

**ST.ALBERT'S COLLEGE (AUTONOMOUS)  
ERNAKULAM**



**CERTIFICATE**

This is to certify that the project Entitled "EXTRACTION AND QUANTIFICATION OF PHENOLIC CONTENT FROM COMMON MEDICINAL PLANT LEAVES" is an authentic record of the work carried out by AISHWARYA RAJAN of the B. Sc. Semester VI, Chemistry, St. Albert's College (Autonomous), Ernakulam, in partial fulfillment of the requirement for the award of B. Sc. Degree and the same has not been submitted elsewhere for any other degree .

Ernakulam

03-06-2020

**Certified genuine**

Dr. Vijay John Gerson

Head, Department of Chemistry

St. Albert's College, Ernakulam

**DEPARTMENT OF CHEMISTRY**  
**ST.ALBERT'S COLLEGE (AUTONOMOUS)**  
**ERNAKULAM**



**CERTIFICATE**

This is to certify that the project entitled " **GRREN SYNTHESIS AND PHOTO CATALYTIC ACTIVITY OF MAGNESIUM OXIDE NANOPARTICLE USING CALOTROPIS GIGANTEA EXTRACT** " is an authentic record of the work carried out by **NAYANA MARTIN** of the B. Sc. Semester VI ,Chemistry, St. Albert's College (Autonomous), Ernakulam, in partial fulfillment of the requirement for the award of B. Sc. Degree and the same has not been submitted elsewhere for any other degree .

Ernakulam

16 -06-2020

Smt. SOUMYA SALAS

**Certified genuine**

Dr. Vijay John Gerson

Head, Department of Chemistry

**DEPARTMENT OF CHEMISTRY**  
**ST.ALBERT'S COLLEGE (AUTONOMOUS)**  
**ERNAKULAM**



**CERTIFICATE**

This is to certify that the project entitled " **GREEN SYNTHESIS AND PHOTO CATALYTIC ACTIVITY OF MAGNESIUM OXIDE NANOPARTICLE USING CALOTROPIS GIGANTEA EXTRACT** " is an authentic record of the work carried out by sumayya.P.M. of the B. Sc. Semester VI ,Chemistry, St. Albert's College (Autonomous), Ernakulam, in partial fulfillment of the requirement for the award of B. Sc. Degree and the same has not been submitted elsewhere for any other degree .

Ernakulam

-03-2020

Smt. SOUMYA SALAS

# ST.ALBERT'S COLLEGE (AUTONOMOUS)

## ERNAKULAM



## CERTIFICATE

This is to certify that the project entitled "A COMPARATIVE STUDY OF THE PROPERTIES OF PURE CHITOSAN FILM & FIBRE REINFORCED FILM" is an authentic record of the work carried out by AMALA MARIA JACOB of the B.Sc. Chemistry, Semester VI, St. Albert's College(Autonomous), Ernakulam, in partial fulfillment of the requirement for the award of B. Sc. Degree and the same has not been submitted elsewhere for any other degree .

Ernakulam

25 -03-2020

JOSEPH PRINCE D.

**Certified genuine**

Dr. VIJAY JOHN GERSON

Head, Department of Chemistry

# PROJECT REPORT

Submitted to

MahaṭmaGandhiUniversity

In partial fulfillment of the Degree for

BACHELOR OF SCIENCE in

CHEMISTRY

GREEN SYNTHESIS OF SILVER NANOPARTICLES USING  
*Azadirachta indica* AQUEOUS LEAF EXTRACT AND STUDY  
OF IT'S ANTIBACTERIAL EFFECT

SUBMITTED BY

JEWLNA PEEVUS

1701060030

UNDER THE GUIDANCE OF

Mr.ALEX KURIAKOSE V.J

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY



ST.ALBERT'S COLLEGE(AUTONOMOUS),ERNAKULAM

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# **EXTRACTION AND QUANTIFICATION OF PHENOLIC CONTENT FROM COMMON MEDICINAL PLANT LEAVES**

A Project reported submitted to St. Albert's  
College (Autonomous), affiliated to Mahathma  
Gandhi University, Kottayam in partial  
fulfillment for the requirement of award of the  
degree Bachelor of Science in Chemistry

