



S-89.3650 Speech Processing Mathematics

.

Tom Bäckström

`Tom.Backstrom@tkk.fi`

Laboratory of Acoustics and Audio Signal Processing,
TKK (Helsinki University of Technology), Finland





Exams



- Three options:
 1. Oral exam + exercises (1:2 weight ratio)
 2. Written exam + exercises (1:2 weight ratio)
 3. Written exam only





Oral exam



- Available for those who have done the exercises.
- **Purpose:** To *verify* that student has done the exercises *and* provide feedback.
- Questions (1.–3.) given 15 min before session
- Session lasts 15 min (+ discussion)
- Grading 0–5 (1 required minimum to pass).
- You *may* check from the compendium during exam, calculator is not needed.





Oral exam



- Questions
 1. An easy derivation or proof.
 2. Theoretical question (“Explain X”).
 3. Applicative question (“How can you use X in Y?”)
 4. Discussion about course and feedback (“How do you feel about the course?”, “What did you learn?”, “What was difficult?” etc.)





Written exam



- For those who have not done the exercises or wants to improve grade.
- **Purpose:** To demonstrate and verify that student is able to apply his knowledge learned on the course.
- Grading 0–5 (1 required minimum to pass).
- Only a calculator is allowed.





Written exam



- Questions (changes possible)
 1. Explain shortly 6 terms. (“What does X mean?”)
 2. Easy derivation or proof *similar* in concept to those in exercises or compendium.
 3. Advanced derivation or proof from exercises.
 4. Theoretical (detailed) question (“Describe method X, including assumptions and their validity, algorithm and usage”).
 5. Applicative question (“How can you use X in Y?”).
 6. Research question (“What would you do if...?”).

