

July 20, 2013

## **CERTIFICATE**

This is to certify that the thesis entitled “**Computational Analysis of III-V Semiconducting Multilayer Nano-heterostructures.**” Submitted for the degree of Doctor of philosophy to Banasthali Vidyapith by *Sapna Gupta*, is an original piece of research work and a record of bonafied investigation carried out by her under my supervision. To the best of my knowledge no part of this thesis has been accepted or published for any degree in any institution in India or abroad.

I strongly recommend the submission of her thesis to the Banasthali Vidyapith for awarding her Doctor of Philosophy degree.

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