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**PROJECT REPORT ON  
“SECURE DIGITAL SIGNATURE USING THRESHOLD  
MULTISIGNATURE”**

**(Sponsored by K.S.C.S.T, Bangalore)**

**Submitted as part of  
Bachelor of Engineering in**

**COMPUTER SCIENCE & ENGINEERING**

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## **ABSTRACT**

Threshold-multisignature schemes combine the properties of threshold group-oriented signature schemes and multisignature schemes to yield a signature scheme that allows a threshold or more group members to collaboratively sign an arbitrary message. In contrast to threshold group signatures, the individual signers do not remain anonymous, but are publicly identifiable from the information contained in the valid threshold-multisignature. The main objective of this project is to propose such a secure and efficient threshold-multisignature scheme. The project uniquely defines the fundamental properties of threshold- multisignature schemes and shows that the proposed scheme satisfies these properties and eliminates the latest attacks to which other similar schemes are subject. The efficiency of the proposed scheme is analyzed and shown to be superior to its counterparts.