**BY**

**PARVATHY V.R**

**REG.NO. 1701060044**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**ESTIMATION OF OXALATE IONS IN SAPOTA, TOMATO, AND  
GUAVA IN DIFFERENT STAGES OF RIPENING**

**A PROJECT REPORT SUBMITTED TO ST. ALBERT'S COLLEGE  
(AUTONOMOUS) ERNAKULAM, AFFILIATED TO MAHATHMA  
GANDHI UNIVERSITY IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF AWARD OF THE BACHELOR IN SCIENCE DEGREE  
IN CHEMISTRY.**

**BY**

**ANNRIA VINCENT K**

**REG.NO. 1701060009**



**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

**DETERMINATION OF IRON CONTENT  
AND Fe<sup>3+</sup> CHELATION ABILITY OF JACK  
FRUIT SEED POWDER**

*A PROJECT REPORT SUBMITTED TO ST ALBERT'S COLLEGE  
(AUTONOMOUS) AFFILIATED TO MAHATHMA GANDHI UNIVERSITY IN  
PARTIAL FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY.*

**BY**

**SIFANA P I**

**REG.NO 1701060055**



**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA  
2017-2020**

**DETERMINATION OF IRON CONTENT**  
**AND Fe<sup>3+</sup> CHELATION ABILITY OF JACK**  
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*A PROJECT REPORT SUBMITTED TO ST ALBERT'S COLLEGE  
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PARTIAL FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY.*

**BY**

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**ST. ALBERT'S COLLEGE AUTONOMOUS**  
**ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

DEPARTMENT OF CHEMISTRY  
ST. ALBERT'S COLLEGE(AUTONOMOUS )  
ERNAKULAM 2019-2020



*Project report submitted to*

ST ALBERTS COLLEGE(AUTONOMOUS )  
ERNAKULAM

AFFILIATED TO MAHATMAGANDHI  
UNIVERSITY, KOTTAYAM

*In partial fulfillment of the requirements for the award of  
Degree of Bachelor of Science in chemistry.*

COMPARISON OF ADULTERATION IN DIFFERENT  
PACKET MILKS

Submitted by  
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**DEPARTMENT OF CHEMISTRY  
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ERNAKULAM 2019-2020**



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**ST ALBERTS COLLEGE(AUTONOMOUS )  
ERNAKULAM**

**AFFILIATED TO MAHATMA GANDHI  
UNIVERSITY, KOTTAYAM**

*In partial fulfillment of the requirements for the award of  
Degree of Bachelor of Science in chemistry.*

**COMPARISON OF ADULTERATION IN  
DIFFERENT PACKET MILKS**

Submitted by  
**TOM CHARLES**  
Reg.No. 1701060059

**A COMPARATIVE STUDY  
OF THE PROPERTIES OF PURE  
CHITOSAN FILM & FIBRE  
REINFORCED FILM**

A PROJECT REPORT  
SUBMITTED TO  
MAHATHMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF  
AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY

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**ST. ALBERT'S COLLEGE (AUTONOMOUS)  
ERNAKULAM – 682018, KERALA**

**2017-2020**

**PHOTOCATALYTIC ACTIVITY OF NANO ZnO  
FOR THE EFFICACIOUS REMOVAL OF AZO  
DYE IN THE WASTE WATER**

A PROJECT REPORT SUBMITTED TO ST ALBERT'S  
COLLEGE (AUTONOMOUS) AFFILIATED TO MAHATHMA  
GANDHI UNIVERSITY IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF AWARD OF THE DEGREE BACHELOR OF  
SCIENCE IN CHEMISTRY

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**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

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A Project reported submitted to St. Albert's  
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degree Bachelor of Science in Chemistry

**BY**

**MISNA K T**

**REG.NO. 1701060039**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

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**PHOTOCATALYTIC ACTIVITY OF NANO ZnO  
FOR THE EFFICACIOUS REMOVAL OF AZO  
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A PROJECT REPORT SUBMITTED TO ST. ALBERT'S  
COLLEGE (AUTONOMOUS) ERNAKULAM AFFILIATED TO  
MAHATMA GANDHI UNIVERSITY IN PARTIAL  
FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY

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**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA  
2017-2020**

