## Lab Nr. 5, Probability and Statistics

## Numerical Characteristics of Random Variables

Statistics Toolbox: stat

The means and variances of the following distributions:

Distribution	Notation	Mean	E(X)	Variance $V(X)$
discrete uniform	U(m)			
binomial	B(n,p)			
hypergeometric	$H(N, n_1, n)$			
Poisson	$P(\lambda)$			
Pascal	NB(n,p)			
(Neg. Bin.)				
geometric	G(p)			
uniform	U(a,b)			
normal	$N(\mu,\sigma)$			
gamma	Ga(a,b)			
exponential	$Exp(\lambda)$			
beta	eta(a,b)			
Student	T(n)			
chi squared	$\chi^2(n)$			
Fisher	F(m,n)			