

ECE 686 “Wireless Communication Networks” – Project #2

Your Name: _____

Your Student ID: _____

1. Use Matlab (or other programming softwares) to repeat Example 6.1 on Pages 23–27 of Lecture #9 “Access Control”. Please plot λ^* versus B_T , and P_L versus B_T . Please include your code in your report. If you use Matlab, you can use function “inv” to get the inverse of a matrix, and use function “eig” to calculate the eigenvalues and eigenvectors of a matrix. Please note that the definition of eigenvalue and eigenvector of a matrix in Matlab are different from those in our lecture notes. Therefore, before using function “eig”, you may need to perform transpose operation for your target matrix.