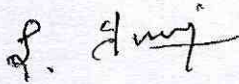


## CERTIFICATE

This is to certify that the dissertation entitled “ **STRUCTURAL AND MORPHOLOGICAL BEHAVIOR OF NICKEL ION DOPED COBALT ALUMINATES**” submitted to the Karpagam Academy of Higher Education in partial fulfilment to the requirements for the award of the degree of “**Bachelor of Science in Physics**” is a bonafide record of original research work done by “**LENIN.A (17PHU029)**” during the period 2019-20 of their study in the Department of Physics at Karpagam Academy of Higher Education, Coimbatore, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/Associate/Fellowship or similar title to any candidate of any university.



**Signature of Supervisor**

Dr. S. Yuvaraj  
Assistant Professor



**Head of the Department**

Dr. E. Siva Senthil  
Associate Professor  
Head of the Department  
Department of Physics  
Faculty of Arts, Science and Humanities  
Karpagam Academy of Higher Education  
Coimbatore – 641 021, Tamil Nadu, India.