**DECLARATION CERTIFICATE**

I hereby, certify that the work which has been presented in the Project entitled “**SECURE TEXT CHAT USING FIBONACCI ENCRYPTION*”*** in partial fulfillment of the requirement for the award of the Degree of **Bachelor of Technology**, submitted in the Department of Computer Science & Engineering, Birla Institute of Applied Sciences, Bhimtal, is an authentic record of my work under the supervision of **MR. KAUSHAL BHATT.**

The results embodied in this project have not been submitted by me or anybody else to any other University of Institute for the award of any Degree or Diploma.

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This is to certify that the above statement made by the candidate is correctto the best of my knowledge.

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**ABSTRACT**

In this project, secure text chat using a generalized Fibonacci matrix and a *pq*-generalized Fibonacci matrix are proposed and their construction methods are obtained. As an application, an encryption/decryption algorithm based on *pq*-generalized Fibonacci matrix is also proposed. A secure text chat has communications encrypted with keys the provider does not have access to (end-to-end encryption). The algorithm permits large key amount and has verification capability at the receiver’s end.

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