for consultation during the semester
- You must submit your assignments in a prescribed form (both the datasets and the report) to get my signature
- To have the credits you must solve a problem similar to the assignments alone



All information will be found on the net

GÁMA-GEO Hidrogeológia - Numerikus modellezés - Geotechnika - Környezetvédelem

"Azért a víz az úr!"

Magunkról

Szakértőink

Tevékenységi köreink

Referenciák

Szakmai jogosultságok



Felhagyott külfejtés tava, Rudabánya

Környezetvédelem - Ipari tevékenységek hatásvizsgálata

Kezdőoldal

Aktuális

Oktatás

Courses in English

Szakterületeink

Képgaléria

Hasznos linkek

Partnereink

Céginformációk

Elérhetőségeink

Üzenőfal

Kapcsolat:

Kovács Balázs
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Szanyi János
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Kezdőoldal

Ha a talajvízzel, ivóvízzel, hévízzel kapcsolatos gondjai vannak, jó helyen jár! Oldassa meg problémáját Velünk!

A GÁMA-GEO Kft. a hidrogeológia (vízföldtan), a geotermia, a numerikus modellezés (szimuláció) és a talajmechanika területein kínál magas szintű mérnöki szolgáltatásokat!

Kérem, barangoljon lapjainkon!

Kovács Balázs és Szanyi János
ügyvezetők

<http://www.gama-geo.hu>



Time schedule for the courses

Week	Date	Topic
1	2021.02.08	Introduction , general information
2	2021.02.15	Work on your own
3	2021.02.22	Work on your own, individual consultancy
4	2021.03.01	Work on your own, individual consultancy
5	2021.03.08	1st official consultation
6	2021.03.15	National Holiday
7	2021.03.22	Work on your own, individual consultancy
8	2021.03.29	2nd official consultattion
9	2021.04.05	Eastern Holiday
10	2021.04.12	Work on your own, individual consultancy
11	2021.04.19	Work on your own, individual consultancy
12	2021.04.26	Work on your own, individual consultancy
13	2021.05.03	3rd consultation
14	2021.05.10	Submission of assignments



How to start

- Visit the site <https://www.gama-geo.hu>
- Search for the menu **Courses in English/GW Flow & Cont. transp to obtain general informations**
- Install the sw Processing MODFLOW v8.0
- Search for the menu **Courses in English/EduVideos to download the educational materials**
 - 1. Please watch the introductory videos (#00 and #0)
 - 2. Please watch the videos to get know the software by building a simple model (videos #1 and #2)
 - 3. Please go step-by-step and parallel try to solve the assignments
 - Consultate if required by sending the dataset and the description of your problem



Software installation tips

- There are no official computers distributed by us to the students, please to use your own!
 - no special configuration needed
 - Windows op. system
 - code Processing Modflow for Windows ver. 8.0.47 for Win8 or Win10.
- The software can be downloaded from the site:
www.simcore.com. Please to **download the version v8.0** and not the freeware version 5.3.3!!! (Both can be installed but the commercial version will be restricted in model size).
- Please to install the code into a directory not far from the root (for. ex. d:\kb\pm8; c:\simcore\pm5 or similar, **don't use Desktop or the documents directory created by the Windows!**



Assignments

- 1. Hydraulic modeling of a heat pump pumping and injection
- 2. Steady state model of a well-field
- 3. Transient model of a pumping test
- 4. Investigation of a modified unit basin at unconventional boundary conditions
- 5. Modeling remediation of a contaminated site

All assignments should be **completed before the last Monday of the Semester**. They should be delivered both digitally (data sets and short resume) and in pdf printed version (short resume and some figures of interest to demonstrate the work completed)

The assignments will be uploaded step-by-step during the semester!



Whether modeling or real life, never give up easily!”
(Wen-Hsing Chiang, creator of PMWIN)

Thanks for
Your attention!

