Quantum Computing and Cryptography - 06: Properties and Operations on Vectors and Matrices in Complex Vector Spaces

MICROMODULE

Abhishek Parakh - September 20, 2018

Outcomes

Evaluate and Synthesize

Students will be able to combine concepts to write Python programs to determine the norm and inner product of vectors and matrices.

Apply and Analyze

Students will be able to calculate the norm of a vector.

Apply and Analyze

Students will be able to calculate the projection of one vector onto another vector.

Apply and Analyze

Students will be able to apply concept of orthogonal and orthonormal vectors and basis.

Remember and Understand

Students will be able to recognize the definition and properties of inner product of vectors and matrices.

Remember and Understand

Students will be able to express a vector using a given basis set.

Apply and Analyze

Students will be able to calculate the inner product.

Content

Notes

For solutions for Final Quizzes please contact Dr. Abhishek Parakh at aparakh@unomaha.edu.