**ESTIMATION OF OXALATE IONS IN SAPOTA, TOMATO, AND  
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GANDHI UNIVERSITY IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF AWARD OF THE BACHELOR IN SCIENCE DEGREE  
IN CHEMISTRY.**

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**DURGA MURALI**

**REG.NO. 1701060025**



**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

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GANDHI UNIVERSITY IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF AWARD OF THE BACHELOR IN SCIENCE DEGREE  
IN CHEMISTRY.**

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**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

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A PROJECT REPORT SUBMITTED TO ST ALBERT'S  
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GANDHI UNIVERSITY IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF AWARD OF THE DEGREE BACHELOR OF  
SCIENCE IN CHEMISTRY

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**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

**PHOTOCATALYTIC ACTIVITY OF NANO ZnO  
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A PROJECT REPORT SUBMITTED TO ST. ALBERT'S COLLEGE  
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UNIVERSITY IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF  
AWARD OF THE DEGREE BACHELOR OF SCIENCE IN CHEMISTRY

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**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

---

# **A COMPARATIVE STUDY OF THE PROPERTIES OF PURE CHITOSAN FILM & FIBRE REINFORCED FILM**

A PROJECT REPORT SUBMITTED TO ST. ALBERT'S  
COLLEGE ( AUTONOMOUS ) ERNAKULAM, AFFILIATED TO  
MAHATHMA GANDHI UNIVERSITY IN PARTIAL  
FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY

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**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**ESTIMATION OF OXALATE IONS IN SAPOTA, TOMATO, AND  
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**A PROJECT REPORT SUBMITTED TO ST. ALBERT'S COLLEGE  
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GANDHI UNIVERSITY IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF AWARD OF THE BACHELOR IN SCIENCE DEGREE  
IN CHEMISTRY.**

**BY**

**MALAVIKA REJITH**

**REG.NO. 1701060033**



**ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA**

**2017-2020**

# PROJECT REPORT

Submitted to

MahaṭmaGandhiUniversity

In partial fulfillment of the Degree for

BACHELOR OF SCIENCE in

CHEMISTRY

GREEN SYNTHESIS OF SILVER NANOPARTICLES USING  
*Azadirachta indica* AQUEOUS LEAF EXTRACT AND STUDY  
OF IT'S ANTIBACTERIAL EFFECT

SUBMITTED BY

ATHIRA C.A

1701060017

UNDER THE GUIDANCE OF

Mr.ALEX KURIAKOSE V.J

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY



ST.ALBERT'S COLLEGE(AUTONOMOUS),ERNAKULAM

**PREPARATION OF CELLULOSE ACETATE FROM PAPER WASTE AND  
ITS CHARACTERIZATION**

A PROJECT REPORT

SUBMITTED TO

MAHATHMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF

AWARD OF THE DEGREE

BACHELOR OF SCIENCE IN CHEMISTRY

BY

**JEFTIN M.X**

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**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

# PROJECT REPORT

Submitted to

MahatmaGandhiUniversity

In partial fulfillment of the Degree for

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CHEMISTRY

**GREEN SYNTHESIS OF SILVER NANOPARTICLES USING  
*Azadirachta indica* AQUEOUS LEAF EXTRACT AND STUDY  
OF IT'S ANTIBACTERIAL EFFECT**

SUBMITTED BY

ROOPA JOSEPH

1701060047

UNDER THE GUIDANCE OF

Mr.ALEX KURIAKOSE V.J

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY



ST.ALBERT'S COLLEGE(AUTONOMOUS),ERNAKULAM

**GREEN SYNTHESIS AND PHOTO CATALYTIC  
ACTIVITY OF MAGNESIUM OXIDE  
NANOPARTICLE USING CALOTROPIS  
GIGANTEA EXTRACT**

A PROJECT REPORT

SUBMITTED TO

MAHATHMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OAWARD OF THE DEGREE

BACHELOR OF SCIENCES IN CHEMISTRY

BY

NAYANA MARTIN

REG.NO. 1701040041

ST. ALBERT'S COLLEGE (AUTONOMOUS)

ERNAKULAM – 682018, KERALA

2017-2020



ST. ALBERT'S COLLEGE (AUTONOMOUS)

ERNAKULAM – 682018, KERALA

**PROJECT REPORT ON**  
**EXTRACTION AND ESTIMATION OF PIPERINE**  
**FROM BLACK PEPPER**

Submitted to St. Albert's College (Autonomous), Ernakulam  
affiliated to Mahatma Gandhi University, Kottayam in partial  
fulfillment for the requirement of award of the Bachelor of  
Science Degree in Chemistry.

