Annex Special admission requirements

1.   The admission to the degree program Communications and Signal Processing with the degree "Master of Science" requires - despite the general and other admission requirements - the presence of the following professional qualifications, which is to be verified in the aptitude test according to § 4 of the Regulations on the Admission to Master's Degree Programs at the Technische Universität Ilmenau (MAZugO). Therefore, the aptitude test determines whether the applicant meets the special subject-specific requirements for the degree program Communications and Signal Processing with the degree "Master of Science.

2.   The aptitude test shall be based on a combination of the professional qualifications listed in the following sections 3 to 6 and weighted based on scores.

3.   The Master's program is based on a first professional qualification with knowledge in the following fields:
−   Technical Mathematics, Calculation, Fourier Analysis,
−   Linear Algebra and Matrix Theory,
−   Fundamentals of Statistics and Calculus of Probability,
−   Fundamentals of Programming and Numerical Methods,
−   Fundamentals of Digital Signal Processing,
−   Fundamentals of Signals and Systems, Communications Engineering,
−   Fundamentals of Information Theory and Coding.

4.   The first professionally qualifying degree according to § 67 para. 1 sentence 1 number 4 ThürHG is assessed:
a.) with 40 points in the following degree programs (with specific and in-depth knowledge of the fields listed in item 3):
- Electrical engineering and information technology with a focus on information and communication technology or
- Computer and Systems Engineering with a focus on Telecommunications Engineering and Measurement Technology

b.) with 30 points in the following degree programs (without specific, in-depth knowledge of the fields listed in item 3):
−   Electrical Engineering and Information Technology with a major in Biomedical Engineering / Micro-, Nano-electronics and Electronics Technology / Automation Technology / Power Engineering,
−   Media Technology,
−   Computer and Systems Engineering with a major in Applied Computer Science in Technology and the Environment / Integrated Hardware and Software Systems / Medical Computer Science /Computer Science / Systems Engineering / Multimedia Information and Communication Systems,

c.) with 20 points in the following degree programs (without specific, in-depth knowledge of the fields listed in item 3):
−   Other engineering or natural science degree programs.

5.   In addition, the level of qualification is assessed according to the final grade of the degree program:

−	very good	= 30 points
−	good	= 20 points
−	satisfactory	= 10 points.

6.Furthermore, there are considered:

−   A final grade of "good" or "very good" in the three subjects or subject groups
    relevant to the degree program:
    a) Communications Engineering / Signal- and Systems Engineering / Information Theory,
    b) Digital Signal Processing / Digital Image Processing and
    c) a subject that is an essential part of the desired degree program

and
−   the completion of a closely related and equivalent bachelor's thesis or a thesis
    with at least the grade "good"

and
−   proven, qualified and closely related professional experience of at least one year.

The assessment consists of five points each. A maximum of 20 points can be earned.

7.   Should the applicant achieve the following according to the assessments with
     reference to the sections 3 to 6:

a)   The aptitude test is to be assessed as "Special access requirements met" when the
total score is 70 points or more according to the presented documents.

b)   The aptitude test is to be assessed as "Special admission requirements not fulfilled"
if, based on the presented documents, the total score is less than 60 points (§ 4 Para.
4 Sentence 4, Para. 6 Sentence 1 MA- ZugO).

8.   The responsibility for the decision according to number 1 results from § 4 para. 1
MA-ZugO. In case of doubt, the Examination Board shall decide.