

## **LEARNING OBJECTIVES - Lecture 2 (Coding)**

*After attending lecture and completing the associated readings, you should be able to:*

1. Compute the performance of repetition codes.
2. Prove the optimality of minimum distance decoders and the sphere-packing bound.
3. Describe general properties of Hamming codes.
4. Encode and decode Hamming codes, and compute their performance.
5. State and use the Gilbert-Varshamov bound.