

WOMANIUM GLOBAL ONLINE QUANTUM MEDIA PROJECT

In this list, I accumulated all the articles written for **<W|Q>23 media project**. This project will help me to dive into the cryptographic world(From Classical to Quantum Approach). I am joining another project in the next cohort of the **#Quantum30 challenge** on another topic or maybe with this topic again with higher-level concepts and detailed content.

I want to take a moment to express my gratitude to **Marlou Slot, PRACHI V and Dr. Manjula Gandhi** for this initiative and encouragement and sincere thanks to **Moses Sam Paul Johnraj** for providing the 30-day schedule.

I also want to extend my thankfulness to [<W|Q>](#) team and [QCI](#) team and all other fellow learners for constantly encourage me and support me in this journey!

[Joining My #Quantum30 Journey 🚀 : A Voyage into the Quantum Cryptography World](#) 

Week 1

1. [Introduction to Cryptography: Safeguarding Secrets in the Digital World](#)
2. [Modular Arithmetic: The Key to Unbreakable Secrets in Cipher](#)

3. [Guarding Secrets: Understanding Stream Ciphers, Random Numbers, and the One-Time Pad](#)
4. [Cryptographic Evolution: From Feistel Cipher to Triple DES and Beyond](#)
5. [Introduction to Galois Fields: Exploring AES Fields and Finite Field Arithmetic](#)
6. [The Lock and Key of the Digital Realm: Understanding AES Encryption](#)
7. [Week 1 Reflections: A Journey into the Fascinating World of Cryptography](#)

Week 2

8. [Exploring Number Theory: Euclidean Algorithm, Euler's Phi Function, and Euler's Theorem](#)
9. [RSA Cryptosystem and Efficient Exponentiation: Safeguarding Digital Communication](#)
10. [Exploring the Diffie-Hellman Key Exchange, Discrete Logarithm Problem, and the Significance of Cyclic Groups in Cryptography](#)
11. [Digital Signatures and Security Services: Ensuring Trust in the Digital Age](#)
12. [Hash Functions: Unveiling the Key to Secure Digital Signatures and Data Integrity](#)
13. [Man-in-the-Middle Attack, Certificates, PKI, and Asymmetric Key Establishment: A Comprehensive Analysis](#)
14. [Week Two Progress: Navigating the Depths of Cryptography and Entering the Quantum Frontier](#)

Week 3

15. [The Map of Quantum Computing](#)
16. [Exploring Quantum Computers: From Bits to Qubits and Superposition](#)
17. [Quantum Technology's Rise and its Implications for Internet Safety](#)

- 18. [Unveiling the Enigma of Shor's Algorithm: From Quantum Mysteries to Efficient Factorization](#)
- 19. [Grover's Algorithm: Quantum Leap in Search Efficiency](#)
- 20. [Navigating the Quantum Cryptanalysis Landscape](#)
- 21. [Week Three Progress: Journeying Through Quantum Realms](#)

Week 4

- 22. [Quantum Cryptography: Safeguarding Information with the Power of Quantum Mechanics](#)
- 23. [Quantum Key Distribution: Securing Communication in the Quantum Era](#)
- 24. [Quantum Secure Communication: Unleashing Unbreakable Connections](#)
- 25. [Embracing the Future: Navigating the Realm of Post-Quantum Cryptography](#)
- 26. [Quantum Error Correction and Fault Tolerance: Part 1](#)
- 27. [Quantum Error Correction and Fault Tolerance: Part 2](#)
- 28. [Week 4 Reflection: Diving Deeper into Quantum Cryptography and Beyond](#)

Conclusion Days

- 29. [Securing the Quantum Future: Exploring Eavesdropping Strategies in Quantum Cryptography and Fault-Injection Attacks on Post-Quantum Cryptography](#)
- 30. [Securing the Future: Exploring Quantum Cryptography in the #Quantum30 Challenge](#)

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