

**“GROWTH AND CHARACTERIZATION OF PbS THIN  
FILMS BY CHEMICAL BATH DEPOSITION”  
A PROJECT REPORT SUBMITTED TO  
SAVITRIBAI PHULE PUNE UNIVERSITY,  
PUNE**



**FOR THE DEGREE OF  
BACHELOR OF SCIENCE  
IN  
PHYSICS  
UNDER THE FACULTY OF SCIENCE  
BY**

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**UNDER THE GUIDANCE OF**

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**M.Sc., M.Phil, Ph.D**

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**DEPARTMENT OF PHYSICS,**

**ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI**

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Seat No.

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**SAVITRIBAI PHULE PUNE UNIVERSITY**

**BONAFIDE CERTIFICATE**

This is to certify that the work incorporated in the project report entitled "**GROWTH AND CHARACTERIZATION OF Pbs THIN FILMS BY CHEMICAL BATH DEPOSITION**" submitted to Savitribai Phule Pune University, Pune, is benefited work of **Mr. Toge Ganesh Ashok** of B.Sc. (Physics) during the Academic year 2020-21, who carried out the project work under my supervision.



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