

20135087



Certified that

Sri Ranjib Biswas

was admitted to the Degree of Doctor of Philosophy in Engineering of this University on 04/09/2013 and that the degree was conferred on him/her at the Convocation held in December 2013 with all the Rights and Privileges thereto appertaining.

In Witness whereof the Signature of the Vice-Chancellor of
Jadavpur University *is hereunto affixed.*



JADAVPUR UNIVERSITY
The 24th December, 2013

Acherkul.
Vice-Chancellor