

**STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF
PURE TiO₂ AND Al&Cu DOPED TiO₂ THIN FILMS CATALYSTS AND IS
ENHANCED VISIBLE LIGHT PHOTOCATALYTIC PERFORMANCE**

A Project report submitted to Periyar University, Salem in partial fulfillment of the requirements

for the award of the degree of

MASTER OF SCIENCE IN PHYSICS

to the

Periyar University, Salem – 11

Submitted

By

V. POOJA

(Reg.No.C23PG173PHY006)

Under the Guidance of

Mrs. K. SHANMUGAESWARI, M.Sc., M.Phil.,



KAILASH WOMEN'S COLLEGE

ANAITHUM VELVOM

DEPARTMENT OF PHYSICS

KAILASH WOMEN'S COLLEGE

(Affiliated to Periyar University)


Salem – 636 502

(2024 – 2025)

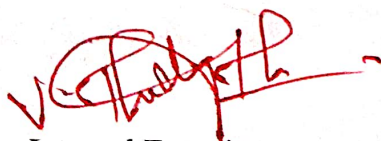
CERTIFICATE


This is to certify that the Project entitled "STRUCTURAL, MORPHOLOGICAL & OPTICAL PROPERTIES OF PURE TiO₂ AND Al&Cu DOPED TiO₂ THIN FILMS CATALYSTS AND IS ENHANCED VISIBLE LIGHT PHOTOCATALYTIC PERFORMANCE" submitted to Periyar University, Salem in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE IN PHYSICS is a record of the original research done by V.POOJA, (C23PG173PHY006) during the period of her study in the Department of Physics, Kailash Women's College, Salem – 636 502 under my supervision and guidance and the project has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or similar title to any candidate of any University.


Signature of the guide


Signature of the HOD
HEAD OF THE DEPARTMENT
DEPARTMENT OF PHYSICS
KAILASH WOMEN'S COLLEGE
PERIYASORAGAI (PO),
NANGAVALLI, SALEM-636 502


Submitted for the Viva-Voice Examination Held on 12/4/2025


Internal Examiner


External Examiner

DECLARATION

I hereby declare that the Project entitled “**STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF PURE TiO₂ AND Al&Cu DOPED TiO₂ THIN FILMS CATALYSTS & IS ENHANCED VISIBLE LIGHT PHOTOCATALYTIC PERFORMANCE**” submitted to Periyar University, Salem in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE IN PHYSICS** is a record of the original research done by me under the supervision and guidance of **Mrs. K.SHANMUGAESWARI., M.Sc., M.Phil.,** Assistant Professor, Department of Physics, Kailash Women’s College, Salem-636502 and that it has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or similar title to any candidate of any University.



Signature of the Candidate

V.POOJA

(Reg.No.C23PG173PHY006)

PLACE: Nangavalli



Signature of the Guide