

**ANTIMICROBIAL STUDY OF FINE POWDER OF INDIAN
MEDICINAL PLANT LEAF ACALYPHA INDICA**

A group project submitted to the Thiruvalluvar University

In partial fulfilment of the Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SINDHU BAIRAVI V.M (Reg No: 12020U28016)

SWETHA R (Reg No: 12020U28019)

MEENA D (Reg No: 12020U28006)

ARULSELVI S (Reg No: 12020U28003)

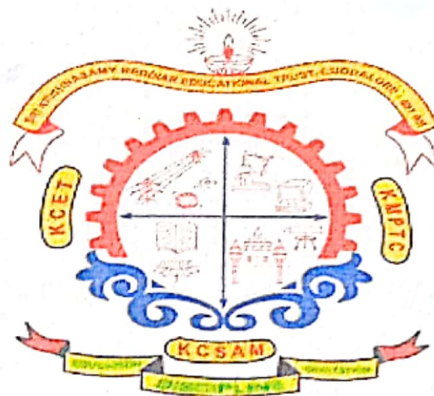
DEEPA V (Reg No: 12020U28004)

Under the Guidance of

Dr. G. NIRMALA M.Sc., M.Phil., PhD., PGDCA.,

Principal & Head of the Department of Physics

DEPARTMENT OF PHYSICS



Krishnasamy College of Science, Arts and Management for Women

S. Kumarapuram, Cuddalore-607 109

(Affiliated to the Thiruvalluvar University)

April-2023

Dr. G. NIRMALA M.Sc., M.Phil., Ph.D., PGDCA.,

Principal & Head of the Department of Physics

Krishnasamy College of Science Arts and Management for Women, Cuddalore-607 109

BONAFIDE CERTIFICATE

This is to certify that the project work entitled " ANTIMICROBIAL STUDY OF FINE POWDER OF INDIAN MEDICINAL PLANT LEAF ACALYPHA INDICA." submitted by, SINDHU BAIRAVI V.M (Reg No: 12020U28016), SWETHA R (Reg No: 12020U28019), MEENA D (Reg No: 12020U28006), ARULSEVI S (Reg No: 1202U2802003) and DEEPA V (Reg No: 1202U2802004 in partial fulfilment of the requirements for the award of BACHELOR OF PHYSICS, Krishnasamy College of Science Arts and Management for Women Cuddalore, affiliated to the Thiruvalluvar University, April 2023, was done, during the period of their studies under my guidance.

G. Nirmala

Dr. (Mrs.) G. NIRMALA
Head of Department
Department of Physics
Krishnasamy College of Science,
Arts and Management for Women
Cuddalore,

G. Nirmala

Dr. (Mrs.) G. NIRMALA
Head of Department
Department of Physics
Krishnasamy College of Science,
Arts and Management for Women
Cuddalore,

Submitted to Krishnasamy College of Science Arts and Management for Women Cuddalore,
at the viva-voice examination held on 6/5/2023

D. D. Shobha
6/5/2023
Internal Examiner

Dr. D. SHOBHA
AP / Physics
KCSAM W

R. Murugesan
6/5/23
External Examiner

Dr. R. MURUGESAN Ph.D.
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT
THIRU KOLAKKOTTAI
VRIDDHACHARI
01

UV-VISIBLE AND FT-IR SPECTROSCOPY
ANALYSIS OF FINE POWDERS OF INDIAN MEDICINAL PLANT FLOWERS
(CATHARANTHUS ROSEUS AND SENNA AURICULATA)

A group project submitted to the Thiruvalluvar University

In partial fulfillment of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

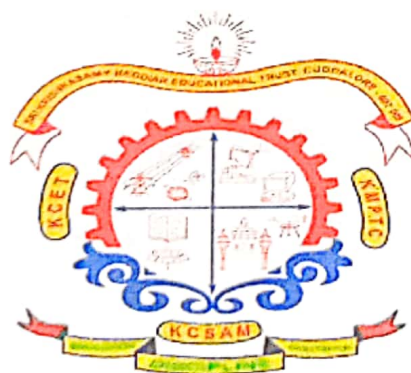
ABITHA K (Reg No: 12020U28002)
GAYATHRI A (Reg No: 12020U28005)
SRIVARSHINI BABU (Reg No: 12020U28018)
VISHNUPRIYA N (Reg No: 12020U28020)

