

**“A THEORETICAL SCRUTINY ON HIRSHFELD SURFACE  
ANALYSIS, MOLECULAR DOCKING OF A PYRIDINE  
DERIVATIVE AND ITS REACTIVE STUDY BASED ON  
QUANTUM CHEMICAL CALCULATIONS”**

*Dissertation submitted to University Of Kerala In partial fulfillment  
of the requirements for award of the degree of*

**MASTER OF SCIENCE IN PHYSICS**

**By**

**VARSHA VIJAYAN**

**Reg. No. 630-16142011**

**Under the guidance of**

**Dr. Renjith R, Assistant Professor,**

**Department of Physics**



**TKM COLLEGE OF ARTS AND SCIENCE, KARICODE, KOLLAM**

**UNIVERSITY OF KERALA**

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**THANGAL KUNJU MUSALIAR COLLEGE OF ARTS &  
SCIENCE, KOLLAM**



**DEPARTMENT OF PHYSICS**

**CERTIFICATE**

This is to certify that this project report entitled "A THEORETICAL SCRUTINY ON HIRSHFELD SURFACE ANALYSIS, MOLECULAR DOCKING OF A PYRIDINE DERIVATIVE AND ITS REACTIVE STUDY BASED ON QUANTUM CHEMICAL CALCULATIONS" during the year 2016-2018 in partial fulfillment of the requirements for the award of Master Degree Program in Physics by the University of Kerala certified that this bonafide work carried out under my super vision.

*Guided by*

**Dr. Renjith R**

Assistant Professor

Department of Physics

TKM College of Arts and Science

Kollam

**Smt. N.K. SAJNA**

Head of the Department

Department of Physics

TKM College of Arts and Science

Kollam