

# Indian Statistical Institute



*certifies that*

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*was admitted to the degree of*

**Doctor of Philosophy (Ph.D.)**

**in Computer Science**

*of the Institute on 5th July, 2011*

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*Bimal Ray*

*Director*

*B. P. Sinha*

*Dean of Studies*

*Dated Kolkata, the Twelfth day of January 2012*