

**SCHOOL OF ENGINEERING,  
AMRITA VISHWA VIDYAPEETHAM,  
AMRITA CENTRE FOR NANOSCIENCES & MOLECULAR MEDICINE,  
KOCHI 682041.**

**DECLARATION**

I **Mr. Abhilash Sasidharan (KH.NS.D\*NMS07001)** hereby declare that this thesis titled “**NANO-BIO INTERACTIONS OF ZnO AND GRAPHENE NANOSYSTEMS: UNDERSTANDING THE POTENTIAL IN VITRO AND IN VIVO RESPONSE**” is a bonafide record of original work done by me under the guidance of **Dr. Manzoor Koyakutty**, Professor, Amrita Centre for Nanosciences and Molecular Medicine, Kochi and to the best of my knowledge and belief, it contains no material previously published or written by another person, no material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Place: Ernakulam

**Abhilash Sasidharan**

Date: 07-11-2012

**Thesis co-advisors**

**Thesis adviser**

**Prof. Shantikumar V Nair**

Director  
Amrita Centre for Nanosciences &  
Molecular Medicine  
AIMS  
Kochi

**Prof. Manzoor Koyakutty**

Professor  
Amrita Centre for Nanosciences &  
Molecular Medicine  
AIMS  
Kochi

**Dr. Deepthy Menon**

Associate Professor  
Amrita Centre for Nanosciences &  
Molecular Medicine  
Kochi