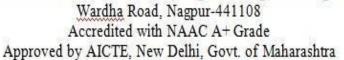




TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology





(An Autonomous Institution Affiliated to RTM Nagpur University)

Department of CSE (Data Science)

B. Tech VII Semester in CSE (Data Science)

Course Name: BDS4703 Cryptography and Network Security - Lab

| BDSXX19 | Course Outcomes |
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| 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. |