



# UNIVERSITY OF NORTH BENGAL

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## CERTIFICATE

We certify that the thesis entitled, “Studies of codon usage, proteome analysis and evolution of nitrogen fixing genes in some microorganisms-a bioinformatic approach” submitted by Mr. Saubashya Sur for the award of PhD degree from DRS Department of Botany of the University of North Bengal, embodies the record of the original investigation carried by him under our supervision. He has been duly registered and the thesis presented is worthy of being considered for the award of Doctor of Philosophy (Science) degree in Botany. The work has not been submitted for any degree of this or any other university and is in accordance with the rules and regulations of the University of North Bengal.

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