

**III B. Sc Chemistry (2017-20 Batch)**  
**Part III Elective II Project - Course Code : 517CE3**  
**End Semester Examination - October 2019**

30.10.2019

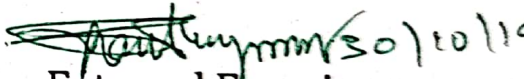
S. No	Reg. No	Name of the Student	Project Title
1	17BC6208	Abinaya A	Laboratory Wastewater Treatment (Volumetric Wastewater) using Banana Pith Extract as Coagulant
2	17BC6210	Anusuya Devi S.P	Corrosion inhibition studies of copper using naturally occurring polysaccharide in aggressive acid media
3	17BC6211	Arunthathivanju A	Silver nanoparticles: an efficient candidate for congo red dye degradation
4	17BC6212	Barkath Sulthana R	Study of Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under solarlight
5	17BC6213	Boshia J.M	Schiff Base Complexes of Fe(III) Derived from Amino Acids
6	17BC6214	Divya M	Adsorption of Malachite Green Dye from Aqueous Solution using Low Cost Adsorbent
7	17BC6215	Gayathri C	Schiff Base Complexes of Fe(III) Derived from Amino Acids
8	17BC6216	IrfanaParveen A	Silver nanoparticles: An efficient candidate for dye degradation
9	17BC6218	Jegadeeswari B	Silver nanoparticles: An efficient candidate for dye degradation
10	17BC6219	JulfiaFarhana M S	Photo Catalytic Decoloration Of Rhodamine-B Dye By Using ZnO, ZnO Doped LDH Catalysts Under Solar Light Irradiation

11	17BC6220	Kalaivani M	Laboratory Wastewater Treatment (Semi-micro Wastewater) using Banana Pith Extract as Coagulant
12	17BC6222	Kaviya K	Removal of Rhodamine B Dye from Aqueous Solution by Adsorption Technique
13	17BC6223	Krishnalakshmi K	Mitigation of Steel Corrosion using naturally occurring polysaccharide in Hydrochloric acid medium
14	17BC6224	Krishnaveni D	Study of Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under solarlight
15	17BC6225	Mahalakshmi S	A Comparative study of photo catalyst decoloration of crystal violet dye by ZnO, Al-Ca LDH, ZnO/Al-Ca LDH catalyst using under visible
16	17BC6226	Monisha K	Adsorption of Crystal Violet Dye from Aqueous Solution using Low Cost Adsorbent
17	17BC6227	Muthuselvi D	Performance of ZnO, Al-Ca, ZnO/ Al-Ca LDH Catalyst for Photocatalytic degradation of Crystal violet dye under solarlight
18	17BC6228	Niraimathi S.B	Performance of ZnO, Al-Ca, ZnO/ Al-Ca LDH Catalyst for Photocatalytic degradation of Crystal violet dye under solarlight
19	17BC6229	Nithyapriya S	Adsorption of Crystal Violet Dye from Aqueous Solution using Low Cost Adsorbent
20	17BC6230	Panimalar K	Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under visible light
21	17BC6231	Pavithra S	Photo Catalytic Decoloration Of Rhodamine-B Dye By Using ZnO, ZnO Doped LDH Catalysts Under Solar Light Irradiation
22	17BC6232	Ponnarasi B	Adsorption of Crystal Violet Dye from Aqueous Solution using Low Cost Adsorbent

