Ders izlence Formu

Dersin Kodu ve İsmi	**EEE208 Probability and Random Variables**
Dersin Sorumlusu	Assistant Professor Selçuk Taşcıoğlu Assistant Professor Gökhan Soysal
Dersin Düzeyi	Lisans
Dersin Kredisi	3
Dersin Türü	Teorik
Dersin İçeriği	Probability concept, randomness, total probability theorem, Bayes' rule, random variables, density and distribution functions, expected value, variance and moments, relation between random variables, sample mean and variance, experimental distributions, statistical inference, classification and characterization of random variables, correlation functions, properties of auto-correlation and cross-correlation functions, sample mean and sample correlation functions.
Dersin Amacı	Providing detailed knowledge on probability and random processes to students. Teaching the relation between single/multiple random variable and random processes. Engineering applications of probability theory and random processes.
Dersin Süresi	3 hours/week
Eğitim Dili	English
Ön Koşul	MTH101, MTH102
Önerilen Kaynaklar	Text Book: 1) D. P. Bertsekas, J. N. Tsitsiklis, "Introduction to Probability", 2nd Ed., Athena Science 2008. Reference Books: 1) A. Papoulis, S. U. Pillai, "Probability, Random Variables and Stochastic Processes", McGraw-Hill 2002. 2) A. Leon-Garcia, "Probability, Statistics, and Random Processes for Electrical Engineering", 3rd Ed. Pearson 2008 3) X. Rong Li, "Probability Random Signals and Statistics", CRC Press 1999 4) S. M. Ross, "A First Course In Probability", Pearson 2009.
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