

12035

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

Sovan Kumar Panda

in recognition of the research work on

Synthesis of Zinc Oxide and Silicon Carbide Nanostructures and Thin Films

Given under the seal of the Institute at Khargapur on the Seventeenth day of July, Two Thousand and Ten

[Signature]
Registrar



[Signature]
Director

[Signature]



20051623



Jyoti's Group of Institutions



Certified that Sri / Smt. **Sovan Kumar Panda**

having passed the Final Examinations of 2005 held in the year 2005, has been admitted to the Degree of **Master of Technology in Material Engineering** with all the Rights and Privileges thereto appertaining at the Convocation held in 2005 and that he/she was placed in **First Class**.

In Witness whereof the Signature of the **Vice-Chancellor** of **Jyoti's University** is herewith affixed.



JYOTI'S UNIVERSITY
The, 24th December, 2005

[Signature]
Vice-Chancellor

[Handwritten marks]