

CERTIFICATE

This is to certify that the project entitled “Annealing effect on the crystallization of gold and copper oxide nanoparticle-doped poly (vinylidene difluoride) (PVDF) thin films” is a bona fide work carried out by **Haritha Prasad (218115)** under the guidance of **Dr Shilpa T H** in the **Department of Post-graduate Studies and Research in Physics, St Aloysius College (Autonomous), Mangaluru.**

The same is being submitted to the **Department of Post-graduate Studies and Research in Physics, St Aloysius College (Autonomous), Mangaluru**, in partial fulfilment of the requirements for the award of **Master of Science in Physics**. No part of this report has been presented for the award of any other degree.

Name and signature of HOD



Dr Chandra Shekhara Shetty T
Head of the department of PG studies
Research in Physics and
St Aloysius College (Autonomous)
Mangaluru

Head

**Department of Post - Graduate
Studies & Research in Physics
St Aloysius College
(Autonomous)
Mangaluru - 575003**

Name and signature of the Guide



Dr Shilpa T H
Department of PG studies and
Research in Physics
St Aloysius College (Autonomous)
Mangaluru