**SUBMITTED BY:**

**ALLWYN SAJU**

**REG.NO. 1701060003**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**PROJECT REPORT ON**  
**EXTRACTION AND ESTIMATION OF PIPERINE**  
**FROM BLACK PEPPER**

Submitted to St. Albert's College (Autonomous), Ernakulam  
affiliated to Mahatma Gandhi University in partial fulfillment  
for the requirement of award of the Bachelor of Science  
Degree in Chemistry.

**SUBMITTED BY:**

**MINNU MARTIN**

**REG.NO. 1701060038**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**PROJECT REPORT ON**  
**EXTRACTION AND ESTIMATION OF PIPERINE**  
**FROM BLACK PEPPER**

Submitted to St. Albert's College (Autonomous), Ernakulam  
affiliated to Mahatma Gandhi University, Kottayam in partial  
fulfillment for the requirement of award of the Bachelor of  
Science Degree in Chemistry.

**SUBMITTED BY:**

**SHIFA JALAL**

**REG.NO. 1701060053**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**PROJECT REPORT ON**  
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Submitted to St. Albert's College (Autonomous), Ernakulam  
affiliated to Mahatma Gandhi University, Kottayam in partial  
fulfillment for the requirement of award of the Bachelor of  
Science Degree in Chemistry.

**SUBMITTED BY:**

**MARY LINSHIA N.J.**

**REG.NO. 1701060035**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**PROJECT REPORT ON**  
**EXTRACTION AND ESTIMATION OF PIPERINE**  
**FROM BLACK PEPPER**

Submitted to St. Albert's College (Autonomous), Ernakulam  
affiliated to Mahatma Gandhi University in partial fulfillment  
for the requirement of award of the Bachelor of Science  
Degree in Chemistry.

**SUBMITTED BY:**

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**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**PREPARATION OF CELLULOSE ACETATE FROM PAPER WASTE AND  
ITS CHARACTERIZATION**

A PROJECT REPORT

SUBMITTED TO

MAHATHMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF

AWARD OF THE DEGREE

BACHELOR OF SCIENCE IN CHEMISTRY

BY

**Sandra Babu M**

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**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**GREEN SYNTHESIS OF SILVER  
NANOPARTICLES AND STUDY OF IT'S  
CATALYTIC PROPERTY**

A PROJECT REPORT SUBMITTED TO THE MAHATMA  
GANDHI UNIVERSITY IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY

BY  
EDWIN MATHEW  
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ST. ALBERT'S COLLEGE, ERNAKULAM  
COCHIN – 682018, KERALA

2017-2020

**GREEN SYNTHESIS OF SILVER  
NANOPARTICLES AND STUDY OF IT'S  
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A PROJECT REPORT SUBMITTED TO THE MAHATMA  
GANDHI UNIVERSITY IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY

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SHIYARA SHALAN  
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ST. ALBERT'S COLLEGE, ERNAKULAM  
COCHIN – 682018, KERALA

**PREPARATION OF CELLULOSE ACETATE FROM PAPER WASTE AND  
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A PROJECT REPORT

SUBMITTED TO  
MAHATHMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF  
AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY

**BY**

**Milga Maria C.R**  
**REG.NO. 1701060037**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**  
**ERNAKULAM – 682018, KERALA**  
**2017-2020**

DEPARTMENT OF CHEMISTRY  
ST. ALBERT'S COLLEGE(AUTONOMOUS )  
ERNAKULAM 2019-2020



*Project report submitted to*

ST ALBERTS COLLEGE(AUTONOMOUS )  
ERNAKULAM

AFFILIATED TO MAHATMA GANDHI  
UNIVERSITY, KOTTAYAM

*In partial fulfillment of the requirements for the award of  
Degree of Bachelor of Science in chemistry.*

