

## **Qualification Assessment Regulations for the bachelor's programme Autonomous Vehicle Engineering at Technische Hochschule Ingolstadt of 17.02.2020**

### **Preamble**

Based on Art. 44 Para. 2 of the Bavarian Higher Education Act (BayHSchG) of 23 May 2006, Gazette of Laws and Ordinances (GVBl) p. 245, BayRS 2210-1-1-WFK and Sections 32 Para. 2, 19 Para. 2 of the Qualification Regulations (QualV) of 2 November 2007, GVBl p. 731, BayRS 2210-1-1-3-UK/WFK, Technische Hochschule Ingolstadt adopts the following statutes for assessing qualification.

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### **§ 1**

#### **Purpose of the qualification assessment**

(1) Admission to the bachelor's programme Autonomous Vehicle Engineering at Technische Hochschule Ingolstadt requires proof of the corresponding qualification in accordance with the provisions of these regulations in addition to the requirements listed in the currently valid version of the Programme and Examination Regulations.

(2) <sup>1</sup>In the qualification assessment process, the applicant should prove whether, in addition to the qualification demonstrated by having acquired the university entrance qualification, there is an aptitude for the special qualitative knowledge and requirements of the bachelor's programme in Autonomous Vehicle Engineering which would result in a the student completing the programme successfully. <sup>2</sup>In addition to the university entrance qualification, the following qualification requirements must be fulfilled for this course of study:

1. Strong, solid knowledge of mathematics, in particular the ability to think abstractly, logically and in a system-oriented manner and to formalise approaches to solutions;

2. Skills in the areas of natural sciences, computer science and technology;

## **§ 2**

### **Selection committee**

The qualification assessment is conducted by a selection committee consisting of at least two professors appointed by the Faculty Council of the Faculty of Electrical Engineering and Information Technology.

## **§ 3**

### **Procedure for assessing qualification**

- (1) The process for assessing the student's qualification is carried out once a year in the summer semester for the following winter semester.
- (2) Applications for admission to the qualification assessment process for the following winter semester must be submitted to Technische Hochschule Ingolstadt using the online application procedure by 15 July. In justified exceptional cases, the application period may be extended.
- (3) The application must be accompanied by
  1. Information regarding university entrance qualifications
  2. Completed questionnaire, prepared by the Faculty of Electrical Engineering and Information Technology

## **§ 4**

### **Admission requirements**

All applicants who, in accordance with § 4, Para. 3, have applied for admission to studies in due form, on time and in full, and who basically fulfil the general qualification requirements according to the Bavarian Higher Education Act (BayHSchG) in conjunction with the qualification for studies at public universities in Bavaria (QualV) for admission to studies in a technical university degree programme, will be admitted to the assessment process. If this is not the case, the student will not be admitted to the assessment process.

## **§ 5**

### **Content of the qualification assessment process**

- (1) <sup>1</sup>The qualification assessment process is carried out by making evaluations based on the following criteria:
  1. Average grade of the university entrance qualification and
  2. subject-specific individual grades

<sup>2</sup>The subject-specific individual grades are the grades listed in the university entrance qualification in the subject mathematics and the two best-rated subjects from the natural sciences, including computer science, which were acquired in the last four half-years prior to acquiring the university entrance qualification, including, if applicable, the secondary school leaving certificate (Abitur) grades listed in university entrance qualification in these subjects. <sup>3</sup>If no half-yearly grades are listed, the average grades shown in the university entrance qualification are used accordingly. <sup>4</sup>These are added together and divided by the (weighted) number of individual grades; grades for the specialised thesis or a comparable piece of work are not taken into account. <sup>5</sup>If no grade is shown in the university entrance qualification for a subject mentioned in sentence 2, the divider shall be reduced by the corresponding number.

(2) <sup>1</sup>The following applies to how the assessment is conducted:

1. <sup>1</sup>The average score of the university entrance qualification available according to the German grading system is converted into an university entrance qualification point score on a scale from 0 to 100 using the following conversion formula, where 0 is the worst and 100 the best possible score. <sup>2</sup>University entrance qualifications that have the minimum lowest pass grade will be awarded 40 points. <sup>3</sup>The conversion formula is:

$$\text{University entrance qualification score} = 120 - 20 * \text{university entrance qualification grade}$$

2. <sup>1</sup>The subject-specific individual grades of the university entrance qualification in the subject mathematics and the two best-rated subjects from the natural sciences, including computer science, are converted into subject-specific point values in accordance with the following formula, insofar as they are shown in the certificate of university entrance qualification:

$$\text{Points} = 100 - 60 * (N_{\text{opt}} - N) / (N_{\text{opt}} - N_{\text{pass}})$$

where N is the mark achieved,  $N_{\text{opt}}$  the best grade and  $N_{\text{pass}}$  the grade just sufficient to pass. <sup>2</sup>If no grade is available for a natural science subject, it is given the pass mark  $N_{\text{pass}}$ .

3. A total points score is calculated as a weighted average of the following criteria:
  - a) University entrance qualification points value with a weighting of 0.5;
  - b) Points value of the subject mathematics with the weighting 0.3 and
  - c) the arithmetic mean of the points values in the natural sciences with a weighting of 0.2

- (3) <sup>1</sup> If the total points value formed in accordance with Para. 2 is 60 or higher, the qualification assessment is deemed positive. <sup>2</sup> Applicants with a total score of 59 or less are unsuitable for the programme.

## **§ 6 Record**

A record must be kept of the course of the qualification assessment process, which must show the date and place of the qualification assessment, the names of the applicants, and the assessments pursuant to § 5.

## **§ 7 Assessment and communication of the result**

The result of the qualification assessment process for the bachelor's programme in Autonomous Vehicle Engineering will be communicated by the Service Centre for Programme Organisation.

## **§ 8 Entry into force, supplementary provisions**

These regulations enter into force on the day of their notification.

Issued on the basis of the resolution of the Senate of the Technische Hochschule Ingolstadt 17.02.2020 and the approval by the President of the Technische Hochschule Ingolstadt.

Ingolstadt, 18.06.2020

Prof. Dr. Walter Schober

President

The regulations were established at Technische Hochschule Ingolstadt on 18.06.2020. This act was published by posting on 18.06.2020 . The date of publication is therefore 18.06.2020.

