

“ANEKANT EDUCATION SOCIETY”

**TULJARAM CHATURCHAND COLLEGE OF ARTS,  
SCIENCE & COMMERCE, BARAMATI-413102**

(Autonomous)



A PROJECT REPORT ON

“SYNTHESIS AND CHARACTERISATION OF THE MIXED LIGAND  
COMPLEXES (L-ALANINE, OXALIC ACID) & (L-ALANINE,  
ANTHRANILIC ACID) WITH TRANSITION METALS”

**SUBMITTED TO**  
**DEPARTMENT OF CHEMISTRY**  
**SAVITRIBAI PHULE PUNE UNIVERSITY**

**By**

Miss. Gole Shivanjali Shankar

Miss. Shaikh Shayara Rashid

Mr. Kokare Shani Anandrao

**UNDER THE GUIDENCE OF**

Miss. Sonali P. Nale

2022-2023

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## CERTIFICATE

This is to certify that Miss. Gole Shivanjali Shankar, Miss. Shaikh Shayara Rashid, Mr. Kokare Shani Anandrao, regular students of class M.Sc.-II (Chemistry) has completed project on “Synthesis and characterization of the mixed ligand complexes (L-alanine and anthranilic) with some transition ions” in the partial fulfilment of the program in M.Sc. II as per the syllabus laid by Savitribai Phule Pune University, during the academic year 2022-2023 conducted under my supervision.

Miss. Sonali P. Nale

**PROJECT  
GUIDE**

**EXTERNAL  
EXAMINER**

Dr. S.R. Kale

**HEAD OF  
DEPARTMENT**

**PLACE: BARAMATI**

**DATE: 17/4/23**