

## written entrance examination.

The written entrance examination for all Bachelor's programs takes approximately 2 hours. It is designed to assess the candidate's logical reasoning, numerical skills, language skills, long-term memory and knowledge of English, as well as relevant personality traits.

Further information concerning the Master's programs can be found on the respective subpages online.

All applicants for admission to one of these programs will have to complete the following tests:

### LOGICAL REASONING

This section is to test your ability to recognize the general rules on which individual questions are founded. This ability helps you acquire new competences and recognize interconnections between different disciplines. You will have to solve two types of questions:

#### (1) Figure series

This set of questions is about being able to identify rules. You will be presented with a table of three rows and three columns containing altogether eight figures. These are arranged according to different rules. Your task will be to identify these rules and determine the ninth figure in each question.

Example:

Please identify the missing figure.

|   |   |   |
|---|---|---|
| ○ | ◐ | ∏ |
| ◐ | ∏ | ○ |
| ∏ | ○ | ? |

|                          |                          |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ○                        | ◐                        | ∏                        | ◇                        | ◓                        | ◑                        | —                        | □                        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

#### (2) Number series

This set of questions involves several series of numbers arranged according to specific rules. You will be asked to identify the underlying rules as well as the missing numbers.

Example:

1 2 3 4 5 6 ?

## NUMERICAL SKILLS

Your numerical skills will be assessed on the basis of two sets of problems:

### (1) Mathematical problem solving

Questions in this category will require you to determine the arithmetic operation (addition, subtraction, multiplication, or division) to be applied to obtain a correct result. You will have to consider the order of operations, i.e. multiplication and division first, and then addition and subtraction, in order to be able to replace the question marks with the correct operation.

Example:

$$2 \ ? \ 1 \ ? \ 2 = 5$$

### (2) Feel for numbers

This set of problems is to test your ability to estimate the results of arithmetic calculations. This ability may be helpful in assessing whether or not calculations are at all plausible.

Example:

$$20 \times 40 =$$

- 610
- 810
- 1010

## LANGUAGE SKILLS

These skills are tested through two exercises.

### (1) Verbal fluidity

In this, an unordered series of letters is to be transformed in such a way that it becomes a meaningful noun.


### (2) Word meaning

In this exercise, terms are provided from which one term is to be selected from four possible answers, which has the closest meaning possible to the initial term provided.

## LONG-TERM MEMORY

This subtest will require you to memorize the personal information such as name, date of birth, marital status, or occupation of different individuals. Later you will have to match the information provided to the individual persons.

Name: Mr. Botzif  
Date of birth: January 31st



Marital Status

Occupation **Photographer** (Non-) Smoker

Phone Hobbies

## KNOWLEDGE OF ENGLISH

### (1) Grammar

This section will present you with several incomplete sentences that have to be completed in a grammatically correct fashion. You will be asked to choose the most appropriate word or phrase from multiple options.

Example:

According to the law, an employee's salary .... on a monthly basis.

- is paid
- is being paid
- is payed
- is being payed

### (2) Vocabulary

This part of the exam will confront you with a series of sentences in each of which one word is underlined. You will then be asked either to find a word with a similar meaning or to pick the respective antonym from a list of options.

Example:

Find a word with a similar meaning:

East of the Rocky Mountains, the annual rainfall decreases substantially from the west of the Rocky Mountains.

- fundamentally
- slightly
- completely
- apparently

## RELEVANT PERSONALITY TRAITS

This test will require you to rate, on a four-point scale, how far a word or phrase is characteristic of you as a person. "Not Typical" means that the respective statement does not apply to you at all, or only to a limited extent, whereas "Typical" is to show that the statement applies to you at least in most situations.

There is no right or wrong answer. The personality test is merely about getting to know you and your potential.