

**IMPLEMENTATION OF ADVANCED ENCRYPTION
STANDARD CRYPTOGRAPHY ALGORITHM IN WEB-BASED
DOCUMENT FILE SECURITY APPLICATIONS**

DANANG DWI ATMAJI SANTOSO

Informatics Study Program, Faculty of Science & Technology

University of Technology Yogyakarta

Jl. Ringroad Utara Jombor Sleman Yogyakarta

E-mail: danangde28@gmail.com

ABSTRACT

Cryptography is a science of protecting data and information by scrambling the data so that it cannot be read or understood by unauthorized parties. One of the data that is at risk of being misused is document data. In this research, the Advanced Encryption Standard (AES) cryptographic algorithm was used. The AES algorithm is part of the symmetric algorithm and is a stream cipher type algorithm that processes input data units with the encryption and decryption processes having the same key. The result to be achieved from this research is a web-based document file security application using the AES algorithm. The application of AES cryptography to document file security can protect the security of document data through the encryption and decryption process, maintain data confidentiality and avoid theft of document data so that it cannot be misused by irresponsible parties.

Keywords: *Application, Cryptography, AES Algorithm, Document.*