



Certificate of Achievement

Karam Kottish

has completed the following course:

AN INTRODUCTION TO CRYPTOGRAPHY
UNIVERSITY OF LEEDS, CLICK START AND INSTITUTE OF CODING

This online course explored the basics of encryption, decryption, and standard cryptographic protocols, as well as modern methods, such as public key cryptography systems.

2 weeks, 3 hours per week



Dr Sam Wilson
School of Computing, University of Leeds
University of Leeds



The person named on this certificate has completed the activities in the attached transcript. For more information about Certificates of Achievement and the effort required to become eligible, visit futurelearn.com/proof-of-learning/certificate-of-achievement.

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97%
OVERALL
SCORE

This online course explored the basics of encryption, decryption, and standard cryptographic protocols, as well as modern methods, such as public key cryptography systems. Learners examined RSA (Rivest-Shamir-Adleman) and its role in establishing secure connections and facilitating secure data exchange over the web. They considered how hash functions ensure data integrity and the significance of digital signatures in verifying the authenticity and integrity of messages or documents.

- Simple ciphers
- Modern day cryptography and RSA
- End-to-end encryption
- Hash functions

STUDY REQUIREMENT

2 weeks, 3 hours per week

LEARNING OUTCOMES

- Describe what cryptography is
- Apply simple ciphers to encrypt and decrypt messages
- Describe how a number of simple ciphers work
- Apply modern ciphers to encrypt and decrypt messages
- Explain the concepts of private key and public key cryptography
- Explain what end-to-end encryption is and where it is used
- Explain how digital signatures can be used to prove the authenticity of a message.

SYLLABUS

On this course, you'll explore the foundations of encryption, decryption, and cryptographic protocols. Through a combination of theoretical concepts, practical examples, and hands-on exercises, you'll gain a solid understanding of the principles and applications of cryptography.

- An introduction to simple cryptography