23	17BC6233	Pousiya Begam A	Mitigation of Steel Corrosion using naturally occurring polysaccharide in Hydrochloric acid medium
24	17BC6236	Rajeswari A	Adsorption of Crystal Violet Dye from Aqueous Solution using Low Cost Adsorbent
25	17BC6237	Ramathal M	Schiff Base Complexes of Fe(III) Derived from Amino Acids
26	17BC6238	Revathi K	Photo Catalytic Decoloration Of Rhodamine-B Dye By Using ZnO, ZnO Doped LDH Catalysts Under Solar Light Irradiation
27	17BC6239	Sandhiya S	Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under visible light
28	17BC6240	Saranya M	Laboratory Wastewater Treatment (Semi-micro Wastewater) using Banana Pith Extract as Coagulant
29	17BC6241	Sathya S	Adsorption of Malachite Green Dye from Aqueous Solution using Low Cost Adsorbent
30	17BC6242	Selvadharshini K	Mitigation of Steel Corrosion using naturally occurring polysaccharide in Hydrochloric acid medium
31	17BC6243	Shanmugapriya S	Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under visible light
32	17BC6244	Sharmiladharshini K	CdTe Quantum dots: An excellent candidate for solar cell applications.
33	17BC6245	Shenpagapriya R	CdTe Quantum dots: An excellent candidate for solar cell applications.
34	17BC6246	Sivasankari S	Adsorption of Malachite Green Dye from Aqueous Solution using Low Cost Adsorbent

35	17BC6248	Sowmitha A	Removal of Rhodamine B Dye from Aqueous Solution by Adsorption Technique
36	17BC6249	Sowndarya V	Corrosion inhibition studies of copper using naturally occurring polysaccharide in aggressive acid media
37	17BC6250	Sowntharya K	Study of Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under solarlight
38	17BC6251	Sri Nithi R	Corrosion inhibition studies of copper using naturally occurring polysaccharide in aggressive acid media
39	17BC6252	Subashini S	A Comparative study of photo catalyst decoloration of crystal violet dye by ZnO, Al-Ca LDH, ZnO/Al-Ca LDH catalyst using under visible
40	17BC6253	Subhashini M	Laboratory Wastewater Treatment (Semi-micro Wastewater) using Banana Pith Extract as Coagulant
41	17BC6254	Suvathi Naalantha S	Corrosion inhibition studies of copper using naturally occurring polysaccharide in aggressive acid media
42	17BC6255	Valarmathi S	Laboratory Wastewater Treatment (Volumetric Wastewater) using Banana Pith Extract as Coagulant
43	17BC6256	Vennila L	Performance of ZnO, Al-Ca, ZnO/ Al-Ca LDH Catalyst for Photocatalytic degradation of Crystal violet dye under solarlight
44	17BC6257	Vijayalakshmi A	Silver nanoparticles: an efficient candidate for congo red dye degradation
45	17BC6258	Vijayalakshmi M	Quantum dots- porphyrin hybrid: a potential candidate for solar cell application.
46	17BC6259	Vinitha P	Laboratory Wastewater Treatment (Volumetric Wastewater) using Banana Pith Extract as Coagulant

47	17BC6260	Vishnupriya B	Schiff Base Complexes of Fe(III) Derived from Amino Acids
48	17BC6261	Vishnupriya M	Removal of Rhodamine B Dye from Aqueous Solution by Adsorption Technique
49	17BC6262	Yasotha D	Laboratory Wastewater Treatment (Volumetric Wastewater) using Banana Pith Extract as Coagulant
50	16BCE5164	Angel Hepsi Bai F	Malachite green removal from ZnO, Al-Zn LDH catalyst by photocatalytic degradation under visible light

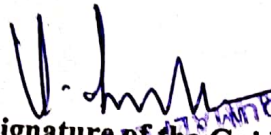
  
External Examiner

**Dr. S. Karthikeyan**  
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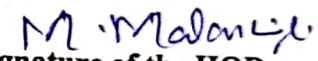
**CERTIFICATE**

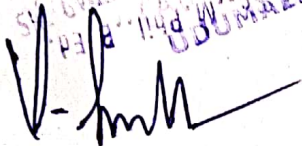
This is to certify that the project entitled "PHOTO CATALYTIC DECOLORATION OF RHODAMINE-B DYE BY USING ZnO, ZnO DOPED LDH CATALYSTS UNDER SOLAR LIGHT IRRADIATION" is the Bonafide work done by K. REVATHI (17BC6238), M.S. JULFIA FARAHANA (17BC6219), S. PAVITHRA (17BC6231) in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in Chemistry in Sri GVG Visalakshi College For Women (Autonomous), Udumalpet during the academic year 2019-2020.

