Department of CSE (Data Science)

B. Tech VII Semester in CSE (Data Science)
Course Name: BDS4703 Cryptography and Network Security - Lab

BDSXX19	Course Outcomes
After the completion of this course, students will be able to-	
BDS4703.1	**Implement** classical encryption algorithms like Caesar and Vigenère ciphers to understand the foundational principles of cryptography.
BDS4703.2	**Apply** modern symmetric and asymmetric encryption techniques such as DES, AES, RSA, and ElGamal for secure data transmission.
BDS4703.3	**Analyze** and compare different AES modes of operation by visualizing encryption differences on sample plaintexts.
BDS4703.4	**Demonstrate** the creation and verification of digital signatures and secure message authentication using tools like OpenSSL and HMAC.
BDS4703.5	**Utilize** PGP for secure email communication and analyze SSL/TLS traffic using tools like Wireshark to understand secure communication protocols.