Certificate



This is to certify that the project work titled “**Mathematical modeling with applications in problems of Physics and Mathematics**” has been successfully carried out by Gursimran singh, student of B.E Computer Science and Engineering, Thapar univerity, Patiala under the “KVPY Summer Camp 2011” from June 2 to July 13 2011, under the guidance of Prof. K G Suresh, Physics Department, IIT Bombay.

Prof. K G Suresh  
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Acknowledgements

First of all, I would like to express my sincere thanks to KVPY cell for inviting me for this summer camp. I believe, a student gets an excellent research field after attending this camp.

My whole hearted thanks to Mr. Amit Shinde for his support and help throughout the duration of my stay.

I would like to thank with most emphasis to Prof. K G Suresh for his extraordinary help and support in my project. Apart from that I would like to thanks him for supporting and inspiring me to work in physics despite not being a physics background student. I thank him for providing me this excellent platform that will act like a stepping stone for my future endeavors in physics too.

Mr. Bibekanandani Maji, research scholar, IITB, for helping me out at various instants in my project, especially in things related to *magneto-caloric* effect and in data of the compound that I studied.

My friends and KVPY invitees, for their support and never letting me feel that I was away from home and my family for extending support all the way, and uncompromised support for such a unique experience of a lifetime.

Thank you everyone.

Preface

This project is my journey into mathematical modeling and simulation. Soon after I started it, I realized that it is a very powerful tool and is a new way of looking into the world, a bit more computationally and more mathematically.

I have included a lot of theory, in addition to results that I obtained primarily because I wanted to document my learning in IITB so that it may server as a reference for me in future.