Submitted for the viva-voce held on 30.10.2019

  
Signature of the Guide

*[Faint purple stamp: SRI GVG VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS), UDUMALPET, DISTRICT - UDUMALPET, TAMIL NADU]*

  
Signature of the HOD

  
Internal Examiner

  
External Examiner

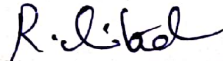
  
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**PRINCIPAL i/c**  
**SRI GVG VISALAKSHI COLLEGE**  
**FOR WOMEN (AUTONOMOUS)**  
**VENKATESA MILLS (POST),**  
**UDUMALPET - 642 128.**

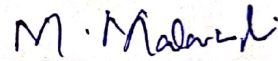


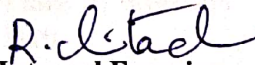
**CERTIFICATE**

This is to certify that the project entitled "A COMPARATIVE STUDY OF PHOTOCATALYTIC DECOLORATION OF MALACHITE GREEN DYE BY USING ZnO, Al-Zn LDH CATALYSTS UNDER VISIBLE LIGHT IRRADIATION" is the bonafide work done by K.PANIMALAR (17BC6230), S.SANDHIYA(17BC6239), S.SHANMUGAPRIYA(17BC6243), F.ANGELHEPSI BAI(16BCE5164) in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in Chemistry in Sri GVG Visalakshi College for Women (Autonomous), Udumalpet during the academic year 2019 – 2020.

Submitted for the viva – voce held on 30.10.2019

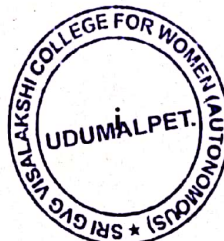
  
Signature of the Guide

  
Signature of the HOD

  
Internal Examiner

  
External Examiner 30/10/19

  
Signature of the Principal  
PRINCIPAL i/c  
SRI GVG VISALAKSHI COLLEGE  
FOR WOMEN (AUTONOMOUS)  
VENKATESA MILLS (POST),  
UDUMALPET - 642 128.



**MALACHITE GREEN REMOVAL FROM ZnO, Al-Zn LDH CATALYST BY  
PHOTOCATALYTIC DEGRADATION UNDER VISIBLE LIGHT.**

Project Report Submitted to

**SRI GVG VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)**

(Re-accredited at 'A+' Grade by NAAC  
An ISO 9001 – 2008 Certified Institution  
Affiliated to Bharathiar University, Coimbatore)  
**UDUMALPET**

In partial fulfilment of the requirements for the Degree of

**BACHELOR OF SCIENCE**

In

**CHEMISTRY**

BY

**K. PANIMALAR (REG. No: 17BC6230)  
S.SANDHIYA (REG.NO: 17BC6239)  
S.SHANMUGAPRIYA (REG.NO:17BC6243)  
F.ANGEL HEPSI BAI (REG.NO:16BCE5164)**



**DEPARTMENT OF CHEMISTRY**

**SRI GVG VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)**

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An ISO 9001 – 2008 Certified Institution  
Affiliated to Bharathiar University, Coimbatore)

**UDUMALPET**

**OCTOBER– 2019**



# **Adsorption of crystal violet dye from aqueous solution using low cost adsorbent**

**DBT Funded Project**

**PROJECT REPORT**

Submitted in partial fulfilment of the requirements for the award of the degree of

Bachelor of Science in Chemistry

Submitted by

**K. MONISHA (REG. NO: 17BC6226)**

**S. NITHYAPRIYA (REG. NO:17BC6229)**

**B.PONNARASI (REG. NO: 17BC6232)**

**A .RAJESWARI (REG. NO: 17BC6236)**

Under the guidance of

**Dr.(Mrs.). S.UMADEV I M.Sc.,M.Phil.,M.Ed.,Ph.D.**

Assistant professor, Department of Chemistry.



**DEPARTMENT OF CHEMISTRY**

**SRI GVG VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)**

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**Udumalpet-642 128**

**(2019-2020)**