

## **LEARNING OBJECTIVES - Lecture 25 (Error Exponents)**

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

1. Describe the nature of characterization of communications that error exponents provide, as compared to channel capacity or finite blocklength analysis
2. Derive the noisy channel coding theorem in a refined manner that yields the random coding error exponent.
3. Discuss the intuition for why the random coding error may be loose.