

A Review Paper on Cryptographic Algorithms

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Abstract: *Cryptography separates the capacities for encryption, decryption and because of that many people able to encrypt the messages such a way that many people now can able to read the encrypted messages. Many security safeguards in a system or network not only fulfill their principal task but also act collectively to mutually protect one another and data security has become a main concern for everyone connected to the internet. Data security ensures that our data is only accessible by the intended receiver and prevents the alternation of the data. To achieve this level of security to our data, we can so many algorithms and methods that are already developed so far. Cryptography to protect communications, cryptographic key, which is a piece of information, not a material object. The algorithm transforms the plaintext into the ciphertext, using a particular key.*

Keywords: Cryptography.

REFERENCES

- [1] N. Sharma , Prabhjot and H. Kaur, "A Review of Information Security using Cryptography Technique," International Journal of Advanced Research in Computer Science, vol. 8, no. Special Issue, pp. 323-326, 2017.
- [2] B. Preneel, Understanding Cryptography: A Textbook for Students and Practitioners, London: Springer, 2010.
- [3] J. Katz and Y. Lindell, Introduction to Modern Cryptography, London: Taylor & Francis Group, LLC , 2008.
- [4] S. J. Lincke and A. Hollan, "Network Security: Focus on Security, Skills, and Stability," in 37th ASEE/IEEE Frontiers in Education Conference, Milwaukee, 2007.
- [5] O. O. Khalifa, M. R. Islam, S. Khan and M. S. Shebani, "Communications cryptography," in RF and Microwave Conference, 2004. RFM 2004. Proceedings, Selangor, 2004.
- [6] N. Jirwan, A. Singh and S. Vijay , "Review and Analysis of Cryptography Techniques," International Journal of Scientific & Engineering Research, vol. 3, no. 4, pp. 1-6, 2013 .
- [7] S. Tayal, N. Gupta, P. Gupta, D. Goyal and M. Goyal, "A Review paper on Network Security and Cryptography," Advances in Computational Sciences and Technology , vol. 10, no. 5, pp. 763-770, 2017.
- [8] A. Gupta and N. K. Walia, "Cryptography Algorithms: A Review," International Journal of Engineering Development And Research, vol. 2, no. 2, pp. 1667-1672, 2014.