Quantum Computing and Cryptography - 07: Advanced Concepts in Complex Vector Spaces

MICROMODULE

Abhishek Parakh - September 20, 2018

Outcomes

Evaluate and Synthesize

Students will be able to prove properties of Hermitian and unitary matrices.

Remember and Understand

Students will be able to recognize implication of unitary matrices as transformations in quantum computing.

Evaluate and Synthesize

Students will be able to implement Python programs that check if a given matrix is Hermitian or unitary.

Evaluate and Synthesize

Students will be able to prove properties of unitary and Hermitian matrices.

Remember and Understand

Students will be able to express meaning of eigenvalues and eigenvectors and compute them.

Content

Notes

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