Under the Guidance of

Dr. (Mrs.) D. SHOBA M.Sc., M.Phil., Ph.D.,

Assistant Professor

DEPARTMENT OF PHYSICS



Krishnasamy College of Science, Arts and Management for Women

S.Kumarapuram, Cuddalore-607 109

(Affiliated to the Thiruvalluvar University)

APRIL-2023

Dr. (Mrs.) D. SHOBA M.Sc., M.Phil., Ph.D.,
Assistant Professor in Physics
Krishnasamy College of Science Arts and Management for Women
Cuddalore-607 109

BONAFIDE CERTIFICATE

This is to certify that the project work entitled "UV-Visible and FTIR spectroscopic analysis of fine powders of Indian Medicinal plant flowers (Catharanthus Roseus and Senna Auriculata)" submitted by, ABITHA K (Reg No: 12020U28002), GAYATHRI A (Reg No: 12020U28005), SRIVARSHINI BABU (Reg No: 12020U28018), and VISHNUPRIYA N (Reg No: 1202U28020) in partial fulfillment of the requirements for the award of BACHELOR OF PHYSICS, Krishnasamy College of Science Arts and Management for Women Cuddalore, affiliated to the Thiruvalluvar University, April 2023, was done, during the period of their studies under my guidance.

G. Nirmala

Dr. (Mrs.) G. NIRMALA
Head of Department
Department of Physics
Krishnasamy College of Science,
Arts and Management for Women
Cuddalore,

Dr. (Mrs.) D. Shoba
3/5/23
Dr. (Mrs.) D. SHOBA
Assistant Professor
Department of Physics
Krishnasamy College of Science,
Arts and Management for Women
Cuddalore,

Submitted to Krishnasamy College of Science Arts and Management for Women Cuddalore,
at the viva-vo ce examination held on 06.05.2023

Dr. D. Shoba
06/5/23
Internal Examiner
Dr. D. SHOBA
AP/Physics
KCSAMW

R. Murugesan
06/5/23
External Examiner
Dr. R. MURUGESAN, M.Sc., M.Phil., Ph.D.
ASSISTANT PROFESSOR
PG & RESEARCH DEPT. OF PHYSICS
THIRU KOLANJAPPAR GOVT. ARTS COLLEGE
VRIDDHACHALAM - 606 001

UV-VISIBLE AND FT-IR SPECTROSCOPY
ANALYSIS OF FINE POWDERS LEAVES OF INDIAN MEDICINAL PLANT
ACALYPHA INDICA

A group project Submitted to the Thiruvalluvar University
In partial fulfillment of the Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

R. NANTHINI	(REG.NO:12020U28007)
R. PARMITHA	(REG.NO:12020U28008)
K. PRIYADHARSHINI	(REG.NO:12020U28009)
S. PRIYADHARSHINI	(REG.NO:12020U28010)
T. SOUMIYA	(REG.NO:12020U28017)

Under the Guidance of
Dr. Mrs. D. DEVIKA M.Sc., Ph.D.,
Assistant Professor
Department of Physics



Krishnasamy College of Science, Arts and Management for Women
S. Kumarapuram, Cuddalore-607 109
(Affiliated to the Thiruvalluvar University)

April 2023

Dr. Mrs. D. DEVIKA M.Sc., Ph.D.,
Assistant Professor
Department of Physics
Krishnasamy College of Science, Arts and Management for Women Cuddalore-607 109

BONAFIDE CERTIFICATE

This is to certify that the project work entitled "UV-Visible And FTIR analysis of fine powders Leaves of Indian medicinal Plant Acalypha Indica" submitted by, R. NANTHINI (REG.NO:12020U28007), R. PARMITHA (REG.NO:12020U28008), K. PRIYADHARSHINI (REG.NO:12020U28009), S. PRIYADHARSHINI (REG.NO:12020U28010), T. SOUMIYA (REG.NO:12020U28017) in partial fulfillment of the requirements for the award of BACHELOR OF PHYSICS, Krishnasamy College of Science Arts and Management for Women Cuddalore, affiliated to the Thiruvalluvar University, April 2023, was done, during the period of their studies under my guidance.

a. nirmala

Dr. (Mrs.) G. NIRMALA
Head of Department
Department of Physics
Krishnasamy College of Science,
Arts and Management for Women
Cuddalore,