**COMPARISON OF ADULTERATION IN  
DIFFERENT PACKET MILKS**

Submitted by  
**RESHMA BASIL**  
Reg.No. 1701060045

**GREEN SYNTHESIS AND PHOTO CATALYTIC  
ACTIVITY OF MAGNESIUM OXIDE  
NANOPARTICLE USING CALOTROPIS  
GIGANTEA EXTRACT**

A PROJECT REPORT

SUBMITTED TO

MAHATHMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OAWARD OF THE DEGREE

BACHELOR OF SCIENCE IN CHEMISTRY

BY

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REG.NO. 1701066006

ST. ALBERT'S COLLEGE (AUTONOMOUS)

ERNAKULAM – 682018, KERALA

2017-2020



ST. ALBERT'S COLLEGE (AUTONOMOUS)

ERNAKULAM – 682018, KERALA

**DETERMINATION OF IRON CONTENT**  
**AND  $\text{Fe}^{2+}$ CHELATION ABILITY OF JACK**  
**FRUIT SEED POWDER**

*A PROJECT REPORT SUBMITTED TO ST ALBERT'S COLLEGE  
(AUTONOMOUS) AFFILIATED TO MAHATHMAGANDHI UNIVERSITY IN  
PARTIAL FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY.*

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*ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA*

*2017-2020*

**DETERMINATION OF IRON CONTENT  
AND Fe<sup>3+</sup> CHELATION ABILITY OF JACK  
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PARTIAL FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY.*

*BY*

*MEGHA T KURIAROSE*

*REG.NO 1701060036*



*ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA  
2017-2020*

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# **A COMPARATIVE STUDY OF THE PROPERTIES OF PURE CHITOSAN FILM & FIBRE REINFORCED FILM**

A PROJECT REPORT

SUBMITTED TO

MAHATHMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF

AWARD OF THE DEGREE

BACHELOR OF SCIENCE IN CHEMISTRY

BY

ANN RIVNA ROSE

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ST. ALBERT'S COLLEGE (AUTONOMOUS)

ERNAKULAM – 682018, KERALA

2017-2020

# Nickel(II) Catalyzed Tandem Site-selective Aza-Michael Additions of 6- Methoxybenzothiazole to Phenyl Vinyl Sulfone



Presented by: ARYA T P

: 1701060015

Supervisor: Dr. Rajesh Kunjanpillai

Department of Chemistry  
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# Nickel(II) Catalyzed Tandem Site- selective Aza-Michael Additions of 6-Methoxybenzothiazole to Phenyl Vinyl Sulfone



Presented by: Bhavana V Biju  
Reg No: 1701060020

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Department of Chemistry  
St. Albert's College  
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Ernakulam – 682 018

---

# Nickel(II) Catalyzed Tandem Site-selective Aza-Michael Additions of 6-Methoxybenzothiazole to Phenyl Vinyl Sulfone



**Presented by:** ATHIRA K.R

REG NO: 1701060018

**Supervisor: Dr. Rajesh Kunjanpillai**

**Department of Chemistry  
St. Albert's College (Autonomous)  
Ernakulam – 682 018**

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# **EXTRACTION AND QUANTIFICATION OF PHENOLIC CONTENT FROM COMMON MEDICINAL PLANT LEAVES**

A PROJECT REPORT

SUBMITTED TO

MAHATHMA GANDHI UNIVERSITY

IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF

AWARD OF THE DEGREE

BACHELOR OF SCIENCE IN CHEMISTRY

**BY**

**AMITHA JOSEPH**

**REG.NO. 1701060005**



**ST. ALBERT'S COLLEGE (AUTONOMOUS)**

**ERNAKULAM – 682018, KERALA**

**2017-2020**

**DEPARTMENT OF CHEMISTRY**

**DETERMINATION OF IRON CONTENT**  
**AND Fe<sup>3+</sup> CHELATION ABILITY OF JACK**  
**FRUIT SEED POWDER**

*A PROJECT REPORT SUBMITTED TO ST ALBERT'S COLLEGE  
(AUTONOMOUS) AFFILIATED TO MAHATHMA GANDHI UNIVERSITY IN  
PARTIAL FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE  
DEGREE BACHELOR OF SCIENCE IN CHEMISTRY.*

*BY*

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*ST. ALBERT'S COLLEGE AUTONOMOUS  
ERNAKULAM COCHIN – 682018, KERALA*

