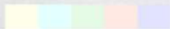




How to upload documents «Documents»

Exam Collection AIV: Community
Solutions - <https://exams.aiv.ethz.ch/>





1. Search for the corresponding subject with the search function

Community Solutions

ALPHABETICAL BY SEMESTER

Q grundba

Subject	Exams	Answers
Grundbau	0 / 0	0 %
Entwurf und Bau von Verkehrsanlagen	0 / 8	0 %
Grundzüge des Naturgefahrenmanagements	0 / 0	0 %

If a subject is missing, contact the AIV/GESO board.



2. Select the big plus under documents and press it

Documents

<p>Spick 2019 HS</p> <p>@muellvin ❤️ 1</p>	<p>TR Programm 2019 HS</p> <p>@muellvin ❤️ 0</p>	<p>TR Programm 2018 HS</p> <p>@muellvin ❤️ 0</p>
<p>Spick 2018 HS</p> <p>@muellvin ❤️ 0</p>	<p>ML der Übungen 2018 HS</p> <p>@muellvin ❤️ 1</p>	<p>HS2020 Zusammenfassung</p> <p>@lwieser ❤️ 0</p>

Add a new document

+



3a. Naming guidelines

- **Summaries:** Contains summaries of any kind (handwritten, computer-written), scripts, transcripts, etc. "Summary 20XX XS, Author".
- **Series:** Contains all assignments (series, coding exercises, Moodle quizzes) offered by the subject, preferably together with the official solution or own solutions. "Series (with ML) 20XX XS, Author"
- **Flashcards:** Contains all types of flashcards (Anki, Quizlet, handwritten, PDF etc.) "Flashcards 20XX XS, Author".
- **TR programmes:** Contains the N-Spire programmes. Each uploaded document should contain both the programme file and the corresponding summary/instructions. Name: "TR Programmes 20XX XS, Author:in".
- **Subject-specific:** Contains documents that do not fit into any other category or are too subject-specific. Examples could be reports, OLs or presentations "Project 20XX XS, Author".



3b. Name your document according to the AIV guidelines (Category, year, semester, Author) and click on «ADD+».

Add Document ×

DISPLAY NAME

An empty new document will be created. One or more files can be added to the document in the settings tab.

ADD +



4. The document has been created. Under "Settings" you can enter the detailed description and click on "Save" to save it.

COMMENTS

SETTINGS

DISPLAY NAME

Zusammenfassung 2022 HS, Max Mustermann



CATEGORY

Grundbau

DESCRIPTION

WRITE

PREVIEW

    *I* **B**

- **Autor**: Max Mustermann
- **Dozent**: Alexander Puzrin
- **Beschreibung**: Digital-verfasste Zusammenfassung/Formelsammlung für Grundbau. Natürlich kritisch zu betrachten - ich bin auch nur ein Mensch. Andererseits hat mich diese ZF gut durch die Prüfung gebracht. Viel Spass damit. Word-Datei auf Anfrage verfügbar

SUPPORTED FUNCTIONS

BROWSE IMAGES

SAVE 



5. Further down you will find the "Files" section. Click on "ADD+" to upload a file. Several files can be uploaded per document.

DESCRIPTION

WRITE

PREVIEW



- **Autor**: Max Mustermann
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SUPPORTED FUNCTIONS

BROWSE IMAGES

SAVE

Files

API Key: 25Fdj4h9kvNTz2y1y0LmY-xLVzNMS2g05i4XsISOijY



ADD +



6. You can give each 'file' a name and upload a file from your computer to it. For example, you can upload a PDF and a latex file. Click on “ADD+” to save the file.

Add File ×

DISPLAY NAME

FILE

 application/pdf 899632 ×

If you don't select any file we will create an empty markdown file for you that you can edit afterwards.

ADD +

The following file types can be uploaded:

```
(".pdf", "application/pdf"),  
(".tex", "application/x-tex"),  
(".tex", "text/x-tex"),  
(".md", "application/octet-stream"),  
(".md", "text/markdown"),  
(".md", "text/x-markdown"),  
(".txt", "text/plain"),  
(".zip", "application/zip"),
```




7. Done! Your 'Document' has been created and can be rated and commented by other users. Thank you for uploading!

HOME > GRUNDBAU > ZUSAMMENFASSUNG 2022 HS, MAX MUSTERMANN

Zusammenfassung 2022 HS, Max Mustermann

Author: @asarris

- **Autor:** Max Mustermann
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ZUSAMMENFASSUNG - PDF COMMENTS SETTINGS

Grundbau Zusammenfassung HS19
Gabriel Obrecht

Grundlagen (Bodenmechanik)

Kennwerte

Bodenmodell Gewicht Volumen

Nützliche Formeln

$$\gamma_d = \frac{\gamma}{1+w} = (1-n)\gamma_s$$
$$\gamma = \gamma_d + S_r n \gamma_w$$
$$\gamma_g = (1-n)\gamma_s + n\gamma_w = \gamma_d + \gamma_w n$$
$$e = \frac{\gamma_s}{\gamma_d} - 1 = \frac{n}{1-n}$$
$$n = 1 - \frac{\gamma_d}{\gamma_s} = \frac{e}{e+1}$$
$$S_r = \frac{w\gamma_d}{n\gamma_w} = \frac{\gamma_d}{\gamma_s} \frac{w}{\gamma_w}$$
$$\gamma' = \gamma_d - (1-n)\gamma_w$$
$$\gamma_d = \frac{\gamma_s}{1 + w \frac{\gamma_w}{\gamma_s}} \cdot (1 - A_L)$$

Spannungen

Stabilitätsprobleme

Scherfestigkeit nach Mohr-Coulomb

Bruchscherspannungen $\tau_f = c' + \sigma' \tan \phi'$
c: eff. Kohäsion

Bruchnormalspannungen $\sigma_{s,min} = \sigma'_1 \frac{1 - \sin \phi'}{1 + \sin \phi'}$
 $\sin \phi = \frac{\sigma'_1 + \sigma'_3}{\sigma'_1 - \sigma'_3}$

Dabei ist die Bruchscherspannung erreicht, falls der Mohr'sche Spannungskreis die Bruchgerade tangiert. Dann kann