Dr. Mrs. D. Devika

Dr. Mrs. D. DEVIKA M.Sc., Ph.D.,
Assistant Professor
Department of Physics
Krishnasamy College of Science,
Arts and Management for Women
Cuddalore,

Submitted to Krishnasamy College of Science Arts and Management for Women Cuddalore, at the

Viva-Voice examination held on 06.05.2023

Dr. D. S. H. S. H.
06/5/23

Internal Examiner

Dr. D. S. H. S. H.
AP / physics
KCSAM W

R. Murugesan
06/5/23

External Examiner

Dr. R. MURUGESAN, M.Sc., M.Phil., Ph.D.
ASSISTANT PROFESSOR
PG & RESEARCH DEPT. OF PHYSICS
THIRU KOLANJIAPPAR GOVT. ARTS COLLEGE
VRIDDHACHALAM - 606 001

**THE IONIC CONDUCTIVITY OF BIO-POLYMER POLYVINYL ALCOHOL
WITH INDIAN MEDICINAL PLANT –ACALYPHA INDICA AND POTATO
EXTRACT FOR ELECTROCHEMICAL DEVICES APPLICATION**

A group project Submitted to the **THIRUVALLUVAR UNIVERSITY**

In partial fulfilment of the Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

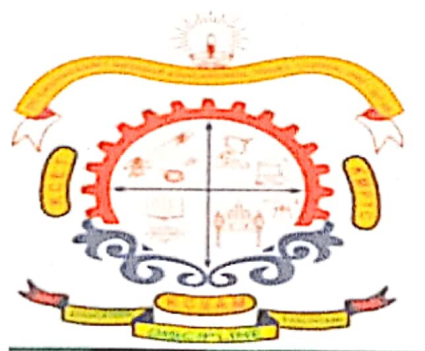
B. RAJAPRIYA	(Reg.no:12020U28011)
S. RAMANI	(Reg no:12020U28012)
M. SAKTHISRI	(Reg.no 12020U28013)
L. SARUMATH	(Reg no:12020U28014)
P. SEENA	(Reg no:12020U28015)

Under the guidance of

Dr. (Mrs) S. ARULMANI M.Sc., B.Ed., Ph.D.,

Assistant Professor

DEPARTMENT OF PHYSICS



Krishnasamy college of Science, Arts and Management for Women

S. Kumarapuram, Cuddalore-607 109

(Affiliated to the Thiruvalluvar University)

APRIL-2023

Dr. (Mrs.) S. ARULMANI
Assistant Professor in Physics
Krishnasamy College of Science, Arts and Management for women
Cuddalore- 607 109

BONAFIDE CERTIFICATE

This is to certify that the project work entitled "The Ionic conductivity of Bio-polymer Polyvinyl alcohol with Indian medicinal plant –Acalypha Indica and Potato extract for Electrochemical devices applications" submitted by, RAJAPRIYA. B (Reg No :12020U28011), RAMANI. S (Reg No:12020U28012), SAKTHISRI. M (Reg No 12020U28013), SARUMATH. L (Reg No:12020U28014), SEENA. P (Reg No:12020U28015) in partial fulfilment of the requirements for the award of BACHELOR OF PHYSICS, Krishnasamy College of Science, Arts and Management for women Cuddalore, affiliated to the Thiruvalluvar University, April 2023, was done, During the period of their studies under my guidance.

G. Nirmala

Dr. (Mrs.) G. Nirmala
Head of Department
Department of Physics
Krishnasamy College of Science,
Arts and Management for women
Cuddalore,

S. Arulmani

Dr. (Mrs.) S. ARULMANI
Assistant Professor
Department of Physics
Krishnasamy College of Science,
Arts and Management for women
Cuddalore,

Submitted to Krishnasamy College of Science, Arts and Management for women Cuddalore, at the viva voce examination held on 06.05.2023

D. S. Murugesan
Internal Examiner

Dr. D. S. Murugesan
AP/Physics
KCSAMW

R. Murugesan
External Examiner

Dr. R. MURUGESAN, M.Sc., M.Phil., Ph.D.
ASSISTANT PROFESSOR
PG & RESEARCH DEPT. OF PHYSICS
THIRU KOLANJAPPAR GOVT. ARTS COLLEGE
VRIDDHACHALAM - 606 001