*2017-2020*

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# Nickel(II) Catalyzed Tandem Site-selective Aza-Michael Additions of 6-Methoxybenzothiazole to Phenyl Vinyl Sulfone



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# Nickel(II) Catalyzed Tandem Site-selective Aza-Michael Additions of 6- Methoxybenzothiazole to Phenyl Vinyl Sulfone



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**GREEN SYNTHESIS AND PHOTO CATALYTIC  
ACTIVITY OF MAGNESIUM OXIDE  
NANOPARTICLE USING CALOTROPIS  
GIGANTEA EXTRACT**

A PROJECT REPORT SUBMITTED TO ST. ALBERT'S COLLEGE (AUTONOMOUS),  
AFFILIATED TO MAHATHMA GANDHI UNIVERSITY, KOTTAYAM IN PARTIAL  
FULFILLMENT FOR THE REQUIREMENT OF AWARD OF THE DEGREE BACHELOR  
OF SCIENCE IN CHEMISTRY

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**ERNAKULAM – 682018, KERALA**

**2017-2020**

**GREEN SYNTHESIS OF SILVER  
NANOPARTICLES AND STUDY OF IT'S  
CATALYTIC PROPERTY**

A PROJECT REPORT SUBMITTED TO THE MAHATMA  
GANDHI UNIVERSITY IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE DEGREE  
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ST. ALBERT'S COLLEGE, ERNAKULAM  
COCHIN – 682018, KERALA

2017-2020



**PREPARATION OF CELLULOSE ACETATE FROM PAPER WASTE AND  
ITS CHARACTERIZATION**

A PROJECT REPORT

SUBMITTED TO  
MAHATHMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF  
AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY

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# Nickel(II) Catalyzed Tandem Site-selective Aza-Michael Additions of 6- Methoxybenzothiazole to Phenyl Vinyl Sulfone



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# PROJECT REPORT

Submitted to

MahatmaGandhiUniversity

In partial fulfillment of the Degree for

BACHELOR OF SCIENCE in

CHEMISTRY

GREEN SYNTHESIS OF SILVER NANOPARTICLES USING  
*Azadirachta indica* AQUEOUS LEAF EXTRACT AND STUDY OF  
IT'S ANTIBACTERIAL EFFECT

SUBMITTED BY

HELEN SANDRA T P

1701060028

UNDER THE GUIDANCE OF

Mr.ALEX KURIAKOSE V.J

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY



ST.ALBERT'S COLLEGE(AUTONOMOUS),ERNAKULAM



**PREPARATION OF CELLULOSE ACETATE FROM PAPER WASTE  
AND ITS CHARACTERIZATION**

**A PROJECT REPORT**

**SUBMITTED TO  
MAHATHMA GANDHI UNIVERSITY  
IN PARTIAL FULFILLMENT FOR THE REQUIREMENT OF  
AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY**

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ERNAKULAM 2019-2020**



*Project report submitted to*

**ST ALBERTS COLLEGE (AUTONOMOUS)  
ERNAKULAM**

**AFFILIATED TO MAHATMAGANDHI  
UNIVERSITY, KOTTAYAM**

*In partial fulfillment of the requirements for the award of  
Degree of Bachelor of Science in chemistry.*

**COMPARISON OF ADULTERATION IN  
DIFFERENT PACKET MILKS**

Submitted by

**VISHNU KRISHNAKUMAR**

**Reg.No. 1701060060**

**GREEN SYNTHESIS OF SILVER  
NANOPARTICLES AND STUDY OF IT'S  
CATALYTIC PROPERTY**

A PROJECT REPORT SUBMITTED TO THE MAHATMA  
GANDHI UNIVERSITY IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE DEGREE  
BACHELOR OF SCIENCE IN CHEMISTRY

BY  
DILNA BIJU  
(REG NO: 1701060023)



ST. ALBERT'S COLLEGE, ERNAKULAM  
COCHIN – 682018, KERALA

2017-2020

# **EXTRACTION AND QUANTIFICATION OF PHENOLIC CONTENT FROM COMMON MEDICINAL PLANT LEAVES**

A Project reported submitted to St.  
Albert's College (Autonomous), affiliated  
to Mahathma Gandhi University, Kottayam  
in partial fulfillment for the requirement of  
award of the degree Bachelor of Science  
in Chemistry

**BY**

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