

Reference links by Prof. Prakash Sir provided 2023

<https://www.analyticsinsight.net/10-popular-cybersecurity-certifications-2023-updated/>

<https://www.geeksforgeeks.org/system-security/>

<https://www.geeksforgeeks.org/ip-security-ipsec/?ref=rp>

Focus on internet security protocols (types)

SSL, SET, TLS etc

It's comparison

Email security:

WEP

SMTP, PRIVACY ENHANCED MAIL (PEM), PRETTY GOOD PRIVACY (PGP), secure multipurpose internet mail extension (S/MIME), wireless application protocol (WAP) security,

<https://www.simplilearn.com/tutorials/cryptography-tutorial/deffie-hellman-key-exchange>

https://www.tutorialspoint.com/cryptography/feistel_block_cipher.htm

<https://www.the420.in/india-cybersecurity-threats-ntro-arun-sinha-warning-cocon-keral-police/>

<https://www.the420.in/ministry-home-affairs-seeks-cyber-commandos/>

<https://www.thehindu.com/sci-tech/technology/india-amongst-top-three-most-targeted-apac-countries-use-ai-ransomware-increase-report/article67391822.ece/amp/>


<https://www.youtube.com/watch?v=Dau89ALHbVc>

<https://www.slideshare.net/hemantbib/cyber-security-data-protection>

<https://www.thehindu.com/sci-tech/technology/hamas-israel-conflict-enters-cyber-space-hacker-target-government-private-assets/article67403631.ece>

<https://government.economictimes.indiatimes.com/amp/news/secure-india/bharat-ncx-2023-national-security-council-secretariat-organizes-2nd-edition-of-cyber-security-exercise/104311761>

<https://www.geeksforgeeks.org/implementation-diffie-hellman-algorithm/>

 **x = 3**

A = $g^x \bmod n$
 = $7^3 \bmod 11$
 = $343 \bmod 11$

B = 10


K = $B^x \bmod n$
 = $10^3 \bmod 11$

K = 10

Large prime numbers

n = 11

g = 7

y = 5 

B = $g^y \bmod n$
 = $7^5 \bmod 11$
 = $16807 \bmod 11$

A = 2

K = $A^y \bmod n$
 = $2^5 \bmod 11$

K = 10

<https://www.analyticsinsight.net/ethical-hacking-jobs-vacancies-apply-now/>

<https://www.thehindu.com/sci-tech/technology/internet/hackers-fake404-error-page-steal-sensitive-data/article67403068.ece/amp/>

<https://m.timesofindia.com/city/mumbai/health-co-on-investor-hunt-loses-2-5cr-to-cyber-fraud/articleshow/104385790.cms>

<https://www.the420.in/bollywood-star-aftab-shivdasani-cyber-kyc-scam/>

<https://www.amarujala.com/technology/tech-diary/health-company-loses-of-rs-2-25-crore-in-cyber-frauds-was-looking-for-investors-2023-10-13>

<https://thehackernews.com/2023/10/unraveling-real-life-attack-paths-key.html?m=1>

<https://thehackernews.com/2023/10/darkgate-malware-spreading-via.html>